

1RJC

>1RJC:A

EVQLQASGGGSVQAGQSLRLSCATSGATSSSNMGWFRQAPGKEREGVAVIDTGRGNTAYADS
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TVSSRGRHHHHHH

>1RJC:B

KVFGRCELAAAMKRHGLDNYRGYSLGNWVCAAKFESNFNTQATNRNTDGSTDYGILQINSR
WWCNDGRTPGSRNLCNIPCSALLSSDITASVNCAMKIVSDGNGMNAWVAWRNRCKGTDVQA
WIRGCRL

2VYR

>2VYR:A

ACRISPGQINQVRPKLPLLKILHAAGAQQEMFTVKEVMHYLGQYIMVKQLYDQQEQHMVYC
GGDLLGELLGRQSFSVKDPSPLYDMLRKNLVTLATATDA

>2VYR:E

EVQLLESAGGLVQPGGSLRLSCAASGFTFEEYAMLWVRQAPGKGLEWVSGINARGYTTYAD
SVKGRFTISRDNKNTLYLQMNSLRTEDTAVYYCAKPWYPFMASKGSEFDYWGQGLVTVSS
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3OGO

>3OGO:A

MAHHHHHHSSGSVSKGEELFTGVVPILVELDGDVNGHKFSVSGEGEGDATYGKLTCLKFICTTGK
LPVPWPTLVTTGLYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKF
EGDTLVNRIELKGIDFKEDGNILGHKLEYNYNSHNVYIMADKQKNGIKVNFKIRHNIEDGSVQ
LADHYQQNTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITLGMDELYK

>3OGO:E

MQVQLVESGGALVQPGGSLRLSCAASGFPVNRYSMRWYRQAPGKEREWVAGMSSAGDRSSY
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2X89

>2X89:A

QVQLQESGGGSVQAGGSLRLSCAASGYTDSRYCMAWFRQAPGKEREWVARINSGRDITYAD
SVKGRFTFSQDNAKNTVYLLQMDSLEPEDTATYYCATDIPLRCRDIVAKGGDGFYWGQGTQV
TVSS

>2X89:D

MIQVYSRHPAENGKSNFLNCYVSGFHPSDIEVDLLKNGERIEKVEHSDLSFSKDWSFYLLYYTE
FTPTEKDEYACRVNHVTLSPKIVKWRDM

3UZQ

>3UZQ:A

EVKLLEQSGAELVKPGASVRLSCTASGFNIKDTYMSWVKQRPEQGLEWIGRIDPANGDTKYDP
KFQGKATITADTSSNTAYLHLSLTSGLTAVYYCSRGWEGFAYWGQGLVTVSAGGGGSGGGG
SGGGGSELVMTQTPASLAVSLGQRATISCRASENVDRYGNFSFMHWYQQKAGQPPKLLIYRASN
LESGIPARFSGSGSRDFTLTINPVEADDVATYFCQRSNEVPWTFGGGTKLEIKRPLEHHHHHH

>3UZQ:B

MGMSYVMCTGSFKLEKEVAETQHGTVLVQVKYEGTDAPCKIPFSTQDEKGVTVQNGRLITANPI
VTDKEKPVNIETEPFSGESYIIVGAGEKALKLSWFKKGSIGKLEHHHHHH

3UX9

>3UX9:A

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>3UX9:B

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LSSSGSEVQLVESGGGLVQPGGSLRLSCAASGFTFSSYAMSWVRQAPGKGLEWVSAISGSGGS
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LEH

3ZKQ

>3ZKQ:A

ANFLAMVDNLQGDSEGRGYYLEMLIGTPPQKLQILVDTGSSNFAVAGTPHSYIDTYFDTERSSTY
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LAKPSSSLETFFDLSVTQANIPNVFSMQMCGAGLPVAGSGTNGGSLVLGGIEPSLYKGDWIYTP
KEEWYYQIEILKLEIGGQSLNLDREYNADKAIVDSGTLLRLPQKVFDVAVVEAVARASLIPEFS
DGFWTGSQLACWTNSETPWSYFPKISYLRDENSSRSFRITILPQLYIQPMMGAGLNYECYRFGI
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>3ZKQ:D

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4HEM

>4HEM:A

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WNAFHIDIPSSGVCQWFGPTASSGTPRGTTGTYPID

>4HEM:E

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4HGM

>4HGM:A

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>4HGM:B

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AFHDNEETFLKKYLYEIAARRHPYFYAPPELLFFAKRYKAAFTECCQAADKAAACLLPKLDELDE
GKASSAKQRLKCASLQKFGERAFKAWAVARLSQRFPAEFAEVSKLVTDLTKVHTECCHGDL
ECADDRADLAKYICENQDSISSKLKECCEKPLLEKSHCIAEVENDEMPADLPSLAADFVESKDV
CKNYAEAKDVFGLGMFLYEYARRHPDYSVLLLRALAKTYETTLEKCCAAADPHECYAKVFDEF
KPLVEEPQNLKQNCLEFEQLGEYKFNALLVRYTKKVPQVSTPTLVEVSRNLGKVGSKCCKH
PEAKRMPCAEDYLSVVLNQLCVLHEKTPVSDRVTCCTESLVNRRPCFSALEVDETYVPKEFN
AETFTFHADICTLSEKERQIKKQALVELVKHKPKATKEQLKAVMDDFAAFVEKCKKADDKET
CFAEKGKLVAAASQAALGL

4EIZ

>4EIZ:A

MISLIAALAVDRVIGMENAMPWNLPADLAWFKRNTLNKPVIMGRHTWESIGRPLPGRKNIILSS
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YEPDDWESVFSEFHDADAQNSHSYCFEILERR

>4EIZ:C

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VTVSSHHHHHH

3ZO0

>3ZO0:A

GPSVFIFPPKIKDVLMSLSPIVTCVVVDVSEDDPDVQISWVFNVEVHTAQTQTHREDYNSTLR
VVSALPIQHQDWMMSGKEFKCKVNNKDLPAPIERTISKPKGSVRAPQVYVLPPEEEMTKKQVT
LTCMVTDFMPEDIYVEWTNNGKTELNYKNTEPVLDSGYSYFMYSKLRVEKKNWVERNSYSC
SVVHEGLHNHHTTKSFSRS

>3ZO0:B

HMVHITLDRNTANSWLIISKDRRQVRMGDTHQNVSDNKERFSNYPMVLGAQRFSSGKMYWE
VDVTQKEAWDLGVCRDSVQRKGQFSLSPENGFWTIWLWQKSYEAGTSPQTTLHIQVPPCQIGI
FVDYEAGVVSFYNITDHGSLIYTFSECVFAGPLRPFVNFVGFNYSGGNAAPLKLCLPLKM

1FCC

>1FCC:A

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VSLTCLVKGFPYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSS
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>1FCC:C

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1F34

>1F34:A

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ATPVFDNLWDQGLVSQDLFSVYLSNDDSGSVLLGGIDSSYYTGSLNWVPSVEGYWQITLD
SITMDGETIACSGGCQAIVDGTGTSLLTGPTSAIANIQSDIGASENSDGEMVISCSSIDSLPDIVFTIN
GVQYPLSPSAYILQDDDSCTSGFEGMDVPTSSGELWILGDVFIRQYYTVFDRANNKVGLAPVA

>1F34:B

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GMPHGAVPAGGLSPPPPSFCTVQ

1FLE

>1FLE:E

VVGGTEAQRNSWPSQISLQYRSGSSWAHTCGGTLIRQNWVMTAAHCVDRELTFRVVGEHNL
NQNNGTEQYVGVQKIVVHPYWNTDDVAAGYDIALLRQAQSVTLNSYVQLGVLPRAGTILAN
NSPCYITGWGLTRTNGQLAQTLLQAYLPTVDYAICSSSSYWGSTVKNSMVCAGGDGVRSGCQ
GDSGGPLHCLVNGQYAVHGVTSFVSRLGCNVTRKPTVFTRVSAYISWINNVIASN

>1FLE:I

AQEPVKGPVSTKPGSCPIILIRCAMLNPPNRCLKDTCPGIKKCEGSCGMACFVPQ

1JIW

>1JIW:I

SSLILLSASDLAQWTLQQDEAPAICHLELRDSEVAEASGYDLGGDTACLTRWLPSEPRAWRPT
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>1JIW:P

GRSDAYTQVDNFLHAYARGGDELVNGHPSYTVDQAAEQILREQASWQKAPGDSVLTLSYSFLT
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NFSSVGGAAFAFLPDVDPALKGQSWYLINSSYSANVNPANGNYGRQTLTHEIGHTLGLSHPG
DYNAGEGDPTYADATYAEDTRAYSVMYSYWEEQNTGQDFKGAYSSAPLLDDIAAIQKLYGANL
TTRTGDTVYGFNSNTERDFYSATSSSSKLVFSVWDAGGNDTLDFSGFSQNQKINLNEKALSDV
GGLKGNVSIAGVTVENAIGGSGDLLIGNDVANVLKGGAGNDILYGGGLGADQLWGGAGADT
FVYGDIAESSAAAPDTRLDFVSGQDKIDLSGLDAFVNGGLVLQYVDAFAGKAGQAILSUDAAS
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1YVB

>1YVB:A

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NYLSVPDNKLKEALRFLGPISISVAVSDDFAFYKEGIFDGECDQLNHAVMLVGFGMKEIVNPL
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>1YVB:I

RLLGAPVPVDENDEGLQRALQFAMAEYNRASNDKYSSRVVRVISAKRQLVSGIKYILQVEIGRT
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2ABZ

>2ABZ:A

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RSVTSSSLCVGVDANRNWDAGFGKAGASSPCSEYHKGKYANSEVEVKSIVDFVKDHGNFKA
FLSIHSYSQLLLYPYGYTTQSIPDKTELNQVAKSAVAALKSLYGTSYKYGSIITTIYQASGGSIDW
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>2ABZ:C

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YVE

2B42

>2B42:A

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LLASLPRGSTGVAGLANGLALPAQVASAQKVANRFLCLPTGGPGVAIFGGGPVPWPQFTQS
MPYTPLVTKGGSPAHYISARSIVVDTRVPVPEGALATGGVMLSTRLPYVLLRPDVYRPLMDA
FTKALAAQHANGAPVARAVVAVAPFGVCYDTKTLGNNLGGYAVPNVQLGLDGGSDWTMTGK
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GCGGL

>2B42:B

ASTDYWQNWTDGGGIVNAVNGSGGNYSVNWSNTGNFVVGKGWTTGSPFRTINYNAGVWAP
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TFTQYWSVRQSKRPTGSNATITFTNHVNAWKSHGMNLGSNWAYQVMATEGYQSSGSSNVTV
W

2O3B

>2O3B:A

GSISVHLLLGNPSGATPTKLTDPDNYLMVKNQYALSYNNSKGTANWVAVQLNSSWLGNNAERQD
NFRPKTLTPAGWVRVTPSMYSGSGYARGHIAPSADRTKTEDNAATFLMTNMMMPQTPDNRRN
TWGNLEDYCRELVSQGKELYIVAGPNGSLGKPLKGVTVPKSTWKIVVVLDSPGSGLEGITAN
TRVIAVNIPNDPELNNDWRAYKVSVDELESLTGDFLSNVSPNIQTSIESKVDN

>2O3B:B

GSTKTNSEILEQLKQASDGLLFMSESEYPFEVFLWEGSAPPVTHEIVLQQTGHGQDAPFKVVDI
DSFFSRATTPQDWYEDENAVVAKFQKLEVIKSNLKNPQVYRLGEVELDVYVIGETPAGNLA
GISTKVVET

2OUL

>2OUL:A

QMNYEEVIKKYRGEENFDHAAYDWRLHSGVTPVKDQKNCGSCWAFSSIGSVESQYAIRKNKL
ITLSEQELVDCSFKNYGCNGGLINNAFEDMIELGGICPDGDYPYVSDAPNLCNIDRCKTEKYGIK
NYLSVPDNKLKEALRFLGPISISVAVSDDFAFYKEGIFDGECDQLNHAVMLVGFGMKEIVNPL
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>2OUL:B

MSHKVTKAHNGATLTVAVGELVEIQLPSNPTTGFAWYFEGGTKESPNESMFTVENKYFPPDSKL
LGAGGTEHFHVTVKAAGTHAVNLYMRPWTGPSHDSERFTVYLKAN

2SIC

>2SIC:E

AQSVPYGVSQIKAPALHSQGYTGSNVKVAVIDSGIDSSHPDLKVAGGASMVPSETNPFQDNNSH
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GPSGSAALKA AVDKAVASGVVVVAAAGNEGTS GSSTVGYPGKYPSVIAVGAVDSSNQRFASFS
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>2SIC:I

YAPSALVLTVGKGVSAATTAAPERAVTLTCAPGPSGTHPAAGSACADLA AVGGDLNALTRGEDV
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2UUY

>2UUY:A

IVGGYTCGANTVPYQVSLNSGYHFCCGSLINSQWVVSAAHICYKSGIQVRLGEDNINVVEGNE
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TSYPDVLKCLKAPILSDSSCKSAYPGQITSNMFCAGYLEGGKDSCQGDSSGPPVVCSSGKLGQIVS
WGSQCAQKNKPGVYTKVCNYVSWIKQTIASN

>2UUY:B

CTVPIGWSEPVKGLCKARFTRYCMGNCCKVYEGCYTGGYSRMGECARNCPA

1XG2

>1XG2:A

IIANAVVAQDGTGDYQTLAEAVAAAPDKSKTRYVIYVKRGTYKENVEVASNKMNLMI VGDGM
YATTITGSLNVVDGSTTFRSATLAAVGQGFILQDICIQNTAGPAKDQAVALRVGADMSVINRCRI
DAYQDTLYAHSQRQFYRDSYVTGTVDFFIGNAAVVFQKQQLVARKPGKYQQNMVTAQGRDTP

NQATGTSIQFCNIIASSDLEPVLKEFPTYLGRPWKEYSRTVVMESYLGGLINPAGWAEWDGDFALKTLYYGEFMNNGPGAGTSKRVKWPGYHVITDPAKAMPFTVAKLIQGGSWLRSTGVAYVDGLYD

>1XG2:B

FENHLISEICPKTRNPSLCLQALESDPRSASKDLKGLGQFSIDIAQASAKQTSKIIASLTNQATDPKLKGRYETCSENYADAIDSLGQAKQFLTSGDYNLSNIYASAAFDGAGTCEDSFEGPPNIPTQLHQADLKLEDLCDIVLVISNLLPGS

2VLQ

>2VLQ:A

MELKHSISDYTEAEFLQLVTTICNADTSSEEELVKLVTHFEEMTEHPSGSDLIYYPKEGDDDDSPSGIVNTVKQWRAANGKSGFKQG

>2VLQ:B

MESKRNKPGKATGKGKPVGDKWLD DAGKDSGAPIPDRIADKLRDKEFKSFDDFRKAVWEEVSKDPELSKNLNPSNKS SVSKGYSPATPKNQVGGGRKVYELHHDKPI SQGGEVYDMDNIRV TTPKRHIDIHRGK

1AVW

>1AVW:A

IVGGYTCAANSIPYQVSLNSGSHFCGGSLINSQWVVSAAHCYKSRIQVRLGEHNIDVLEGNEQFINAAKIITHPNFNNGTLDNDIMLIKLS SPATLNSRVATVSLPRSCAAAGTECLISGWGNTKSSGSSYPSLLQCLKAPVLS DSSCKSSYPGQITGNMICVGFLEGGKDSCQGDSSGGPVVCNGQLQGIVSWGYGCAQKNKPGVYTKVCNYVNW IQQTIAAN

>1AVW:B

DFVLDNEGNPLENGGTYIILSDITAFGGIRAAPTGNERCPLTVVQSRNELDKGIGTISSPYRIRFI AEGHPLSLKFDSFAVIMLCVGIPT EWSVVEDLPEGPAVKIGENKDAMDGWFR LERVSDDEFNNYKLVFCPQQAEDDKCGDIGISIDHDDGTRRLVVSKNKPLVVQFQKLD

1FSS

>1FSS:A

DDHSELLVNTKSGKVMGTRVPVLSSHISAF LGIPFAEPPVGNMRFRRPEPKKPWSGVWNASTYPNNCQQYVDEQFPGFSGSEMWNPNREMS EDCLYLNIWVPSRPKSTTVMVWIYGGGFYS GSSLTDVYNGKYLAYTEEVVLVLSLSYRVGAFGFLALHGSQEAPGNVGLLDQRMALQWVHDNIQFFGGDPKTVTIFGESAGGASVGMHILSPGSRDLFRRAILQSGSPNCPWASVSVAEGRRAVELGRNLNCNLNSDEELIHCLREKKPQELIDVEWNVLPFDSIFRFSFVVIDGEFFPTSLESMLNSGNFKKTQILLGVNKDEGSFFLLYGAPGFSKDSESKISREDFMSGVKLSVPHANDLGLDAVTLQYTDWMDNNGIKNRDGLDDIVGDHNVICPLMHFVNKYTKFGNGTYLYFFNHRASNLVWPEWMGVHGYEIEFVFG LPLVKELNYTAE EALSRRIMHYWATFAKTGNPNEPHSQESKWPLFTTKEQKFIDLNTEPMKVHQRLRVQMCVFWNQFLPKLLNATAC

>1FSS:B

TMCYSHTTTSRAILTNCGENSCYRKSRRHPPKMVLGRGCGCPPGDDNLEVKCCTSPDKCNY

1STF

>1STF:E

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>1STF:I

MMSGAPSATQPATAETQHIADQVRSQLEEKYNKKFPVFKAVSFKSQVVAGTNYFIKVHVGDED
FVHLRVFQSLPHENKPLTLSNYQTNKAKHDELTYF

1TMQ

>1TMQ:A

EKDANFASGRNSIVHLFEWKWNDIADECERFLQPQGGVQISPPNEYLVADGRPWWERYQP
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YGGDFHSPCEVNNYQDADNVRNCELVGLRDLNQGSDYVRGVLIDYMNHMIDLG VAGFRVD
AAKHMSPGDL SVIFSGLKNLNTDYGFADGARPFYQEVIDLGGEAISKNEYTGFGCVLEFQFGV
SLGNAFQGGNQLKNLANWGPEWGLLEGLDAVVFVDNHDNQRRTGGSQILTYKNPKPYKMAIA
FMLAHPYGTTRIMSSFDFTDNDQGPPQDGSGNLISPGINDNTCSNGYVCEHRWRQVYGMVG
FRNAVEGTQVENWWSNDDNQIAFSRGSQGFVAFTNGGDLNQLNTGLPAGTYCDVISGELSG
GSCTGKSVTVGDNGSADISLGS AEDDGV LAIHVNAKL

>1TMQ:B

SVGTSCIPGMAIPHNPLDSCRWYVSTRTCGVGPRLATQEMKARCCRQLEAIPAYCRCEAVRILM
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1UUG

>1UUG:A

MANELTWHDVLAEEKQQPYFLNLTQTVASERQSGVTIYPPQKDVFNFRFTELGDVKVVILGQ
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VRAGQAHSASLWETFTDKVISLINQHREGVVFLWGSASHAQQKGAIIDKQRHHVLKAPHSP
LSAHRGFFGCNHFVLANQWLEQRGETPIDWMPVLPASE

>1UUG:B

MTNLSDIIEKETGKQLVIQESILMLPEEVEEVIGNKPESDILVHTAYDESTDENVMLLTSDAPEYK
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4SGB

>4SGB:E

ISGGDAIYSSTGRCSLGFNVRSYSTYYFLTAGHCTDGATTWWANSARTTVLGTTSGSSFPNNDY
GIVRYTNTTIPKDGTVGGQDITSAANATVGMVTRRGSTTGTHSGSVTALNATVNYGGGDVV
YGMIRTNVCAEPGDSGGPLYSGTRAIGLTSGGSGNCSSGGTTFFQPVTEALVAYGVS VY

>4SGB:I

PICTNCCAGYKGCNYYSANGAFICEGQSDPKPKACPLNCDPHIAYS KCPR

1D6R

>1D6R:A

IVGGYTCGANTVPYQVSLNSGYHFCGGLINSQWVVSAAHICYKSGIQVRLGEDNINVVEGNE
QFISASKSIVHPSYNSNTLNNDIMLIKLSAASLNSRVASISLPTSCASAGTQCLISGWGNTKSSG
TSYPDVLKCLKAPILSDSSCKSAYPGQITSNMFCAGYLEGGKDSCQGDSSGPPVVCSSGKLQGIVS
WGSACAQKNKPGVYTKVCNYVSWIKQTIASN

>1D6R:I

KPCCDQCACTKSNPPQCRCSDMRLNSCHSACKSCICALSYPAQCFCVDITDFCYEPCK

1I4E

>1I4E:A

XCVIFPVEIDVSQTIIRDQCQVDKQTRRELVYINKIMNTQLTKPVLMMFNISGPIRSVTRKNNNLRD
RIKSKVDEQFDQLERDYSQMDGFHDSIKYFKDEHYSVSCQNGSVLKSFKAKILKSHDYTDKK
SIEAYEKYCLPKLVDERNYYVAVCVLKPFGFENGSNQVLSFEYNPIGNKVIVPFAHEINDTGLYE

YDVVAYVDSVQFDGEQFEEFVQSLILPSSFKNSEKVLYYNEASKNKSMIYKALEFTTESSWGKS
EKYNWKIFCNGFIYDKKSKVLYVKLHNVTALNKNVILNTIK

>1I4E:B

LDKVYQMKSKPRGYCLIINNHFAKAREKVPKLSIRDRNGTHLDAGALTTTFFELHFEIKPHH
DCTVEQIYEILKIYQLMDHSNMDCFICCILSHGDKGIYGTGQEAPIYELTSQFTGLKCPFLAG
KPKVFFIQACQGDNYQKGIPVETDSEEQPYLEMDLSSPQTRYIPDEADFLGMATVNNCVSYR
NPAEGTWYIQSLCQSLRERCPRGDDILTILTEVNYEVS NKDDKKNMGKQMPQPTFTLRKKLVF
PSD

1XT9

>1XT9:A

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AKQVAEKLEAFLGRKGDKLAFVEEKAPAQQNSYDCGMYVICNTEALCQNFFRQQTESLLQLL
TPAYITKKRGEWKDLITTLAKK

>1XT9:B

MLIKVKTLTGKEIEIDIEPTDKVERIKERVEEKEGIPPQQRLIYSGKQMNDEKTAADYKILGGS
VLHLVLALRGG

2R9P

>2R9P:A

IVGGYTCEENSLPYQVSLNSGSHFCGGSLISEQWVVSAAHCYKTRIQVRLGEHNIKVLEGNEQF
INAAKIIRHPKYNRDTLDNDIMLIKLSPPAVINARVSTISLPTAPPAAGTECLISGWGNTLSFGAD
YPDELKCLDAPVLTQAECKASYPGKITNSMFCVGFLEGGKDCQRDAGGPVVCNGQLQGVS
WGHGCAWKNRPGVYTKVYNYVDWIKDTIAANS

>2R9P:E

RPDFCLEPPYTGPCKARIIRYFYNAGLQCQTFVYGGCRAKRNNFKSAEDCMRTCGGA

2ZA4

>2ZA4:A

AQVINTFDGVADYLQTYHKLDPDNYITKSEAQALGWVASKGNLADVAPGKSIGGDIFSNREGKL
PGKSGRTWREADINYTSGFRNSDRILYSSDWLIYATTDHYQTFTKIR

>2ZA4:B

MKKAVINGEQIRSISDLHQTLKKELALPEYYGENLDALWAALTGWVEYPLVLEWRQFEQSKQL
TENGAESVLQVFREAKAEGADITHLS

3EIQ

>3EIQ:A

GPLGSPEFMSASQDSRSRDNGPDGMEPEGVIESNWNIEVDSFDDMNLSELLRGIYAYGF EKPS
AIQQRAILPCIKGYDVIAQAQSGTGKTATFAISILQQIELDLKATQALVLAAPTRELAQQIQKVVM
ALGDYMGASCHACIGGTNVRAEVQKLQMEAPHIIVGTPGRVFDMLNRRYLSPKYIKMFVLDE
ADEMLSRGFKDQIYDIFQKLSNNTQVVLLSATMPSDVLEVTKKFMRDPIRILVKKEELTLEGIR
QFYINVEREEWKLDLTCDLYETLTITQAVIFINTRRKVDWLTEKMHARDFTVSAMHGDMDQKE
RDVIMREFRSGSSRVLITDILLARGIDVQQVSLVINYDLPTNRENYIHRIGRGGFRGRKGVAINM
VTEEDKRTLRIETFYNTSIEEMPLNVADLI

>3EIQ:C

GPLGSPEFGKGVWGTGPGQVYDVEEVDVKDPNYDDDQENCVYETVVLPLDETA FEKTLTPIIQE
YFEHGD TNEVAEMLRDLNLGEMKSGVPVLAVSLALEGKASHREMTSKLLSDLCGTVMSTND
VEKSFDKLLKDLPELALDTPRAPQLVGGFIARAVGDGILCNTYIDSYKGTVDCVQARAALDKA

TVLLSMSKGGKRKDSVWGSGGGQQPVNHLVKEIDMLLKEYLLSGDISEAEHCLKELEVPHFH
HELVYEAIMVLESTGESAFKMILDLLKSLWKSSTITIDQMKGRIYNEIPDINLDVPHSYSV
LERFVEECFQAGIISKQLRDLCP SRGRKRFVSEGDGGRLKPESY

3MA2

>3MA2:A

YAIQGLKWQHNEITFCIQNYTPKVGEYATYEAIRKAFRVWESATPLRFREVVPYAYIREGHEKQA
DIMIFFAEGFHGDSTPFDGEGGFLAHAYFPGPNIGGDTHFDSAEPWTVRNE DLNNGNDIFLVA VH
ELGHALGLEHSSDPSAIMAPFYQWMDTENFVLPDDDRRGIQQLYGGESGFPTK

>3MA2:B

CTCAPVHPQTAF CNSDLVIRAKFVGTPEVNQTTLYQRYEIKMTKMYKGFQALGDAADIRFVYT
PAMESVCGYFHRSHNRSEEFLIAGKLDGLLHITLCSFVAPWNSLSLAQRRGFTKTYTVGCE

2XQR

>2XQR:A

NQPYRTGFHFQPPKNWMNDPNGPMIYKGIYHLYQWNPKGAVWGNIVWAHSTSTDLINWDP
HPPAIFPSAPFDINGCWSGSATILPNGKPVILYTGIDPKNQVQVQVQVQVQVQVQVQVQVQVQV
PLMAPDAVNGINASSFRDPTTAWLGQDKKWRVIIGSKIHRRGLAITYTSKDFLKWEKSPEPLHY
DDGSGMWECDFFPVTRFGSNGVETSSFGEPNEILKHVLKISLDDTKHDYTYTIGTYDRVKDKF
VPDNGFKMDGTAPRYDYGKYASKTFFDSAKNRRILWGWWTNESSSVEDDVEKGSWGIQTIPR
KIWLDRSGKQLIQWPVREVERLRTKQVKNLNRNKVLKSGSRLEVYGVTAQAQADVEVLFKVRDL
EKADVIEPSWTD PQLICKMNVSVKSGLGPFGLMVLASKNLEEYTSVYFRIFKARQNSNKYV V
LMCSDQSRSSLKEDNDKTTYGA FVDINPHQPLSLRALIDHSVVESEFGGKGRACITSRVYPKLAI
GKSSHLFAFNYGYSVDVLNLNAWSMNSAQIS

>2XQR:B

GANNLVETTCKNTPNYQLCLKTLLSDKRSATGDITTLALIMVDAIKAKANQA AVTISKLRHSNP
PAAWKGPLKNCAFSYKVILTASLPEAIEALTKGDPKFAEDGMVGS SSGDAQECEEFKGSKSPFS
ALNIAVHELSDVGRAIVRNLL

3K2M

>3K2M:A

SLEKHSWYHG PVS RNAAEYLLSSGINGSFLVRESESSPGQRSISLRYEGRVYHYRINTASDGKLY
VSSES RFNTLAELVHHHSTVADGLITTLHY PAPERKRNKPTVYGVSPNY

>3K2M:C

GSSVSSVPTKLEVVAATPTSLLISWDAPMSSSSVYYYRITYGETGGNSPVQEFTVPYSSSTATISG
LSPGV DYTITVYAWGEDSAGYMFMYSPISINYRTC

3RT0

>3RT0:A

SNHLVKGRSVYELDCIPLWGT VSIQGNRSEMEDAFVSPHFLKLPKMLMGDHEGMSPSLTHLT
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DGEIEGKIGRAVVGSSDKVLEAVASET VVGSTAVVALVCSHIVVSNCGDSRAVLF RGKEAMPLS
VDHKPDREDEYARIENAGGKVIQWQGARVFGV LAMSR SIGDRYLKPYVIPEPEVTFMPRSRED
ECLILASDGLWDVMNNQEVC EARRRILMWHKKN GAPPLAERGKGIDPACQAAADYLSMLAL
QKGSKDNISIIVIDLKAQRKFKTRT

>3RT0:C

MNGDETKKVESEYIKKHRRHELVE SQCSSTLVKHIKAPLHLVWSIVRRFDEPQKYKPFISRCVV
QGKKLEVGSVREVDLKSGLPATKSTE VLEILDDNEHILGIRIVGGDHR LKNYSSTISLHSETIDG
KTGTLAIESFVVDVPEGNTKEETCFFVEALIQSNLNSLADVTERLQAESMEKKI

3V4Y

>3V4Y:A

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RIYGFYDECKRRYNIKLWKTFTDCFNCLPIAAIVDEKIFCCHGGLSPDLQSMEQIRRMRPDVP
DQGLLCDLLWSDPKDVQGWGENDRGVSFTFGAEVVAKFLHKHDLDLICRAHQVVEDGYEF
FAKRQLVTLFSAPNYCGEFDNAGAMMSVDETLMCSFQILKPADKNKGKYG

>3V4Y:B

GAMEEETELDNLTEFNHTAHNKRISTLTIEEGNLDIQRPKRKRKNSRVTFSEDEIINPEDVD

1TM5

>1TM5:E

AQSVPYGVSQIKAPALHSQGYTGSNVKVAVIDSGIDSSHPDLKVAGGASMVPSETNPFQDNNSH
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GPSGSAALKA AVDKAVASGVVVVAAAGNEGTSGSSSTVGYPGKYPSVIAVGAVDSSNQRAF
SVGPELDVMAPGVSIQSTLPGNKYGAYNGTSMASPHVAGAAALILSKHPNWTNTQVRSSLENT
TTKLGDSFYYGKGLINVQAAAQH HHHHHH

>1TM5:I

MKTEWPELVGKSVEEAKKVILQDKPAAQIIVLPVGTIVTAEYRIDRVRLFVDRLDNIAQVPRVG

1UUZ

>1UUZ:A

EEQPRLFELLGQPGYKATWHAMFKGESDVPKWVSDASGPSSPSTLSLEGQPYVLANSCKPHD
CGNNRLLVAFRGDKSAAYGLQVSLPDEPAEVMQTPSKYATYRWYGEPSRQVRELLMKQLESD
PNWKLEHHHHHHH

>1UUZ:D

KVFGRCELAAAMKRHGLDNYRGYSLGNWVCAAKFESNFNTQATNRNTDGSTDYGILQINSR
WWCNDGRTPGSRNLCNIPCSALLSSDITASVNC AKKIVSDGNGMNAWVAWRNRCKGTDVQA
WIRGCRL

1SGP

>1SGP:E

ISGGDAIYSSTGRCSLGFNVRSGSTYYFLTAGHCTDGATTWWANSARTTVLGTTSGSSFPNNDY
GIVRYTNTTIPKDGTVGGQDITSAANATVGMVTRRGSTTGTHSGSVTALNATVNYGGGDVV
YGMIRTNVCAEPGDSGGPLYSGTRAIGLTSGGSGNCSGGTTFFQPVTEALVAYGVS VY

>1SGP:I

VDCSEYPKPACTAEYRPLCGSDNKTYGNKCNFCNAVVESNGTLTLSHFGKC

1E6E

>1E6E:A

STQEQTQICVVGSGPAGFYTAQHLLKHHSRAHVDIYEKQLVPPFGLVRFVGVAPDHPEVKNVINT
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VGWYNGLPENRELAPDLSCDTAVILGQGNVALDVARILLTPPDHLEKTDITEAALGALRQSRVK
TVWIVGRRGPLQVAFTIKELREMIQLPGTRPMLDPADFLGLQDRIKEAARPRKRLMELLRTAT
EKPGVEEAARRASASRAWGLRFFRSPQQVLPSPDGRRAAGIRLAVTRLEGIGEA TRAVPTGDVE
DLPCGLVLSSIGYKSRPIDPSVPFDPKLG VVPNMEGRVVDVPGLYCSGWVKRGPTGVITTTMTD
SFLTQILLQDLKAGHLPSGPRPGSAFIKALLDSRGVWPVVSFSDWEKLD AEEVSRGQASGKPRE
KLLDPQEMLRLLGH

>1E6E:B

GSSSEDKITVHFINRDGETLTTKKGKIGDSLDDVVVQNNLDIDGFGACEGTLACSTCHLIFEQHIFE
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1EWY

>1EWY:A

TQAKAKHADVPVNLVYRPNAPFIGKVISNEPLVKEGGIGIVQHIKFDLTGGNLKYIEGQSIGIIPPG
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KITGPVKGEMLLPDDPEANVIMLATGTGIAPMRTYLWRMFKDAERAANPEYQFKGFSWL VFG
VPTTPNILYKEELEEEIQQKYPDNFRLTYAISREQKNPQGGRMYIQDRVAEHADELWQLIKNQKT
HTYICGLRGMEEGIDAALSAAAKEGVTWSDYQKDLKKAGRWHVETY

>1EWY:C

ATFKVTLINAEGTKHEIEVPDDEYILDAAEEQGYDLPFSCRAGACSTCAGKLVSGTVDQSDQS
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1F6M

>1F6M:A

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KGRGV SASATCDGFFYRNQKVAVIGGGNTAVEEALYLSNIASEVHLIHRRDGFRAEKILIKRLM
DKVENGNILHTNRTLEEVTGDQMGVTVGRLRDTQNSDNIESLDVAGLFAIGHSPNTAIFEGQ
LELENGYIKVQSGIHGNATQTSIPGVFAAGDVM DHIYRQAITSAGTGCM AALDAERYLDGLAD
AK

>1F6M:C

SDKIIHLTDDSFDTDVLKADGAILVDFWAEWCGPSKMIAPILDEIADEYQGKLTVAKLNIDQNP
GTAPKYGIRGIPTLLL FKNGEVAATKVGALSKGQLKEFLDANLA

1GLA

>1GLA:F

GLFDKLSLVSDDKKDTGTIEIIAPLSGEIVNIEDVPDVFVFAEKIVGDGIAIKPTGNKMOVAPVDG
TIGKIFETNHAFSIESDSGVELFVHFGIDTVELKGEFGKRIAEEGQRVKVGDTVIEFDLPLLEEKA
KSTLTPVVISNMDEIKELIKLSGSVTVGETPVIRIKK

>1GLA:G

TEKKYIVALDQGTSSRAVMDHDANIISVSQREFEQIYPKPGWVEHDPMEI WATQSSTLVEVL
AKADISSDQIAAIGITNQRETTIVWEKETGKPIYNAI VWQCRRTAEICEHLKRDGLEDYIRSNTG
LVIDPYFSGTKVKWILDHVEGSRERARRGELLFGTVDTWLIWKMTQGRVHVTDYTNASRTML
FNIHTLDWDDKMLEVLDIPREMLPEVRRSSEVYGQTNIGGKGGTRIPISGIAGDQQAALFGQLC
VKEGMAKNTYGTGCFMLMNTGEKAVKSENGLLTTIACGPTGEVNYALEGAVFMAGASIQWL
RDEMKLINDAYDSEYFATKVQNTNGVYVVP AFTGLGAPYWDPYARGAIFGLTRGVNANHIIRA
TLESIA YQTRDVLEAMQADSGIRLHALRVDGGAVANNFLMQFQSDILGTRVERPEVREVTALG
AAYLAGLAVGFWQNLDELQEKAVIEREFRPGIETTERNYRYAGWKKAVKRAMAWEEHDE

1JWH

>1JWH:A

MSGPVPSRARVYTDVNTHRPREYWDYESHVVEWGNQDDYQLVRKLG RGKYSEVFEAINITN
NEKVVVKILKPKVKKKIKREIKILENLRGGPNITLADIVKDPVSRTPALVFEHVNTDFKQLYQ
TLTDYDIRFYMYEILKALDYCHSMGIMHRDVKPHNVMIDHEHRKRLRIDWGLAEFYHPGQEY
NVRVASRYFKGPELLVDYQMYDYSLDMWSLGCMLASMIFRKEPFFHGHNDYDQLVRIAKVLG

TEDLYDYIDKYNIELDPRFNDILGRHSRKRWERFVHSENQHLSPEALDFLDKLLRYDHQSRLT
AREAMEHPYFYTVVKDQARMGSS

>1JWH:C

MSSSEEVSWSWFCGLRGNEFFCEVDEDIYQDKFNLTGLNEQVPHYRQALDMILDLEPDEELE
DNPNQSDLIEQAAEMLYGLIHARYILTNRGIAQMLEKYQQGDFGYCPRVYCENQPMLPIGLSDI
PGEAMVKLYCPKCMDVYTPKSSRHHHTDGAYFGTGFPHMLFMVHPEYRPKRPNQFVPRLYG
FKIHPMAYQLQLQAASNFKSPVKTIR

1KKL

>1KKL:A

MRGSHHHHHHGS MYLDSQLAERRSMHGVLDIYGLGVLITGDSGVGKSETALELVQRGRHLI
ADDRVDVYQQDEQTIVGAAPPILSHLLEIRGLGIIDVMNLFAGAVREDDTTISLIVHLENWTPD
KTFDRLGSGEQTLIFDVPVKITVPVKVGRNLAIIIEVAAMNFRAKSMGYDATKTFEKNLNLH
IEHNEETDQNSSGDK

>1KKL:H

MRGSHHHHHHGSMAQKTFKVTADSGIHARPATVLVQTASKYDADV NLEYNGKTVNLKSIMG
VMSLGIAGAEITISASGADENDALNALEETMKSERLGE

1NW9

>1NW9:A

STNLPRNPSMADYEARIFTFGTWIYSVNKEQLARAGFYALGEGDKVKCFHCGGLTDWKPSE
DPWEQHAKWYPGCKYLLEQKQGEYINNIHLTHSLEE

>1NW9:B

GAESLRGNADLAYILSMEPCGHCLIINNVNFCRESGLRTRTGSNIDCEKLRRRFSSLHFMVEV
KGDLTAKKMVLALLELARQDHGALDCCVVVILSHGCCQASHLQFPGAVYGTGCPVSVEKIVN
IFNGTSCPSLGGKPKLFFIQACGGEQKDHGFEVASTSPEDESPGSNPEPDATPFQEGRLTFDQLD
AISSLPTPSDIFVSYSTFPGFVSWRDPKSGSWYVETLDDIFEQWAHSEDLQSLLLRVANAVSVKG
IYKQMPGCFNFLRKKLFFKTS

1R6Q

>1R6Q:A

MLNQELES LNMAFARAREHRHEFMTVEHLLLALLSNPSAREALEACSVDLVALRQELEAFIE
QTPVLPASEEERDTQPTLSFQRVLQRAVHVQSSGRNEVTGANVLVAIFSEQESQAAYLLRKH
EVSRLDVVNFISHGTR

>1R6Q:C

MGKTNDWLDFDQLAEEKVRDALKPPSMYKVLVND DYTPEFVIDVLQKFFSYDVERATQL
MLAVHYQGKAICGVFTA EVAETKVAMVNKYARENEHPLLCTLEKA

1US7

>1US7:A

MASETFEFQAEITQLMSLIINTVYSNKEIFLRELISNASDALDKIRYKSLSDPKQLETEPDLFIRIT
PKPEQKVLEIRDSGIGMTKAELINNLGTIAKSGTKAFMEALSAGADVSMIGQFGVGFYSLFLVA
DRVQVISKSNDDEQYIWESNAGGSFTVTLDEVNERIGRGTILRLFLKDDQLEYLEEKRIKEVIKR
HSEFVAYPIQLVVTKEVE

>1US7:B

MRGSHHHHHHGMAS MVNTKPEKTEEDSEE VREQKHKTFVEKYEKQIKHFGMLRRWDDSQK
YLSDNVHLVCEETANYLVIWCIDLEVEEKCALMEQVAHQ TIVMQFILELAKSLKVDPRACFRQ
FFTKIKTADRQYMEGFNDELEAFKERVGRAKLRIEKAMKEYEEEEERKKRLGPGGLDPVEVYE

SLPEELQKCFDVKDVQMLQDAISKMDPTDAKYHMQRCSGLWVPNSKASEAKEGEEAGPG
DPLLEAVPKTGDEKDVSV

1WDW

>1WDW:A

MFKDGSLIPYLTAGDPDKQSTLNFLALALDEYAGAIELGIPFSDPIADGKTIQESHYRALKNGFKL
REAFWIVKEFRHSSTPIVLMTYNPIYRAGVRNFLAEAKASGVDGILVVDLPVFAKEFTEIA
REEGIKTVFLAAPNTPDERLKVDDMTTGFVYLVSLYGTGAREEIPKTAYDLLRRRAKRICRNK
VAVGFGVSKREHVVSLLKEGANGVVVGSALVKIIGEKGREATEFLKKKVEELGI

>1WDW:B

MWFGFEGGQYVPETLIEPLKELEKAYKRFDDEEFNRQLNYLKTWAGRPTPLYAKRLTEKI
GGAKIYLRKREDLVHGGAHKTNNAIGQALLAKFMGKTRLIAETGAGQHGVATAMAGALLGMK
VDIYMGAEDVERQKMNVFRMCLLGANVIPVNSGSRTLKDAINEALRDWVATFEYTHYLIGSV
VGPHPYPTIVRDFQSVIGREAKAQILEAEGQLPDVIVACVGGGSNAMGIFYPVNDKKVKLVG
VEAGGKGLSESGKHSASLNAGQVGVFHGMLSYFLQDEEGQIKPHTSIAPGLDYPGVGPEHAYL
KKIQRAEYVTVTDEEALKAFHEL SRTEGIIPALES AHAVAYAMK LAKEMSRDEIIIVNLSGRGDK
DLDIVLKVS

1OGY

>1OGY:A

QPVTGGAEALRIRWSKAPCRFCGTGCGVMVGTDRDQVAVATHGDTQAEVNRGLNCVKGYFLS
KIMYGEDRLTTPLLRMKDG VYHKEGEFAPVSWDEAFDVMAAQAKLVLKEKAPEAVGMFGSG
QWTIWEGYAASKLMRAGFRSNNLDPNARHCMASAATAFMRTFGMDEPMGCYDDFEAADAF
VLWGSNMAEMHPILWSRLTDRRLSHEHVRVAVLSTFTHRSSDLSDTPIIFRPGTDRAILNYIAHH
IISTGRVNRDFVDRHTNFALGATDIGYGLRPEHQLQLAAKGAADAGAMTPTDFETFAALVSEY
TLEKAAEISGVEPALLEELAELYADPDRKWM SLWTMGFNQHV RGVWANHMVYNLHLLTGKIS
EPGNSPFSLTGQPACGTAREVGTFAHRLPADMVVTNPEHRAHAEEIWKLPAGLLPDWVGAHA
VEQDRKLDGEINFYVWQVNNNMQAAPNIDQETYPGYRNPENFIVVSDAYPTVTGRAADLVL
PAAMWVEKEGAYGNAERRTHFWHLVEAPGEARSDLWQLMEFSKRFTTDEVWPEEILSAAPA
YRGKTLFEVLEFANGSVDRFPASDVNPDHANHEAALFGFYPQKGLFEEYAAFGRGHGHDLPF
DTYHEVRGLHWPVVEGEETRWRVYREGFDPYVKPGEGLRFYGKPDGRAVILGVPEPPAESPDE
EFGFWLVTGRVLEHWHSGSMTLRWPELYKAFPGAVCFMHPEDARSRLNRGSEVRVISRRGEI
RTRLETRGRNRMPRGVVFVPWFDASQLINKVTL DANDPISRQTDFKKCAVKIEAV

>1OGY:B

QDAPRLTGADRPMSEVAAPPLPETITDDRRVGRNYPEQPPVIPHSIEGYQLSVNANRCLECHRR
QYSGLVAAAPMISITHFQDREGQMLADVSPRRYFCTACHVPQTNAQPLVTNEFRDMLTLPASN
EAE

1UAD

>1UAD:A

QNSLALHKVIMVGGSGVGKSALTQFM YDEFVEDYEPTKADSYRKKVVL DGEEVQIDILDTA
GQEDYAAIRDNYFRSGEGFLCVFSITEMESFAATADFREQILRVKEDENVPFLLVGNKSDLEDK
RQVSVEEAKNRAEQWNVNYVETS AKTRANVDKVFDFLMREIRARKMEDS

>1UAD:C

MSRSRQPPLVTGISPNEGIPWTKVTIRGENLGTGPTDLIGLTICGHNCLLTAEWMSASKIVCRVG
QAKNDKGDIIVTTKSGGRGTSTVSFKLLKPEKIG

1VYH

>1VYH:A

MSQGDSNPAAIPHAAEDIQGDDRWMSQHNRVLDCKDKEPDVLFVGDMSMVQLMQQYEIWRE
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NTRQPQAKIIVLGLLPRGEKPNPLRQKNAKVNQLLKVSLPKLANVQLLDTDGGFVHSDGAISC
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>1VYH:C

MVLSQRQRDELNRAIADYLRNNGYEEAYSVFKKEAELDMNEELDKKYAGLLEKKWTSVIRLQ
KKVMELESKLNEAKEEFTSGGPLGQKRDPKEWIPRPPEKYALSGHRSPVTRVIFHPVFSVMVSA
SEDATIKVWDYETGDFERTLKGHTDSVQDISFDHSGKLLASCSADMTIKLWDFQGFECIRTMH
GHDHNVSSVSIMPNGDHIVSASRDKTIKMWEVQTGYCVKTFTGHREWVRMVRPNQDGTLIAS
CSNDQTVRVVWVATKECKAELREHRHVVECISWAPESSYSSISEATGSETKKSGKPGPFLLSGS
RDKTIKMWDVSTGMCLMTLVGHDNWVRGVLFHSGGKFILSCADDKTLRVWDYKNKRCMKT
LNAHEHFVTSLDFHKTAPYVVTGSVDQTVKVVWECR

1X75

>1X75:A

TRRTIFELRKARDRAHILEALAVLANIDPIELIRHAPTPAEAKTALVANPWQLGNVAAMLERA
GDDAARPEWLEPEFGVRDGLYYLTEQQAQAILDLRLQKLTGLEHEKLLDEYKELLDQIAELLRI
LGS

>1X75:C

MQFKVYTYKRESRYRLFVDVQSDIIDTPGRRMVIPLASARLLSDKVSRELYPVVHIGDESWRM
MTTDMASVPVSVIGEEVADLSHRENDIKNAINLMFWGI

2BP7

>2BP7:A

MNEYAPLRLHVPEPTGRPGCQTDFSYLRLNDAGQARKPPVDVDAADTADLSYSLVRVLDEQG
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RTDMCFPTYRQQSILMARDVSLVEMICQLLSNERDPLKGRQLPIMYSVREAGFFTISGNLATQF
VQAVGWAMASAIKGDTKIASAWIGDGATAESDFHTALTFAHVYRAPVILNVVNNQWAISTFQA
IAGGESTTFAGRGVCGIASLRVDGNDFAVYAASRWAAERARRGLGPSLIEWVTYRAGPHST
SDDPSKYRPADDWSHFPLGDPIARLKQHLLIKIGHWSEEEHQATTAEFEAAVIAAQKEAEQYGT
ANGHIPSAASMFEDVYKEMPDHLRRQRQELGV

>2BP7:B

MATTTMTMIQALRSAMDVMLERDDNVVVYGGQDVGYFGGVFRCTEGLQTKYGKSRVFDAPIS
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YGGQTHSQSPEAMFTQVCGLRTVMPSNPYDAKGLLIASIECDDPVIFLEPKRLYNGPFDGHHD
RPVTPWSKHPHSAVDPGYTYTVPLDKAAITRPGNDVSVLTYGTTVYVAQVAEEESGVDAEVIDL
RSLWPLDLDTIVESVKKTGRCVVVHEATRTRCGFGAELVSLVQEHCFHHLEAPIERVGTGWDTPYP
HAQEWAYFPGPSRVGAALKKVMEV

1VRC

>1VRC:A

MTIAIVIGTHGWAAEQLLKTAEMLLGEQENVGWIDFVPGENAETLIEKYNAQLAKLDTTKGVL
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KALKAKPFAG

>1VRC:C

MFQQEVTITAPNGLHTRPAAQFVKEAKGFTSEITVTSNGKSASAKSLFKLQTLGLTQGTVVTTIS
AEGEDEQKAVEHLVKLMAELE

1YX5

>1YX5:A

MGHHHHHHHHHHSSGHIEGRHMLGLGASDFEFGVDPSADPELALALRVSMEEQRQRQEEEA
RRAAAASAAEAGIATTGTEDSDDALLKMTISQQEFGRTGLPDLSSMTEEEQIAYAMQMSLQGA
EFGQAESA

>1YX5:B

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQLIFAGKQLEDGRTLSDYNIQKEST
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1UL1

>1UL1:A

MFEARLVQGSILKKVLEALKDLINACWDISSGVNLQSMDSHVSLVQLTLRSEGFDTYRCRDR
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GIPEQEYSCVVKMPSGEFARICRDL SHIGDAVVISCAKDGVKFSASGELGNNGNIKLSQTSNVDK
EEEAVTIEMNEPVQLTFALRYLNFFTKATPLSSTVTLSMSADVPLVVEYKIADMGHLKYYLAPK
IEDEEGS

>1UL1:X

GIQGLAKLIADVAPSAIRENDIKSYFGRKVAIDASMSIYQFLIAVRQGGDVLQNEEGETTSHLMG
MFYRTIRMMENGIKPVYVFDGKPPQLKSGELAKRSERRAEAEKQLQQAQAAGAEQEVEKFTK
RLVKVTKQHNDCKHLLSLMGIPYLDAPSEAEASCAALVKAGKVYAAATEDMDCLTFGSPVL
MRHLTASEAKKLPQEFHLSRILQELGLNQEQFVLDLCILLGSDYCESIRGIGPKRAVDLIQKHKSI
EEIVRRLLDPNKYPVPENWLHKEAHQLFLEPEVLDPEVELKWSEPNEEELIKFMCGEKQFSEER
IRSGVKRLSKSRQGSTQGRLLDFFKVTGSLSSAKRKEPEPKGSTKKKAKTGAAGKFKRGK

1WVE

>1WVE:A

SEQNNAVLPKGVVTQGEFNKAVQKFRALLGDDNVLVESDQLVPYINKIMMPVENAAHAPSAAVT
ATTVEQVQG VVKICNEHKIPIWTISTGRNFGYGSAAAPVQRGQVILD LKKMNKIIKIDPEMCYAL
VEPGVTFGQMYDYIQENNLPMVLSFSAPSIAIGPVGNTMDRGGVGYTPYGEHFMMQCGMEVV
LANGDVYRTGMGGVPGSNTWQIFKWGYGPTLDGMFTQANYGICTKMGFWLMPKPPVFKPFE
VIFEDEADIVEIVDALRPLRMSNTIPNSVVIASSTLWEAGSAHLTRAQYTTEPGHTPDSVIKQMOK
DTGMGAWNLYAALYGTQEQVDVNWKIVTDVFKLKGKGRIVTQEEAGDTQPFKYRAQLMSG
VSNLQEFGLYNWRGGGSMWFAPVSEARGSECKQAAMAKRVLHXYGLDYVAEFIVAPRDM
HHVIDVLYDRTNPEETKRADACFNELLDEFEKEGYAVYRVNTRFQDRVAQSYGPVKRKLHAI
KRAVDPNNILAPGRSGIDLNNDF

>1WVE:C

DSQWGSKNLYDKVCGHCHKPEVGVGPVLEGRGLPEAYIKDIVRNGFRAMPAPFASYVDDES
LTQVAEYLSSLPAPAAQP

2F5Z

>2F5Z:A

ADQPIDADVTVIGSGPGGYVAAIKAAQLGFKTVCIKNETLGGTCLNVGCIPSKALLNNSHYY
HMAHGTDFA SRGIEMSEVRLNLDKMMEQKSTAVKALTGGIAHLFKQNKVVHVNGY GKITGK
NQVTATKADGGTQVIDTKNILIATGSEVTPFPGITIDEDTIVSSTGALS LKKVPEKMMVVIGAGVIG
VELGSVWQRLGADVTA VEFLGHVGGV GIDMEISKNFQRILQKQGFKFLN TKVTGATK KSDG
KIDVSIEAASGGKAEVITCDVLLVCIGRRPFTKNL GLEELGIELDPRGRIPVNTRFQTKIPNIYAIG
DVVAGPMLAHKA EDEGIICVEGMAGGAVHIDYNCVPSVIYTHPEVAWVGKSEEQLKEEGIEYK
VGKFPFAANSRAKTNADTDGMVKILGQKSTDRVLGAHILGPGAGEMVNEAALALEYGASCED
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>2F5Z:K

GEHIPGTLRFRLSPAARNILEKHSLDASQGTATGPRGIFTKEDALKLVQLKQTKILEHHHHHH

2F9Z

>2F9Z:A

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KIDTLPPQLVIDMISAIFAEASIEELEDNSEDAQIVFVETLLKVEEEEEPLTSYMMMIPKPGYLVKIF
ERMGIQE

>2F9Z:C

AHMKKVIGIGEYAVMKNPGVIVTLGLGSCVAVCMRDPVAKVGMAMAHVMLPDSGGKTDKPGK
YADTAVKTLVEELKKMGAKVERLEAKIAGGASMFESKGMNIGARNVEAVKKHLKDFGIKLLA
EDTGGNRARSVEYNIETGKLLVRKVGGGEQLEIKEI

1YRT

>1YRT:A

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GLVTGMADGVVASNHAGYEQFEFRVKETS DGRYAVQYRRKGGDDFEAVKVIGNAAGIPLTADI
DMFAIMPHLSNFRDSARSSVTSGDSVTDYLARTRRAASEATGGLDRERIDLLWKIARAGARSA
VGTEARRQFRYDGMNIGVITDFELEVRNALNRRHAVGAQDVVQHGTEQNNPFPEADEKIF
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>1YRT:B

KMKD TDSEEEIREFRVFDKDGNGYISAAELRHVMTNLGEKLTDEEVDEMIREADIDGDGQV
NYEEFVQMMTAK

2G45

>2G45:A

KQEVQAWDGEVRQVSKHAFSLKQLDNPARIPPCGWKCSKCDMRENLWLNLT DGSILCGRRYF
DGSGGNNHAVEHYRETGYPLAVKLG TITPDGADVSYDEDDMVLDPSLAEHL SHFGIDMLKM
QKTDK

>2G45:B

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQRLIFAGKQLEDGRTLSDYNIQKEST
LHLVLRRLGG

2HD5

>2HD5:A

MNSKSAQGLAGLRNLGNTCFMNSILQCLSNTREL RDYCLQRLYMRDLHHGSNAHTALVEEFA
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PENLDHLPDDEKGRQMWRKYLEREDSRIGDLFVGQLKSSLTCTDCGYCSTVDFPFWDLSLPIA
KRGYPEVTLMDCMRLFTKEDVLDGDEKPTCCRCRGRKRCKFSIQRFKILVLHLKRFSESRI
RTSKLTTFVNFLRDLDLREFASENTNHAVYNLYAVSNHSGTTMGGHYTAYCRSPGTGEWHTF
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>2HD5:B

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQRLIFAGKQLEDGRTLSDYNIQKEST
LHLVLRRLGG

2FEW

>2FEW:A

MANLFLKGAENIFLGRKAATKEEAIRFAGEQLVKGGYVEPEYVQAMLDREKLTPTYLGESIAV
PQGTVEAKDRVLKTGVVFCQYPEGVRFGEEDDIARLVIGIAARNNEHIQVITSLTNALDDESVI
ERLAHTTSVDEVLELLAGRK

>2FEW:B

SHVRKIIVASDAGMGSSAMGAGVLRKKIQDAGLSQISVTNSAINNLPPDVLDLVITHRDLTERAM
RQVPQAQHISLTNFLDSGLYTSALTERLVAAQRHTENE

2ES4

>2ES4:A

ADTYAATRYPVILVHGLAGTDKFNVDYWYGIQSDLQSHGAKVYVANLSGFQSDDGPNGRG
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LKTDP TGLSSTVIAAFVNVFGTLVSSSHNTDQDALAALRTLTTAQTATYNRNFP SAGLGAPGSC
QTGAATETVGGSQHLLYSWGGTAIQPTSTVLGVTGATDTSTGTLDVANVTDPSTLALLATGAV
MINRASGQNDGLVSRCSLFGQVISTSYHWNHLDEINQLLGVRGANAEDPVAVIRTHVNRKLL
QGV

>2ES4:D

GHHHHHHHHHHSSGHIEGRHMPAAPSAPAGAVAGGPAAGVPAAASGAAEAAMPLPAALPGA
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GVWRRYRAYFDALAQLPGDGAVLGDKLDPAAMQLALDQRAALADRTLGEWAEPPFGDEQRR
QRHDLERIRIANDTTLSPEQKAARLAALDAQLTPDERAQAALHAQQDAVTKIADLQKAGATP
DQMRAQIAQTLGPEAAARAAMQMQDDEAWQTRYQAYAAERDRIAAQGLAPQDRDARIAQLR
QQTFTAPGEAIRAASLDRGAG

2IY1

>2IY1:A

EFPEITEEMEKEIKNVFRNGNQDEVLSEAFRLTITRKDIQTLNHLNWLNDEIINFYMNMLMERS
KEKGLPSVHAFNTFFFTKKTAGYQAVKRWTKKVDVFSVDILLVPIHLGVHWCLAVVDFRKK
NITYYDSMGGINNEACRILLQYLKQESIDKKRKEFDTNGWQLFSKKSQEIPQQMNGSDAGMFA
CKYADCITKDRPINFTQQHMPYFRKRMVWEILHRKLL

>2IY1:B

EYIKLKVIGQDSSEIHFVKMTHLKKLKESYCQRQGVPMNSLRFLFEGQRIADNHTPKELGM
EEEDVIEVYQEQTGGHSTVC

2JU0

>2JU0:A

MGAKTSKLSKDDLTCLKQSTYFDRREIQQWHKGFRLDCPSGQLAREDFVKIYKQFFPFGSPED
FANHLFTVFDKDNNGFIHFEEFITVLSTTSRGTLEEKLSWAFELYDLNHDGYITFDEMLTIVASV
YKMMGSMVTLNEDEATPEMRVKKIFKLMDKNEDGYITLDEFREGSKVDPSIIGALNLYDGLI

>2JU0:B

ASYGFQVARRVLNNLQTNLFNTSSGSDKNVKIHENVAPALVLSMIMS AIAF

2YVJ

>2YVJ:A

MSQEALKAPVVVLGAGLASVSFVAELRQAGYQGLITVVGDEAERPYPDRPPLSKDFMAHGDAE
KIRLDCKRAPEVEWLLGVTAQSFDPAHTVALSDGRTLPGTLVLAATGAAPRALPTLQGATMP
VHTLRTLEDARRIQAGLRPQSRLIIVGGGVIGLELAATARTAGVHVSLVETQPRLMSRAAPATL
ADVFARYHAAQGVDLRFERSVTGSDGVVLLDDGTRIAADMVVVGIGVLANDALARAAGLA
CDDGIFVDAYGRITCPDVYALGDVTRQRNPLSGRFERIETWSNAQNQGI AVARHLVDPTAPGY

AELPWYWSOQALRIQVAGLASGDEEIVRGEVSLDAPKFTLIELQKGRIVGATCVNNARDFAP
LRRLAVGAKPDRAALADPATDLRKLAAAVAA

>2YVJ:B

MTFTKACSVDEVPPGEALQVSHDAQKVAIFNVDGEFFATQDQCTHGEWSLSEGGYLDGDVVE
CSLHMGKFCVRTGKVKSPPPCEPLKVYPIRIEGRDVLVDFSRALHA

2V3B

>2V3B:A

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MAEPGAMAEQLNARILTHTRVTGIDPGHQRIWIGEEVRYRDLVLAWGAEPVIRVPVEGDAQDA
LYPINDLEDYARFRQAAAGKRRVLLGAGLIGCEFANDLSSGGYQLDVVAPCEQVMPGLLHPA
AAKAVQAGLEGLGVRFHLPVLAASLKKAGEGLEAHLSDGEVPCDLVVSAVGLRPRTELAFAA
GLAVNRGIVVDRSLRTSHANIYALGDCAEVDGLNLLYVMPLMACARALAQTLAGNPSQVAYG
PMPVTVKTPACPLVVSPPPRGMDGQWLVEGSGTDLKVLCRDTAGRVIGYALTGA AVNEKLAL
NKELPGLMA

>2V3B:B

MRKWQCVVCGFIYDEALGLPEEGIPAGTRWEDIPADWVCPDCGVGKIDFEMIEIA

2QHO

>2QHO:A

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQLIFAGKQLEDGRTLSDYNIQKEST
LHLVLRRLGG

>2QHO:B

GSIPASVIPEELISQAQVVLQGKSRSVIIRELQRTNLDVNLAVNNLLSRDDED

2PX9

>2PX9:A

TQRTFPGCTIRNTPSEPIHCIVWAKYLFNQLFGCEEDADQEVSPDRADPEAAWEPTAEARARAS
NEDGDIKRISTKEWAKSTGYDPVKLFTKLFKDDIRYLLTMDKLWRKRKPPVPLDWAQVQSQGE
ETNASDQQNEPQLGLKDQQVLDVKSARLFSKSIETLRVHLAEKGDGAELIWDKDDPSAMDF
VTSAANLRMHIFSMNMKSRFDIKSMAGN

>2PX9:B

MSGIALSRLAQRKAWRKDHPFGFVAVPTKNPDGTMNLMNWECAPGKKGTPWEGGLFKLR
MLFKDDYPSSPPKCKFEPPLFHPNVYPSGTVCLSILEEDKDWRPATIKQILLGIQELLNEPNIQD
PAQAEAYTIYCQNRVEYEKRVRAQAKKFAPS

1VSQ

>1VSQ:A

TIAIVIGTHGWAAEQLLKTAEMLLGEQENVGWIDFVPGENAETLIEKYNAQLAKLDTTKGVLF
LVDTWGGSPFNAA SRIVVDKEHYEVIAGVNIPMLVETLMARDDDDPSFDELVALAVETGREGVK
ALKAKPV

>1VSQ:C

NDYMVIGLARIDDRLIHGQVATRWTKETNVSRIIVVSDEVAADTVRKTLLTQVAPPGVTAHVV
DVAKMIRVYNNPKYAGERVMLLFTNPTDVERLVEGGVKITSVNVGGMAFRQGKTQVNNASV
DEKDIEAFKKNLARGIELEVRKVSTDPKLMMDLISKIDK

3CRK

>3CRK:A

MRWFRALLKNASLAGAPKYIEHFSKFSPSPLSMKQFLDFGSSNACEKTSFTFLRQELPVRLANI
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TMAQGVLEYKDTYGGDPVSNQNIQYFLDRFYLSRISIRMLINQHTLIFDGSTNPAHPKHIGSIDP
NCSVSDVVKDAYDMAKLLCDKYMASPDLEIQEVNATNATQPIHMVYVPSHLYHMLFELFKN
AMRATVESHESSLTLPPIKIMVALGEEDLSIKMSDRGGGVPLRKIERLFSYMYSTAPTPQPGTGG
TPLAGFGYGLPISRLYAKYFQGDQLQFSMEGFGTDAVIYLKALSTDSVERLPVYNKSAWRHYQ
TIQEAGDWCVPSTEPKNTSTYRVS

>3CRK:C

SYPPHMQVLLPALSPTMTMGTVQRWEKKVGEKLESEGDLLEIETDKATIGFEVQEEGYLAKIL
VPEGTRDVPLGTPLCIIVEKEADI

2WJV

>2WJV:A

TKDLPIHACSYCGIHDPACVVYCNSTSKKWFCNGRGTSGSHIVNHLVRAKCKEVTLHKDGPL
GETVLECYNCGCRNVFLGFIKADSVVLLCRQPCASQSSLDINWDSSQWQPLIQDRCFLS
WLKIPSEQEQLRARQITAQQINKLEELWKENPSATLEDLEKPGVDEEPQHVLRLRYEDAYQYQ
NIFGPLVKLEADYDKKLKESQTQDNITVRWDLGLNKKRIAYFTLPKTDSDMRLMQGDEICLRY
KGD LAPLWKGIGHVIKVPDNYGDEIAIELRSSVGAPVEVTHNFQVDFVWKSTSFDRMQSALKT
FAVDETSVSGYIYHKLLGHEVEDVVIKQQLPKRFTAQGLPDLNHSQVYAVKTVLQRPLSLIQGPP
GTGKTVTSATIVYHLARQGNPVLVCAPSNIQAVDQLTEKIHQTGLKVVRLCAKSREAIIDSPVSF
LALHNQIRNMDSMPPELQKLQQLKDETGEISSADEKRYRALKRTAERELLMNADVICCTCVGA
GDPRLAKMQFRSILIDESTQATEPECMVPVVLGAKQLILVGDHCQLGPVVMCKKAAKAGLSQS
L FERLVVLGIRPIRLQVQYRMHPALSAPSNIFYEGSLQNGVTAADRVKKGDFDFQWPQPKPMF
FYVTQGQEEIASSGTSYLNRTAANVEKITTLLKAGAKPDQIGIITPYEGQRSYLVQYMQFSG
SLHTKLYQEVEIASVDAFQGREKDFIILSCVRANEHQGIGFLNDPRRLNVALTRARYGVIIVGNP
KALSKQPLWNHLLNYYKEQKVLVEGPLNNLRESLMQFS

>2WJV:D

AMGVPCVEDEDFIQALDKMMLLENLQQRSGESVKVHQLDVAIPLHLKSQLRKGPPGGEGEA
ESADTMPFVMLTRKGNKQQFKILNVPMSQLAANH

2WEL

>2WEL:A

SMTDEYQLFEELGKGAFSVVRRCKIPTGQEYAAKIINTKKLSARDHQKLEREARICRLLKHP
NIVRLHDSISEEGFHVYLVFDLVTGGELFEDIVAREYYSEADASHCIQQILESVDNHCHLNGIVHRD
LKPENLLLASKSKGA AVKLADFGLAIEVQGDQQA WFGFAGTPGYLSPEVLRKDPYGKPVDMW
ACGVILYILLVGYPPFWDEDQHRLYQQIKAGAYDFPSPEWDTVTPEAKDLINKMLTINPAKRITA
SEALKHPWICQRSTVASMMHRQETVDCLKKFNARRKLKGAILTTMLATRNFSAAKSLLKKPD
GVKESTESSN

>2WEL:D

SMADQLTEEQIAEFKEAFSLFDKDGDTITTKELGTVMRS LGQNPTEAELQDMINEVDADGNG
TIDFPEFLTMMARKMKD TDSEEEIREAFRVFDKDGNGYISAAELRHVMTNLGEKLTDEEVDEM
IREADIDGDGQVNYEEFVQMMTAK

3HCT

>3HCT:A

MEEIQGYDVEFDPPLESKYECPICLMALREAVQTPCGHRFCKACIIKSIRDAGHKCPVDNEILLE
NQLFPDNFAKREILSLMVKCPNEGCLHKMELRHLEDHQAHCEFALLEHHHHHH

>3HCT:B

GSHMAGLPRRIKETQRLLAEPVPGIKAEPDESNARYFHVVIAGPQDSPFEGGTFKLELFLPEEY
PMAAPKVRFMTKIYHPNVDKLGRIKLDILKDKWSPALQIRTVLLSIQALLSAPNPDDPLANDVA
EQWKTNEAQAIETARAWTRLYAMNNI

3IDB

>3IDB:A

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GEMFSLRRIGRFSEPHARFYAAQIVLTFEYLHSLDLIYRDLKPENLLIDQQGYIQVTDGFAKR
VKGRTWTLCGTPEYLAPEIILSKGYNKAVDWWALGVLIYEMAAGYPPFFADQPIQIYEKIVSGK
VRFPSHFSSDLKDLLRNLLQVDLTKRFGNLKNGVNDIKNHKWFATTDWIAIYQRKVEAPFIPKF
KGP GDTSNFDDYEEEEIRVSINEKCGKEFTEF

>3IDB:B

TRRASVCAEAYNPDEEEDDAESRIIHPKTDDQRNRLQEACKDILLFKNLDPEQMSQVLDAMFE
KLVKEGEHVIDQGDDGDNFYVIDRGTFDIYVKCDGVGRCVGNYNDRGSFGELALMYNTPRAA
TITATSPGALWGLDRVTFRRIIVKNNAKKRKMYESF

2W19

>2W19:A

MHHHHHSSGMNWTVDIPIDQLPSLPPLPTDLRTRRLDAALAKPAAQQPTWPADQALAMRTVL
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GASMPVVKVARIAGQYAKPRADIDALGLRSYRGDMINGFAPDAAAREHDP SRLVRAYANAS
AAMNLVRALTSSGLASLHLVHDWNREFVRTSPAGARYEALATEIDRGLRFMSACGVADRNLQT
AEIYASHEALVLDYERAMLRLSDGDDGEPQLFDLSAHTVWIGERTRQIDGAHIAFAQVIANPVG
VKLGPNMTPELAVEYVERLDPHNKPGRLTLVSRMGNHKVRDLLPPIVEKVQATGHQVIWQCD
PMHGNTHESTGFKTRHFDRIVDEVQGF FEVHRALGTHPGGIHVEITGENVTECLGGAQDISET
DLAGRYETACDPRLNTQQSLELAFLVAEMLRD

>2W19:C

MNLEMLESQPVPEIDTLREEIDRLDAEILALVKRRAEVSKAIGKARMASGGTRLVHSREMKVIE
RYSELGPDGKDLAAILLRLGRGRLGH

3FHC

>3FHC:A

MGDEMAMIPEREMKDFQFRALKKVRIFDSPEELPKERSLLAVSNKYGLVFAGGASGLQIFPT
KNLLIQNKPGDDPNKIVDKVQGLLVPMKFPPIHLLALSCDNLTLSACMMSSEYGSIIAFFDVRTFS
NEAKQKRPFA YHKLLKDAGGMVIDMKWNPTVPSMVA VCLADGSI AVLQVTETVKVCATLPS
TVAVTSVCWSPKGKQLAVGKQNGTVVQYLPTLQEKKVIPCPPFYESDHPVRVLDVLWIGTYVF
AIVYAAADGTLETSPDVVMALLPKKEEKHPEIFVNFMEPCYGSCTERQHYYLSYIEEWDLVL
AASAASTEVSILARQSDQINWESW LLEDSSRAELPVTDKSDDSLPMGVVDYTNQVEITISDEK
TLPPAPVLMMLSTDGVLC PFYMIN

>3FHC:B

SNLVDNTNQVEVLQRDPNSPLYSVKSFEELRLKPQLLQGVYAMGFNRPSKIQENALPLMLAEP
PQNLIAQSQSGTGKTA AFVLAMLSQVEPANKYPQCLCLSPTYELALQTGKVIEQMGKFYPELK
LAYAVRGNKLERGQKISEQIVIGTPGTVL DWCSKLFKIDPKKIKVFLDEADVM IATQGHQDQS
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3K75

>3K75:B

MPEIRLRHVVSCSSQDSTHCAENLLKADTYRKWRAAKAGEKTISVVLQLEKEEQIHSVDIGND
GSAFVEVLVGSSAGGAGEQDYEVLLVTSSFMSPSESRSGSNPNRVRMFGPKLVRAAAEKRW
DRVKIVCSQPYSKDSPFGLSFVRFHSPDKDEAEAPSQKVTVTKLGQFRVKEEDESANHHHHH
H

>3K75:D

MDDTSSSINFLTRVTGIGPSAARKLVDEGIKTLEDLRKNEDKLNHHQRIGLKYFEDFEKRIPREE
MLQMQDIVLNEVKKLDPEYIATVCGSFRRGAESSGDMVLLTHPNFTSESSKQPPLLHRVVEQ
LQKVRFITDTLSKGETKFMGVCQLPSENDENEYPHRRIDIRLIPKDQYYCGVLYFTGSDIFNKN
MRAHALEKGFINEYTIRPLGVTGVAGEPLPVDSEQDIFDYIQWRYREPKDRSEHHHHHH

3M63

>3M63:A

GSPEFRSMTAIEDILQITTPSDTRGYSLKSEEVPQGSTLGVDLIDTLLLYQLTENEKLDKPFEY
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NSYTDFLSQIIQRAILEGTALDLLNAVFPITLLEYCNKHVSHFDLNEVVIYNNVLTIFELFVTFKPIA
EIFTKIDGFFADYSCKPQDFERKTILGPILSLPIEA AVAIRNYGDNLLRSKQQTAMIHESLQAEH
KVVIDRLEFFIVDKLVRGSLNSRTDMISYFAHIANKNHLRRADHPPFKELSSNGFMSNITLLVRF
SQPFLDISYKKIDKIDANYFNNPSLFDLSGETRLNSDFKEADAFYDKNRKTADSKPNFISDCFFL
TLTYLHYGLGGTLSFEEKMGSEIKALKEEIEKVKKIAANHDVFAAFITAQLSKMEKALKTTESL
RFALQGFFAHRSLQLEVFDFICGASTFLIRVVDPEHEFPFKQIKLPLIPDQIGVENVDNADFLRAH
APVFPKYYPEFVVEGPNVNSLYISKYQTSPIFRNPRLGSFVEFTTMVLRCPPELVSNPHLKGKLVQ
LLSVGAMPLTDNSPGFMMDIFEHDELVNKNLLYALLDFYVIVEKTGSSSQFYDKFNSRYSISII
EELYKIPSYKNQLIWQSQNNADFFVRFVARMNDLTLFLLEGLSNLAEVHNIQNELDNRARG
APPTREEEDKELQTRLASASRQAKSSCGLADKSMKLFYISKDIPAAFVTPPEIVYRLASMLNYN
LESLVGPKCGELKVKDPQSYSFNPKDLLKALTTVYINLSEQSEFISAVAKDERSFNRLFVRAVD
ILGRKTGLASPEFIEKLLNFANKAEQKKADEEEDLEYGDVPDEFDPLMYTIMKDPVILPASK
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>3M63:B

MKHHHHHHHPMSDYDIPTTENLYFQGAMSLNIHIKSGQDKWEVNVAPESTVLQFKEAINKANGI
PVANQRLIYSGKILKDDQTVESYHIQDGHVHLVKSQP

3KYI

>3KYI:A

MGSDAFDEMDEIWALYADDGAQALDAMEASLLALQAGEDAAAHVGPLFRAVHTFKGNSRVL
GLSVVESRAHLCEDLIGLVRDAGVPMGEIVEILLFASDTLRAMLEETAASRADVEGTGSEAL
MDQLRSKIARCSRSHHHHHH

>3KYI:B

MRGSHHHHHHGGSPYNMIVDDAAMMRLYIASFIKTLPDFKVVAQAANGQEALDKLAAQPNV
DLILLNIEMPVMDGMEFLRHAKLKTRAKICMLASVAVSGSPHAARARELGADGVVAKPSGTVS
HDLEEKTGGELARTMRTLMAA

2XDF

>2XDF:A

MISGILASPGIAFGKALLLKEDEVIDRKKISADQVDQEVERFLS GRAKASAQLETIKTKAGETF
GEEKEAIFEGHIMLLEDEELEQEIIALIKDKHMTADAAAHEVIEGQASALEELDDEYLKERAAD
VRDIGKRLLRNILGLKIIDL SAIQDEVILVAADLTPSETAQLNLKVKVLFITDAGGRTSHTSIMAR
SLELPAIVGTGSVTSQVKNDYLLDAVNNQVYVNPTNEVIDKMRAVQE QVASEKAELAKLKD
LPAILDGHQVEVCANIGTVRDVEGAERNGAEGVGLYRTEFLFMDRDALPTEEEQFAAYKAVA
EACGSQAVIVRTMDIGGDKELPYNMFPKEENPFLGWRAIRIAMDRREILRDQLRAILRASAFGK

LRIMFPMIISVEEVRLRKEIEIYKQELRDEGKAFDESIEIGVMVETPAAATIARHLAKEVDFFSI
GTNDLTQYTLAVDRGNDMISHLYQPMSPSVLNLIKQVIDASHAEGKWTGMC GELAGDERATL
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>2XDF:C
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2WVW
>2WVW:A
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IRSLRLEDIRFPVALVKTFQGPPIHQVERDLLNKYGRPMLGCTIKPKLGLSAKNYGRAVYECL
RGGLDFTKDDENINSQPFQRWRDRFLFVADAIHKSQAETGEIKGHYLNVTAPTCEEMMKRAEF
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>2WVW:I
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RMTQVSLSHPSPESEQQQFSDPDWDNLAS

3M9D
>3M9D:A
MGESERSEAFGIPRDSPLSSGDAAELEQLRREA AVLREQL ENAVGSHAPTRSARDI HQLEARIDS
LAARN SKL METL KEARQQLLALREEVDRLGQPPSGYGVLLATHDDDTVDVFTSGRKMRLTCS
PNIDAASLKKGQTVRLNEALTVEAGTFEAVGEISTLREILADGHRALVVGHADEERVVWLAD
PLIAEDLPDGLPEALNDDTRPRKLRPGD SLLVDTKAGYAFERIPLVPRGSAAALEHHHHHH
>3M9D:G
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VQKGGE

2KWU
>2KWU:A
GSPEFDSAEEKLPFPDIDPQVFYELPEEVQKELMAEWERAGAARPSAHR
>2KWU:B
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LHLVLRRLRG

3EGG
>3EGG:A
GHMGS LNLD SIIGRLLEVQGS RPKGKNVQLTENEIRGLCLKSREIFLSQPILLELEAPLKICGDIHG
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RIYGFYDECKRRYNIKLWKTFTDCFNCLPIAAIVDEKIFCCHGGLSPDLQSMEQIRRIMRPTDVP
DQGLLCDLLWSDPKDVQGWGENDRGVSFTFGAEVVAKFLHKHDL DICRAHQVVEDGYEF
FAKRQLVTLFSAPNYCGEFDNAGAMMSVDETL MCSFQILKPADKNKGKYGQFSGLNPGGRPIT
PPRNSAKAKK
>3EGG:C

GHMDEEDGEPPYEPESGCVEIPGLSEEDPAPSRKIHSTAPIQVFSTYSNEDYDRRNEDVDPMA
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3P71

>3P71:C

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VYGFYDECLRKYGNANVWKYFTDLFDYLPLTALVDGQIFCLHGGLSPSIDTLDHIRALDRLQE
VPHEGPMCDLLWSDPDDRGGWGISPRGAGYTFGQDISETFNHANGLTLVSRHAQLVMEGYNW
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>3P71:T

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TRKLHSIKCKPPLSSPILELHSEDTLQMDGHILDSKRYAVIGADLRDLSELEEKLKCCNMNTQLP
TLLIAECVLVYMTPEQSANLLKWAANSFERAMFINYEQVNMGDRFGQIMIENLRRRQCFLAG
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CWATKGGNELGLKEITY

3TAC

>3TAC:A

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VYSEAVASHYMRQILEALRYCHDNNIIHRDVKPHCVLLASKENSAPVKLGGFGVAIQLGESGLV
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>3TAC:B

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DARMLDHLTKKDLRVHLKMVDSFHRTSLQYGIMCLKRLNYDRKELERRREASQHEIKDVLV
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3O5T

>3O5T:A

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NGAAMRNLPVALATLGDDAAFERWTVQAHITHCNAMSDAATLTLGHMVRRLVLGGDVRDV
RDESNKLIAKHRQFKFQPYRGLATAYIVDTMQTMHYHFQTDVSESCVETVNQGGDADTTG
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>3O5T:B

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3REA

>3REA:A

GAMASSNTAATNADSAWLEAQEEEEVGFPVRPQVPLRPMTYKAALDISHFLKEKGGLEGLIWS
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>3REA:B

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3SJA

>3SJA:A

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GEITNKLGPMLNSFMGAGNVDISGKLNELKANVETIRQQFTDPDLTTFVCVCISEFLSLYETERL
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>3SJA:C

MNELSKKYLA KVKERHELKEFNNSISAQDNYAKWTKNNRKLDSL DKEINNLKDEIQSENHHH
HHH

2Y9M

>2Y9M:A

GAMADTCMSRIVKEYK VILKTLASDDPIANPYRGIIESLNPIDETDLSKWEAII SGPSDTPYENH
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>2Y9M:B

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LCN

3AON

>3AON:A

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GYLHSNAELDRSIDGFTQLLPKLLKLA EVEKTCQLMAEEIEKTRRRVNALEYMTIPQLEETIYYI
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>3AON:B

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YKGQLTPAILIPSHQGT LGIGLEEIQNSVEKAVGQNILSGPSSGENLYFQ

3RGF

>3RGF:A

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LPRGMVKSLLYQILDGIHYLHANWVLRDLK PANILVMGEGPERGRVKIADMGEFARLNFNSPLK
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QLDRIFNVMGFPADKDWEDIKKMPEHSTLMKDFRRNTYTNC SLIKYMEKHKVKPDSKAFHLL
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>3RGF:B

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KEFPYRMNHILECEFYLLELMDCCLIVYHPYRPLLQYVQDMGQEDMLLPLAWRIVNDTYRTD
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3OLM

>3OLM:A

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SHEMFNPFYCLFEYSAYDNYTIQINPNSGINPEHLNYFKFIGRVVGLGVFHRRFLDAFFVGALY
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NIEVTDGNKKEYVELYTQWRIVDRVQEQKAFMDGFNELIPEDLTVFDERELELLIGGIAEIDI
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>3OLM:D

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4DBG

>4DBG:A

GSHMQRVPLSVQLKPEVSPTQDIRLWVSVEDAQMHTVTIWLTVRPDMTVASLKDMVFLDYGF
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>4DBG:B

GPLGSRQDKMREEGLQLVSMIREGEAAGACPEEIFSALQYSGTEVPLQWLRSELPHYVLEMVAE
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2LVO

>2LVO:A

MQIFVKTTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQLIFAGKQLEDGRTLSDYNIQKEST
LHLVLRRLGG

>2LVO:C

SNSQLNAMAHIQEMFPQVPYHLVLQDLQLTRSVEITTDNILEGRIQVPFPT

4FZV

>4FZV:A

RYKKKWAATEPKFPAVRLALQNFDMTYSVQFGDLWPSIRVSLLEQKYGALVNNFAAWDHVS
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VMEYYLMDAASLLPVLALGLQPGDIVLDLCAAPGGKTLALLQTGCCRNLAANDLSPSRIARL
QKILHSYVPEEIRDGNQVRVTSWDGRKWGELEGDTYDRVLVDVPCTTDRHSLHEEENNIFKRS
RKKERQILPVLQVQLLAAGLLATKPGGHVVYSTCSLSHLQNEYVVQGAIELLANQYSIQVQVE
DLTHFRRVFMDFCFSSCQVGELVIPNLMANFGPMYFCKMRRLT

>4FZV:B

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXQQLLDIIEFILLGLNPEPVCVVLKKSPLLK
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2LOX

>2LOX:A

PSHSGAAIFEKVSIIAINEVDVSPAELTWRSTDGDKVHTVVLSTIDKLQATPASSEKMMMLRLIGK
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>2LOX:B

GSEILERESEKESNDENKDDDLEVLSEELFEDVPTKSQISKEAEDNDSRKY

4AFQ

>4AFQ:A

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RTGVLPKPGSDTLQEVKLRMLMDPQACSHFRDFDHNLQLCVGNPRKTKSAFKGDSGGPLLCAGV
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>4AFQ:C

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4ETW

>4ETW:A

MNNIWWQTKGQGNVHLVLLHGWGLNAEVWRCIDEELSSHFTLHLVDLPGFGRSRGFGALS
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LAGFQQQLSDDFQRTVERFLALQTMGTETARQDARALKKTVLALPMPEVDVLNGGLEILKTV
DLRQPLQNVSMPLRLYGYLDGLVPRKVVPMLDKLWPHSESYIFAKAAHAPFISHPAEFCHLLV
ALKQRVLEHHHHHH

>4ETW:B

STIEERVKKIIGEQLGVKQEEVTNNASFVEDLGADSLDTVELVMALEEEFDTEIPDEEAEKITTV
QAAIDYINGHQA

3TL8

>3TL8:A

RRKKPQDHFFDVPAAEDPEVHLGQLKRFSRLRELQVASDNFSNKNILGRGGFGKVYKGRADGT
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RERPESQPPLDWPKRQRIALGSARGLAYLHDHCDPKIHRDVKAAANILLDEEFEAVVGDVGLAK
LMDYKDTHVTTAVRGTIGHIAPEYLSTGKSSEKTDVFGYGVMLLELITGQRAFDLARLANDDD
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>3TL8:B

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4A49

>4A49:A

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CPFRCRCEIKGTEPIVVDPFD

>4A49:B

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EKYNRIAREWTQKYAM

3ZU7

>3ZU7:A

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SPFEHQTYCQRTLREIKILLRFRHENIIGINDIIRAPTIEQMKDVYIVQDLMETDLYKLLKTQHLS
NDHICYFLYQILRGLKYIHSANVLHRDLKPSNLLLNTTCDLKICDFGLARVADPDHDHTGFLTE
YVATRWRAPPEIMLNSKGYTKSIDIWSVGCILAEMLSNRPIFPKGHYLDQLNHILGILGSPSQED
LNCIINLKARNYLLSLPHKNKVPWNRLFPNADSKALDLLDKMLTFNPHKRIEVEQALAHPLYE
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>3ZU7:B

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DRGHLEIVEVLLKHGADVNAQDKFGKTAFDISIDNGNEDLAEILQKLN

4GN4

>4GN4:A

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WIRGCRL

>4GN4:B

AVYPPKTHWTAETPNLHGSEVVVAGWVAHLGDYGRVKIVKVS DREGGA AVPVYLERGKTPD
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4BPX

>4BPX:A

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SADICPKCWTLMTMAIRIIDRALKEDFGFKHRLWVYSGRRGVHCWVCDESVRKLS SAVRSGIV
EYLSLVKGGQDVKKKVHLSEKIHPFIRKSINIKKYFEEYALVNQDILENKESWDKILALVPETIH
DELQQSFQKSHNSLQRWEHLKVASRYQNNIKNDKYGPWLEWEIMLQYCFPRLDINVS KGIN
HLLKSPFSVHPKTGRISVPIDLQKVDQFDPFTVPTISFICRELD AISTNEEEKEENEAE SDVKHRT
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>4BPX:B

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EELRRWFIQQEMDLLRFRFSILPKDKIQDFLKDSQLQFEAISDEE KTLREQEIVASSPSLSGLKLG
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LQPLLNHL

3ZEU

>3ZEU:A

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QRDAQGVWQGEETEAVLKPERVGERLKQLSGEWATVGTGWSAWPDLA KECEGLTLHDGEVSL
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>3ZEU:B

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EFPFVALLVSGGHTQLISVTGIGQYELLGESIDDAAGEAFDKTAKLLGLDYPGGPMLSKMASQG
TAGRFVFP RPMTDRPGLDFSFSGLKTF AANTIRSNGGDEQTRADIARAFEDAVVD TLMICKRA

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4IYP

>4IYP:A

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>4IYP:C

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4IC7

>4IC7:A

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GEFKSVYVVLDMESDLHQIIHSSQPLTLEHVRYFLYQLLRGLKYMHSAQVIHRDLKPSNLLVN
ENCCLKIGDFGMARGLCTSPAHEQYFMTEYVATRWRAPPELMLSLHEYTQAIDLWSVGCIFGE
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RQALSLLGRMLRFEPSARISAAAALRHPFLAKYHDPDDEPDCAPPFDFAFDREALTRERIKEAIV
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>4IC7:B

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4H2W

>4H2W:A

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FDAGGDWTTSLSPADLVLSAACYPVYPIAASRGPLPKGGLRFDVAADCFRREPSKHLDRQLQSF
RMREYVCIGTPDDVSDFRERWMVRAQAIARDLGLTFRVDYASDPFFGRAGKMLANNQRDQQ
LKFELLIPLRSEEQPTACMSFNHREHFGTTWGIQDANGEPHTGCVAFGMDRLAVAMFHHTHG
TDL SAWPAKVRDILGLQPHVAAGAHGEGWR

>4H2W:C

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4GEH

>4GEH:A

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KKSVEVNFTESSLRMAADDVEEYMIERPEPEFQDLNEKARALKQILSKIPDEINDRVRFLQTIK
DIASAIKELLDTVNNVFKKYQYQNRRALEHQKKEFVKYSKSFSDLTKTYFKDGKAINVFVSAN
RLIHQTNLILQTFKTVA

>4GEH:B

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4C99

>4C99:A

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>4C99:B

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4KR0

>4KR0:A

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HKLAYVWNNDIYVKIEPNLPSYRITWTGKEDIYNGITDWVYEEEVFSAYSALWWSPNGTFLAY
AQFNDTEVPLIEYSFYSDSLQYPKTVRVPYPKAGAVNPTVKFFVNTDSLSSVTNATSIQITAP
ASMLIGDHYLCDVTWATQERISLQWLRRIQNYVMDICDYDESSGRWNCLVARQHIEMSTTG
WVGRFRPSEPHFTLDGNSFYKIIISNEEGYRHICYFQIDKKDCTFITKGTWEVIGIEALTSYLYYI
SNEYKGMPPGGRNLYKIQLSDYTKVTCLSCELNPERCQYYSVSFSKEAKYYQLRCSGPGLPLYT
LHSSVNDKGLRVLEDNSALDKMLQNVQMPKLDLDFILNETKFWYQMLPPHFDKSKKYPLLL
DVYAGPCSQKADTVFRLNWAYLASTENIIVASFDGRGSGYQGDKIMHAINRRLGTFEVEDQIE
AARQFSKMGFVDNKRIAIWGWYSYGGYVTSMVLGSGSGVFKCGIAVAPVSRWEYYDSVYTER
YMGLPTPEDNLDHYRNSTVMSRAENFKQVEYLLIHGTADDNVHFQQAQISKALVDVGVDFQ
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>4KR0:B

ADGIQEAAPSGSVVEQAEGVECDFSPLLSGTPPQVYNFKRLVFTNCNYNLTKLLSLFSVNDFTC
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KPLKYSYINKCSRLSDDRTEVPQLVNAVQYSPCVSIVPSTVWEDGDYRQKQLSPLEGGGWLV
ASGSTVAMTEQLQMGFGITVQYGTDTNSVCPKLEFANDTKIASQLGNCVEYHHHHHHH

3ZNZ

>3ZNZ:A

GPLSVAPEMDIMDYCKKEWRGNTQKATCMKMGYEEVSQKFTSIRRVRGDNYAALRATLFQA
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GLAEMRTAEARQIACDELFTNEAEEYSLYEAVKFLMLNRAIELYNDKEKKEVPFFSVLLFARD
TSNDPGQLLRNHLNQVGHTGGLEQVEMFLAYAVRHTIQVYRLSKYNTTEEFITVYPTDPPKDW
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>3ZNZ:B

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQLIFAGKQLEDGRTLSDYNIQKEST
LHLVLRRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQLIFAGKQLEDGRT
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4HRL

>4HRL:A

MRGSHHHHHHGSGLGKKLLEAARAGQDDEVRLMANGADVNAHDFYGITPLHLAANFGHLE
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GHLEIVEVLLKNGADVNAQDKFGKTPFDLAINGNEDIAEVLQKAAKLN

>4HRL:C

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LKGGVLIQRNPQLCYQDTILWKDIFHKNNQLALTLIDTDRSRACHPCSPMCKGSRWGSESSED
CQSLTRTVA

3W8I

>3W8I:A

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QTNLILQTFKTVALEHHHHHH

>3W8I:B

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KFQKCSADESP

2M86

>2M86:A

SGSGASKAPTSFAEYWNLLSAGGVCPKILQRCRRDSDCPGACICRGNGYCG

>2M86:B

GSSHHHHHHSSGLVPRGSHMSQIPASEQETLVRPKPLLLKLLKSVGAQKDTYTMKEVLFYLGQ
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EN

4I6L

>4I6L:A

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LVVYLRLLTSGYLQRESKFFEHFIEGGRTVKEFCQQEVEPMCKESDHIHIIALAQALS VSIQVEY
MDRGEGGTTNPHIFPEGSEPKVYLLYRPGHYDILYK

>4I6L:B

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ESFLYLVLRLR

4C9B

>4C9B:A

MATTATMATS GSARKRLLKEEDMTKVEFETSEEVDVTPFTDTMGLREDLLRGIYAYGF EKPSAI
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DYMNVQCHACIGGTNVGEDIRKLDYGQHV VAGTPGRVFD MIRRSLRTRAIKMLVLDEADEM
LNKGFKEQIYDVYRYLPPATQVVLISATLPHEILEMTNKFMTDP IRLVKRDEL TLEGIKQFFVAV
ERE EWKFDTLCDLYDTLITQAVIFCNTKRKVDWLTEKMREANFTVSSMHGDMPQKERESIMK
EFRSGASRVLISTDVWARGLDVPQVSLIINYDL PNNRELYIHRIGRSGRYGRKGVAINFVKND DI
RILRDIEQYYSTQIDEMPMNVADLI

>4C9B:B

KKKKDELDP LLTRTG GAYIPPAKL RMMQE QITDKNSLAYQRMSWEAL KKSINGLINKVNI SNIS
IIIQELLQENIVRGRGLLSR SVLQAQSASPIFTHVYAALVAIINSKFPQIGELILKRLILNFRKGYRR
NDKQLCLTASKFVAHLINQNAHEVLCLEMLTLLERPTDDSV EVAIGFLKECGLKLTQVSPRGI
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3V3K

>3V3K:A

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NGTSCPSLGGKPKLFFIQACGGEQKDHGFEVASTSPEDESPGSNPEPDATPFQEGLRFTDQLDAI
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KQMPGCFNFLRKKLFFKTS

>3V3K:B

TPESVSELNHNHFLSPELQDKLDVMVSIYSCARNNNELEEIFQELSAFVSGLMDKRNSVFEVRN
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4EUK

>4EUK:A

GSHMETS KPKILLVEDNKINIMVAKSMMKQLGHTMDIANNGVEAITAINSSSYDLVLM DVCM P
VLDGLKATRLIRSYEETGNWNA AIEAGVDISTSENEQVCMRPTNRLPIIAMTANTLAESSEECY
ANGMDSFISKPVTLQKLRECLQQYLH

>4EUK:B

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4BRW

>4BRW:A

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HKPYEINLMEELTLKGITQYYAFVEERQKLHCLNTLFSKLQINQAIIFCNSTNRVELLAKKITDL
GYSCYYSHARMKQQERNKVFHEFRQGVRTLVCSDLLTRGIDIQAVNVVINDFDPKTAETYLH
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>4BRW:B

GLENSGNARDGPLDFEESYKGYGEHELEENDYLNDETFGDNVQVGTDFDFGNPHSSGSSGNAI
GGNGVGATARSY

3VV2

>3VV2:A

GKPSWLGGGSTQPAQTIPWGIERVKAPSVWSITDGSVSVIQVAVLDTGVDYDHPDLAANIAWC
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IAIGIEQAILGPDGVADKDGDIAGDPDDDAAEVISM SLGGPADD SYLYDMIIQAYNAGIVIVA
ASGNEGAPSPSYPAAYPEVIAVGAIDSN DNIA SFSNRQPEVSAPGVDILSTYPDDSYETLMGTAM
ATPHVSGVVALIQAAYYQKYGKILPVGTFDDISKNTVRGILHITADDLGPTGWDADYGYGVVR
AALAVQAALG

>3VV2:B

GEQNTIRVIVSVDKAKFNPHEVLGIGGHIVYQFKLIPAVVVDVPANAVGK LKKMPGVEKVEFD
HQA VLP

4IHH

>4IHH:A

MGHHHHHHASIRLADLAQQLDAELHGDGDIVITGVASMQSAQTGHITFMVNPKYREHLGLCQ
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ANAVIESGVELGDNVIIGAGCFVVGKNSKIGAGSRLWANVTIYHEIQIQNCLIQSGTVVGADGF

GYANDRGNWVKIPQIGRVIIGDRVEIGACTTIDRGALDDTIIGNGVIIDNQCQIAHNVVIGDNTAV
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WRKTAALVMNIDDMSKRLKSLERKVNQQD

>4IHH:G

SHMSTIEERVKKIIGEQLGVKQEEVTNNASFVEDLGADSLDTVELVMALEEEFDTEIPDEEAEKI
TTVQAAIDYINGHQA

4BKX

>4BKX:A

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>4BKX:B

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LNKQQTDIAVNWAGGLHHAKKSEASGFCYVNDIVLAILLELLKYHQRVLYIDIDIHHGDGVEEA
FYTTDRVMTVSFHKYGEYFPGTGDLRDIGAGKGKYYAVNYPLRDGIDDESIEAIFKPVMSKV
MEMFQPSAVVLQCGSDSLSGDRLGCFNLTIKGHAKCVEFVKSFNLPMLMLGGGGYTIRNVAR
CWTYETAVALDTEIPNELPYNDYFEYFGPDFKLHISPSNMTNQNTNEYLEKIKQRLFENLRMLP
HAPGVQMQAIPEDAIPESGDEDEDDEDPDKRISICSSDKRIACEEFSSEEEGEGGRKNSSNFKK
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4DPG

>4DPG:A

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LSIIPYEITLLSPCLHMLPHLHFGLKDKETRYRQRYLDLILNDFVRQKFIIRSKIITYIRSFLDELGF
LEIETPMMNIIPGGAVAKPFITYHNELDMNLYMRIAPELYHKMLVVGIDRVYEIGRQFRNEGID
LTHNPEFTTCEFYMAYADYHDLMEITEKMVSGMVKHITGSYKVTYHPDGPEGQAYDVFDFTPP
FRRINMVEELEKALGMKLPETNLFETETRKILDDICVAKAVECPPPRTTARLLDKLVGEFLEVT
CINPTFICDHPQIMSPLAKWHRKSKEGLTERFELFVMKKEICNAYTELNDPMRQRQLFEEQAKAK
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>4DPG:I

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4LQW

>4LQW:A

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>4LQW:C

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1M9E

>1M9E:A

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>1M9E:D

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GEIYKRWIILGLNKIVRMYS

1A2K

>1A2K:A

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>1A2K:C

MAAQGEPQVQFKLVLVGDGGTGKTTFFVKRHLTGEFEKKYVATLGVEVHPLVFHTNRGPIKFN
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DIKDRKVKAKSIVFHRKKNLQYYDISAKSNYNFEKPFLWLARKLIGDPNLEFVAMPALAPPEV
VMDPALAAQYEHDLVAQTTALPDEDDDL

1E96

>1E96:A

PQAIKCVVVGDAVGKTCLLISYTTNAFPGEYIPTVFDNYSANVMVDGKPVNLGLWDTAGLE
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L

>1E96:B

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AFMYAKKEEWKKAEEQLALATSMKSEPRHSKIDKAMECVWKQKLYEPVVIPVVGKLFERNRQ
VAQLAKKDYLKAT

1GRN

>1GRN:A

MQTIKCVVVGDAVGKTCLLISYTTNKFPSEYVPTVFDNYAVTVMIGGEPYTLGLFDTAGQED
YDRLRPLSYPQTDVFLVCFVSPSSFENVKEKWWPEITHHCPKTPFLVGTQIDLRDDPSTIEK
LAKNKQKPITPETAEKLARDLKAVKYVECSALTQKGLKNVFEAILAALPEPPEPKSRRCVLL

>1GRN:B

LPNQQFGVSLQHLQEKNPQEPIPIVLRETVAYLQAHALTTEGIFRRSANTQVVREVQQKYNM
GLPVDFDQYNELHLPVILKTFLRELPEPLTFDLYPHVVGFLNIDESQRVPATLQVLQTLPEENY
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LFPSPDPSGL

1HE8

>1HE8:A

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RVCGRDEYLVGETPIKNFQWVRHCLKNGEEIHVVLDTPPDPALDEVRRKEEWPLADDCTGVTG
YHEQLTIHGKDHESVFTVSLWDCDRKFRVKIRGIDIPVLPNTDLTVFVEANIQHGGQVLCQRR
TSPKPFTEEVLWNVWLEFSIKIKDLPKGALLNLQIYCGKAPALSSKASAESPSSESKGKVRLLYY
VNLLIDHRFLLRRGEYVLMHWQISGKGEDQGSFNADKLTSAITNPDKENSMSISILLDNYCHPI

ALPKHQPTPDPEGDRVRAEMPQNLRKQLEAIIATDPLNPLTAEDKELLWHFRYESLKHPKAYPK
LFSSVKWGQQEIVAKTYQLLARREVWDQSALDVGLTMQLLDCNFSDENVRAIAVQKLESLED
DDVLHYLLQLVQAVKFEPYHDSALARFLLKRGLRNKRIGHFLFWFLRSEIAQSRHYQQRFAVIL
EAYLRGCGTAMLHDFTQQVQVIEMLQKVTLDIKSLSAEKYDVSSQVISQLKQKLENLQNSQLP
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LQILRIMESIWETESLDLCLLPYGCISTGDKIGMIEIVKDATTIAKIQQSTVGNTGAFKDEVLNH
WLKEKSPTEEFQA AVERFVYSCAGYCVATFVLGIGDRHNDNIMITETGNLFHIDFGHILGNYK
SFLGINKERVPFVLTDFLVMGTSGKKTSPHFQKQFQDICVKAYLALRHHTNLLIILFSMMLMT
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HSAHHHHHH

>1HE8:B

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1I2M

>1I2M:A

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VMDPALAAQYEHDLVAQTALPDEDDDL

>1I2M:B

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WGSFRDNGVIGLLEPMKKSMPVQVQLDVPVVKVASGNDHLVMLTADGDLYTLGCGEQQQ
LGRVPELFANRGGGRQGLERLLVPKCVMMLKSRGSRGHVRFQDAFCGAYFTFAISHEGHVYGFGL
SNYHQLGTPGTESCIPQNLTSFKNSTKSWVGFSGGQHHTVCMDSEGKAYSLGRAEYGRGLG
EGAEKSIPTLISRLPAVSSVACGASVGYAVTKDGRVFAWGMGTNYQLGTGQDEDAWSPVEM
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1I4D

>1I4D:A

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LSLGPRDAGTRGRLESAQATFQAHRDKYEKLRGDVAIKLKFFLEENKIKVMHKQLLLFHNAVSA
YFAGNQKQLEQTLQQFNIKLRPPGAEKPSWLEEQ

>1I4D:D

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KLKEKKLTPIYPQGLAMAKEIGAVKYLECSALTQRGLKTVFDEAIRAVLCPVPKRRKRKCLL
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1LFD

>1LFD:A

GDCCIIRVSLDVDNGNMYKSILVTSQDKAPTIVIRKAMDKHNLDEDEPEDYELLQIISEDHKLKI
PENANVFYAMNSAANYDFILKKR

>1LFD:B

MTEYKLVVVGAGGVGKSALTIQLIQNHFVVDKYDPTIEDSYRKQVVIDGETCLLDILDITAGQEE
YSAMRDQYMRTGEGFLCVFAINNTKSFEDIHQYREQIKRVKDSDDVPMVLVGNKCDLAARTV
ESRQAQDLARSYGIPYIETSAKTRQGVEDAFYTLVREIRQHK

1NVU

>1NVU:Q

MTEYKLVVVGAGGVGKSALTIQLIQNHFVDEYDPTIEDSYRKQVVIDGETCLLDILDITGGQEE
YSAMRDQYMRTGEGFLCVFAINNTKSFEDIHQYREQIKRVKDSDDVPMVLVGNKCDLAARTV
ESRQAQDLARSYGIPYIETSAKTRQGVEDAFYTLVREIRQH

>1NVU:S

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EHHFYDFERDAYLLQRMEEFIGTVRGKAMKKWVESITKIIQRKKIARDNGPGHNITFQSSPPTV
EWHISRPGHIETFDLLTLHPIEIARQLTLLLESPLYRAVQPSSELVGSVWTKEDKEINSPNLLKMIRH
TTNLTWFEEKCIVETENLEERVAVVSRIIEILQVFQELNNFNGVLEVVVSAMNSSPVYRLDHTFEQ
IPSRQKKILEEAHELSEDHYKKYLAKLRSINPPCVFFGIYLTNILKTEEGNPEVLKRHGKELINF
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1WQ1

>1WQ1:G

MEKIMPEEYSEFKELILQKELHVYALSHVCGQDRTLLASILLRIFLHEKLESLLLCTLNDREIS
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NLTHLLNILSELVEKIFMASEILPPTLRYIYGCLQKSVQHKWPTNTTMRTRVVSQFVFLRLICPAI
LNPRMFNIISDPSPIAARTLILVAKSVQNLANLVEFGAKEPYMEGVNPFIKSNKHRMIMFLDEL
GNVPELPDTTEHSRTDLSRDLAALHEICVAHSDELRTLSNERGAQQHVLLKLLAITELLQQKQN
QYTKTNDVR

>1WQ1:R

MTEYKLVVVGAGGVGKSALTIQLIQNHFVDEYDPTIEDSYRKQVVIDGETCLLDILDITAGQEEY
SAMRDQYMRTGEGFLCVFAINNTKSFEDIHQYREQIKRVKDSDDVPMVLVGNKCDLAARTVE
SRQAQDLARSYGIPYIETSAKTRQGVEDAFYTLVREIRQH

1Z0K

>1Z0K:A

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DREVTFLEASRFAQENELMFLETSALTGEDVEEAFVQCARKILNK

>1Z0K:B

GPLGSAEGWLPLSGGQGSSESDPLLQIHNITSFIRQAKAAGRMDDEVRTLQENLRQLQDEYD
QQQTEK

2FJU

>2FJU:A

MQAICVVGVDGAVGKTCLLISYTTNAFPGEYIPTVFDNYSANVMVDGKPVNLGLWDTAGQE
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KLKEKKLTPIYPQGLAMAKEIGAVKYLECSALTQRGLKTVFDEAIRAVLS

>2FJU:B

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RDTRFGKFAKMPKSQKL RDVFNMDFPDNSFLLKTLTVVSGPDMVDLTFHNFVSYKENVGKAW

AEDVLALVKHPLTANASRSTFLDKILVCLKMQLNSEGKIPVKNFFQMFPADRKRVEAALSACH
LPKGKNDAINPEDFPEPVYKSFLMSLCPRPEIDEIFTSYHAKAKPYMTKEHLTKFINQKQRDSRL
NSLLFPARPDPQVQGLIDKYEPSGINAQRGQLSPEGMVWFLCGPENSVLAQDKLLLHHDMTQP
LNHYFINSSHNTYLTAGQFSGLSSAEMYRQVLLSGCRCVELDCWKGKPPDEEPIITHGFTMTTD
IFFKEAIEAIAESAFKTSPIILSFENHVDSRQQAQMAEYCRTIFGDMLLLEPLEKFPLKPGVPL
PSPEDLRGKILIKNKNQFSGPTSSSKDTGGEAEGSSPPSAPAVWAGEEGTELEEEVEEEEEES
GNLDEEEIKKMQSDEGTAGLEVTAEEEMSSLVNYIQPTKFFVSEFSAQKNRSYVISSFTELKAY
DLLSKASVQFVDYNKRQMSRIYPKGTRMDSSNYMPQMFVNAGCQMVAlNFQTMDLPMQQN
MAVFEFNGQSGYLLKHEFMRRPDKQFNPFVDRIDVVATTLSITVISGQFLSERSVRTYVEVEL
FGLPGDPKRRYRTKLSPTNSINPVWKEEPPVFEKILMPELASLRVAVMEEGNKFLGHRIPINAL
NSGYHHLCLHSESNMPLTMPALFIFLEMKD

3CPH

>3CPH:A

MSGLRTVSASSNGKSYDSIMKILLIGDSGVGKSCLLVRFVEDKFNPSFITTIGIDFKIKTVDING
KKVKLQLWDTAGQERFRTITTAYRGMGIILVYDVTDERFTNIKQWFKTVNEHANDEAQLL
LVGNKSDMETRVVTADQGEALAKELGIPFIESSAKNDDNVNEIFFTLAKLIQEKIDSNKLVGVG
NGKEGNISINSGSGNSSKSN

>3CPH:G

MDQETIDTDYDVIVLGTGITECILSGLLSVDGKKVLHIDKQDHYGGEEASVTLSQLYEKFKQNP
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ANEIEAISSPLMGIFEKRRMKKFLWISSYKEDDLSTHQGLDLKNTMDEVYYKFGLGNSTKE
FIGHAMALWTNDDYLQQPARPSFERILLYCQSVARYGKSPYLYPMYGLGELPQGFARLSAIYGG
TYMLDTPIDEVLYKKTGKFEVKTGLGTFKAPLVIADPTYFPEKCKSTGQRVIRAICILNHPVP
NTSNADSLQIIPQSQLGRKSDIYVAIVSDAHNVCSKGHYLAISTIIETDKPHIELEPAFKLLGPIE
EKFMGIAELFEPREDGSKDNIYLSRSYDASSHFESMTDDVKDIYFRVTGHPLVLKQRQEKEKQ

2WWX

>2WWX:A

MNPEYDYLKLLLIGDSGVGKSCLLLRFADDTYTESYISTIGVDFKIRTIELDGKTIKLIQIWDTA
GQERFRTITSSYYRGAHGIIVVYDVTDQESFNNVKQWLQEIDRYASENVNKLKLVGKICDLTTKK
VVDYTTAKEFADSLGIPFLETSAKNATNVEQSFMTMAAEIKKRMGP

>2WWX:B

MPYSDAKAMLDEVAKIRELGVQRVTRIELENNAKKLWDNANSMLKGNISGYLKAANELHKF
MKEKNLKEDDLRPELSDKTISPKEYAILQSLWGAASDYSRAAATLTESTVEPGLVSAVNKMSAF
FMDCKLSPNERATPDPDFKVGKSKILVGIMQFIKDVADPTSKIWMHNTKALMNHKIAAIQKLE
RSNNVNDETLESVLSSKGENLSEYLSYK

3CX8

>3CX8:A

GEKTYVKRLVKILLGAGESGKSTFLKQMRIHGQDFDQRAREEFRPTIYSNVIKGMRLVLDAR
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RREFQLGESVKYFLDNLDKLGVPDYIPSQQDILLARRPTKGIHEYDFEIKNVPFKMVDVGGQRS
ERKRWFECFDSVTSILFLVSSSEFDQVLMEDRQTNRLTESLNIFETIVNRRVFSNVSIILFLNKTD
LLEEKVQVVSIDYFLEFEGDPHCLRDVQKFLVECFRGKRRDQQQRPLYHHFTTAINTEINIRLV
FRDVKDTILHDNLKQLMLQ

>3CX8:B

GLIIGPEEDYDPGYFNNE SDIIFQDLEKLSHPAYLVVFLRYILSQADPGPLLFYLCSEVYQQTNP
KDSRSLGKDIWNIFLEKNAPLRVKIPEMLQAEIDLRLRNEDPRNVLCEAQEAVMLEIQEQIND

YRSKRTLGLGSLYGENDLLGLDGDPLRERQMAEKQLAALGDILSKYEEDRSAPMDFAVNTFM
SHAGIRLRESR

3DOE

>3DOE:A

MGLLTILKMKQKERELRLLMLGLDNAGKTTILKKFNGEDIDTISPTLGFNIKTLEHRGFKLNI
WDVGGQKSLRSYWRNYFESTDGLIWWVDSADRQRMQDCQRELQSLLEERLAGATLLIFANK
QDLPALSSNAIREVLELDSIRSHHWCIQGCSAVTGENLLPGIDWLLDDISSRIFTADLEHHHHH
H

>3DOE:B

GSMDALEGESFALSFSASDAEFDVVGYLEDIIMDDEFQLLQRNFMMDKYYLEFEDTEENKLIY
TPIFNEYISLVEKYIEEQLLQRIPEFNMAAFTTTLQHKKDEVAGDIFDMLLTFTDFLAFKEMFLD
YRAEKEGRGLDLSSGLVVTSLCKSSSLPASQNNLRH

2B7C

>2B7C:A

MGKEKSHINVVVIGHVDSGKSTTTGHLIYKCGGIDKRTIEKFEKEAAELGKGSFKYAWVLDKL
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DGQTRHALLAFTLGVRLIVAVNKMDSVKWDESFRFQEI VKETS NFIIKVGYNPKTVPFVPISG
WNGDNMIEATTNAPWYKWEKETKAGVVKGKTLLAIDAIEQPSRPTDKPLRLPLQDVYKIG
GIGTVPVGRVETGVIKPGMVVTFAPAGVTTEVKS VEMHHEQLEQGVPGDNVGFNVKNVSVKE
IRRGVCGDAKNDPPKGCASFNATVIVLNHPGQISAGYSPVLDCHTAHIACRFDELLEKNDRRS
GKKLEDHPKFLKSGDAALVKFVPSKPMCVEAFSEY PPLGRFAVRDMRQTVAVGVKSVDKTEK
AAKVTKAAQKAAKK

>2B7C:B

KPAKPAKSIVTLDVKPWDDETNLEEMVANVKAIEMEGLTWGAHQFIPIGFGIKKLQINCVVE
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2C7N

>2C7N:A

MSLKSERRGIHVDQSDLLCKKGCYYGNPAWQGFCSKCWREEYHKARQKQIQEDWELAERL
QREEEAFASSQS

>2C7N:B

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQLIFAGKQLEDGRTLSDYNIQKEST
LHLVLRRLGG

2J59

>2J59:A

GSMRILMVGLDAAGKTTILYKLLKLGIVTTIPTIGFNVETVEYKNISFTVWDVGGGLDKIRPLWR
HYFQNTQGLIFVVDSDNDRERVNEAREELMRMLAEDEL RDAVLLVFANKQDLPNAMNAAEITD
KLGLHSLRHRNWIYIATCATSGDGLYEGLDWLSNQLRNQK

>2J59:M

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NACLIDISYSETKRKNVFRLTSDCECLFQAEDRDDMLAWIKTIQESSNLNEEDTGVTNRDLISR
RIKEYNNLMSKAEQLPKTQRQSLIRQTLLGAKSEPKTQSP

3DDC

>3DDC:A

MTEYKLVVVGAGGVGKSALTIQLIQNHFVEKYDPTIEDSYRKQVVIDGETCLLDILDITAGQEEY
SAMRDQYMRTGEGFLCVFAINNTKSFEDIHQYREQIKRVKSDDDVPMVLVGNKCDLAARTVE
SRQAQDLARSYGIPYIETSAKTRQGVEDAFYTLVREIRQH

>3DDC:B

GSPEFPPTIQEIKQKIDSYNSREKHCLGMKLSGDGTYTGFIKVLHLKLRPVTVPAGIRPQSIYDAI
KEVNPAATTDKRTSFYLPDAIKQMHISSTTTVSEVIQGLLDKFMVVDNPNQKFALFKRIHKDGQ
VLFQKLSIADYPLYLRLLAGPDTDVLSFVLKEN

3CH5

>3CH5:A

MAAQGEPQVQFKLVLVGDGGTGKTTFVKRHLTGEFEKKYVATLGVVHPLVFHTNRGPIKFN
VWDTAGQEKFGGLRDGYIQAQCAIIMFDVTSRVTYKNVNPWHRDLVRVCENIPIVLCGNKV
DIKDRKVKAKSIVFHRKKNLQYYDISAKSNYNFEKPFLWLARKLIGDPNLEFVAMPALAPPEV
VMDPALAAQYEHDLVAQTALPDEDDDL

>3CH5:B

SDKPASTSGTGFGDKFKPAIGTWDCDTCLVQNKPEAVKCVACETPKPGTGVK

3EG5

>3EG5:A

MQTIKCVVVGDGAVGKTCLLISYTTNKFPSEYVPTVFDNYAVTVMIGGEPYTLGLFDITAGQED
YDRLRPLSYPQTDVFLVCFSVSPSSFENVKEKWWPEITHHCPKTPFLVGTQIDLRDDPSTIEK
LAKNKQKPITPETAEKLRDLKAVKYVECSALTQRGLKNVFDEAILAALE

>3EG5:B

DPTAQLQDISDEQVLVLFQMLVDMNLNEEKQQLREKDIVIKREMVSQYLHTSKAGMNQK
ESSRSAMMYIQELRSGLRDMHLLSCLESLRVSLTSHPVSWVQTFGAEGLASLLDILKRLHDEKE
ETSGNYDSRNQHEIIRCLKAFMNNKFGIKTMLETEEGILLVRAMPVAVPNMMIDAAKLLSAL
CILPQPEDMNERVLEAMTERAEMDEVERFQPLDGLKSGTSIALKVGCLQLINALITPAEELDFR
VHIRSELMRLGLHQVLQELREIENEDMKVQLCVFDEQGEDFFDLKGRLLDIRMEMDDDFGEV
FQIILNTVKDSKAEPHFLSILQHLLLRNDYEARPQYYKLIIECVSQIVLHKNGTDPDFKCRHLQ
ID

3BH6

>3BH6:A

GGSEVRILLGLDNAGKTTLLKQLASEDISHITPTQGFKSVQSQGFKLNVWDIGGLRKIRPY
WRSYFENTDILYVIDSADRKRFEETGQELTELLEEKLSVPLIFANKQDLLTAAPASEIAEGL
NLHTIRDRVWQIQSCSALTGEGVQDGMNWVCKNV

>3BH6:B

GSMGCFFSKRRKADKESRPENEEERPKQYSWDQREKVPKDYMFSGLKDETVGRLPGTVAG
QQFLIQDCENCNIYIFDHSATVTIDDCTNCHIFLGPVKGSVFFRNCRDCKCTLACQQFRVRDCRK
LEVFLCCATQPIESSNIKFGCFQWYYPELAFQFKDAGLSIFNNTWSNIHDFTPVSGELNWSLL
PEDAVVQDYVPIPTTEELKAVRVSTEANRSIVPISRGQRQKSSDESCLVVLFAGDYTIANARKLI
DEMVGKGFLLVQTKEVSMKAEDAQRVFREKAPDFLPLLNKGPVIALEFNGDGAVEVCQLIVNE
IFNGTKMFVSESKETASGDVDSFYNFADIQMG

2W83

>2W83:A

AMEMRILMLGLDAAGKTTILYKLLKLGQSVTTIPTVGFNVETVITYKNVKFNWVDVGGGLDKIRP
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EKLGLTRIRDRNWYVQSCCATSGDGLYEGLTWLTSNYKS

>2W83:C

AMDPEFMGREVENLILENTQLETKNALNIVKNDLIAKVDELTCCKDVLQGELEAVKQAKLKL
EEKNRELEEEELRKA

2KWI

>2KWI:A

GQSSLALHKVIMVGS GG V GK SALT LQ FMYDEFVEDYEPTKADSYRKKVVL DGEEVQIDILDT
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RQVPVEEARSKAE EWGVQYVETS AKTRANVDK VFFDL MREIRTKKMS ENK

>2KWI:B

GSETQAGIKEEIRRQEFLLNSLHRDLQGGIKDLSKEERLWEVQRILTALKRKLREA

3QBT

>3QBT:A

GHMDYLFKLLLIGDSGVGKTCVLF RFSEDAFNSTFISTIGIDFKIRTIELDGKRIKLQIWDTAGQE
RFRTITTAYYRGAMGIMLVYDITNEKSFDNIRNWIRNIEEHASADVEKMILGNKCDVNDKRQV
SKERGEKLALDYGIKFMETSAKANINVENAFFTLARDIKAKMDKK

>3QBT:B

GERRYRKVFEDSVRIMDRMENDFLPSLELSRREFVFENVKFRQLQKEKFQISNNGQVPCHFSFI
PKLND SQYCKPWLRAEPFEGYLEPNETVDISLDVYVSKDSVTILNSGEDKIEDILVLHLDRGKD
YFLTISGNYLPS

3SUA

>3SUA:A

MQAIKCVVVG DGAVGKTCLLISYTTNAFPGEYIPTVFDNYSANVMVDGKPVNLGLWDTAGQE
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KLKEKKLTPITYPQGLAMAKEIGAVKYLECSALTQRGLKTVFDEAIRAVLKH HHHHHH

>3SUA:D

MGHHHHHHYRRKSKQALRDYKKVQIQLENLESSVRDRCKKEFTDLMTEMTDLTSDLLGSGIP
FLDYKVYAERIFFPGHRESPLHRDLGVPESRRPTVEQQLGQLSNLLNSKLF LTKFIHTLETQRTF
SARDRAYVASLLTVALHGKLEYFTDILRTLSDLVAQYVAKNP KLM LRR TETVVEKLLTNWMSI
CLYTFVRDSVGEPLYMLFRGIKHQVDKGPVDSVTGKAKYTLNDNRLREDVEYRPLTLNALLA
VGP GAGEAQGPVKVLD CDTISQAKEKMLDQLYKGVPLTQRDPRTL DVEWRSGVAGHLIS
DEDVTSEVQGLWRRNLTLQHYKVPDGATVALVPCLTKHVLRENQDYVPGERTPMELEDVDEGG
IRPWHLVKPSDEPEPPRRRGS LRGGERERAKA IPEIYLTRLLSMKGT LQKFVDDL FQVILSTSRP
VPLAVKYFFDLLDEQAQQHGISDQDTIHIWK TNSLPLRFWINIKNPQFVFDVQTS DNMDAVLL
VIAQTFMDACTLADHKLGRDSPINKLLYARDIPRYKRMVERYADIRQTVPASDQEMNSVLAE
LSWNYS GDLGARVALHELYKYINKYYDQIITALEEDGTAQKMQLGYRLQQIAAAVENKVTDL

3T1Q

>3T1Q:A

GSMSTINFANREINFKIVYYGPGLSGKTTNLKWIYSKVPEGRKGEMVSLATEDERTLFFDFLPL
DIGEVKGFKTRFHLYTVPGQVFYNASRKLILRGVDGIVFVADSAPNRLRANAESMRNMRENLA
EYGLTLDDVPVIQV NKRDL PDALPVEMVRAVVDPEGKFPVLEAVATEGKGVFETLKEVSRLVL
ARVAGGS

>3T1Q:B

GSLVLYGAPYAAAVEVLEETLRETGARYALLIDRKGFVLAHKEALWAPKPPPLDTLATLVASNA
AATQALAKLLGEARFQEEVHQGERMGLYVDEAGEHALLVLVFD ETAPLGKVKLHGKAAAAA
LAAIAEEALAN

3TKL

>3TKL:A

GPLGSMSSMNPEYDYLFKLLIGDSGVGKSCLLLRFADDTYTESYISTIGVDFKIRTIELDGKTIK
LQIWDTAGQERFRITSSYYRGAHGIIVVYDVTDQESFNNVKQWLQEIDRYASENVNKLVLGN
KCDLTTKKVVDYTTAKEFADSLGIPFLETSAKNATNVEQSFMTMAAEIKKRMGPGATAGGAEK
SNVK

>3TKL:B

GPLGSTSSTSQADKEIQKMLDEYEQAIKRAQENIKKGELEKLDKLERQGKDLEDKYKTYEE
NLEGFEKLLTDSEELSLSEINEKMKAFSKDSEKLTQLMEKHKGDEKTVQSLQREHHDIAKLA
NLQVLHDAHTGKKSYPVNEKGNPVSSLKDAHLAINKDQEVVEHKGQFYLLQKGQWDAIKNDP
AALEKAQKDYSQSKHDLATIKMEALIHKLSLEMEKQLETINDLIMSTDPKENEAEATKLLHKHN
GLNLKLANLQDMLAVHR

4F38

>4F38:A

GHMAAIRKKLVIVGDGACGKTCLLIVFSKDQFPEVYVPTVFNENYVADIEVDGKQVELALWDTA
GQEDYDRLRPLSYPDTDVILMCFSIDSPDSLENIPEKWTPEVKHFCPNVPIILVGNKKDLRNDH
TRRELAKMKQEPVKPEEGRDMANRIGAFGYMECSAKTKDGVREVFEMATRAALQARRGKK
KSGCLVL

>4F38:B

GAEQEPTAEQLAQIAAENEDEHSVNYKPPAQKSIQEIQELDKDDESLRKYKEALLGRVAVSAD
PNVNVVVTRTLVLCSTAPGPLELDTGDLESFKKQSFVLKEGVEYRIKISFRVNREIVSGMKYI
QHTYRKGVKIDKTDYMGVSYGPRAEYEFLLTPMEEAPKGMLARGSYNIKSRTDDDDRTDHL
WEWNLTIKKEWKD

3QBV

>3QBV:A

MQTIKCVVVGDAVGKTCLLISYTTNKFPSEYVPTVFDNYAVTVMIGGEPYTLGLRDTAGQED
YDRLRPLSYPQTDVFLVCFSVSPSSFENVKEKWVPEITHHCPKTPFLVGTQIDLRDDPSTIEK
LAKNKQKPITPETAEKLARDLKAVKYVECSALTQKGLKNVFDEAILAALE

>3QBV:B

DMLTPTERKRQGYIHELIVTEENYVNDLQLVTEIFQKPLMESELLTEKEVAMIFVNWKELIMCNI
KLLKALRVRKKMSGEKMPVKMIGDILSAQLPHMQPYIRFCRQLNGAALIQQKTDEAPDFKEF
VKRLAMDPRCKGMPLSEFILKPMQRVTRYPLIKNILENTPENHPDHSHLKHALEKAEELCSQV
NEGVREKENS DRLEWIQAHVQCEGLSEQLVFN SVTNCLGPRKFLHSGKLYKAKSNKELYGFLF
NDFLLLTQITKPLGSSGTDKVFSPKSNLQYKMYKTPIFLNEVLVKLPTDPSGDEPIFHISHIDRVY
TLRAESINERTAWVQKIKAASELYIETEK

4DID

>4DID:A

MGSSHHHHHHMQTIKCVVVGDAVGKTCLLISYTTNKFPSEYVPTVFDNYAVTVMIGGEPYTL
GLFDTAGQEDYDRLRPLSYPQTDVFLVCFSVSPSSFENVKEKWVPEITHHCPKTPFLVGTQI
DLRDDPSTIEKLAKNKQKPITPETAEKLARDLKAVKYVECSALTQKGLKNVFDEAILAALEPPE
PK

>4DID:B

QILSGQGKAPAKAPDARPEIIVLREPGATWGNLQHQKASNHSLHNLYNLQRDLLTVAATVLG
KQDPVLTSMANQMEKAVKADRPATKQEEAAAKALKKNLIELIAARTQQDGLPAKEAHRFA
AVAFRDAQVKQLNNQPWQTIKNTLTHN

4C4P

>4C4P:A

MGTRDDEYDYLFKVVLLIGDSGVGKSNLLSRFTRNEFNLESKSTIGVEFATRSIQVDGKTIKAQI
WDTAGQERYRAITSAYYRGAVGALLVYDIAKHLTYENVERWLKELRDHADSNIVIMLVGNKS
DLRHLRAVPTDEARAFAEKNGLSFIETSALDSTNVEAAFQILTEIY

>4C4P:B

GAMAAKFRASNIMPSSSFHMSPTSNEDLRKIPDSNPFDATAGYRSLTYEEVLQELVKHKELLRR
KDTHIRELEDYIDNLLVRVMEETPSILRVPYEPSRKAGKFSNS

4HDO

>4HDO:A

GAKPYEKVRIYRMDGSYRSVELKHGNNTTVQQIMEGMRLSQETQQYFTIWICSENLSLQLKPY
HKPLQHV RDWPEILAE LTNLDPQRETPQLFLRRDVRLPLEVEKQIEDPLAILILFDEARYNLLKG
FYTAPDAKLITLASLLLQIVYGNYESKHKHQGFLNEENLKSIVPVTCLKSKAPHWTNRILHEYK
NLSTSEGVSKEMHHLQRMFLQNCWEIPTYGAAFFTGQIFTKASPSNHKVIPVYVGVNIKGLHL
LNMETKALLISLKYGCFMWQLGDTDTCFQIHSMENKMSFIVHTKQAGLVVKLLMKLNGQLM
PTERNS

>4HDO:B

MREYKLVVLGSGGVGKSALTVQFVQGIFVEKYDPTIEDSYRKQVEVDAQQCML EILD TAGTE
QFTAMRDLYMKNGQG FALVYSITAQSTFNDLQDLREQILRVKDTDDVPMILVGNKCDLEDERV
VGKEQGQNLARQWNNCAFLESSAKSKINVNEIFYDLVRQINR

4JW3

>4JW3:A

AAPTATVTPSSGLSDGTVVKVAGAGLQAGTAYWVAQWARVDTGVWAYNPADNSSVTADANG
SASTSLTVRRSFEGFLFDGTRWGTVDCTTAACQVGLSDAAGNGPEGVAISFAAHHHHHH

>4JW3:C

MRGSHHHHHHTDPEK VEMYIKNLQDDSYFVRRAAAAALGKIGDERAVEPLIKALKDEDRFVR
SSAAYALGEIGDERAVEPLIKALKDEDFVRRAAVALGEIGGERVRAAMEKLAETGTGFARK
VAVNYLETHKSLIS

4EKD

>4EKD:A

GAMGSARRINDEIERQLRRDKRDARRELKLLLLGTGESGKSTFIKQMRIIHGSGYSDEDKRGFT
KL VYQNIFTAMQAMIRAMDTLKIPYKYEHNK AHAQLVREVDVEKVS AFDVPDYAAIKSLWND
PGIQECYDRRREYQLSDSTKY YLNDLDRVADPSYLPTQQDVL RVCVPTTGII EYPFDLQSVIFR
MVDVGGQRSERRKWIHCFENVTSIMFLVALSEYDQVLVESDNENRMEESKALFRTIITYPWFQ
NSSVILFLNKKDLLEEKIMYSHLVDYFPEYDGPQRDAQAAREFILKMFVDLNPDSKIIYSHFT
CATDTENIRFVFAAVKDTILQLNLKEYNLV

>4EKD:B

GEFGSPSPEEAQLWSEAFDELLASKYGLAAFRAFLKSEFCEENIEFWLACEDFKKTKSPQKLSS
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DLCKKPQ

4K81

>4K81:A

GHMASGSKKQVIKVYSEDETSRALDVPSDITARDVCQLLILKNHYIDDHSWTLFEHLPHIGVER
TIEDHELVIEVLSNWGIEENKLYFRKNYAKYEFFKNPMYFFPEHMVSFATETNGEISPTQILQM

FLSSSTYPEIHGFLHAKEQGKKSWKKIYFFLRRSGLYFSTKGTSAAPRHLQFFSEFGNSDIYVSL
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YQG

>4K81:B

GAMGSMTEYKLVVVGAVGVGKSALTIQLIQNHVDEYDPTIEDSYRKQVVIDGETCLLDILDT
AGQEEYSAMRDQYMRTGEGFLCVFAINNTKSFEDIHQYREQIKRVKDSDDVPMVLVGNKCDL
AARTVESRQAQDLARSYGIPYIETSAKTRQGVEDAFYTLVREIRQH

1HCF

>1HCF:A

GVSETAPASRRGELAVCDAVSGWVTDRTAVDLRGREVEVLGEVPAAGGSPLRQYFFETRCKA
DNAEEGPGAGGGGCRGVDRRHVVSECKAKQSYVRALTADAQGRVGRWIRIDTACVCTLL
SRTGRA

>1HCF:X

SHMAPTITFLESPTSDHHWCIPFTVKGNPKPALQWFYNGAILNESKYICTKIHVTNHTEYHGCL
QLDNPTHMNNGDYTLIAKNEYGKDEKQISAHFMGWPG

1KTZ

>1KTZ:A

ALDTNYCFRNLEENCCVRPLYIDFRQDLGWKWWHEPKGYANFCSGPCPYLRSADTTHSTVL
GLYNTLNPEASAPCCVPQDLEPLTILYVGRTPKVEQLSNMVVKCKCS

>1KTZ:B

VTDNNGAVKFPQLCKFCDFRSTCDNQKSCMSNCSITSICEKPQEVAVVWRKNDENITLTV
CHDPKLPYHDFILEDAAAPKCMKEKKKPGETTFMCSCSSDECNDNIIFSEEYNTSNPD

2VSM

>2VSM:A

ICLQKTSNQILKPKLISYTLPPVVGQSGTCITDPLLAMDEGYFAYSHLERIGSCSRGVSKQRIIGV
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MTRLAVKPKSNGGGYNQHQLALRSIEKGRYDKVMPYGPSGIKQGDITLYFPAVGFLVRTEFKYN
DSNCPITKQCQYKPCNCRLSMGIRPNSHYILRSGLLKYNLSDGENPKVVFIEISDQRLSIGSPSKI
YDSLQPVFYQASFSWDTMIKFGDVLTVNPLVVNWRNNTVISRPGQSQCPRFNTCPEICWEGV
YNDAFLIDRINWISAGVFLDSNQTAENPVFTVFKDNEILYRAQLASEDTNAQKTITNCFLKNKI
WCISLVEIYDTGDNVIRPKLFAVKIPEQCTH

>2VSM:B

IVLEPIYWNSNSKFLPGQGLVLPQIGDKLDIICPKVDSKTVGQYEEYKVVYVMDKDQADRCTI
KKENTPLLNCAKPDQDIKFTIKFQEFSPNLWGLEFQKNKDYYIISTSNGSLEGLDNQEGGVCQT
RAMKILMKVGGH

2OMZ

>2OMZ:A

PLGSATITQDTPINQIFTDTALAEKMKTVLGKTNVTDTVSQTDLQVTTLQADRLGIKSIDGVE
YLNNLTQINFNNQLTDITPLKNLTKLVDILMNNNQIADITPLANLTNLTGLTLFNNQITDIDPLK
NLTNLNRLELSSNTISDISALSGLTSLQQLSFGNQVTDLKPLANLTTLERLDISSNKVSDISVLAK
LTNLESLIATNNQISDITPLGILTNLDELSLNGNQLKDIGTLASLTNLTDLANNQISNLAPLSGL
TKLTEKLGANQISNISPLAGLTALTNLLENQLEDISPISNLKNLTLYLTLYFNNISDISPVSSLTK
LQRLFFANNKVSDVSSLANLTNINWLSAGHNQISDLTPLANLTRITQLGLNDQAWTNPVNYK
ANVSIPNTVKNVTGALIAPATISDGGSYTEPDITWNLPSYTNVSYTFSQPVTIGKGTTFSGTVT
QPLKGG

>2OMZ:B

GPLGSWVIPPISCPENEGKGFPPKNLVQIKSNKDKEGKVFYSITGQGADTPPVGVFIIERETGWLK
VTEPLDRERIATYTLFSHAVSSNGNAVEDPMEILITVTDQ

1GHQ

>1GHQ:A

MLDAERLKHILVTPSGAGEQNMIGMTPTVIAVHYLDETEQWEKFGLEKRQGALELIKKGYTQ
QLAFRQPSSAFAAFVKRAPSTWLTAYVVKVFLAVNLIADSQVLCGAVKWLILEKQKPDGVFQ
EDAPVIHQEMIGGLRNNNEKDMALTAFLISLQEAKDICEEQVNSLPGSITKAGDFLEANYMN
LQRSYTVAIAGYALAQMGRLLKGPLLNKFLTTAKDKNRWEDPGKQLYNVEATSALLALLQLK
DFDFVPPVVRWLNEQRYYGGGYGSTQATFMVFQALAQYQKDAPSDHQELNLDVSLQL

>1GHQ:B

AISCGSPPPILNGRISYYSTPIAVGTVIRYSCSGTFRLIGEKSLLCITKDKVDGTWDPKAPKCEYFN
KYSSCPEPIVPGGYKIRGSTPYRHGDSVTFACKTNFSMNGNKSVMWCQANNMWGPTRLPTCVS
VFPLE

1FLT

>1FLT:V

HEVVKFMDVYQRSYCHPIETLVDIFQEYYPDEIEYIFKPSCVPLMRCGGCCNDEGLECVPTESNI
TMQIMRIKPHQGGHIGEMSFLQHNCCECRPKK

>1FLT:X

GRPFVEMYSEIPEIIHMTEGRELVIPCRVTSPNITVTLKKFPLD TLIPDGKRIIWDSRKGFIISNATY
KEIGLLTCEATVNGHLYKTNYLTHRQT

1FG9

>1FG9:A

MQDPYVKEAENLKKYFNAGHSDVADNGTLFLGILKNWKEESDRKIMQSQIVSFYFKLFKNFK
DDQSIQKS VETIKEDMNVKFFNSNKKKRDDFEKLTNYSVTDLNVQRKAIHELIIQVMAELSPAA
KTGKRKRSQ

>1FG9:C

EMGTADLGPSSVPTPTNVTIESYNMNPVYWEYQIMPQVPVFTVEVKNYGVKNSEWIDACINIS
HHYCNISDHVGDPSNSLWVRVKARVGQKESAYAKSEEFVCRDGGKIGPPKLDIRKEEKQIMIDI
FHPSVFNVDQEQVDYDPETTCYIRVYNVYVRMNGSEIQYKILTQKEDDCDEIQCQLAIPVSSL
NSQYCVSAEGLHVWGVTTTEKSKEVCITIFNSSIKGSLWIPVVAALLLFLVLS

1DU3

>1DU3:A

ALITQQDLAPQQRAAPQQKRSSPSEGLCPPGHHISEDGRDCISCKYGDYSTHWNDLLFCLRC
TRCDSGEVELSPCTTTRNTVCQCEEGTFREEDSPEMCRKCRTGCPRGMVKVGDCPTWSDIECV
HKES

>1DU3:D

VRERGPQRVA AHITGTRGRSNTLSSPNSKNEKALGRKINSWESSRSGHSFLSNLHLRNGELVIHE
KGFYIYSQTYFRFQEEIKENTKNDKQMVQYIYKYTSYPDPILLMKSARNSCWSKDAEYGLYS
IYQGGIFELKENDRIFVSVTNEHLIDMDHEASFFGAFLVG

1F3V

>1F3V:A

MAAGQNGHEEWVGSAYLFVSSLDKVVLSDAYAHPQQKVAVYRALQAALAESGGSPDVLQM
LKIHRSDPQLIVQLRFCGRQPCGRFLRAYREGALRAALQRSLAAALAQHSVPLQLELRAGAER
LDALLADEERCLSCILAQQPDRLRDEELAELEDALRNLKCGSGARGGDGEVASAP

>1F3V:B

KDLAMADLEQKVLEMEASTYDGVFIWKISDFPRKRQEAVAGRIPAIFSPAIFYTSRYGYKMCLRI
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QRPVNDMNIASGCPLFCPVSKMEAKNSYVRDDAIFIKAIVDLTGL

1I8L

>1I8L:A

VIHVTKEVKEVATLSCGHNVSVLELAQTRIIYWQKEKMMVLTMMMSGDMNIWPEYKNRTIFDIT
NNLSIVILALRPSDEGTIECVVLKYEKDAFKREHLAEVTL SVKADFPTPSISDFEIPTSNIRRIICS
TSGGFPEPHLSWLENGEELNAINTTVSQDPETELYAVSSKLDNFMTTNSFMCLIKYGHLRVQN
TFNWNTTKQEHFPDN

>1I8L:C

KAMHVAQPAVVLASSRGIAFVCEYASPGKATEVRVTVLRQADSQVTEVCAATYMMGNELTFL
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1KTK

>1KTK:A

DSKKDISNVKSDLLYAYTITPYDYKDCRVNFSTHTLNIDTQKYRGKDYISSEMSYEASQKFK
RDDHVDVDFGLFYILNSHTGEYIYGGITPAQNNKVNHKLLGNLFISGESQQNLNNKIILEKDIVTF
QEIDFKIRKYLMDNYKIYDATSPYVSGRIEIGTKDGKHEQIDLFDSNEGTRSDIFAKYKDNRIIN
MKNFSHFDIYLEK

>1KTK:E

GAVVSQHPSRVIKSGTSVKIECRSLDFQATTMFWYRQFPKQSLMLMATS AEGSKATYEQGVE
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VFEPSEAEISHTQKATLVCLATGFYPDHVELSWVWNGKEVHSGVSTDPQPLKEQPALNDSRYA
LSSRLRVSATFWQNPRNHFRQVQFYGLSENDEWTQDRAKPVTQIVSAEAWGRAD

4PP8

>4PP8:A

MEGYCGPCPNNWICHRNNCYQFFNEEKTWNQSQASCLSQNSSLLKIYSKEEQDFLKLKVSYH
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>4PP8:C

DAHSLRCNLTIKDPTPADPLWYEAKCFVGEILILHLSNINKTMTSGDPGETANATEVKKCLTQPL
KNLCQKLRNKVSNTKVDTHKTNGYPHLQVTMIYPQSQRTPSATWEFNISDSYFFTFYTENMS
WRSANDESGVIMNKWKDDGEFVKQLKFLIHECSQKMDEFLKQSKEK

1LQS

>1LQS:L

SEEAKPATTTTIKNTKPKQCRPEDYATRLQDLRVTFHRVKPTLQREDDYSVWLDGTVVKGCWGC
SVMDWLLRRYLEIVFPAGDHVYPGLKTELHSMRSTLESYKDMRQCPLLGC GDKSVISRLSQE
AERKSDNGTRKGLSELDTLFSRLEEYLHSRK

>1LQS:R

HGTELPSPPSVWFEEFFHHILHWTPIPQQSESTCYEVALLRYGIESWNSISQCSQTLSYDLTAVT
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GMWSKEECISLTRQYFTVTN

1RY7

>1RY7:A

MAEGEITFTALTEKFNLPNGYKKPKLLYCSNGGHFLRILPDGTVDGTRDRSDQHIQLQLSAE
SVGEVYIKSTETGQYLAMDTDGLLYGSQTPNEECLFLERLEENHYNTYISKKHAEKNWFVGLK
KNGSCKRGRPTHYGQKAILFLPLPVSSD

>1RY7:B

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PERMDKLLAVPAANTVRFRCPAAGNPTPSISWLKNGREFRGEHRIGGIKLRHQQWSLVMESV
VPSDRGNYTCVVENKFGSIRQTYTLDVLESPHRPILQAGLPANQTAVLGSDVEFHCKVYSDA
QPHIQWLKHVEVNGSKVGPDGTPYVTVLKTAGANTTDKELEVLSLHNVTFEDAGEYTCLAGN
SIGFSHHSAWLVVLPAAEEELVE

1SG1

>1SG1:A

SSSHPIFHRGEFSVCDSVSVWVGDKTTATDIKGKEVMVLGEVNINNSVFKQYFFETKCRDPNPV
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>1SG1:X

KETCSTGLYTHSGECCACNLGEGVAQPCGANQTVCEPCLDNVTFSDVVSATEPCKPCTECLG
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YSDEANHVDPCLPCTVCEDTERQLRECTPWADAECE

1S4Y

>1S4Y:A

EAETRECIYYNANWELERTNQGLERCEGEQDKRLHCYASWRNSSGTIELVKKGCWLDDFNC
YDRQECVATEENPQVYFCCCEGNFCNERFTHLPEPG

>1S4Y:B

GLECDGKVNICCKKQFFVSFKDIGWWDWIIAPSGYHANYCEGECPSHIAGTSGSSLSFHSTVIN
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1SHY

>1SHY:A

VVNGIPTRTNIGWMVSLRYRNKHICGGSLIKESWVLTARQCFPSRDLKDYEAWLGIHDVHGRG
DEKCKQVLNVSQLVYGPESDLVLMKLARPAVLDDFVSTIDLPNYGSTIPEKTSCSVYGWGYT
GLINYDGLLRVAHLYIMGNEKCSQHHRGKVTLNESEICAGAEEKIGSGPCEGDYGGPLVCEQHK
MRMVLGVIVPGRGCAIPNRPGIFVRVAYYAKWIHKIILTYKVPQS

>1SHY:B

ECKEALAKSEMNVNMKYQLPNFTAETPIQNVILHEHHIFLGATNYIYVLNEEDLQKVAEYKTG
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HTADIQSEVHCIFSPQIEEPSQCPDCVVSALGAKVLSSVKDRFINFFVGNNTINSSYFPDHPHLSISV
RRLKETKDGMFLTDQSYIDVLPFRDSYPIKYVHAFESNNFIYFLTVQRETLDAQTFHTRIIFC
SINSGLSHYMEMPLECILTELPRGSTKKEVFNILQAAYVSKPGAQLARQIGASLNDDILFGVFA
QSKPDSAEPMDRSAMCAFPKIYVNDFFNKIVNKNVNRCLQHFYGNHEHCFNRTLNRSSGCE
ARRDEYRTEFTALQRVDLFMGQFSEVLLTSISTFIKGDILTIANLGTSEGRFMQVVVSRSGPSTP
HVNFLLDSDHPVSPEVIVEHTLNQNGYTLVITGKKITKIPLNGLGCRHFQSCSQCLSAPPVQCG
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1Z92

>1Z92:A

APTSSSTKKTQLQLEHLLLDLQMILNGINNYKNPKLTRMLTFKFYMPKKATELKHLQCLEEELK
PLEEVLNLAQSKNFHLRPRDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFCQSIIST
LT

>1Z92:B

DPELCDDDPPEIPHATFKAMAYKEGTMLNCECKRGRFRRIKSGSLYMLCTGNSSHSSWDNQCQC
TSSATRNTTKQVTPQPEEQKERKTTEMQSPMQPVDAQSLPGHCREPPPWENEATERIYHFVVG
QMVYYQCVCQGYRALHRGPAESVCKMTHGKTRWTQPQLICTGEMETSQFPGEKPKQASPEGRP
ESETSLVTTTTDFIQTEMAATMETSIFTTE

2AW2

>2AW2:A

WNIHGKESCDVQLYIKRQSEHSILAGDPFELECPVKYCANRPHVTWCKLNGTTTCVKLEDRQTS
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>2AW2:B

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1T0P

>1T0P:A

MGNVDLVFLFDGSMQLPDEFQKILDFMKDVMKKLSNTSYQFAAVQFSTSYKTEFDFSDYVK
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DIIRYIIGIGKHFQTKESQETLHKFASKPASEFVCILDTFECLKDLFTE

>1T0P:B

QEFLLRVEPQNPVLSAGGSLFVNCSTDCPSSEKIALETSLSKELVASGMGWAAFNLSNVTGNSRI
LCSVYCNQSQTGSSNITVYG

2C5D

>2C5D:A

APLAHCDGRGGLKLSQDMDTCEDILPCVPFSVAKSVKSLYLGRMFSGTPVIRLRFKRLQPTRLV
AEFDFRTFDPEGILLFAGGHQDSTWIVLALRAGRLELQLRYNGVGRVTSSGPVINHGMWQTISV
EELARNLVIKVNRDAVMKIAVAGDLFQPERGLYHLNLTVGGIPFHEKDLVQPINPRLDGCMRSW
NWLNGEDTTIQETVKVNTRMQCFVTERGSFYPGSGFAFYSLDYMRTPLDVGTESTWEVEVV
AHIRPAADTGVLWAPDLRAVPLSVALVDYHSTKCLKKQLVVLAVEHTALALMEIKVCDGQ
EHVVTVSLRDGEATLEVDGTRGQSEVSAAQLQERLAVLERHLRSPVLTFAAGGLPDPVPTSAPV
TAFYRGCMTLEVNRRLDLDEAAYKHSBITAHSCPPVEPAAA

>2C5D:C

EESPFVGNPGNITGARGLTGTLRCQLQVQGEPEVHWLDRDQILELADSTQTQVPLGEDEQDD
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CQAQGPPEPVDLLWLQDAVPLATAPGHGPQRSLSLHVPGLNKTSSFSCEAHNAKGVTTSTRATITV
LPQQ

2AQ2

>2AQ2:A

ILEAAVTQSPRNKVAVTGKVTLSQQTNNHNNMYWYRQDTGHGLRLIHYSYGVGNTEKGD
PDGYEASRPSQEQLILESATPSQTSVYFCASGGGGTLYFGAGTRLSVL

>2AQ2:B

ESQPDMPDDLHKSSEFTGTMGNMKYLYDDHYVSATKVKSVDKFLAHDLIYNISDKLKNYD
KVKTELLNEDLAKKYKDEVVDVYGSNYVNCYFSSKDNVWVWPGKTCMYGGITKHEGNHFD

NGNLQNVLVRVYENKRNTISFEVQTDKKSVTAQELDIKARNFLINKKNLYEFNSSPYETGYIKFI
ENNGNTFWYDMMPAPGDKFDQSKYLMMYNDNKTVDKSVKIEVHLTTKNG

2FDB

>2FDB:M

QVTVQSSPNFTQHVREQLVTDQLSRRLIRTYQLYSRTSGKHVQVLANKRINAMAEDGDPFAK
LIVETDTFGSRVRVRGAETGLYICMNKKGKLIKSNKGGKDCVFTEIVLENNYTALQNAKYEG
WYMAFTRKGRPRKGSKTRQHQRREVHFMKRLPRGHHTTE

>2FDB:P

NNKRAPYWTNTEKMEKRLHAVPAANTVKFRCPAGGNPMPTMRWLKNGKEFKQEHRIGGYK
VRNQHWLIMESVVPDCKGNYTCVVENEYGSINHTYHLDVVERSRRHRPILQAGLPANASTVV
GGDVEFVCKVYSDAQPHIQWIKHVEKNGSKYGPDGLPYLKVKAAGVNTTDDKEIEVLYIRNV
TFEDAGEYTCLAGNSIGISFHSAWLTVLPAPGREKE

2FYL

>2FYL:A

GEEFRMEKLNQLWEKAQRLHLPPVRLAELHADLKIQRDELAWKKLKLDDGLDEDEGEKEARLI
RNLNVILAKYGLDGKKDAR

>2FYL:B

SARTCPPNQFSCASGRICIPISWTCDLDDDCGDRSDESASCAYPTCFPLTQFTCNNGRCININWRC
DNDNDCGDNSDEAGCSH

2GH0

>2GH0:A

KLNMLKPDSDLCLKFAMLCTLNDKCDRLRKAYGEACSGPHCQRHVCLRQLLTFEKAAPHA
QGLLCPAPNDRGCGERRRNTIAPNCALPPVAPNCLELRRLCFSDPLCRSRLVDFQTHCHPMD
ILGTCATEQSRCLRAYLGLIGTAMTPNFVSNVNTSVALSCTCRGSGNLQEECEMLEGFFSHNPC
LTEAIAAKMRFHSQLFSQDWPHP

>2GH0:C

DPGCRLRSQVLPVVRALGLGHRSDLVFRFRFCGSCRRARSPHDLSLASLLGAGALRPPPGSRPV
SQPCCRPTRYEAVSFMDVNSTWRTVDRLSATAACGLG

2Q7N

>2Q7N:A

DYKDDDDKDLKCTTNNMRVWDCTWPAPLGVSPGTVKDICKDRFHSCHPLETTNVKIPALSPG
DHEVTINYLNQFQSKFTLNEKDVSLIPETPEILDLSADFFTSLLLKWNDRGSALPHPSNATWEI
KVLQNPRTPEVALVLLNTMLSGKDTVQHWNTSDLPQCATHSVSIRWHIDSPHFSGYKEWS
DWSPLKNISWIRNTETNVFPQDKVVLAGSNMTICCMSPTKVLGQIGNTRPLIHLYGQTVAIHI
LNIPVSENSGTNIIFITDDDVGTVVFAGYPPDVPQKLSCEETHDLKEIICSWNPGRITGLVGRNT
EYTLFESISGKSAVFHRIEGLTNETYRLGVQMHPGQEIHNFTLTGRNPLGQAQSAVINVERTVA
PHDPTSLKVKDINSTVVTFSWYLPGNFTKINLLCQIEICKANSKKEVRNATIRGAEDSTYHVAVD
KLNPHYTAYTFRVRCSSKTFWKWSRWSDEKRHLTTEAT

>2Q7N:B

SPLPITPVNATCAIRHPCHNNLMNQIRSQAQLNGSANALFILYYTAQGEPPFNNDKLCGPNVT
DFPPFHANGTEKAKLVELYRIVVYLGTSNGNITRDQKILNPSALSLHSLKNATADILRGLLSNVL
CRLCSKYHVGHDVTVYGPDTSGKDVVFQKKKLGKQLLGKYKQIIAVLAQAF

2RF9

>2RF9:A

GAMGEAPNQALLRILKETEFKKIKVLGSGAFGTVYKGLWIPEGEKVKIPVAIKELREATSPKAN
KEILDEAYVMASVDNPHVCRLLGICLTSTVQLITQLMPFGCLLDYVREHKDNIGSQYLLNWCV
QIAKGMNYLEDRLVHRDLAARNVLVKTQPQHVKITDFGLAKLLGAEKEYHAEGGKVPKW
MALESILHRIYTHQSDVWSYGVTWELMTFGSKPYDGIPASEISSILEKGERLPQPPICTIDVYMI
MVKCWMIDADSRPKFRELIIEFSKMARDPQRYLVIQGDERMHLPSPTDSNFYRALMDEEDMD
DVVDADEYLIPQQG

>2RF9:C

GPLGSRPPKVPVPPREPLSPSNSRTPSPKSLPSYLNQVMPPTQSFAPDPKYVSSKALQRQNSEGSAS

2Z3Q

>2Z3Q:A

AMAINWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLELQVISLESGDASIH
DTVENLIILANNSLSSNGNVTESGCKECELEEKNIKEFLQSFVHIVQMFINTS

>2Z3Q:B

AMASITCPPPMSVEHADIWVKSYSLSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTP
SLKCIRDPALVHQRPAAPPSTVTTAGVTPQPESLSPSGKEPAAS

2Z8V

>2Z8V:A

NYMGNPWTEYMAKYDIEEVHGS GIRVDLGEDAEVAGTQYRLPSGKCPVFGKGIENSNTTFLT
PVATGNQYLKDGGAFFPTEPLMSPMTLDEMRFYKDNKYVKNLDELTLCSRHAGNMIPDND
KNSNYKYPVYDDKDKKCHILYIAAQENNGPRYCNKDESKRNSMFCFRPAKDISFQNYTYLSK
NVVDNWEKVCPRKNLQNAKFLWVDGNCEDIPHVNEFPAIDLFEKNLKFELSASDQPKQYE
QHLDYEKIKEGFKNKNASMIKSAFLPTGAFKADRYKSHGKGYNWGNNTETQKCEIFNVKP
TCLINSSYIATTALSHPIEVE

>2Z8V:C

AWVDQTPRTATKETGESLTINCVLRDASLELKDTGWYRTKLGSTNEQSSISIGGRYVETVNKGSK
SFSLRISDLRVEDSGTYKCAFYSLPLRDYNYSLFRGEKGAGTALTVKAAA

2PTT

>2PTT:A

MARIRARGSIPDINAYTGSNVTLKIHKDPGPYRRITWLHTKNQKILEYNYNSTKTIFESEFKGR
VYLEENNGALHISNVRKEDKGTYYMRVLRETENELKITLEVFDPV

>2PTT:B

MGQDCPDSSEEVVGVSQKPVQLRPSNIQTKDVSQWKKTEQGS HRKIEILNWYNDGPSWSNV
SFSDIYGFDYGFALSIAKSAKLQDSGHYLLEITNTGGKVCNKNFQLLILD

3F5C

>3F5C:A

QTNSPASIPHLILELLKCEPDEPQVQAKIMAYLQEQSNRNRQEKL SAFGLLCKMADQTLFSIV
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AFNNLLSLAQELVVRLRSLQFDQREFVCLKFLVLFSSDVKNLENLQVQVQEQVNAALLDYT
VCNYPQQTEKFGQLLLRPELRAISKQAEDYLYYKHVNGDVPYNNLLIEMLHAKRA

>3F5C:B

GEEQPQQISVASGTPVSADQTPATPQEQPRAPWWDASPGVQRLITLKDPPVCEAASAGLLKT
LRFVKYLPFCQILPLDQQLVLRSCWAPLLMLELAQDHLHFEMMEIPETNTTQEMLTTRRQETE
GPEPAEPQATEQPQMVS AEAGHLLPAAAVQAISFFFKCSL NIDTKEYAYLKGTVLFPDLP
LQCVKYIEGLQWRTQQILTEHIRMMQREYQIRSAELNSALFLLRFINSVVTTELFRPIIGAVSM
DDMMLEMLCAKL

2VER

>2VER:A

EECQVRVGDLTVAKTRGQLTDAAPIGPVTVQALGCNARQVALKADTDNFEQGKFFLISDNNRD
KLYVNIRPMDNSAWTTDNGVFYKNDVGSWGGTIGIYVDGQQTNTPPGNYTLTLTGGYWAKD
NKQGFTPSGTTGTTKLTVT

>2VER:N

KLTIESTPFNVAEGKEVLLLHVHNLPHLFGYSWYKGERCDGNCQIIGYVIGTQCATPGPAYSGR
EIIYPNASLLIQNIIQNNTGFYTLHVIKSDLVNEEATGQFRVYPEL

3DGC

>3DGC:L

HCRLDKSNFQQPYITNRTFMLAKEASLADQNTDVRLIGEKLFGVSMSERCYLMKQVLQFTL
EEVLFPPQSDRFQPYMQEVVPFLARLSNRLSTCHIEGDDLHIQRNVQKLKDTVKKLGESGEIKAI
GELDLLFMSLRNACI

>3DGC:R

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PIRAGDGHRLTLEDIFHDLFYHLELQVNRTYQMHLGGKQREYEFFGLTPDTEFLGTIMICVPTW
AKESAPYMCRVKTLPDRT

3D50

>3D50:A

HTDLSGKVFVFPRESVTDHVNLIPTLEKPLQNFTLCFRAYSDSLRSAYSLFSYNTQGRDNELLY
KERVGEYSLYIGRHKVTSKVIEKFPAPVHICVSWESSGIAEFWINGTPLVKKGLRQGYFVEAQP
KIVLGGQEQDSYGGKFRSRSQSFVGEIGDLYMWDSVLPENILSAYQGTPLPANILDWQALNYEIR
GYVIIKPLVWV

>3D50:F

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EYTCQTGQTSLSDPVHLTVLSEWLVLQTPHLEFQEGETIMLRCHSWKDKPLVKVTFQNGKSK
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3EOY

>3EOY:A

GSSPNLRYPIADVSGGIGMSPNYRFRQSMWIGIVSYSGSGLNWRVQVNSDIFIVDDYIHICLPAF
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EQWQDGVLRRLRVEGGGSITHSNSKWPAMTVSYPRSFT

>3EOY:G

GSSVTVHSSEPEVRIPENNPVKLSCAYSGFSSPRVEWKFDQGDTRRLVCYNNKITASYEDRVTF
PTGITFKSVTREDTGTYTVMVSEEGNSYGEVKVKLIVL

3EJJ

>3EJJ:A

ADPSEHCSHMIGNHGLKVLQQLIDSQMETSCQIAFEFVDQEQLDDPVVCYLKKAFFLVQDIIDET
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LEKDOWNIFTKNCNNSFAKCSSHHHHHHH

>3EJJ:X

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YRCTELEDPMAGSTTIHLYVKDPAHSWNLLAQEVTVVEGQEAVALPCLITDPALKDSVSLMREG

GRQVLRKTVYFFSPWRGFIIRKAKVLDSNTYVCKTMVNGRESTSTGIWLKVN RVHPEPPQIKL
EPSKLV RIRGEAAQIVCSATNAEVGFNVILKRGDTKLEIPLNSDFQDNYYKKVRALSLNAVDFQ
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3INB

>3INB:A

YPYDVPDYAGAQP ARSPGIRGLVPRGSQFLAVSKGNCSGPTTIRGQFSNMSLSLLDLYLGRGYN
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PVSNDLSNCMVALGELKLAALCHGEDSITIPYQGSQKGVSFQLVKLG VVKSPADMQS WVPLS
TDDPVIDRLYLSSH RGVIADNQAKWAVPTTRTDDKLRMETCFQQACKGKIQLCENPEWAPLK
DNRIPSYGVLSDLSLTVELKIKIASGFGPLITHGSGMDLYKSNHNNVYWLTI PPMKNLALGVI
NTLEWIPRFKVSPYLFTVPIKEAGEDCHAPTYLPAEVDGDVKLSSNLVILPGQDLQYVLATYDT
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HSGMVG MGVSCTVTREDGTNR

>3INB:C

CEEPPTFEAMELIGKPKPYEIGERVDYKCKKGYFYIPPLATH TICDRNHTWLPVSDDACYRET
CPYIRDPLNGQAVPANGTYEFGYQMHFICNEGYYLIGEEILYCELKGSVAIWSGKPPICEKV

3DI2

>3DI2:A

MGDCDIEGKDGKQYESVLMV SIDQLLDSMKEIGSNCLNNEFNFFKRHICDANKEGMFLFRAA
RKL RQFLKMNSTGDFDLHLLKVSEGTTILLNCTGQVKGRKPAALGAAQPTKSLEENKSLKEQK
KLNDLCFLKRL LQEIKTCWNKILMGTKEH

>3DI2:B

GSHMESGYAQN GDLEDAELDDYSFSCYSQLEVNGSQHSLTCAFEDPDVNTTNLEFEICGALVE
VKCLNFRKLQEIYFIETKKFLLIGKSNICVKVGEKSLTCKKIDLT TIVKPEAPFDLSVYREGAN
DFVVTFTNTSHLQKKYVKVLMHDVAYRQEKDENK WTHVNLSSTKLTL LQRKLQPAAMY EIKV
RSIPDHYFKGFWSEWSPSYFRTPEINNSSGEMD

3FF7

>3FF7:A

MDWVIPPISLPENEKGPFPKNLVQIKSNKDKEGKVFYSITGQGADTPPVGVFIIERETGWLKVTE
PLDRERIATYTLF SHAVSSNGNAVEDPMEILITVT

>3FF7:C

CPDRWMKYGNHCYYFSVEEKDWNSSLEFCLARDSHLLVITDNQEMSL LQVFLSEAFSWIGLR
NNSGWRWEDGSPLNFSRISNSFVQTCGAINKNGLQASSCEVPLHWVCKK

3G9W

>3G9W:A

GIDPFTGIDPFTKFFYSDQNVDSRDPVQLNLLYVQARDDILNGSHPV SFEKACEFGGFQAQIQF
GPHVEHKHKPGFLDLKEFLPKEYIKQRGAEKRFQEHKNCGEMSEIEAKVKYVKLARS LR TYG
VSFFLVKEKMKGKKNLVPRL LGITKDSVMRVDEKTKEVLQEWPLTTV KRWAASPKSFTLDFGE
YQESYYSVQTTEGEQISQLIAGYIDIILKKKQS

>3G9W:C

GPKLLMIIHDRREFAKFEKEKMNAKWDTQENPIYKSPINNFKNPNYGRKAGL

3F7P

>3F7P:A

GSHMSGEDAEVRAVSEDVSNSSGSPSPGDTLPWNLGKTQRSRRSGGGAGSNGSVLDP AERA
VIRIADERDRVQKKTFTKWVNKHLIKAQRHISDLYEDLRDGHNLISLLEVLSGDSLPREKGRMR
FHKLQNVQIALDYLRHRQVKLVNIRNDDIADGNPKLTLGLIWTIILHFQISDIQVSGQSEDMTAK
EKLLLWSQRMVEGYQGLRCDNFTSSWRDGRLFNAIIHRHKPLLIDMNKVYRQTNLENLDQAF
SVAERDLGVTRLLDPEDVDVPQPDEKSIITYVSSLYDAMPRVP

>3F7P:C

GSHDLGAPQNPNAKAAGSRKIHFNWLPPSGKPMGYRVKYWIQGDSESEAHLLDSKVPSVELT
NLYPYCDYEMKVCAYGAQGEOPYSSLVSCRTHQEVPEPGRLAFNVVSSTVTQLSWAEP AETN
GEITAYEVCYGLVNDNRPPIGPMKKVLVDNPKNRMLLIENLRESQPYRYTVKARNGAGWGPE
REAIINLATQPKRPMISIPIPIVDAQSGEDYDSFLMYSDDVLRSPSGSQRPVSDDTE

3R9A

>3R9A:A

GAMASHKLLVTPPKALLKPLSIPNQLLLGPGPSNLPPRIMAAGGLQMIGSMSKDMYQIMDEIKE
GIQYVFQTRNPLTLVISGSGHCALEAALVNVLEPGDSFLVGANGIWGQRAVDIGERIGARVHPM
TKDPGGHYTLQEVEEGLAQHKPVLLFLTHGESSTGVLQPLDGFGE LCHRYKCLLLVDSVASLG
GTPLYMDRQGIDILYSGSQKALNAPPGTSLISFSDKAKKKMYSRKT KPF SFYLDIKWLANFWG
CDDQPRMYHHTIPVISLYSLRESLALIAEQLENSWRQHREAAAYLHGRLQALGLQLFVKDPA
LRLPTVTTVAVPAGYDWRDIVSYVIDHFDIEIMGGLGPSTGKVLRI GLLGCNATRENVDRVTEA
LRAALQHCPKKKL

>3R9A:B

GAMLTSATYDKGYQFEEENPLRDHPQPFEGLRRLQEGDLPNAVLLFEAAVQQDPKHMEAWQ
YLGTTQAENEQELLAISALRRCLELKP DNQTALMALAVSFTNESLQRQACETLRDWLRYTPAY
AHLVTPAEEGAGGAGLGPSKRILGSLSDSLFLEVKELFLAAVRLDPTSIDPDVQCGLGVLFNLS
GEYDKAVDCFTAALSVRPNDYLLWNKLGATLANGNQSEEAVAAYRRALELQPGYIRSRYNLGI
SCINLGAHREAVEHFLEALNMQRKSRGPRGEGGAMSENIWSTLRLALSMLGQSDAYGAADAR
DLSTLLTMFGLPQ

3LB6

>3LB6:A

MALLLTTVIALTCLGGFASPGVPPSTALRELIEELVNITQNQKAPLCNGSMVWSINLTAGMYCA
ALESLINVSGCSAIEKTQRMLSGFCPHKVSAGQFSSLHVRDTKIEVAQFVKDLLHLK KLFREG
RFN

>3LB6:C

MAFVCLAVGCLYTFLISTTFGCTSSSDTEIKVNPPQDFEIVDPGYLGYLYLQWQPPLSLDHFKEC
TVEYELKYRNIGSETWKTITKNLHYKDGFDLNKGIEAKIHTLLPWQCTNGSEVQSSWAETTY
WISPQGIPETKVQDMDCVYYNWQYLLCSWKPGIGVLLDTNYNLFYWYEGLDHALQCVDIK
ADGQNI GCRFPYLEASDYKDFYICVNGSSENKPIRSSYFTFQLQNIVKPLPPVYLTF TRESSCEIK
LKWSIPLGPIPARCFDYEIEIREDDTTLVTATVENETYTLKTTNETRQLCFVVR SKVNIYCSDDGI
WSEWSKQCWEGEDLSKKTLLRFWLPFGFILILVIFVTGLLLRKPNTY PKMIPEFFCDT

3AU4

>3AU4:A

GPTRWSSAIQNVTDTKAPIDTPTQQLIQDIKENCLNSDVVEQIYKRNPILRYTHHPLHSPLLPLP
YGDINLNLKDKGYTTLQDEAIKIFNSLQLESMSDPIIIQGILQTGHDLRPLRDELYCQLIKQT
NKVPHPGSVGNLYSWQILTCL SCTFLPSRGILKYLKFHLKRIREQFPGTEMEKYALFTYESL KKT
KCREFVPSRDEIEALHRQEMTSTVYCHGGGCKITINSHTTAGEVVEKLIRGLAMEDSRNMFA
LFEYNGHV DKAIESRTVVADV LAKFEKLAATSEVGDLPWKFYFKLYCFLD TDNVPKDSVEFAF
MFEQAHEAVIHGHHPAPEENLQVLAALRLQYLQGDYTLHAAIPPLEEVYSLQRLKARISQSTKT

FSFRTGSVVRQKVEEEQMLDMWIKKEEVSSARASIIDKWRKFQGMNQEAMAKYMALIKEWP
GYGSTLFDVECKEGGFPQELWLGVSADAVSVYKRGEGRPLEVFQYEHILSFGAPLANTYKIVV
DERELLFETSEVVDVAKLMKAYISMIVKKRYSTTRSASSQGSSR

>3AU4:B

GPGYQARSPLLPVSVPTAPEVSEESHKPTEDSANVYEQDDLSEQMASLEGLMKQLNAITGSAF

3ONA

>3ONA:A

GAMGSFNSIDVEINMYPVNKTSCNSSIGSSSTISTSELTTITLTHEDCTPVFIGDYYSVVDKLATSG
FFTNDKVHQDLTTQCKINLEIKCNSGRESRQLTPTTKVYLMPHSETVTVVGDCLSNLDVYIVYA
NTDAIYSDMDVVAYHTSYILNVDHIPPND CERD

>3ONA:B

GAMGQHHGVTKCNITCSKMTSKIPVALLIHYQQNQASCGKRAIILETRQHRLFCADPKEQWVK
DAMQHLDQRQAALTRNG

3QLU

>3QLU:A

VLSSLRMAAILDDQTVCGRGERLALALAREQINGIIEVPAKARVEVDIFELQRDSQYETTTDTMC
QILPKGVVSVLGPSSSPASASTVSHICGEKEIPHIKVGPEETPRLQYLRFASVSLYPSNEDVSLAVS
RILKSFNYPSASLICKAECLLRLEELVRGFLISKETLSVRMLDDSRDPTPLLKEIRDDKVSTIID
ANASISHLVLRKASELGMTSAFYKYILTTMDFPILHLDGIVEDSSNILGFSMFNTSHPFYPEFVRS
LNMSWRENCEASTYGPALSAALMFDVAVHVVVSAVRELNRSQEIGVKPLACTSANIWPHTSL
MNYLRMVEYDGLTGRVEFNSKQRTNYTLRILEKSRQGHREIGVWYSNRTLAMNATTLDILEL
VPR

>3QLU:C

TTHVLRFGGIFEYVESGPMGAEELAFRFAVNTINRNRTLLPNTTLYDTQKINLYDSFEASKKAC
DQLSLGVAAIFGPSHSSSANAVQSIKALGVPHIQTRWKHQVSDNKDSFYVSLYPDFSSLSRAIL
DLVQFFKWKTVTVVYDDSTGLIRLQELIKAPSRYNLRLKIRQLPADTKDAKPLLKEMKRGKEF
HVIFDCHEMAAGILKQALNMSMMTEYYHYIFTTLDLFDLVEPYRYSVGNMTGFRILNTENT
QVSSIIEKWSMERLQAPPKPDGLLDGFMTTDAALMYDAVHVVSVAVQQFPQMTVSSLQCNR
HKPWRFGRTRFMSLIKEAHWEGLTGRITFNKTNGLRTRDFDLVISLKEEGLEKIGTWDPASGLN
MTESQKKGKLELVPR

3OJM

>3OJM:A

MAEGEITTFALTEKFNLPNGNYKKPKLLYCSNGGHFLRILPDGTVDGTRDRSDQHIQLQLSAE
SVGEVYIKSTETGQYLAMDTDGLLYGSQTPNEECLFLERLEENHYNTYISKKHAENWFVGLK
KNGSCKRGRPTHYQKAILFLPLPVSSD

>3OJM:B

MAEDFVSENSNNKRAPYWTNTEKMEKRLHAVPAANTVKFRCPAGGNPMPTRWLKNGKEF
KQEHRRIGGYKVRNQHWLIMESVVPSPDKGNVTCVVENEYGSINHTYHLDVVERSRRHPILQA
GLPANASTVVGGDVEFVCKVYSDAQPHIQWIKHVEKNGSKYGPDGLPYLKV LKHSGINSSNA
EVLALFNVTEADAGEYICKVSNYIGQANQSAWLTVLPKQQAPGREKE

3SGK

>3SGK:A

THTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVH
NAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV

YTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVD
KSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGK

>3SGK:C

RTEDLPKAVVFLEPQWYRVLEKDSVTLKCGAYSPEDQSTQWFHNESSLISSQASSYFIDAATVD
DSGEYRCQTQLSTLSDPVQLEVHIGWLLLQAPRWVFKEDPIHLRCHSWKNTALHKVTYLQN
GKGRKYFHHNSDFYIPKATLKDSGSYFCRGLVGSKNVSSSETVQITITQGLAVSTISSFFPPGYQG
KKKKKKGGHHHHH

3QS7

>3QS7:A

GSHMTQDCSFQHSPISDFAVKIRELSDYLLQDYPVTVASNLQDEELCGGLWRLVLAQRWMER
LKTVAGSKMQGLLERVNTEIHFVTKCAFQPPSCLRFVQTNISRLQETSEQLVALKPWITRQNF
SRCLELQCQP

>3QS7:E

ETGNQDLPVIKCVLINHKNNNDSSVVGKSSSYPMVSESPEDLGCALRPQSSGTVYEAAAVEVDVS
ASITLQVLVDAPGNISCLWVFKHSSLNCQPHFDLQNRGVVSMVILKMTETQAGEYLLFIQSEAT
NYTILFTVSIRNTLLYTLRRPYFRKMENQDALVCISESVPEPIVEWVLCDSQGESCKEESPAVVK
KEEKVLHELFGTDIRCCARNELGRECTRLFTIDLNQTTPQTLPQLFLKVGEPLWIRCKAVHVNH
GFGLTWELENKALEEGNYFEMSTYSTNRTMIRILFAFVSSVARNDTGYYTCSSSKHPSQSALVTI
VEKGFINATNSSEIDYEEFCFSVRFKAYPQIRCTWTFSRKSFCEQKGLDNGYSISKFCNH
KHQPGEYIFHAENDDAQFTKMFTLNIRSGTKHHHHH

3TWI

>3TWI:A

MGSSHHHHHENLYFQGGPSGLGLPAGLYAFNSGGISLDLGINDPVPFNTVGSQFGTAISQLDA
DTFVISETGIFYKITVIANATASVLGGLTIQVNGVPVPGTGSSLISLGAPIVIQAITQITNPSLVEV
IVTGLGLSLALGTSASIIIEKVAFRFRN

>3TWI:D

AMVHHHHHSAACPSQCSCSGTTVNCQERSLASVPAGIPTTTQVLHLYINQITKLEPGVFDSL
QLTYLNLAVNQLTALPVGVDKLTKLTHLALHINQLKSIPMGVFDNLKSLTHIYLFNNPWDCEC
SDILYLKNWIVQHASIVNPLGNGGVDNVKCSGTNTPVRAVTEASTSPSKCP

3QT2

>3QT2:A

MADLLPDEKISLLPPVNFTIKVTGLAQVLLQWKPNDQEQNRNVNLEYQVKINAPKEDDYETRI
TESKAVTILHMGFSASVRTILQNDHSSLASSWASAEHAPPSPGTSIVNLTCTTNTTEDNYSRL
RSYQVSLHCTWMVGTDAPEDTQYFLYYRYGSWTEECQEYSMDTLGRNIACWFPRTFILSKGR
DWLAVLVNGSSKHSAIRPFDQLFALHAIDQINPPLNVTAEIEGTRMSIQWEKPVSAFPIHCFDYE
VKIHNRNGYLQIEKLMTNAFISIIDDLSKYDVQVRAAVSSMCREAGLWSEWSQPIYVGFSSR

>3QT2:C

MAIPTIPTSALVKETLALLSTHRTLLIANETLRIPVPVHKNHQLCTEEIFQGIGTLESQTVQGGT
VERLFKNLSLIKKYIDGQKKKCGEERRRVNQFLDYLQEFLGVMNTEWIIES

2L29

>2L29:A

MKSNEHDDCQVTNPSTGHLFDLSSLSGRAGFTAAYSKSGVVYMSICGENENCPPGVGACFGQ
TRISVGKANKRLRYVDQVLQLVYKDGSPCPSKSGLSYKSVISFVCRPEAGPTNRPMLISLDKQT
CTLFFSWHTPLACEPE

>2L29:B

AYRPSETLCGGELVDTLQFVCGDRGFYFSRPASRVSRRSRGIVECCFRSCDLALLETYCATPAK
SE

4G8A

>4G8A:A

RSPWDYKDDDDKLAANSSIPESWEPCVEVVPNITYQCMELNFYKIPDNLPFSTKNLDLSFNPL
RHLGSYSFFSPELQVLDLSRCEIQTIEDGAYQSLSHLSTLILTGNPIQSLALGAFSGLSSLQKLVA
VETNLASLENFPIGHLKTLKELNVAHNLIQSFKLPEYFSNLTNLEHLDLSSNKIQSIYCTDLRVLH
QMPLLNLSLDLSLNP MNFIQPGAFKEIRLHKLT LRNNFDSLNMKT CIQGLAGLEVHRLVLGEF
RNEGNLEKFDKSALEGLCNLTIEEFRLAYLDYLDGIIDL FNCLTNVSSFSLSVSVTIERVKDFSYN
FGWQHLELVNCKFGQFPTLKLKSLKRLTFTSNKGGNAFSEVDLPSLEFLDLSRNGLSFKGCCSQ
SDFGTISLKYLDLSFNGVITMSSNFLGLEQLEHLDFQHSNLKQMSEFSVFLSLRNLIYLDISHTH
TRVAFNGIFNGLSSLEVLMAGNSFQENFLPDIFTEL RNLTFLDLSQCQLEQLSPTAFNSLSSLQV
LNMSHNNFFSLDTPYKCLNSLQVLDYSLNHIMTSKKQELQHFSSLAFLNLTQNDFACTCEH
QSFLQWIKDQRQLLVEVERMECATPSDKQGMVLSLNITCQMTGHHHHHH

>4G8A:C

EAQKQYWVCNSSDASISYTYCDKMQYPISINVNPCIELKGSKGLLHIFYIPRRDLKQLYFNLYIT
VNTMNLPKRKEVICRGSDDDYSFCRALKGETVNTTISFSFKGIKFSKGKYKCVVEAISGSPEEM
LFCLEFVILHQPNNSN

4EXP

>4EXP:A

NENLEIWTLTQDKECDLTGYLRGKLQYKNRLQYMKHYFPINYRIAVPYEGVLRVANITRLQKA
HVSERELRYLWVLVSLNATESVMDVLLLEGHPSWKYLQEVQTLLENVQRSLMDVEIGPHVEAV
LSLLSTPGLSLKLVKALLDNCFRVMELLYCSCCKQSPILKWQDCELPAAA

>4EXP:X

ADPAPVIEPSGPELVVEPGETVTLRCVSNNGSVEWDGPISPYWTLDPESPGSTLTTRNATFKNTGT
YRCTELEDPMAGSTTIHLYVKDPAHSWNLLAQEVTVVEGQEA VLPCLITDPALKDSVSLMREG
GRQVLRKTVYFFSPWRGFIIRKAKVLDSENTYVCKTMVNGRESTSTGIWLKVN RVHPEPPQIKL
EPSKLVIRGEAAQIVCSATNAEVGFNVILKRGDTKLEIPLNSDFQDNYYKKVRALS LNAVDFQ
DAGIYSCVASNDVGTRTATMNFQV VESH

4DKD

>4DKD:A

AGSNEPLEMWPLTQNEECTVTGFLRDKLQYRSRLQYMKHYFPINYKISVPYEGVFRIANVTRL
QRAQVSERELRYLWVLVSLSATESVQDVLLLEGHPSWKYLQEVETLLLNVQQGLTDVEVSPKV
ESVLSLLNAPGPNLKLVRPKALLDNCFRVMELLYCSCCKQSSVLNWQDCEVGN SHHHHHH

>4DKD:C

AGSIPVIEPSVPELVVKPGATVTLRCVGNNGSVEWDGPPSPHWTLYSDGSSSILSTNNATFQNTGT
YRCTEPGDPLGGSAAIHLYVKDPA RPWNVLAQEVVVFEDQDALLPCLLTD PVLEAGVSLVRVR
GRPLMRHTNYSFSPWHGFTIHRAKFIQSQDYQCSALMGRKVMSSIRLKVQKVIPGPPALTLV
PAELVRIRGEAAQIVCSASSVDVNFDFLQHNNTKLAIPQQSDFHNNRYQKVLTLNLDQVDFQ
HAGNYSCVASNVQGHSTSMFFRVVESAGNSHHHHHH

4IOP

>4IOP:A

DLGSIATWSKHAKPVACSGDWLGVRDKCFYFSDDTRNWTASKIFCSLQKAELA QIDTQEDMEF
LKRYAGTDMHWIGLSRKQGD SWKWTNGTTFNGWF EIINGNSFAFLSADGVHSSRGFIDIKWIC
SKPKYFLAAAHHHHHH

>4IOP:B

DLGSSQNVNVSSLSGHNYLCPNDWLLNEGKCYWFSTSFKTKWESQRDCTQLQAHLLVIQNLD
ELEFIQNSLKPFGHGWIGLYVTFQGNLWMWIDEHFLVPELFSVIGPTDDRSCAVITGNWVYSED
CSSTFKGICQRDAILTHNGTSGVAAAHHHHHH

4BFI

>4BFI:A

TDKNQTTQNNSSSPLTQVNTTVSVQIGTKALLCCFSIPLTKAVLITWIIKLRGLPSCITAYKVDTK
TNETSCLGRNITWASTPDHSPQLISAVTLQHEGTYTCETVTPEGNFEEKNYDLQVLVPPEVTYFP
EKNRSACEAMAGKPAQAISWSPDGDVTTSESHSNGTVTVRSTCHWEQNNVSDVSCIVSHLT
GNQSLSELGRGGSTRHHHHHH

>4BFI:B

QVEVVTQDERKALHTTASLRCSLKTSQEPLIVTWQKKKAVSPENMVTYSKTHGVVVIQPAYKDR
INVTELGLWNSSITFWNTTLEDEGCYMCLFNTFGSQKVSQTACLTLYVQPIVHLHYNYFEDHLN
ITCSATARPAPAIWKGTTGTGIENSTESHFHSNGTTSVTSILRVKDPKTQVGKEVICQVLYLGNVI
DYKQSLDKGSTRHHHHHHH

4HSA

>4HSA:A

PNSDKNFPRTVMVNLNIHNRNTNTNPKRSSDYDRSTSPWNLHRNEDPERYPSVIWEAKCRH
LGCINADGNVDYHMNSVPIQQEILVLRREPPHSPNSFRLEKILVSVGCTCVTPIVHHVA

>4HSA:C

SLRLLDHRAALVCSQPGLNCTVKNSTCLDDSWIHPRNLTPSSPKDLQIQLHFAHTQQGDLFPVAH
IEWTLQTDASILYLEGAELSVLQLNTNERLCVRFEFSLKLRHHRRWRFTFSHFVDPDQEYEV
TVHHLPKPIPDGDPNHQSKNFLVPDCEHARMKVTTPCMSSGSLWDPDITVETLEAHQLRVSFTL
WNESTHYQILLTSFPHMENHSCFEHMHIPAPRPEEFHQRSVTLTLRNLKGCCRHQVQIQPF
SSCLNDCLRHSATVSCPEMPDTPEPIPDYMLVPRGSDYKDDDDKG

4I9X

>4I9X:A

PFATADIAEKMWAENYETTSPAPVLVAEGEQVTIPCTVMTHSWPMVSIRARFCRSHDGSDELIL
DAVKGHRLMNGLYRQYRLPYATWNFSQLHLGQIFSLTFNVSTDTAGMYECVLRNYSHGLIMQRF
VILTQLETLSRPDEPCCTPALGRYSLGDQIWSPTPWRLRNHDCGMYRGRFQRNYFYIGRAAED
CWKPACPDEEPDRCWTVIQRYPG

>4I9X:C

QQDLAPQQRAPQQRSSPSEGLCPPGHHISEDGRDCISCKYQDYSTHWNDLLFCLRCTRCD
SGEVELSPCTTTRNTVCQCEEGTFREEDSPEMCRKCRTGCPRGMVKVGDCTPWSDIECVHKES
G

4KT1

>4KT1:A

PPLCAAPCSCDGRRVDCSGKGLTAVPEGLSAFTQALDISMNNITQLPEDAFKNFPFLEELQLA
GNDLSFIHPKALSGLKELKVLTLQNNQLKTVPSEAIRGLSALQSLRLDANHITSVPEDSFEGLVQ
LRHLWLDDNSLTEVPVHPLSNLPTLQALTALNKISSIPDFAFTNLSSLVVLHLHNNKIRSLSQH
CFDGLDNLETLDLNYNNLGEFPQAIKALPSLKELGFHSNSISVIPDGAFDGNPLLRTIHLYDNPL
SFVGNSAFHNLSDLHSLVIRGASMVQQFPNLTGTVHLESLLTGTGKISSIPNNLCQEQKMLRTLD
LSYNNIRDLPFNGCHALEEISLQRNQIYQIKEGTFQGLISLRILDLRNLIIHEIHSRAFATLGPITN
LDVSFNEELTSFPTEGLNGLNQLKLVGNFKLKEALAAKDFVNLRSLSVPYAYQCCAFWGCDSYA
NLNTEDNSLQDHSVAQEKGTAANVTSTLENEEHSQIIHCTPSTGHH

>4KT1:E

ACAKGCELCSEVNGCLKCSPKLFILLERNDIRQVGVCLPSCPPGYFDARNPDMNKCICKIEHC
EACFSHNFCTKCKEGLYLHKGRCPYA

1IAR

>1IAR:A

HKCDITLQEIIKTLNSLTEQKTLCTELTVTDIFAASKNTTEKETFCRAATVLRQFYSHHEKDTRC
LGATAQQFHRHKQLIRFLKRLDRNLWGLAGLNSCPVKEANQSTLENFLERLKTIMREKYSKCS
S

>1IAR:B

FKVLQEPTCVSDYMSISTCEWKMNGPTNCSTELRLLYQLVFLLEAHTCIPENGGAGCVCHL
LMDDVVSADNYTLDLWAGQQLLWKGSEHVKPRAPGNLTVHTNVSDTLLLTWSNPYPPD
NYLYNHLTYAVNIWSENDPADFRIYNTYLEPSLRIAASTLKSGISYRARVRAWAQAYNTTWE
WSPSTKWHNSYREPFEQH

2VE7

>2VE7:A

MIKDPRPLNDKAFIQQCIRQLCEFLTENGYAHNVSMKSLQAPSVKDFLKIFTFLYGFLCPSYELP
DTKFEEEVPRIFKDLGYPFALSKSSMYTVGAPHTWPHIVAALVWLIDCIKIHTAMKESSPLFDDG
QPWGEETEDGIMHNKLF LDYTIKCYESFMSGADSFDEMNAELQSKLKDLEFNVD AFKLESLEA
KNRALNEQIARLEQERSTANKANAERLRLQKSADLYKDRLGLEIRKIYGEKLFIFTNIDPKN
PESPFMFSLHLNEARDYEVSDSAPHLEGLAEFQENVRKTNNFSAFLANVRKAFTATVYQ

>2VE7:C

GPLGSMETLSFPRYNVAEIVHIRNKILT GADGKNLTKNDLYPNPKPEVLHMIYMRALQIVYGIR
LEHFYMMPVNSGVMYPHLMGFLPFSNLVTHLDSFLPICRVNDFETADILCPKAKRTSRFLSGII
NFIHFREACRETYMEFLWQYKSSADKMQQLNAAHQEALMKLERLEKEVDEDTT VTIPTSAVYV
AQLYHQVSKIEWEYECEPGMVKGIIHGPSVAQPIHLDSTQLSRKFISDYLSLVDTEW

1LP1

>1LP1:A

VDNKFNKELSVAGREIVTLPNLNDPQKKA FIFSLWDDPSQSANLLAEAKKLNDAQAPK

>1LP1:B

VDNKFNKEQQNAFYEILHLPNLNEEQRNAFIQSLKDDPSQSANLLAEAKKLNDAQAPK

3GB8

>3GB8:A

MPAINTMLADHAARQLLDFSQKLDINLLDNVNVNCLYHGEGAQQRMAQEV LTHLKEHPDAWT
RVD TILESQNMNTKY YGLQILENVIKTRWKILPRNQCEGIKKYVVG LIKTSSDPTC VEKEKVY
IGKLN MILVQILKQEWPKHWPTFISDIVGASRTSESLCQNNMVILKLLSEEVDFSSGQITQVKS
KHLKDSMCNEFSQIFQLCQFVMENSQNA PLVHATLETLLRFLNWIPLGYIFETKLISTLIYKFLN
VPMFRNVSLKCLTEIAGVSVSQYEEQFVTLFTLTMMQLKQMLPLNTNIRLAYSNGKDDEQNF I
QNLSLFLCTFLKEHDQLIEKRLNLRETLMEALHYMLLVSEVEETE IFKICLEYWNHLAAELYRE
SPFSTSASPLLSGSQHFDVPPRRQLYLPMLFKVRLLMVSRMAKPEEVLV VENDORQGEVVREFMK
DTDSINLYKNMRETLVYLTHLDYVDTERIMTEKLHNQVNGTEWSWKNLNTLCWAIGSISGAM
HEEDEKRFLVTVIKDLLGLCEQKRGKDNKAIASNIMYIVGQYPRFLRAHWKFLKTVVNKLFE
FMHETHDGVQDMACDTFIKIAQKCRHFVQVQVGEVMPFIDEILNNINTIICDLQPQQVHTFYE
AVGYMIGAQT DQTVQEHLIEKYMLLPNQVWDSIIQQATKNVDILKDPETVKQLGSILKTNVRA
CKAVGHPFVIQLGRIYLDMLNVYKCLSENISAAIQANGEMVTKQPLIRSMRTVKRETLKLISGW
VSRSDNPQMVAENFVPPLLDAVLIDYQRNVPAAREPEVLSTMAIIVNKLGGHITAEIPQIFDAVF

ECTLMINKDFEYPEHRTNFFLLQAVNSHCFAFLAIPPTQFKLVLDSIIWAFKHTMRNVADT
GLQILFTLLQNVAQEEAAAQSFYQTYFCDILQHIFSVVTDTSHTAGLTMHASILAYMFNLVEEG
KISTSLNPGNPVNNQIFLQEYVANLLKSAFPHLQDAQVKLFVTGLFSLNQDIPAFKEHLRDFLVQ
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>3GB8:B

SMEELSQLASSFSVSQDLNSTAAPHRLS QYKSKYSSLEQSERRRRLLELQKSKRLDYVNHA
RRLAEDDWTGMESEENKKDDEEMDIDTVKCLKPHYANQLMLSEWLIDVPSDLGQEWIVVV
CPVGKRALIVASRGSTSAYTKSGYCVNRFSSLLPGGNRRNSTAKDYTILDCIYNEVNQTYVVD
VMCWRGHPFYDCQTD FRFYWMHSKLPEEEGLGEKTKLNPFK FVGLKNFPCTPESLCDVLSMD
FPFEVDGLLFYHKQTHYSPGSTPLVGWLRPYMVSDVLGVAVPAGPLTTKPDYAGHQLQQIMEH
KKSQKEGMKEKLTHKA

1Y64

>1Y64:A

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FNVPAMYVAIQAVLSLYASGRRTGIVLDSGDGVTHNVPIYEGYALPHAIMRLDLAGRDLTDYL
MKILTERGYSFVTTAEREIVRDIKEKLCYVALDFENEMATAASSSSLEKSYELPDGQVITIGNERF
RCPETL FQPSFIGMESAGIHETTYNSIMKCDIDIRKDLYANNVMSGGTTMYPGIADRMQKEITAL
APSTMKIKIIPPERKYSVWIGGSILASLSTFQQMWITKQEYDEAGPSIVHRKCF

>1Y64:B

MPASQIKSAVTSPLL PQSPSLFEKYPRPHKCLKQLHWEKLDCTDNSIWGTGKA EK FADDLYEK
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FLQTPSVVEFLSKSEIIEVSVNLARNYAPYSTDWEGVRNLEDAKPPEKDPNDLQRADQIYLQLM
VNLESYWGSRMRALTVVTSYEREYNELLAKLRKVDKAVSALQESDNLRN VFNVILAVGNFMN
DTSKQAQGFKLSTLQRLTFIKD TTNSMTFLNYVEKIVRLNYP SFNDFLSELEPVL DVVKV SIEQL
VNDCKDFSQSIVNVERSVEIGNLS DSSKFHPLDKVLIK TLPVLP EARKKGD LLEDEVKLTIMEFE
SLMHTYGEDSGDKFAKISFFK KFADFINEYKKAQAQNLAAEEEEERLYIKHKKIVEEQK

4JEH

>4JEH:A

MRGSHHHHHHGSVDMAPIGLKAVVGEKIMHDVIKKVKKKGEWKVLVVDQLSMRMLSSCCK
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ALFNELVKSRAAKVIKTLTEINIAFLPYESQVYSLDSADSFQSFYSPHKAQMKNPILERLAEQIAT
LCATLKEYPAVRYRGEYKDNALLAQLIQDKL DAYKADDPTMGEGPDKARSQ LLLILDRGFD PSS
PVLHELTFQAMSYDLLPIENDVYKYETSGIGEARVKEVLLDEDDDLWIALRHKHIAEVSQEVTR
SLKDFSSSKRMNTGEKTTMRDLSQMLK KMPQYQKELSKYSTHLHLAEDCMKH YQGTVDKLC
RVEQDLAMGTDAEGEKIKDPMRAIVPILL DANVSTYDKIRIILLYIFLKN GITEENLNKLIQHAQI
PPEDSEIITNMAHLGVPIVTDSTLRRRSKPERKERISEQTYQLSRWTP IIKDIMEDTIEDKLDTKH
YPYISTRSSASFSTTAVSARYGHWHKNKAPGEYRSGPRLIIFILGGVSLNEMRCAYEVTQANGK
WEVLIGSTHILTPQKLLD TLKKNKTDEEISS

>4JEH:B

MDRDRFMDEFFEQVEEIRGFIDKIAENVEEVKRKHSAILASPNPDEKTKEELEELMSDIKKTAN
KVRSKLKSIEQSIEQEEGLNRSSADLRIRKTQHSTLSRK FVEVMSEYNATQSDYRERCKGRIQR
QLEITGR TTTSEELEDMLESGNPAIFASGIIMDSSISKQALSEIETRHSEIIKLENSIRELHDMFMD
MAMLVESQGEMIDRIEYNVEHAVDYVERAVSDTKKAVKYQSKARRKKI

3K8P

>3K8P:C

GSENIYTTLKFESMMQQRVIQIRSIPEEEYHELVSQFKTDGGKYEKGEKQDLELSEKKTENGGK
DTESWGWENENQDSDEHDGWDEELDIDVDNVPIQVSVFVQSAAKVFTEFEQGC DTIGRSKVESI
YLYKFNLLQTAFFAMVSEKVNDWTQLYKDVRYLYTENPKLLQLMELNSRRLDLNLNLIKKTIIY
KLVNDQLQELKDNERTPDWDITISSLLPYLKK TALPTLYKLEDNTILVALIRYIVHDLVIDNILHW
RVISEKSSENLSEFIMLLL SGLEIPRLNLIETYRHSREKLGILSKILTAHLKDILEMFYEGEFFLFET
DEIVQWILLFADTPTRRDCIDEIRRVREEATD

>3K8P:D

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EGEETDDEDVIVELLESDSSLIPLIESDTTTRSRYHELQEFISKLNKNTLENFEEWLRERILCN
EMIPETPLLYSVLWETAKSKVLSTKFIGWVEGVLKPLDHLNKRLHLIFKINWEKMPDSELFKII
FDGVEDMQGYIGIADVIEDELAPTLSYGKKWETFITEFFNKQQFSLKSDTNYQLFIKLYYSLEK
GVKDNSEASRKLQSNVVDILFHNSENL FNLSSLTHKLELWSILSGFPDEITIEEQKTITALEMK
QFMEFFIKCSTKFSFKEIFAITQEEESAQLAHFSSLCHEEFNKANEISSFLQAMYETVLDISKDDK
IFTRISMDEKLYSILEILLQMNEFAYIEAIIERFDYSNNTQIYELLVKFFWHFFNNASNGLRKEPE
MKKASQTLQIIQKHMSQRAGTNLTKLEVLLEISDKLSHYSINLNKSHNGARDTAFKPSNILEYR
DCPLDIISNLELNPRLYKDLPTTKSLLFGIYDSLINREGQTKGVEVDLMVLHIDYALVNLDG
TAYELGKQVFEICQEAGQHMMKALGDEHWLTFYQMGKFDPNWVDNEIPTEIIVLQMSILGR
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1KXP

>1KXP:A

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FNVPAMYVAIQAVLSLYASGRRTGIVLDSGDGVTHNVPIYEGYALPHAIMRLDLAGRDLTDYL
MKILTERGYSFVTTAEREIVRDIKEKLCYVALDFENEMATAASSSSLEKSYELPDGQVITIGNERF
RCPETLFPQPSFIGMESAGIHETTYNSIMKCDIDIRKDLYANNVMSGGTTMYPGIADRMQKEITAL
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>1KXP:D

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CEAFRKPKEYANQFMWEYSTNYGQAPLSLLVSYTKSYLSMVGSCCTSASPTVCFLKERLQK
HLSLLTTL SNRVCSQYAA YGEKKSRLSNLIKLAQKVPTADLEDV LPLAEDITNILSKCCESASED
CMAKELPEHTVKLCDNLSTKNSKFEDCCQEKTAMDV FVCTYFMPAAQLPELDPVELPTNKDV
CDPGNTKVMKYTFELSRRTHLPEVFLSKVLEPTLTKSLGECDDVEDSTTCFNAKGPLLKKESS
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DSEIDAELKNIL

3MCA

>3MCA:A

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NDEPAFQTNGEVKMKNSSSDNQPEKKKIKKQNP TDLVSVPEIFEQSNPKPVVHLVVTGHVDS
GKSTMLGRIMFELGEINSRSMQKLHNEAANS GKGSFSYAWLLDTTEEERARGVTMDVASTTFE
SDKKIYEIGDAPGHRDFISGMIAGASSADFAVLVVDSSQNNFERGFLENGQ TREHAYLLRALGIS
EIVVSVNKL DLMWSSEDRFQEIKNIVSDFLIK MVGFKTSNVHFVPISAISGTNLIQKDSSDLYKW
YKGP TLLSALDQLVPPEKPYRKPLRLSIDDVYRSPRSVTVTGRVEAGNVQVNQVLYDVSSQED
AYVKNVIRNSDPSTWAVAGDTVTLQLADIEVNQLRPGDILSNYENPVRVRVRSFVAEIQTFDIHG
PILSGSTLV LHLGRTVTSVSLKIVTVNNKRSRHIASRKRALVRISFLDGLFPLCLAE ECPALGRFIL
RRSGDTVAAGIVKELC

>3MCA:B

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VDAACNPSRNAEIGAVVLEGLANICLITDYMTILRQRIDQVIPRKRGRDSSAYQKGLDKFYDS
VFQSINSEFDKDKLVVILASPGFVARGLYDYIFSMVAVKLDLQIVKSKNKFVILHSSTGHIHSL
NEILKDPAVESKLADTKYVQEIRVLNKFYDVMNEDDRKAWYGPNHVLKAFELGAIGELLISDS
LFRSSDIATRKKWVSLVEGVKEINCPVYIFSSLHESGKQLDLLSGIAAILTYPVDEEDISEDEEDE
ESQNF EHS

1EFU

>1EFU:A

KPHVNVGTIGHVDHGKTTLTAAITTVLAKTYGGAARAFDQIDNAPEEKARGITINTSHVEYDTP
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NKCDMVDDEELLELVEMEVRELLSQYDFPGDDTPIVIRGSALKALEGDAEWEAKILELAGFLDS
YIPEPERAIDKPFLPIEDVFSISGRGTVVTRGRVERGIKVGEEVEIVGIKETQKSTCTGVEMFRKL
LDEGRAGENVGVLLRGIKREEIERGQVLAKPGTIKPHTKFESEVYILSKDEGGRHTPPFFKGYRP
QFYFRTTDVTGTIELPEGVEMVMPGDNIKMVVTLIHPIAMDDGLRFAIREGGRTVGAGVVAKV
LS

>1EFU:B

AEITASLVKELRERTGAGMMDCKKALTEANGDIELAIENMRKSGAIKAAKKAGNVAADGVIKT
KIDGNYGIILEVNCQTDVFAKDAQAFADKVLDAAVAGKITDVEVLKAQFEEERVALVAKIGE
NINIRVAALEGDVLSYQHGARIGVLVAAKGADEELVKHIAMHVAASKPEFIKPEDVSAEVVE
KEYQVQLDIAMQSGKPKEIAEKMVEGRMKKFTGEVSLTGQPFVMEPSKTVGQLLKEHNAEVT
GFIRFEVGEIEKVETDFAAEVAAMSKQS

4DI3

>4DI3:A

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TREVFSGDEQRLHKVLSRCTRVDVGTLYWVGTGYVAALFALPLGSALPDTVHAAVMMLERAC
DLWPSYQEGAVWVNLTKFYAAAPESFGGGMEKAHTAFEHLTRYCSAHDPDHHITYADALCIPL
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>4DI3:D

GRKEKVVLKIASIAPARSIWETELKKLSAEWSEITGGLVSMKFYDMSSLGGEREGIRKLKSSRP
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TNAGWLSFYTRAPYASLGLKQKQTIALLSSLDSSVLGTCFRICGFDIKDAPNVRLAPLLKAGSID
GFLSVHLFTWATGFYRISYALDTKICPAVIGMLISDGSWARIPSRYHDAMLQAATVRQRLAN
NLETLDRECSNNIQKAGVSIVHLTPQEIQEWRTFAADV KRIQARLPGMLNMTLYEKIKHLLYS
AQR

3LBX

>3LBX:A

GSGMEQFPKETVVESSGPKVLETAEEIQERRQEVLTRYQSFKERVAERGQKLEDSYHLQVFKR
DADDLGKWIMEKVNILTDKSYEDPTNIQGGKYQKHQSLEAEVQTKSRLMSELEKTRERFTMG
HSAHEETKAHIEELRHLWDLLELTLEKGDQLLRAL

>3LBX:B

GSTADKFRFFSMARDLLSWMESIIRQIETQERPRDVSSVELLMKYHQGINAEIETR SKNF SACLE
LGESLLQRQHQASEEIREKLQQVMSRRKEMNEKWEARWERLRMLLEVVCQFSRDASVAEAWLI
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2ZVO

>2ZVO:A

GSMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQK
ESTLHLVLRRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLED
GRTLSDYNIQKESTLHLVLRRLGG

>2ZVO:B

GSGMQLEDLRQQQLQQAEEALVAKQELIDKLKEEAAQHAIVMETVPVLKAQADIYKADFQAER
HAREKLVEKKEYLQEQLQLQREFNKLKVG

1DKG

>1DKG:A

MSSKEQKTPEGQAPEEIIDQHEEIEAVEPEASAEQVDPREKVANLEAQLAEAQTRERDGLR
VKAEMENLRRRTELDIEKAHKFALEKFINELLPVIDSLDRALEVADKANPDMSAMVEDIELTK
SMLDVVRKFGVEVIAETNVPLDPNVHQAIAMVESDDVAPGNVLGIMQKGYTLNGRTIRAAMV
TVAKAKA

>1DKG:D

MGKIIGIDLGTTNSCVAIMDGTTPRVLENAEGDRTPSIIAYTQDGETLVGQPAKRQAVTNPQNT
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DYLGEVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKGTGNRTIAV
YDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDSRLINYLVEEFKQDQIDLRNDPL
AMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVNRSIELLK
VALQDAGLSVSDIDDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAIGA AVQGGVLT

1H1V

>1H1V:A

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FNVPAMYVAIQAVLSLYASGRTTGIVLDSGDGVTHNVPIYEGYALPHAIMRLDLAGRDLTDYL
MKILTERGYSFVTTAEREIVRDIKEKLCYVALDFENEMATAASSSSLEKSYELPDGQVITIGNERF
RCPETLFQPSFIGMESAGIHETTYNSIMKCDIDIRKDLYANNVMSGGTTMYPGIADRMQKEITAL
APSTMKIKIIPPERKYSVWIGGSILASLSTFQQMWITKQEYDEAGPSIVHRKCF

>1H1V:G

MDDDGTTGQKQIWRIEGSNKVPVDPATYGGFYGGDSYIILYNYRHGGRQGGQIINWQGAQSTQ
DEVAASAILTAQLDEELGGTPVQSRVVQKEPAHLMSLFGGKPMIYKGGTSREGGQTAPASTR
LFQVRANSAGATRAVEVLPKAGALNSNDAFVLKTPSAAYLWVGTGASEAEKTGAQELLRVL
AQPVQVAEGSEPDGFWEALGGKAAYRTSPRLKDKKMDAHPRLFACSNKIGRFVIEEVPGELM
QEDLATDDVMLLDTWDQVFWVVGKDSQEEKTEALTSAKRYIETDPANRDRRTPITVVKQGF
EPPSFVGVFLGWDDDYWS

3QML

>3QML:A

GMSHASADDVENYGTVIGIDLGTTYSCVAVMKNKGKTEILANEQGNRITPSYVAFTDDERLIGD
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EEISGMILGKMKQIAEDYLGTKVTHAVVTVPAYFNDAQRQATKDAGTIAGLNVL RIVNEPTAA
AIAYGLDKSDKEHQIIVYDLGGGTFDVSLLSIENGVEVQATSGDTHLGGEDFDYKIVRQLIKA
FKKKHGIDVSDNNKALAKLKREA EKAKRALSSQMSTRIEIDSFVDGIDLSETLTRAKFEELNLD
LFKKTLKPVEKVLQDSGLEKKDVDDIVLVGGSTRIPKVQQLLESYFDGKKASKGINPDEAVAY
GAAVQAGVLS

>3QML:C

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IITHEFALLANLSLNLNPLTLRELSTRVITSCLRNPPVVEFINESFPNFKSKIMAALSNLND SNH
RSSNILIKRYLSILNELPVTSEDLPIYSTVVLQNVYERNNKDKQLQIKVLELISKILKADMYEND
DTNLILFKRNAENWSSNLQEWANEFQEMVQNKSIDELHTRTFDTLYNLKKIFKSDITINKGFL
NWLAAQQCKARQSNLDNGLQERDTEQDSFDKKLIDSRHLIFGNPMAHRIKNFRDEL

4EOZ

>4EOZ:A

GSNMVKVPECRLADELGGLWENS RFTDCCLCVAGQEFQAHKAILAARSPVFSAMFEHEMEE S
KKNRVEINDVEPEVFKEMMCFIYTGKAPNLDKMADDLLAAADKYALERLKVMCEDALCSNL
SVENAAEILILADLHSADQLKT

>4EOZ:B

GSAFPMTMDEKYVNSIWDL LKNAIQEIQRKNNSGLSFEELYRNAYTMVLHKGHEKLYTGLRE
VVTEHLINKVREDVLNSLNNN FLQTLNQA WNDHQ TAMVMIRDILMYMDRVYVQQNNVENV
YNLGLIIFRDQVVRYGCIRDHLRQTLLDMIARERKGEVVDRG AIRNACQMLMILGLEGRSVYE
EDFEAPFLEMSAEFFQMESQKFLAENSASVYIKKVEARINEEIERVMHCLDKSTEEPIVKVVER
ELISKHMKTIVEMENSGLVHMLKNGKTEDLGCMYKLF SRVPNGLKTMCECMSSYLREQGKAL
VSEEGEGKNPVDRQGLDDLKSRFDRFLLESFNNDRLFKQTIAGDFEYFLNLN

2QNA

>2QNA:A

SPELIPQLVANVTNPNSTEHMKESTLEAIGYICQDIDPEQLQDKSNEILT AIIQGMRKEEPSNNVK
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YMGPALFAITIEAMKSDIDEVALQGIEFWSNVCDEEMDLAIEASEAAEQGRPPEHTSKFYAKGA
LQYLVPILTQTLTKQDENDDDDDWNPCKAAGVCLMLLATCCEDDIVPHVLPFIKEHIKNPDWR
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DVYLAPLLQCLIEGLSAEPRVASNVCWAFSSLAEAAEYEAADVADDQEEPATYCLSSSFELIVQKL
LETTDRPDGHQNNLRSSAYESLMEIVKNSAKDCYP AVQKTTLVIMERLQQVLQMESHISTSD
RIQFNDLQSLLCATLQNVLRKVQH QDALQISDVVMA SLLRMFQSTAGSGGVQEDALMAVSTL
VEVLGGEFLKYMEAFKPFLGIGLKNYAEYQVCLA AVGLVGDLCRALQSNIPFCDEVMQLLLE
NLGNENVHRSVKPQILSVFGDIALAIGGEFKKYLEVVLNTLQQASQAQVDKSDYDMVDYLNE
LRESCLEAYTGIVQGLKGDQENVHPDVMLVQPRVEFILSFIDHIAGDEDHTDGVVACAAGLIGD
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>2QNA:B

MEELSQUALASSFSVSQDLNSTAAPHRLS QYKSKYSSLEQSERRRRLLELQSKRLDYVNHAR
RLA

3OUX

>3OUX:A

GSHAVVNLINYQDDAELATRAIPELTKLLNDEDQVVVNKA AVMVHQLSKKEASRHAIMRSPQ
MVS AIVRTMQNTNDVETARCTAGTLHNL SHHREGLLAIFKSGGIPALVKMLGSPVDSVLFYAIT
TLHNLLLHQEGAKMAVRLAGGLQKMVALLNKTNVKFLAITTDCLQILAYGNQESKLIILASGG
PQALVNIMRTYTYEKLLWTTSRVLKVL SVCSSNKPAIVEAGGMQALGLHLTDPSQRLVQNCLW
TLRNLSDAATKQEGMEGLLGT LVQLLGSDDIN VVTCAAGILSNLTCNNYKNKMMVCQVGGIE
ALVRTVLRAGDREDITEPAICALRHLSRHQEAEMAQNAVRLHYGLPVVVKLLHPPSHWPLIKA
TVGLIRNLALCPANHAPLREQGAIPRLVQLLVRAHQDTQRRTSMGGTQQQFVEGV RMEEIVEG
CTGALHILARDVHN RIVIRGLNTIPLFVQLLYSPIENIQRVAAGVLC ELAQDKEAAEAIEAEGAT
APLTELH SRNEGVATYAAAVLFRMSEDKPQDYK

>3OUX:B

GAMGMPQLSGGGGGGDPPELCADEMIPFKDEGDPQKEKIFAEISHPEEEGDLADIKSSLVNESEI
IP

2IOU

>2IOU:A

VQFRGGTTAQHATFTGAAREITVDTDKNTVVVHDGATAGGFPLARHDLVKTAFIKADKSAVAF
TRTGNATASIKAGTIVEVNGKLVQFTADTAITMPALTAGTDYAIYVCDDGTVRADSNFSAPTGY
TSTTARKVGGFHYAPGSNAAAQAGGNTTAQINEYSLWDIKFRPAALDPRGMTLVAGAFWADIY
LLGVNHLTDGTSKYNVTIADGSASPKKSTKFGGDGSAAYS DGAWYNFAEVMTHHGKRLPNY
NEFQALAFGTTEATSSGGTDVPTTG VNGTGATSAWNIFTSKWGVVQASGCLWTWGNEFGGVN
GASEYTANTGGRGSVYAQPAAALFGGAWNGTSLSGSRAALWYSGPSFSFAFFGARGVCDHLIL

>2IOU:G

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GQLFDEGVRRFLGTVTVKAGKLVADHATLANVSDTRDDD GIALYVAGEQAQASIADSTLQGA
GGVRVERGANVTVQRSTIVDGGHLIGTLQPLQPEDLPPSRVVLGDTSVTAVPASGAPAAVSVFG
ANELTVDGGHITGGRAAGVAAMDGAIVHLQRATIRRGDAPAGGAVPGGAVPGGAVPGGFGPL
LDGWYGVVDVSDSTVDLAQSIVEAPQLGAAIRAGRGARVTVSGGSL SAPHGNVIETGGGARRFP
PPASPLSITLQAGARAQGRALLYRVLPEPVKLTLAGGAQGGDIVATEL PPIPGASSGPLDVALA
SQARWTGATRAVDSL SIDNATWVMTDNSNVGALRLASDGSVDFQQPAEAGRFKVLMVDTLA
GSGLFRMNVFADLGLSDKLVV MRDASGQHRLWVRNSGSEPASANTMLLVQTPRGSAAFTLA
NKDGKVDIGTYRYRLAANGNGQWSLVGAKAPP

2JKI

>2JKI:A

HHHHHHMATE TETFAFQAEINQLLSLIINTFY SNKEIFLRELISNSSDALDKIRFESLTDKSKLDA
QPELFIHIIPDKATSTLTIVDSGIGMTKSDLVNNLGTIARSGTKEFMEALAAGADVSMIGQFGVG
FYSAYLVAERVVVTTKHNDDEQYVWESQAGGSFTVTRDTSGEQLGRGTKMVLYLKDDQMEY
LEERRIKDLVKRHSEFISYPISLWTEKTTEK

>2JKI:S

KYRHEYYQKPEEVVVTVFAKGIPKQNVNIDFGEQILSVVIEVPGEDAYYLQPRLFGKIIPDKCK
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3GTY

>3GTY:S

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IKKKEDTHRMAEANRAFAHYRW

>3GTY:X

MEVKELERDKNRVVLE YVFGAEEIAQAEDKAVRYLNQRVEIPGFRKGRIPKNVLKMKLGEEFQ
EYTLDFLMDLIPDTLKDRLKILSPIVTERELKDVTARVVVEVHEEPEVRIGDISKIEVEKVDEEK
VLEKYVERRIEDLRESHALLEPKEGPAEAGDLVRVNMEVYNEEGKKLTSREYEVYVISED RPF
VKDLVGKKKGDVVEIEREYEGKKYTYKLEVEEVYKRTLPEIGDELAKSVNNEFETLEQLKESL
KKEGKEIYDVEMKESMREQLLEKLPEIVEIEISDRTLEILVNEAINRLKREGRYEQIVSSYESEEK
FREELKERILDDIKRDRVIEVLAQEKGISVNDEELEKEAEELAPFWGISPDRAKSLVKARQDLRE
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3OKY

>3OKY:A

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SSVNKTGTMYGVIVRSEGEDGKLFIGTAVDQKQDYFPTLSSRKLPRDPESAMLDYELHSDFVS
SLIKIPSDTLALVSHFDIFYIYGFASSGGFVYFLTVPETPDGMAINSAGDLFYTSRIVRLCKDDPK
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ALCAFPRAINLQIKERLQSCYHGEGNLELNWLLGKDVQCTKAPVPIDDNFCGLDINQPLGGST
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PILRDMAFSINQLYLYVMSERQVTRVPVESCEQYTTTCGECLSSGDPHCGWCALHNMCSRDKC
QRAWANRFAASISQCMSLEVHPNSISVSDHSRLLSLVNDAPNLSEGIACAFGNLTEVEGQVS
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>3OKY:B

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PSCRNYRVDLTLETFGDEFSGMARCPYDAKHANIALFADGKLYSATVTDFLAIDAVIYRSLGDS
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VLEKQWTSFLKARLNCVPGDShFYFNILQAVTDVIRINGRDVVLATFSTPYNSIPGSAVCAYD
MLDIANVFTGRFKEQKSPDSTWTPVDERVPKPRPGCCAGSSSLEKYATSNEFPDDLNFIKTHP
LMDEAVPSIINRPWFLRTMVRYRLTKIAVDNAAGPYQNHTVVFLGSEKGIILKFLARIGSSGFLN
GSLFLEEMNVYNPEKCSYDGVEDKRIMGMQLDRASGSLYVAFSTCVIKVPLGRRCERHGKCKK
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1TH1

>1TH1:A

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LHNLLLHQEGAKMAVRLAGGLQKMVALLNKTNVKFLAITTDCLQILAYGNQESKLILASGGP
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LVRTVLRAGDREDITEPAICALRHLSRHQEAEMAQNAVRLHYGLPVVVKLLHPPSHWPLIKAT
VGLIRNLALCPANHAPLREQGAIPRLVQLLVRAHQDTQRRTSMGGTQQQFVEGVRMEEIVEGC
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LTELLHSRNEG VATYAAAVLFRMSE

>1TH1:C

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4ETP

>4ETP:A

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VGQLVQSSLDGYNVAIFAYGQTGSGKTFTMLNPGDGIIPTISHIFNWINKLKTGWWDYKVNAAE
FIEIYNENIVDLLRSDNNNKEDTSIGLKHEIRHDQETKTTTTITNVT SVKLESEEMVEIILKKANKL
RSTASTASNEHSSRSHSIFIIHLSGSNAKTGAHSYGTNLVLDLAGSERINVSQVVGDRLETRQNI
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FASKVNSTRLVSRK

>4ETP:B

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LKFEKHSISLDSKLVIIENGLDPLNFSADEHPNLPHSGMGIKQVFFPRDSKSDGNNDPVPVDF
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AKRKKKLT

3NVN

>3NVN:A

PGTSIEWHKFETSEIIISTYLIDDVLYTG VNGAVYTFSNNELNKTGLTNNNNYITTSIKVEDTLVC
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YDLYTADNVIPKDGVRGAFVDKDGTYDKVYILFTDTIDTKRIVKIPYIAQMCLNDEGGPSSLSS
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KLGGYTKQLPSPAPGICLPAGKVVPHTTFDIIIEQYNELDDIIKPLSQPIFEGPSGVKWFDIKEKEN
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>3NVN:B

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TAGVVYRAGRNNRWYLAVAATYVLPEPETASRCNPAASDHDTAIALKDTEGRSLATQELGRLK
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HPDGRRLLLSSSLVEALDVWAGVFSAAAGEGQERRSPTTTALCLFRMSEIQARAKRVSWDFKT
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1W1W

>1W1W:A

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SKSATESIKNRRRIHGELKTYKSPGLEVLFFQGPRGSRIDEAEGRFEVINNETEQLKAEKKILNQ
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TPPLKRFKMEYLSGGEKTVAALALLFAINSYQSPFFVLDEVDAALDITNVQRIAAYIRRRHRNP
DLQFIVISLKNMFEKSDALVG VYRQQQENS SKIITLDSLNYAE

>1W1W:E

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2BYK

>2BYK:A

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DDEESESESESEDE

>2BYK:B

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3CQC

>3CQC:A

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SIAEIYNQCEEQGMESPLPAEDDNAIREHL CIRAYLEAHETFNEWFKHMNSV P Q K PALIPQPTFT
EKVAHEHKEK KYEMDFGIWKGHLDALTADVKEKMYNVLLFVDGGWMVDVREDAKEDHERT
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SSLMLLDQGLDPLGYEIQ L

>3CQC:B

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EYIDEEEDININDLKLEILCKALQRDNWSSSDGKDDPIEVSKDSIFVKILQKLLKDG I Q L S E Y L P E
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3KBT

>3KBT:A

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ISEKELVASSPEMGQDFDHVTLLRDKFRDFARETGAIGQERVDNVNAFIERLIDAGHSEAAATIAE
WKDGLNEMWADLLELIDTRMQLLAASYDLHRYFYTGAEILGLIDEKHRELPE D V G L D A S T A E S
FHRVHTAFERDVHLLGVQVQQFQDVATRLQTAYAGEKAEAIQNKEQEVSAAWQALLDACAGR
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>3KBT:C

SNATGFLVSFMVDARGGSMRGSRHNGLRVVIPRPTCAAPTRITCRLVKPQKLSTPPPLAEE E G L
ASRIIALGPTGAQFLSPVIVEIPHFA SHGRGDRELVVLRSENGSVWKEHRSRYGESYLDQILNGM
DEELGSLEELEKKRVCRIITTD F P L Y F V I M S R

3SF4

>3SF4:A

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AKALEYHHHDLTLARTIGDQLGEAKASGNLGNLTKVLGNFDEAIVCCQRHLDISRELNDK V G E
ARALYNLGNVYHAKGKSFGCPGPQDVGEFPEEVRDALQAAVDFYEENLSLVTALGDRAAQGR
AFGNLGNTHYLLGNFRDAVIAHEQRLLIAKEFGDKAAERRAYSNLGNAYIFLGEFETASEYYK
KTL LL ARQLK D R A V E A Q S C Y S L G N T Y T L L Q D Y E K A I D Y H L K H L A I A Q E L N D R I G E G R A C W S L
GNAYTALGNHDQAMHFAEKHLEISREVGDKSGELTARLNLSDLQMV L G L S Y S T N N S I M S E N T E
IDSSLNGVRPKLGRRHSMENMELM K L T P E K

>3SF4:D

GPLGSMQVDSVQRWMEDLKLMT E C E C M C V L Q A K P I S L E E D A Q G D L I L A G G P G

2C0L

>2C0L:A

HPQPFE E G L R R L Q E G D L P N A V L L F E A A V Q Q D P K H M E A W Q Y L G T T Q A E N E Q E L L A I S A L R R C L E
LKPDNQTALMALAVSFTNESLQRQACEILRDWLRYTPAYAHLVTPAEEGAGGAGLGPSKRILGS
LLSDSLFLEVKELFLAAVRLDPTSIDPDVQCGLGVLFNLSGEYDKAVDCFTAALSVRPNDYLLW
NKL G A T L A N G N Q S E E A V A A Y R R A L E L Q P G Y I R S R Y N L G I S C I N L G A H R E A V E H F L E A L N M Q R K S
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>2C0L:B

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2PMS

>2PMS:A

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NVPIGTLRPFLNWTGPPEPIEA AVARFFSASCVPGADKGFQPNLCRLCAGTGENKCAFSSQEPYF
SYSGAFKCLRDGAGDVAFIRESTVFEDLSDEAERDEYELLCPDNTRKPVDFKDKCHLARVPSH
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LYLGSYFTAQNLRLKSEEEVAARRA

>2PMS:C

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EELSDKIDELDAEIAKLEDQLKAAEENNNVEDYFKEGLEKTIAAKKAELEKTEADLKKAVNE

2PKG

>2PKG:A

LYPIAVLIDELRNEDVQLRLNSIKKLSIALALGVERTRESELLPFLTDTIYDEDEVLLALAEQLGT
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WFTSRTSACGLFSVCYPRVSSAVKAELRQYFRNLCSDDTPMVRRAAASKLGEFAKVLELDNV
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EVIGIRQLSQSLLPAIVELAEDAKWRVRLAIIYEMPLLQGLGVEFFDEKLNLSLMAWLVDHVY
AIREAATSNLKKLVEKFGKEWAHATIIPKVLAMSGDPNYLHRMTTLFCINVLSEVCGQDITTKH
MLPTVLRMAGDPVANVRFNVAKSLQKIGPILDNSTLQSEVKPILEKLTQDQDQDVVKYFAQEAL
TVLSLA

>2PKG:C

SLNPGVDAMYCKQWPECAKKMSANCICLLCLLRMKHENRKLYRKDPLVWVDCYCFDCFRM
WFGLDLCEGTLWWCDIIGQTTYRDLKL

2ZXX

>2ZXX:A

TQEAFDLISKENPSSQYWKEVAEQRRKALYEALKENEKLHKEIEQKDSEIARLRKENKDLAEV
AEHVQYMAEVIERLSN

>2ZXX:C

TEQPCVEKAPAYQRFHALAQGPLPGLVLPYKYQVLVEMFRSMDTIVSMLHNRSETVTFKVK
QGVQEMMRKRFEERNVGGIKTVYPTSYRFRQECNVPTFKDSIKRSDYQLTIEPLLQGEAGGAT
QLTATCLLQRRQVFRQNLVERVKEQHKVFLASLNPPMAVPDDQLTRWHPRFNVDEVPDIEPAE
LPQPPVTEK

2BTF

>2BTF:A

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TFNTPAMYVAIQAVLSLYASGRTTGIVMDSGDGVTHTVPIYEGYALPHAILRLDLAGRDLTDYL
MKILTERGYSFTTTAEREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPDGQVITIGNERF
RCPEALFQPSFLGMESCGIHETTFNSIMKCDVDIRKDLYANTVLSGGTMYPGIADRMQKEITA
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>2BTF:P

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KKCYEMASHLRRSQY

2HQS

>2HQS:A

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TASDEVFEKLTGIKGAFRTRIAVYVQTNGGQFPYELRVSDYDGYNQFVVHRSPQPLMSPAUSP
DGSKLAYVTFESGRSALVIQTLANGAVRQVASFPRHNGAPAFSPDGSKLAFALSKTGSLNLYVM
DLASGQIRQVTDGRSNTEPTWFPDSQNLAFTSDQAGRPQVYKVNINGGAPQRITWEGSQNQ
DADVSSDGKFMVMVSSNGGQHQIAKQDLATGGVQVLSSTFLDETTPSLAPNGTMVIYSSSQGM
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>2HQS:C

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3TU3

>3TU3:A

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NRLHDRLREGHSRLVPLLEPTGELVPAQIQTSALVFV

>3TU3:B

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VPLKSERGDFSGMLGGTLNFTMPDEIKAHLQERLQERVGEHLEKRLQASERHTFASLDEALLA
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LADTPERLAWLAAELNHADNVDHQQLLDAMRGQTVQSPVLAALAEAQRRKVAVIAENIRK
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2KGX

>2KGX:A

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YTAKEAGGNPKQAAHTQEAL EEA VQMMTEAVEDLTTTLNEAASAAG

>2KGX:B

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2J8S

>2J8S:A

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EKSSSSFLMVVGVINTDGTMTQEDISDYVAANMKDAISRTSGVGDVQLFGSQYAMRIWMNPN
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DGSRVLLRDVAKIELGGENYDIIAEFNGQPASGLGIKLATGANALDTAAAIRAELAKMEPFFPSG
LKIVYPYDTPPFVKISIEHVVKTLVEAIIIVFLVMYLFQNFNFRATLIPTIAPVVLGTFVLAFAFG

FSINTLTMFGMVLAIGLLVDDAIVVVENVERVMAEEGLPPKEATRKS MGQIQGALVGIAMVLS
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WFNRMFEKSTHHYTDSVGGILRSTGRYLVLYLIIVVGMAYLFVRLPSSFLPDEDQGVFMTMVQ
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VKKVYVMSEAKYRMLPDDIGDWYVRAADGQMVPFSAFSSSRWEYGSPRLERYNGLPSMEIL
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LYESWSIPFSVMLVPLGVIGALLAATFRGLTNDVYFQVGLTTIGLSAKNAILIVEFAKDLMDK
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>2J8S:D

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LEIVEVLLKNGADV NAYDTLGSTPLHLAAHFGHLEIVEVLLKNGADVNAKDDNGITPLHLAA
NRGHLEIVEVLLKYGADVNAQDKFGKTAFDISINNGNEDLAEILQKLN

2L0T

>2L0T:A

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQLIFAGKQLEDGRTLSDYNIQKEST
LHLVLRRLRG

>2L0T:B

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3CQX

>3CQX:A

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SSMVLTKMKEIAEAYLGKTVTNAVVTVPAYFNDSQRQATKDAGTIAGLNVLRIINEPTAAAIAY
GLDKKVGAEARNVLIFDLGGGTFDVSILTIEDGIFEVKSTAGDTHLGGEDFDNRMVNH FIAEFKR
KHKKDI SENKRAVRRLRTACERAKRTLSSTQASIEIDSLYEGIDFYTSITRARFEELNADLFRGT
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AILS

>3CQX:C

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4G6U

>4G6U:A

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VSGLLLVKDITKAAISFMSRNTATATVNASEIGMQWGQGNMKQGMPWEDYVGKSLPADARLP
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>4G6U:B

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1VG0

>1VG0:A

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SAQSAEAAEAAETSCLPTAVEPLSMGSCEIPAEQSQCPESSPEVNDAEATGKKENSDAKSSTE
EPSENVPKVQDNTETPKKNRITYSQIIEGRRFNIDLVSKLLYSRGLLIDLLIKSNVSRYAETFKNIT
RILAFREGTVEQVPCSRADVFNKQLTMVEKRMLMKFLTFCVEYEEHPDEYRAYEGTTFSEYL
KTQKLTPLNLQYFVLHSIAMTSETTSCTVDGLKATKKFLQCLGRYGNTPFPLPLYGQGELPQCFC
RMCVAVGGIYCLRHSVQCLVVDKESRKCKAVIDQFGQRIISKHFIIEDSYLSENTCSRVOYRQIS
RAVLITDGSVLRDADQQVSILTVPAEPPGSFAVRVIELCSSTMTCMKGTYLVLHLCMSSKTARE
DLERVVQKLFTPYTEIEAENEQVEKPRLLWALYFNMRDSSDISRDCYNDLPSNVYVCSGPDGSL
GNDNAVKAETLFFQQICPNEDFCAPPNPEDIVLDGDSSQQEVPESSVTPETNSETPKESTVLGN
PEEPSE

>1VG0:B

MTRSKKVLKVIILGDSGVGKTSMLNQYVNNKFSNQYKATIGADFLTKEVMVDDRLVTMQIW
DTAGQERFQSLGVAFYRGADCCVLVFDVTAPNTFKTLDSWRDEFLIQASPRDPENFPFVVLGN
KIDLENRQVATKRAQAWCYSKNNIPYFETSAKEAINVEQAFQTIARNALKQETEVELYNEFPEPI
KLDKNERAKASAESCSC

4HCP

>4HCP:A

SGRPLKHRVTLRKATLASLMQSLSGESSNRVMWNDRYDTLLIARDPREIKNAIEKSVTDFGGLE
NYKELTGADPFALMTPVAGLSANNIFKLMTEKDVPIDPTSIEYLENTSFAEHVNTLDSHKNYV
VIVNDGRLGHKFLIDLPAQTGPRTAYIIQSDLGGALPAVRVEDWISRRGSDPVSLDELNQLLS
KDFSKMPDDVQTRLLASILQIDKDPHKVDIKLHLDGKLRFASHEYDFRQFQRNAQYVAGLG

>4HCP:B

AAMLIKVKTLTGKEIEIDIEPTDKVERIKERVEEKEGIPPQQRLIYSGKQMNDEKTAADYKILG
GSVLHLVLALRGG

4KBB

>4KBB:A

MGSSHHHHHSSGLVPRGSHMASMSEILNNIILNRYKDNLIDLSGYGAKVEVYDGVLEN
DKNQFKLTSSANSKIRVTQNNIIFNSVFLDFSVSFWIRIPKYKNDGIQNYIHNEYTIINCMKNNS
GWKISIRGNRIIWLIDINGKTKSVFFEYNIREDISEYINRWFFVTITNNLNNAKIYINGKLESNTD
IKDIREVIANGEIIFKLDGIDIRTQFIWMKYFSIFNTELSQSNIEERYKIQSYSEYLKDFWGNPLM
YNKEYYMFNAGNKNSYIKLKKDSPVGEILTRSKYNQNSKYINYRDLYIGEKFIIIRKSNSQSIND
DIVRKEDIYLDFFNLNQEWRVYTYKYFKKEEKLFLAPISDSDEFYNTIQIKEYDEQPTYSCQL
LFKKDEESTDEIGLIGIHRFYESGIVFEEYKDYFCISKWYLKEVKRKPYNLKLGCNWQFIPKDE
GWTE

>4KBB:C

EGWTENQEPNVAPATTTATMPLAPVAPADNSTESTGPGESQEDMFAKLKEKFFNEINKIVLEHH
HHHH

1USU

>1USU:A

GPTKPLWTRNPSDITQEEYNAFYKXISNDWEDPLYVKHFSVEGQLEFRAILFIPKRAPFDLFESK
KKKNNIKLYVRRVFITDEAEDLIPEWLSFVKGVVDSIDLPLNLSREMLQQNKIMKVIKRNIVKK
LIEAFNEIAEDSEQFEKFYSAFSKNIKLGVDHEDTQNRALAKLLRYNSTKSVDELTSLTDYVTR

MPEHQKNIYYITGESLKSVEKSPFLDALKAKNFEVLFLTPIDEYAFTQLKEFEGKTLVDITKDF
EL

>1USU:B

MRGSHHHHHHGMASMVVNNPNNWHWVDKNCIGWAKEYFKQKIVGVEAGSVKDCKYAKIK
SVSSIEGDCEVNQRKGKVISLFDLKITVLIIEGHVDSKDGSALEPFEVSINVPEVAFDSEASSYQFDI
SIFKETSESEAKPLIRSELLPKLRQIFQQFGKDLLATHGNDIQV

1RKE

>1RKE:A

HHHHMPVFHTRTIESILEPVAQQISHLVIMHEEGEVDGKAIPDLTAPVAAVQAAVSNLVRVGKET
VQTTEDQILKRDMPFAFIKVENACTKLVQAAQMLQSDPYSVPARDYLIDGSRGILSGTSDLLLT
FDEAEVRKIIRVCKGILEYLTVAEVVETMEDLVTYTKNLGPGMTKMAKMIDERQQELTHQEHR
VMLVNSMNTVKELLPVLISAMKIFVTTKNSKNQGIEEALKNRNFTVEKMSAEINEIIRVLQ LTS
WDEDAW

>1RKE:B

DEEFPEQKAGEVINQPMMAARQLHDEARKWSSKGNIIAAAKRMALLMAEMSRLVRGGSG
TKRALIQCAKDIASDEVTRLAKEVAKQCTDKRIRTNLLQVCERIPTISTQLKILSTVKATMLG
RTNISDEESEQATEMLVHNAQNLMOQSVKETVREAEAASIKIRTDAGFTLRWVRKTPWYQ

3Q4F

>3Q4F:A

MEELEQGLLMQPWAWLQLAENSLAKVFITKQGYALLVSDLQQVWHEQVDTSVVSQRAKEL
NKRLTAPPA AFLCHLDNLLRPLLKDA AHPSEATFSCDCVADALILRVRSELSGLPFYWNFHCML
ASPSLVSQHLIRPLMGMSLALQCQVRELATLLHMKDLEIQDYQESGATLIRDRLKTEPFEEENSFL
EQFMIEKLPEACSIGDGKPFVMNLQDLYMAVTTQH HHHHHH

>3Q4F:C

MSYYHHHHHHLESTSLYKKAGFENLYFQGMERKISRHLVSEPSITHFLQVSWEKTLESGFVITL
TDGHSAWTGTVSESEISQEADDMAMEKGYV GELRKALLSGAGPADVYTFNFSKESCYFFFE
KNLKDVSFRLGSFNLEKVENPAEVIRELICYCLDTIAENQAKNEHLQKENERLLRDWND

1TBA

>1TBA:A

EGSIGNGLDLTGILFGNIDSEGRLQDDDGEGRGGTGFD AELRENIGSLSKLGLDSMLLEVIDLK
EA

>1TBA:B

SGIVPTLQNI VATVTLGCRLDLKTVALHARNAEYNPKRFAAVIMRIREPKTTALIFASGKMVVTG
AKSEDDSKLASRKYARIIQKIGFAAKFTDFKI QNIVGSCDVKFP IRLEGLAFSHGTFSSYEPFLP
GLIYRMVKPKIVLLIFVSGKIVLTGAKQREEIYQAFEAIYPVLSEFRKM

3GNI

>3GNI:A

MPFPFGKSHKSPADIVKNL KESMAVLEKQDISDKKA EKATEEVSKNLVAMKEILYGTNEKEPQT
EAVAQLAQELYNSGLLSTLVADLQLIDFEGK KDVAQIFNNILRRQIGTRTPTVEYICTQQNILFML
LKGYESPEIALNCGIMLRECIRHEPLAKIILWSEQFYDFRYVEMSTFDIASDAFATFKDLLTRHK
LLSAEFLEQHYDRFFSEYEKLLHSENYVTKRQSLKLLGELLLDRHNFTIMTKYISKPENL KLM
MNLLRDKSRNIQFEAFHVFKVFVANPNKTQPILDILLKNQAKLIEFLSKFQNDRTED EQFNDEK
TYLVKQIRDLKRPAQQA

>3GNI:B

>2XB6:A

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SWTGIRNTTQFAAVCPQHLDERSLLHDMLPIWFTANLDTLMTYVQDQNECLYLNIYVPTEDD
IHDQNSKKPVMVYIHGGSYMEGTGNMIDGSILASYGNVIVITINYRLGILGFLSTGDQAAKGN
GLLDQIQALRWIEENVGAFGGDPKRVTFGSGAGASCVSLTLSHYSEGLFQKAIQSGTALSSW
AVNYQPAKYTRILADKVGCMMLDTTDMVECLRNKNYKELIQQTTIPATYHIAFGPVIDGDVIPD
DPQILMEQGEFLNYDIMLGVNQGEGLKFVDGIVDNEDGVTPNDFDFSVSNFVDNLYGYPEGK
DTLRETIKFMYTDWADKENPETRRKTLVALFTDHQWVAPAVATADLHAQYGSPTYFYAFYHHC
QSEMKPSWADSAHGDEVYVFGIPMIGPTELFSCNFSKNDVMLSAVVMTYWTNFAKTGDPNQ
PVPQDTKFIHTKPNRFEEVAWSRYNPKDQLYLHIGLKPRVRDHYRATKVAFWLELVPHLHNLN
EIFQYVSTTTKVPPDMT

>2XB6:C

GGHAGTTYIFSKGGGQITYKWPPNDRPSTRADRLAIGFSTVQKEAVLVRVDSSSGLGDYLELHI
HQGKIGVKFNVGTDDIAIEESNAIINDGKYHVVRFRTRSGGNATLQVDSWPVIERYPAGRQLTFN
SQATIIIGGKEQGQPFQGLSGLYYNGLKVLNMAAENDANIAIVGNVRLV

4ASW

>4ASW:A

MAHHHHHHVDDDDMMSASKEEIAALIVNYFSSIVEKKEISEDGADSLNVAMDCISEAFGFERE
AVSGILGKSEFKGQHLADILNSASRVPE

>4ASW:C

DNAAVHLTLKKIQAPKFSIEHDFSPSDTILQIKQHLISEEKASHISEIKLLLKGKVLHDNLFLSDL
KVTPANSTITVMIKPNP

4IU3

>4IU3:A

MTHHHHHHAMALTDRGMTYDLDPKDGSSAATKPVLEVTKKVFDTAADAAGQTVTVEFKVS
GAEGKYATTGYHIYWDERLEVVAATKTGAYAKKGALEDSSLAKAENNGNGVVASGADDDF
GADGVMWTVLKVPAKAGDVYPIDVAYQWDPKGLFTDNKDSAQGLMQAYFFTQGIK
SSSNPSTDEYLVKANATYADGYIAIKAGEP

>4IU3:B

MGSSNTVTSVKTQYVEIESVDGFYFNTEKFDTAQIKKAVLHTVYNEGTYGDDGVAVVREY
ESEPVDITAELTFGDATPANTYKAVENKFDYEIPVYNNATLKDAGNDATVTVYIGLKGDTDL
NNIVDGRDATATLTYAATSTDGKDATTVALSPSTLVGGNPESVYDDFSAFLSDVKVDAGKELT
RFAKKAERLIDGRDASSILTFYTKSSVDQYKDMAANEPNKLWDIVTGDAEEE

1IB1

>1IB1:A

MDKNELVQKAKLAEQAERYDDMAACMKSVEQGAELSNEERNLLSVAYKNVVGARRSSWR
VVSSIEQKTEGAEKQMMAREYREKIETELRDICNDVLSLLEKFLIPNASQAESKVFYLMKMG
DYYRYLAEVAAGDDKKGIVDQSQAYQEAFAEISKKEMQPTHPIRLGLALNFSVFYIEILNSPEK
ACSLAKTAFDEAIAELDTLSEESYKDSTLIMQLLRDNLTLWTSDTQGDEAEAGEGGEN

>1IB1:E

STPSVHCLKPSPLHLPSGIPSPGRQRRHTLPANFRCLTPEDAAGVFEIEREAFISVSGNCPLNL
DEVQHFLTLCPESLGFVEGRLVAFIIGSLWDEERLTQESLALHRPRGHS AHLHALAVHRSFR
QQGKGSVLLWRYLHHVGAQPAVRRAVLMCEDALVPFYQRFQGFHPAGPCAIVVGSFTFEMHC
SLRGHAAL

1SQ0

>1SQ0:A

MEDISEPPLHDFYCSRLLDLVFLLDGSSRLSEAEFEVLKAFVVDMMERLRISQKWVRVAVVEY
HDGSHAYIGLKDRKRPELRRIASQVKYAGSQVASTSEVLKYTLFQIFSKIDRPEASRIALLLMA
SQEPQRMSRNFVRYVQGLKKKKVVIVIPVGIGPHANLKQIRLIEKQAPENKAFVLSSVDELEQQR
DEIVSYLCDLAPEAPPPTLPPH

>1SQ0:B

HPICEVSKVASHLEVNC DKRDLTALPPDLPKD TTILHLS ENLLYTFSLATLMPYTRLTQLNLDRC
ELTKLQVDGTL PVLGTLDSLHNQLQSLPLL GQTLPALTVLDV SFNRLTSLPLGALRGLGELQEL
YLKGNELKTLPPGLLTPPKLEKLSLANNDLTELPA GLLNGLENLD TLLLQENSLY TIPK GFFGS
HLLPFAFLHGNPWLCNCEILYFRRWLQDNAENVYVWKQGV DVKAMTSNVASVQCDNSDKFP
VYKYPGKGCPTLGDEGDTDLYDYYPEEDTEGDK

3S2K

>3S2K:A

ADPEAFLLFSRRADIR RISLETNNNNVAIPLTGVKEASALDFDVT DNRIYWTDISLKTISR AFMN
GSALEHVVEFGLDYPEGMAVDWL GKNLYWADTG TNRIEVSKLDGQHRQVLVWKDL DSPRAL
ALDPAEGFMYWTEWGGKPKIDRAAMDG SERTTLV PNVGRANGLTIDYAKRRLYWTDLDTNLI
ESSNMLGLNREVIADDLPHPFGLTQYQDYIYWTDWSRRS IERANKTSGQNRTIIQHLDYVMD
ILVFHSSRQSGWNECASSNGHCSHLCLAVPVG GFVCGCPAHYSLNADNR TCSAPTTFLFSQKS
AINRMVIDEQQSPDIILPIHSLRN VRAIDYDPLDKQLYWIDSRQNMIRKAQEDGSQGFTVVVSS
VPSQNLEIQPYDLSIDIYSRYIYWTCEATNVIN VTRLDGRSVGVVLKGEQDRPRAIVVNPEKGY
MYFTNLQERSPKIERAALDGTEREVLFFSGLSKPIALALDSRLGKLFWADSDLRRIESSDL SGAN
RIVLEDSNILQPVG LTVFENWLYWIDKQQQMIEKIDMTGREGRTKVQARIAQLSDIHAVKELNL
QEYRQHPCAQDNGGC SHICLVKGDGTTTRCSCPMHLVLLQDELSCGEPHHHHHHHHHH

>3S2K:C

ADPMYHTKGQEGSVCLRSSDCASGLCCARHFWSKICKPVLKEGQVCTKHRRKGS HGLEIFQR
CYCGEGLSCRIQKDHHQASNSSRLHTCQRHHHHHH

2HRK

>2HRK:A

MTKLFSKVKESIEGIKMPSTLTINGKAPIVAYAELIAARIVNALAPNSIAIKLVDDKKAPAAK LDD
ATEDVFNKITSKFAAIFDNGDKEQVAKWVNLAQKELVIKNFAKLSQSLETLDSQLNLRTFILGG
LKYSAADVACWGALRSNGMCGSIIKNKVDVNVSRWYTLLEMDPIFGEAHDFLSKSLELKKK
ANVGKKKETHKANFE

>2HRK:B

MSDLVTKFESLIISKYPVSFTKEQSAQAAQWESVLKSGQIQPHLDQLNLVLRDNTFIVSTLYPTS
TDVHVFEVALPLIKDLVASSKDVKSTYTTYRHILRWIDYMQNLLVSSSTDKLEINH D

4B93

>4B93:A

SMAILFAVVARGT TILAKHAWCGGNFLEVTEQILAKIPSENNKLTYSHGNYLFHYICQDRIVYLC
ITDDDFERSRAFSFLNEVKKRFQTTYGSRAQTALPYAMNSEFSSVLA AQLKHHSENKSLDKVM
ETQAQVDELKGIMVRNIDLVAQRGERLELLIDKTENLVDS SVTFKTTSRNLARAMCMKNIK

>4B93:B

RQEETKKDYREVEKLLRAVADGDLEMVRYLLEWTEEDLEDAEDTVSAADPEFCHPLCQCPKC
APAQKRLAKVPASGLGVNVT SQDGS SPLHVAALHGRADLIPLLLKHGANAGARNADQAVPLH
LACQQGHFQVVKCLLDSNAKPNKKDLSGNTPLIYACSGGHHELVALLLQH GASINASNKNGNT
ALHEAVIEKHV FVVELLLLHGASVQVLNKRQRTAVDCAEQNSKIMELLQVVPSCVASLDDVAE
TDRKEYVTVKIRKHHHHHH

4DX8

>4DX8:A

GSSSGQSNNSDTCAEFRIKYVGAIEKLLKLESEGKLEGPLDLINYIDVAQQDGKLPFVPPPEEFI
MGVSKYGIKVVSTSDQYDVLHRHALYLIIRMVCYDDGLGAGKSLALKTDDASNEEYSLWVYQ
CNSLEQAQAICKVLSTAFDSVLTSEKP

>4DX8:H

GPLGSMGNPENIEDAYVAVIRPKNTASLNSREYRAKSYEILLHEVPIEGQKKRKKVLLKLETKLQ
GNSEITQGILDYVVETTKPISPANQGIRGKRVVLMKKFPLDGEKMGREASLFIVPSVVKDNTKY
TYTPGCPIFYCLQDIMRVCSSESSTHFATLTARMLIALDKWLDERHAQSHFIPALFRPSPLERIKTN
VINPAYATE

3ZYI

>3ZYI:A

MKLLWQVTVHHHTWNAILLPFVYLTAQVWILCAAIAAAASAGPQNCPSVCSCSNQFSKVVCT
RRGLSEVPQGIPSNTRYLNLNEMNIQMIQADTFRHLHHLEVLQLGRNSIRQIEVGAFNGLASLN
TLELFDNWLTVIPSGAFEYLSKLRELWLRNNPIESIPSYAFNRVPSLMRLDLGELKKLEYISEGAF
EGLFNLKYLNLGMCNIKDMPNLTPLVGLEELEMMSGNHFPPEIRPGSFHGLSSLKKLWVMNSQVS
LIERNAFDGLASLVELNLAHNNLSSLPHDLFTPLRYLVELHLHHNPWNCDCDILWLAWWLREY
IPTNSTCCGRCHAPMHRGRYLVVDQASFQCSAPFIMDAPRDLNISEGRMAELKCRTPPMSS
VKWLLPNGTVLSHASRHRISVLDGTLNFSHVLLSDTGVTTCMVTNVAGNSNASAYLNVST
AGTHHHHHH

>3ZYI:B

MLHLLALFLHCLPLASGDYDICKSWVTTDEGPTWEFYACQPKVMRLKDYVVKVKEPSGITCG
DPPERFCSHENPYLCSNECDASNPDLAHPRLMFDKEEGLATYWQSITWSRYPSPLEANITLS
WNKTVELTDDVVMTFEYGRPTVMVLEKSLDNGRTWQPYQFYAEDCMEAFGMSARRARDMS
SSSAHRVLCTEEYSRWAGSKKEKHVRFEVRDRFAIFAGPDLRNMDNLYTRLESAGLKEFFTLT
DLRMRLLRPALGGTYVQRENLYKYFYAISNIEVIGRCKCNLHANLCSMREGSLQCECEHNTTG
PDCGKCKKNFRTRSWRAGSYLPLPHGSPNACAGTHHHHHH

4FQ0

>4FQ0:A

GPLGSPQRSVTLYDFKRPNRVSKEQLRSFRSIHDKMARNLSSQVSSIMRSIVEIQLHSVDQMTY
GEFLMSLPSPTSFNVFSMKPMGGTGVLINPSIAFPIDRLLGGKGSAYDQNFSDIELNLLDT
ILRQVMQILKEVWSPVVFEMFPTIDAKESSANVVQIVAQNEISIMVVLEIIIHHSRGMNICYPVIS
IESILSKMGSRDML

>4FQ0:C

HHHHHHHMASMTGGQQMGRGSQKNFAYLGKIKPQLADFIINEHPQTIALILAHMEAPNAAE
TLYFPDEMKAIEISIRMANLGEISPQVVKRVSTVLENKLESLSYKIEV

3QQ8

>3QQ8:A

ASGADSKGDDLSTAILKQKNRPNRLIVDEAINEDNSVVSLSQPKMDELQFRGDTVLLKGKKR
REAVCIVLSDDTCSDEKIRMNRVVRNNLRVRLGDVISIQPCPDVKYGKRIHVLPIDDTVEGITGN
LFEVYLKPYFLEAYRPIRKGDIPLVRGGMRAVEFKVVETDPSPYCIVAPDTVIHCEGE

>3QQ8:B

MSENAEPVSKLRIRTPSGEFLERRFLASNKLQIVDFVASKGFPWDEYKLLSTFPRRDVTQLDPN
KSLLEVKLPQETLFLEAKE

4G6V

>4G6V:A

MGATDRTPPSNAILSNSNSDNNSTQGSQSGTVTKTPNPEATGSLSGKPTQIPPLSDEVTTTRSLIRE
NQSAVTLANKGYDVVQNPEVLGPKNPDYTINGQVFDNYAPATGNVRNIATTISNKVSSGQASNI
VVNLADSSASPAIEAQINSYPIPLGLKVVIVIDKLGNIITIKPKGN

>4G6V:B

MAIDLFCYLSIDRGAAESDLNKIRSNHSELFEGKFLISPVRDADFSLKEIAAEHGLVAESFFLVSL
NDKNSADLIPIVSKILVDGFNGGAILLQDNEYRRTSLEHHHHHH

1ZHI

>1ZHI:A

GSHMASMAKTLKDLQGWEIITTEQGNIIDGGQKRLRRRGAKTEHYLKRSSDGIKLRGDSV
VMHNEAAGTYSVYMIQELRLNLTNNVELWALTYLRWFEVNPLAHYRQFNPDANILNRPLNY
YNKLFSETANKNELYLTAELAEQLFNFIRVANVMDGSKWEVLKGNVDPERDFTVRYICEPTG
EKFDINIEDVKAYIKKVEPREAQEYKDLTLPSKKKE

>1ZHI:B

GSHMASEKKFSTEEYVSPRFLVADGFLIDLAEKPINPKDPRLTLLKDHQRAMIDQMNLVK
WDFKQYQDPIPLKAKTLFKFCKQIKKKFLRGADFKLHTLPTANLKYEPERMTVLASCVPIL
LDDQTVQYLYDD

2K8B

>2K8B:A

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQLIFAGKQLEDGRTLSDYNIQKEST
LHLVLRRLGG

>2K8B:B

ANQQTSGKVLYEGKEFDYVFSIDVNEGGPSYKLPYNTSDDPWLTAYNFLQKNDLNPMLDQV
AKFIIDNTKGQMLGLGNP

3BP8

>3BP8:A

MVAENQPGHIDQIKQTNAGAVYRLIDQLGPVSRIDLSRLAQLAPASITKIVREMLEAHLVQELEI
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HIDQFFIRHQKLERLTSIAITLPGIIDTENGIVHRMPFYEDVKEMPLGEALEQHTGVPVYIQHDI
SAWTMAEALFGASRGARDVIQVVIDHNVGAGVITDGHLLHAGSSSLVEIGHTQVDPYGKRCY
CGNHGCLETIASVDSILELAQLRLNQSMSSMLHGQPLTVDSLCAALRGDLLAKDIITGVGAH
VGRILAIMVNLFPQKILIGSPLSKAADILFPVISDSIRQQALPAYSQHISVESTQFSNQGTMAGA
ALVKDAMYNGSLLIRLLQG

>3BP8:C

MAPALVAAFGGKENITNLDACITRLRVSVADVSKVDQAGLKKLGAAGVVVAGSGVQAIFGTKS
DNLKTEMDEYIR

2V8S

>2V8S:E

NYSEIESKVREATNDDPWGPGSGLMGEIAKATFMYEQFPELMNMLWSRMLKDNKKNWRRVY
KSLLLLAYLIRNGSERVVTSAREHIYDLRSLENYHFVDEHGKDQGINIRQVKELVEFAQDDDR
LREERKKAKKNKDKYVGVSSDS

>2V8S:V

MASSAASSEHFEKLHEIFRGLLEDLQGVPERLLGTAGTEEKKKLVRDFDEKQQEANETLAEME
EELRYAPLTFRNPMMSKLRNYRKDLAKLHREVR

4DRA

>4DRA:A

HHHHHHMEEEEAEETEEQQRFSYQQRLKAAVHYTVGCLCEEVALDKEMQFSKQTIAAISELTFRQ
CENFAKDLEMFARHAKRTTINTEDVKLLARRSNSLLKYITDKSEEIAQIN

>4DRA:E

GSHMEGAGAGSGFRKELVSRLHLHLHFKDDKTKVSGDALQLMVELLKVFVVEAAVRGVVRAQ
AEDALRVDVDQLEKVLPLQLLDF

2LUH

>2LUH:A

MASNAARVVATAKDFDKVGLGIIGYYLQLYAVELILSEEDRSQEMTALATELLDTIEAFKKEIGG
ESEAEEDSKSLHVMNTLIHDQEKAKIYMLNFTMSLYNEKLLKQLKDGPDVMLKRSLWCCIDL
FSCILHLWKENISETSTNSLQKRIKYCKIYLSKLAKGEIG

>2LUH:B

INIDKLQDMQDEMLDLIEQGDELQEVLAMNNNSGELDDISDAELDAELDALAQEDFTLP

1GC1

>1GC1:G

GARSEVVLVNVTENFNMWKNMVEQMHEDIISLWDQSLKPCVKLTPLCVGAGSCNTSVITQA
CPKVSFEPIPIHYCAPAGFAILKCNNKTFNGTGPCTNVSTVQCTHGIRPVVSTQLLNGSLAE
VVIRSVNFTDNAKTIIVQLNTSVEINCTGAGHCNISRAKWNTLQKIASKLREQFGNNKTIIFKQ
SSGGDPEIVTHSFNCGGEFFYCNSTQLFNSTWFNSTWSTKGSNNTEGSDTITLPCRIKQIINMWQ
KVGKAMYAPPISGQIRCSSNITGLLLTRDGGNSNNESEIFRPGGGDMRDNWRSELYKYKVVKIE

>1GC1:C

KKVVLGKKGDTVELTCTASQKKSIFHWKNSNQIKILGNQGSFLTGKPSKLNDRADSRRSLWD
QGNFPLIKNLKIEDSDTYICEVEDQKEEVQLLVFGLTANS DTHLLQGQSLTTLTLESPPGSSPSVQ
CRSPRGKNIQGGKTLVSQLELQDSGTWTCTVLQNQKKVEFKIDIVVLAFAQKASNT

2POP

>2POP:A

GSMAAQRRLQSEQQPSWTDDLPLCHLSGVGSASNRSYSADGKGTESHPPEDSWLKFRSEN
NCFLYGVFNQYDGNRVTNFVAQRLSAELLLGQLNAEHAADVRRVLLQAFDVVERSFLSIDD
ALAEKASLQLERLKTLEREISGGAMAVVAVLLNNKLYVANVGTNRALLCKSTVDGLQVTQLN
VDHTTENEDELFRLSQLGLDAGKIKQVGIICGQESTRRIGDYKVKYGYTDIDLLSAAKSKPIIAE
PEIHGAQPLDGVGTGFLVLMSEGLYKALEAAHGPGQANQEIAAMIDTEFAKQTSLDAVAQAVVD
RVKRIHSDTFASGGERARFCPRHEDMTLLVRNFGYPLG

>2POP:B

GSHMKTCVPADINKEEFVVEFNRLKTFANFPGSPVSASTLARAGFLYTGEEDTVRCFSCHAA
VDRWQYGD SAVGRHRKVSPNCRFINGFYLEN

2WG3

>2WG3:A

ALVPLLYKQFVPGVPERTLGASGPAEGRVARGSERFRDLVPNYNPDIIFKDEENSGADRLMTER
CKERVNALAIVMNMWPGVRLRVTEGWDEDGHHHAQDSLHYEGRALDITTSRDRNKYGLLA
RLAVEAGFDWVYYESRNHVHVSVKADNSLAVLEHHHHHHH

>2WG3:C

HNCFCIQEVVSGLRQPVGALHSGDGSQRLFILEKEGYVKILTPEGEIFKEPYLDIHKLVQSGIKG
GDERGLLSLAFHPNYKKNKGLYVSYTTNQRERWAIGPHDILRVVEYTVSRKNPHQVDLRTARV

FLEVAELHRKHLGGQLLFGPDGFLYIILGDGMITLDDMEEMDGLSDFTGSVLRRLDVDTDMCNV
PYSIPRSNPHFNSTNQPEVFAHGLHDPGRCVDRHPTDININLTILCSDSNGKNRSSARILQIIKG
KDYESEPSLLEFKPFSNGPLVGGFVYRGCQSERLYGSYVFGDRNGNFLTLLQQSPVTKQWQEKP
LCLGTSGSCRGYFSGHILGFGEDELGEVYILSSSKSMTQTHNGKLYKIVDPKRPLMPEECRATV
QPAQTLTSECSRLCRNGYCTPTGKCCCSPGWEGDFCRTAKCEPACRHGGVCVRPNKCLCKKG
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4APX

>4APX:A

MQVNRLPFFTNNHFFDTYLLISEDTPVGSSVTQLLARDMDNDPLVFGVSGEEASRFFAVEPDTGV
VWLRQPLDRETKSEFTVEFSVSDHQGVITRKVNIQVGDVNDNAPTFFHNQPYSVRIPENTPVGT
PIFIVNATDPDLGAGGSVLYSFQPPSPFFAIDSARGIVTVIQELDYEVTVQAYQLTVNATDQDKTRP
LSTLANLAIITDLEHHHHHH

>4APX:B

MQYDDDQYEDCKLARGGPPATIVAIDEESRNGTILVDNMLIKGTAGGPDPTIELSLKDNVDY
WVLLDPVKQMLFLNSTGRVLDLDRDPPMNIHSIVVQVCVNKKVGTVIYHEVRIVRDRNDNSP
TFKHESYATVNELTPVGTTFIFTGFSGDNGATDIDDGPNQIEYVIQYNPEDPTSNDTFEIPMLT
GNVVLKRLNYEDKTRYVVIQANDRAQNLNERRTTTTTTLVDLEHHHHHH

4HH3

>4HH3:A

GAMGMGLAGGSLPSLAPDLVRDLIATAADISLLVSQEGVVREVMANPHHPSFGQLSEWEGRPL
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VQQQLVAAQLAMERDYETQREMETRYRVVLDVSRDPMVLVSMSTGRIVDLNSAAGLLGGV
RQDLLGAAIAQEFEGRRRGEFMETMTNLAATESAAPVEVLARRSQKRLLVPRVFRAAGERLL
LCQIDPAD

>4HH3:C

VEADTFALYALTEAQAGRSRAKAVARLSDLLSTDPLGRLTEVEELLRAHAPTAADFARLFEAC
AERLTRALAEDRISRMQVTLAYSALQMALRRIHLLPDPQKSVGAVLVAGVPGHKPILEAALAA
EMLRAVGWSTSVVHPESVAALAARLKTSTLVVAPSLLEGTEQEADTLRFVSALRARTDLP
LSILVGGRLAQLPPSKLKDSGADAGFAHLALLPAALARVASSAHHHHHH

2UYZ

>2UYZ:A

MSGIALSRLAQERKAWRKDHPFGFVAVPTKNPDGTMNLMNWECAIPGKKGTPWEGGLFKLR
MLFKDDYPSSPPKCKFEPPLFHPNVYPSGTVSLSILEEDKDWRPAITIKQILLGIQELLNEPNIQDP
AQAEAYTIYCQNRVEYEKRVRAQAKKFAPS

>2UYZ:B

MEYIKLKVIGQDSSEIHFVKVMTTHLKKLKECYCQRQGVPMNSLRFLEFEGQRIADNHTPKELG
MEEEDVIEVYQEQTGG

3IA3

>3IA3:A

MALLKANKDLISAGLKEFSVLLNQVFNNDPLVSEEDMVTVVEDWMNFYINYRQQVTGEPQ
ERDKALQELRQELNTLANPFLAKYRDFLKS

>3IA3:B

GSHMVLSPADKTNVKAAWGKVGHAHAGEYGAEALERMFLSFPTTKTYFPHFDLSHGSAQVKG
HGKKVADALTNAVAHVDDMPNALSASDLHAHAKLRVDPVNFKLLSHCLLVTLAAHLPAEFTPA
VHASLKDFLASVSTVLTSKYR

1WA8

>1WA8:A

AEMKTDAATLAQEAGNFERISGDLKTQIDQVESTAGSLQGQWRGAAGTAAQAAVVRFQEAAAN
KQKQELDEISTNIRQAGVQYSRADEEQQALSSQMGF

>1WA8:B

MTEQQWNFAGIEAAASAIQGNVTSIHSLLEDEGKQSLTKLAAAWGGSGSEAYQGQVQKWDATA
TELNNALQNLARTISEAGQAMASTEAGNVTGMFA

3H2V

>3H2V:A

EEKDEEFPEQKAGEVINQPMMAARQLHDEARKWSSKGNIIAAAKRMALLMAEMSRLVRG
GSGTKRALIQCAKDIASDEVTRLAKEVAKQCTDKRIRTNLLQVCERIPTISTQLKILSTVKAT
MLGRTNISDEESEQATEMLVHNAQNLMQSVKETVREAEAASIKIRTDAGFTLRWVRKTPWYQ

>3H2V:E

HMRKILIRGLPGDVTNQEVDLSDYELKYCFVDKYKGTAFVTLLNGEQAEAAINAFHQSRRLR
ERELSVQLQPT

1PK1

>1PK1:A

MEKTRVNGTDRPPISSWSVDDVSNFIRELPGCQDYVDDFIQQEIDGQALLLLKEKHLVNAMGM
KLGPAKIVAKVESIKEVRDHHHHHHH

>1PK1:B

MEKTRANSHLRSQPIDWTIEEVIQYIESNDNSLAVHGDLFRKHEIDGKALLRLNSERMMKYMG
LKLGPALKICNLVNKNVNGRDHHHHHHH

2WP0

>2WP0:A

MKNFYDWIKEFIRDQGEFIAQQSGWLELERSSYAKLIAQTISHVLNNGSLLVSADSSRHWFLNY
ILSNLNPKDLKERPLLSVIDFNASSFPKNDANLSLATIEMTYQNPMFVHWGKIENEGLKTILLS
KIPSFLWLFEELKEDCLLLKEHDSLLDYKLLQLFKLFENALFSVLYNKVTL

>2WP0:C

MDTNNNIEKEILALVKQNPVSLIEYENYFSQLKYNPNASKSDIAFFYAPNQVLCTTITAKYGA
LLKEILSQNKVGMHLAHSVDVRIEVAPKIQINAQSNINYKAIKTSVKD

2RNR

>2RNR:A

GSEEEDEEDDEFEEVADDPIVMVAGRPFYSYSEVSQRPELVAQMTPEEKEAYIAMGQRMFEDLFE

>2RNR:B

GSMATSSEEVLLIVKKVRQKKQDGALYLMAERIAWAPEGKDRFTISHMYADIKCQKISPEGKA
KIQLQLVLHAGDTTNFHFNSNESTAVKERDAVKDLLQQLLPKFKRKAN

3KNB

>3KNB:A

GPGIPPKIEALPSDISIDEGKVLTVACAFTGEPTPEVTWSCGGRKIHSQEQRFHIENTDDLTLII
MDVQKQDGGLYTSLGNEFGSDSATVNIHIRSI

>3KNB:B

GPMKASSGDQGSPPCFRLFPRPVRVVSAGAEAEELKCVVLGEPVPPVVVWEKGGQQLAASERLSFP
ADGAEHGLLLTAALPTDAGVYVCRARNAAGEAYAAAATVLEPP

4DT1

>4DT1:A

MEYEDLELITIWPSPTKNKLCQFIKQNLKEHVVTQLFFIDATSSFPLSQFQKLPPTLPENVRIY
ENIRINTCLDLEELSAITVKLLQILSMNKINAQRGTEDAVTEPLKIILYINGLEVMFRNSQFKSSP
QRSHELLRDTLLKLRVMGNDENENASIRTLLEFPKEQLLDYYLKKNNNTRTSSVRSKRRRIKN
GDSLAEYIWKYADSLFE

>4DT1:B

GSHMEVLKNIRIYPLSNFITSTKNYINLPNELRNLISEEQESKLGFLHIESDFKPSVALQKLVNCT
TGDEKILIIDIVSIWSQQKQRQHGAIMNSLSCINITGLIVFLELLYDSPMDALRRCQVDNFNFL
RGIVIDNLSFLNFESDKNYDVINLSKFEKLFKILRKLREFLGCWIITKSFPTDFYNGIENTLVDKW
SIKRKSGVTLYPTKLPDSYMKGMDLIHYREVVDGRPQYRRIAALAE

4LLO

>4LLO:A

GAMGTEKVLQICPKDMRADICVHLNRKVFKEHPAFRLASDGCLRALAMEFQTVHCAPGDLIY
HAGESVDSLFCFVVSQSLEVIQDDEVVAILGKGDVFGDVFWKEATLAQSCANVRALTYCDLHVI
KRDALQKVLEFYTAFSHSFSRNLILTYNLRKRIVFRKISDVKREEEERMKRK

>4LLO:B

GAMGRRGLVAPQNTFLENIVRRSNDTNFVLGNAQIVDWPIVYSNDGFCKLSGYHRAEVMQKS
SACSFMYGELTDKDTVEKVRQTFENYEMNSFEILMYKKNRTPVWFFVKIAPIRNEQDKVVLFL
CTFSDITAF

1Y76

>1Y76:A

NPAAEKMQVLQVLDRLRGKLQEKGDTTQNEKLSAFYETLKSPLFNQILTQQSIKQLKGQLS

>1Y76:B

AVKILEIEDLFSSLKHIQHTLVDSQSQEDISLLLQLVQNKDFQNAFKIHNAITVHMNKAS

4DH2

>4DH2:A

MASVVAIHEAETADYILDVLVEGVKAKAGDTVEIPLKFENVPSHGIQSFNLSLYYDSKAIEVLK
VEPGSIITDPANNFDYNIVYKDSEIVFLFDDDKQKGEGLIKTDGVFAKLTVRIKPDIFKDSGSTKK
YSLITFGESNFCDFDLKPILAVLKEGKVEIEKLEHHHHHH

>4DH2:B

MWNKAVIGDVNADGVVNISDYVLMKRYILRIADFPADDDMWVGDVNGDNVINDIDCNYLK
RYLLHMIREFPKNSYNSAPTF

2WY8

>2WY8:A

MLDAERLKHILVTPSGAGEQNMIGMTPTVIAVHYLDETEQWEKFGLEKRQGALELIKKGYTQ
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EDAPVIHQEMIGGLRNNNEKDMALTAFLVLSLQEAKDICEEQVNSLPGSITKAGDFLEANYMN
LQRSYTVAIAGYALAQMGRLLKGPLLNKFLTTAKDKNRWEDPGKQLYNVEATSALLALLQK
DFDFVPPVVRWLNEQRYGGGYGSTQATFMVFQALAQYQKDAPDHQELNLDVSLQLPSR

>2WY8:Q

MRGSHHHHHMVSIEKAIVRHDERVKSANDAISKLEKDSIENRRLAQREVNKAPMDVKEHL
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2KVQ

>2KVQ:E

GPLGSMQNRIRIRLKAFDHRLIDQATAEIVETAKRTGAQVRGPIPLPTRSRTHLRLVDIVPEK
TVDALMRLDLAAGVDVQISLG

>2KVQ:G

GAMGRPKTLFEPGEMVRVNDGPFADFNGVVEEVDYEKSRLKVSVSIFGRATPVELDFSQVEKA

4AWX

>4AWX:A

MQKLTVGLIGNPNSGKTTLFNQLTGARQRVGNWAGVTVERKEGIFATTDHQVTLVDLPGTYSL
TTISSQTSLDEQIACHYILSGDADMLINVVDASNLERNLYLTLQLELGPVVALNMLDIAEKQ
QVRIDIDALAARLGCPVIPLVSTRGRGIEALKIALDRHQANSDELVHYPQPLREADLLAQQM
SAQIPPRQRRWLGLQMLEGDIYSRAYAGDAADKLDIALANLSDEIDDPALHIADARYQTIAAIC
DAVSNTLTAEP

>4AWX:B

PLGSMASLMEVRDMLALQGRMEAKQLSARLQTPQPLIDAMLERMEAMGKVVRISETSEGCLS
GSCKSCPEGKAACRQEWALRL

1YCS

>1YCS:A

SSSVPSQKTYQGSYGFRGLGFLHSGTAKSVTCTYSPALNKMFCQLAKTQVQLWVDSTPPPGTR
VRAMAIYKQSQHMTEVVRRCPPHHERCSDSDGLAPPQHLIRVEGNLRVEYLDDRNTFRHSVVV
PYEPPEVGSDCCTTIHYNMCMNSSCMGGMNRRPILTIITLEDSSGNLLGRNSFEVRCACPRDR
RTEENLRKK

>1YCS:B

PEITGQVSLPPGKRTNLRKTGSERIAHGMRVKFNPLPLALLDSSLEGEFDLVQRIIYVDDPSLP
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VFAMTYSDMQTAADKCEEMEEGYTQCSQFLYGVEKMGIMNKGVIYALWDYEPQNDDELPM
KEGDCMTIIHREDEDEIEWWARLNDKEGYVPRNLLGLYPRIKPRQSLA

3WA5

>3WA5:A

MTATSDLIESLISYSWDDWQVTRQEARRVIAAIRNDNVPDATIAALDKSGSLIKLFQRVGPPELA
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GATGVASQAIQGPFGVATGVNPTDLPSIAFGDQLKLLNKDPATVTKYSNPLGDLGAYLSQLS
PQDKLNQAQTLVGQPISLTFPDAYPGNPPSRAKVMASAAARKYDLTPQLIGAIILAEQRDQTRDE
DAKDYQAAVSIKSANTSIGLGQVVVSTAIKYELFTDLLGQPVRRLSRKAVATLLASDEFNIFAT
ARYIRYVANLASQQLRKLKTRGAFPSIDLAYAGNPRNWPRDNVRALASEYTSRPWDDNLS
PGWPMFVDDAYATFLDPGMRFPLEHHHHHH

>3WA5:B

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EDGEPTFALAWALLERARLQLEHHHHHH

1GPW

>1GPW:A

MLAKRIIACLNVDGRVVKGTNFENLRDSGDPVELGKFYSEIGIDELVFLDITASVEKRKTMLE
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KRVDGEFMVFTYSGKKNTGILLRDWVVEVEKRGAGEILLTSIDRDGTKSGYDTEMIRFVRPLT
TLPIASGGAGKMEHFLEAFLAGADAALAASVHFHREIDVRELKEYLKKHGVNVRLEGL
>1GPW:B
MRIGIISVGPGNIMNLYRQVVKRASENFEDVSIELVESPRNDLYDLLFIPGVGHFGEGRRLREND
LIDFVRKHVEDERYVVGVCCLGMQLLFESEEAAPGVKGLSLIEGNVVKLRSRRLPHMGWNEVIF
KDTFNGYFVHTYRAVCEEHVLTTEYDGEIFPSAVRKGRILGFQFHPEKSSKIGRKLLEK
VIECSLSRR

1TY4
>1TY4:A
GKINDWEEPRLDIEGFVVDYFTHRIRQNGMEWFGAPGLPCGVQPEHEMMRVMGTIFEKKHAE
NFETFCEQLLAVPRISFSPYQDVVRTVGNAQTDQCPMSYGRILGLISFGGFVAAKMMEVELQG
QVRNLFVYTSLFIKTRIRNNWKEHNRSWDDFMTLGKQMKEDYER
>1TY4:C
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2B4J
>2B4J:A
GSHMHGQVDCSPGIWQLDCTHLEGKVILVAVHVASGYIEAEVIPAETGQETAYFLLKLAGRWP
VKTVDNDNGSNFTSTTVKAACWWAGIKQEFIPYNPQSQGVIESMKNELKKIIGQVRDQAEHL
KTAVQMAVFIHNKRRKGGIGGYSAGERIVDIIATDIQTKE
>2B4J:C
GSSMDSRLQRIHAEIKNSLKIDNLDVNRCEALDELASLQVTMQQAQKHEMITTLKKIRRFKV
SQVIMEKSTMLYNKFKNMFLVGEGDSVITQVLNK

3O6Q
>3O6Q:A
GSELETDTREILEENNEMLHMYLNRLKTYQYLLKNEPIHVYYGSIDAYAEGIDKLLKTYADKM
NLTASLCHYSTQADKDRLTEHMDDPADVQTRLDRKDVYYDQYGVVLPFTIETQNYVIKLS
DSIVTEFDYLLFTSLTSIYDLVLPIDEEGEG
>3O6Q:B
MERAQNRCEPRAAKPFKILKKRSTTSVASYQVSPHTARIFKENERLIDEYKRKKA

2I3T
>2I3T:A
MQIVQIEQAPKDYISDIKIIPSKSLLLITSWDGSLTVYKFDIQAKNVDLLQSLRYKHPLCCNFID
NTDLQIYVGTVQGEILKVDLIGSPSFQALTNNEANLIGCRICKYGDDKLIASWDGLIEVIDPRN
YGDGVIAVKNLNSNNTKVKNKIFTMDTNSSRLIVGMNNSQVQWFRLPLCEDDNGTIEESGLKY
QIRDVALLPKEQEGYACSSIDGRVAVEFFDDQGGDYNSSKRFAFRCHRLNLKDTNLAYPVNSIEF
SPRHKFLYTAGSDGIISCWNLQTRKKIKNFAKFNEDSVVKIACSDNILCLATSDDTFKTNAIDQ
TIELNASSIYIIFDYEN
>2I3T:B
MKPEKIDCNFKLIYCEDEESKGGRLSLEEVLAISRNVYKRVRTNRKHHHHHH

3ZWL
>3ZWL:B
MGSSHHHHHSSGENLYFQGSMMKAIKLTGHERPLTQVKYNKEGDLFSCSKDSSASVWYSL
NGERLGLDGTGHIWSDVDCFTKYCVTGSADYSIKLWDVSNQCVATWKSPVPVKRVEFSP
CGNYFLAILDNVMKNPGSINIYEIERDSATHELTKVSEPIHKIITHEGLDAATVAGWSTKGKYII

AGHKDGGKISKYDVSNNYEYVDSIDLHEKSISDMQFSPDLTYFITSSRDTNSFLVDVSTLQVLKK
YETDCPLNTAVITPLKEFIILGGGQEAQKDVTTTTSANEGKFEARFYHKIFEEEEIGRVQGHFGPLNTV
AISPQGTSYASGGEDGFIRLHHFEKSYDFDKYDVEKAAEAKEHMQEAN

>3ZWL:E

GSHMEADTAMRDLILHQRELLKQWTEYREKIGQEMEKSMNFKIFDVQPED

2WY3

>2WY3:A

MEPHSLRYNLMVLSQDESQSGFLAEGHLDGQPFLRYDRQKRRRAKPQGQWAEDVLGAETWD
TETEDLTENGQDLRRTLTHIKDQKGGGLHSLQEIRVCEIHEDSSTRGSRHFYNGELFLSQNLETQ
ESTVPQSSRAQTLAMNVTNFWKEDAMKTKTHYRAMQADCLQKLQRYLKSQVAIRRTVPPMV
NVTCSEVSEGNITVTCRASSFYPRNITLTWRQDGVSLSHNTQQWGDVLPDGNQTYQTVWVATRI
RQGEEQRFTCYMEHSGNHGTHPVPSGKVLVLSQRTDFPYVSAAMPFCVIIIILCVPCCKKTS
AAEGP

>2WY3:B

VDLGSKSSNSTCRLNVTELASIHPGETWTLHGMCISICYENVTEDIIGVAFTWQHNSVVDL
WLYQNDTVIRNFS DITNILQDGLKMRTVPVTKLYTSRMVTNLTVGRYDCLRCENGTTKIIERL
YVRLGSLYPRPPGSLAKHPSVSADEELSA

2V6X

>2V6X:A

GSHMSTGDFLTGKIELVQKAIDLDTATQYEEAYTAYYNGLDYLMLALKEYKNPKSKDLIRAKF
TEYLNRAEQLKKHLESEEANAA

>2V6X:B

GSHMLQSTPQNLVSNAPIAETAMGIAEPIGAGSEFHGNPDDDLQARLNTLKKQT

3F1P

>3F1P:A

GEFKGLDSKTFLSEHSMDMKFTYCDRITELIGYHPEELLGRSAYEFYHALDSENMTKSHQNL
CTKGQVVSQYRMLAKHGGYVWLETQGTVIYNPRNLQPQCIMCVNYVLSEIEKN

>3F1P:B

GEFKGLNVCQPTRFISRHNIEGIFTFVDHRCVATVGYQPQELLGKNIVEFCHPEDQQLLRDSFQQ
VVKLKGQVLSVMFRFRSKNQEWLWMRTSSFTFQNPYSDEIEYIICTNTNVKNSSQE

1U7F

>1U7F:A

EPAFWCSISYYELNQRVGETFHASQPSMTVDGFTDPSNSERFCLGLLSNVNRNAAVELTRRHIG
RGVRLYYIGGEVFAECLSDSAIFVQSPNCNQRYGWHPATVCKIPPGCNLKIFNNQEFAALLAQS
VNQGFEAVYQLTRMCTIRMSFVKGWGAEYRRQTVTSTPCWIELHLNGLPLQWLDKVLTMGSP
SIRCSSVS

>1U7F:B

ISNHPAPEYWCSIAYFEMDVQVGETFKVPSSCPIVTVDGYVDPSSGDRFCLGQLSNVHRTEAIE
RARLHIGKGVQLECKGEGDVWVRCLSDHAVFVQSYLDREAGRAPGDAVHKIYPSAYIKVFD
LRQCHRQMQQQAATAQAAAAAQA AVAGNIPGPGSVGGIAPAISLSAAAGIGVDDLRRLCILR
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1WR1

>1WR1:A

MQIFVKTLTGKTITLEVESSDTIDNVKSKIQDKEGIPPDQQLIFAGKQLEDGRTLSDYNIQKEST
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>1WR1:B
PGISGGGGILDPEERYEHQLRQLNDMGFFDFDRNVAALRRSGGSVQGALDSLNGDV

1B6C
>1B6C:A
GVQVETISPGDGRTPKRGQTCVVHYTGMLEDGKKFDSSRDRNKPFFKMLGKQEVIRGWEEG
VAQMSVGQRAKLTISPDYAYGATGHPGIIPPHATLVFDVELLKE
>1B6C:B
EDPSLDRPFISEGTTCLKDLIYDMTTSGSGSGLPLLQRTIARTIVLQESIGKGRFGEVWRGKWRG
EEVAVKIFSSREERSWFREAEIYQTVMLRHENILGFIAADNKDNGTWTQLWLVS DYHEHGS LF
DYLNR YTVTVEGMIKLALSTASGLAHLHMEIVGTQGKPAIAHRDLKSKNILVKKNGTCCIALD
GLAVRHDSATDTIDIAPNHRVGT KRYMAPEVLDD SINMKHFESFKRADIYAMGLVFW EIARRCS
IGGIHEDYQLPYD LVPSPDPSVEEMRKVVCEQKLRPNIPNRWQSCEALRVMAKIMREC WYAN
GAARLTALRIKKTLSQLSQQEGIKM

1P27
>1P27:A
ESDFYLRYVVGHKGKFGHEFLEFEFRPDGKLR YANNSNYKNDVMIRKEAYVHKSVM EELKR II
DDSEITKEDDALWPPPDRVGRQELEIVIGDEHISFTTSKIGSLIDV NQSKDPEGLRVFY YLVQDL
KCLVFLIGLHFKIKP
>1P27:B
MREDYDSVEQDGEPPQRSVEGWILFVTGVHEEATEEDIHDKFAEYGEIKNIHLNLD RRTGY
LKG YTLVEYETYKEAQAAMEGLNGQDLMGQPISVDWCFVRGPP

1QA9
>1QA9:A
TNALETWGALGQDINLDIPSFQMSDDIDDIKWEKTS DKKKIAQFRKEKET FKEKDTYELLKNG
ALKIKHLKTDDQDIYKVS IYDTKGKNVLEKIFDLKIQR
>1QA9:B
SSQIYGVKYGNVTFHVPSNQLKEVLWKKQKDKVAELENSEFR AFSSFKNRVYLDTKSGSLTI
YNLTSSDEDEYEMESP NITDSMKFFLYVGES

3R4D
>3R4D:A
EVTIEAVPPQVAEDNNVLLL VHNLPLALGAFAWYKNTTAIDKEIARFVPNSNMNFTGQAYSG
REI IYSNGSLLFQMITMKDMGVYTLDMTDENYRRTQATVRFHVHQPVTQPFLQVTNTTVKEL
DSVTLTCLSNDIGANIQLWLFNSQSLQLTERMTLSQNN SILRIDPIKREDAGEYQCEISNPVSVRRS
NSIKLDIIFDPHHHHH
>3R4D:B
YIGDFRCIQLVNSNGANVSAPSISTETVEVSQGLGTY YVLD R VYLNATLLLTGYYPVDGSKFRN
LALTGTNSVLSLWFQPPYLSQFNDGIFAKVQNLKTSTPSGATAYFPTIVIGSLFGYTSYTVVIEPY
NGVIMASVCQYTICQLPYTDCKPNTNGNKLIGFWHTDVKPPICVLKRNF TLNVNADAFYFHFY
QHGGTFYAYYADKPSATTF LFSVYIGDILTQYYVLPFICNPTAGSTFAPRYWVTPLVKRQYLFNF
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2LY4
>2LY4:A

GKGDPPKPRGKMSSYAFFVQTCREEHKKKHPDASVNFSEFSKKCSERWKTMSAKEKGFED
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>2LY4:B
MEEPQSDPSVEPPLSQETFSDLWKLLPENNVLSPLPSQAMDDLMLSPDDIEQWFTEDPGPDEAP
RMPEAAPPVAPAPAAPTPAAPAPAPSWPL

2Q00
>2Q00:A
MSVNGNLRSLIDMLEAAQDGHMIKIALRSFAHSCGYDRFAYLQKDGTQVRTFHSYPPGWESIY
LGSDYFNIDPVLAEAKRRRDVFFWTADAWPARGSSPLRRFRDEAISHGIRCGVTIPVEGSYGSA
MMLTFASPERKVDISGVLDPKKAVQLLMMVHYQLKIIAAKTVLNPKQMLSPREMLCLVWASK
GKTASVTANLTGINARTVQHYLDKARAKLDAESVPQLVAIAKDRGLV
>2Q00:C
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SGPVLQTLQDEYVARQKRSEAQQEELSDILDALGFVPDVPFDDDN

3B08
>3B08:A
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LHLVLRRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQLIFAGKQLEDGRT
LSDYNIQKESTLHLVLRRLRGG
>3B08:B
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Q

1TLH
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MNKNIDTVREIITVASILIKFSREDIVENRANFIAFLNEIGVTHEGRKLNQNSFRKIVSELTQEDK
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>1TLH:B
DSATTESLRAATHDVLAGLTAREAKVLRMRFGIDMNTDYTLEEVGKQFDVTRERIRQIEAKAL
RKL RHPSRSEVLRSFLDD

3EAB
>3EAB:A
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CERARRLQAKMMTNLVMKDRQLLE
>3EAB:G
QVDMLLQEMADEAGLDLNMELPQGQTGSVGTSVASAEQDELSQRLARLRD

4EEE
>4EEE:A
MECVKTRSVNIHVPVKETSKVVLECRGDSYFRHFSYVYWIIGKNKTVDQLPPNSGYRERIYLF
KKPHRCENRPRADLILTDEMRNEKLTCLIDPKDPLKESVILSKIWNVCYKI
>4EEE:B
YFGKLESKLSVIRNLNDQVLFIDQGNRPLFEDMTSDSRDNAPRTIFIISMYKDSQPRGMAVTIS
VASAAASTLSSENKIISFKEMNPPDNIKDTKSDIIFQRSVPGHDNKMQFESSYEGYFLASEKE
RDLFKLILKKEDELGDRSIMFTVQNE

4F48

>4F48:A

SNAEEERIERWVEQLREALIGDGFLHYPVLNLQGEPELELYQAFLRLERNGEMMSPNAFMAI
AEEHDLITEIDRWVVARAIRQLGERQRAGHKTHLLVRIGPNSFSDPQMIDTIREQLAVYGVPGE
RLWLQTPESKVFTHLRNAQQFLASVSAMGCKVGLAQFGSGLDSFQLLAHFQPAFLKLDRSITG
DIASARESQEKIREITSRAQPTGILTVAEFVADAQSMSSFFTAGVDYVQGDVAPTGPLM

>4F48:B

MSAMNARQGILSLALKDKAALYSAYMPFVKSGGIFVPTPKRYMLGDEVFLLLTLPDSSERLPV
AGKVVWTTTPAGAQGNRAAGIGVQFPDGPEGEAVRNKIETLLAGLTTSKPTHTM

4AYI

>4AYI:A

MGTLKPCDYPDIKHGGLYHENMRRPYFPVAVGKYYSYYCDEHFETPSGSYWDHIHCTQDGWS
PAVPCLRKCYFPYLENGYNQNHGRKFVQGSIDVACHPGYALPKAQTTVTCMENGWSPTPRCI

>4AYI:D

MGPDSURLQRRVAADIGTGLADALTAPLDHKDKGLKSLTLEDSIPQNGTLTLSAQGAEKTFK
AGDKDNSLNTGKLKNDKISRFDVQKIEVDGQTITLASGEFQIYKQNHSAVVALQIEKINNPDK
TDSLINQRSFLVSGLGGEHTAFNQLPGGKAEYHGKAFSSDDPNGRLHYSIDFTKKQGYGRIEHL
KTLEQNVELAAAELKADEKSHAVILGDTRYGSEEKGTYHLALFGDRAQEIAGSATVKIGEKVH
EIGIAGKQLEHHHHHH

2X9A

>2X9A:A

ATTDAECLSKPAFDGTLNVWKEGDSRYANFENCIYELSGIGIGYDNDTSWNGHWTPVRAAD
GSG

>2X9A:B

DDIFGELSSGKNAPKTGGGAKGNNASPAGSGNTKNNGASGADINNYAGQIKSAIESKFYDASS
YAGKTCTLRKILAPDGMLLDIKPEGDPALCQAALAAKLAIPKPPSQAVYEVFKNAPLDFKP
AAAHHHHHH

2M0G

>2M0G:A

MATGANATPLDFPSKKRKRSRWNQDTMEQKTVIPGMPTVIPPGLTREQERAYIVQLQIEDLTRK
LRTGDLGIPPNPEDRSPSPEPIYNSEGKRLNTREFRTRKKLEEERHNLITEMVALNPDFKPPADY
KPPATRVCDKVMIPQD

>2M0G:B

GHPTEVLCLMNMVLPEELLDDEEYEEIVEDVRDECSKYGLVKSIEIPRPVDGVEVPGCGKIFVE
FTSVFDCQKAMQGLTGRKFANRVVVTKYCDPDSYHRRDFW

2K6D

>2K6D:A

KSKDYCKVIFPYEAQNDDELTIKEGDIVTLINKDCIDVGWWEWEGELNGRRGVFPDNFVKLLPP

>2K6D:B

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRILIFAGKQLEDGRTLSDYNIQKEST
LHLVLRRLRGC

4J32

>4J32:A

MGHHHHHLYFQGMNRPSFNEAWLAFRKNHNSVADVSGSIIGGNVGNITGGYFQNACPIRMS
YVLNATGFPIARNSPYAKVSGADNKFYIYRVNDMIDYLTHTMGKPDIVNNPKQSDFIGKKGII
VVKGHGWSNARGHVTLWNGSICSQDCHLLNDPDNGPFVPEVGTWILP

>4J32:B

QEALTTQYSQSELLKNWALSHCLALVYKDDVVKNDARATASAYLEYGKQSVEIYHEIDEIAKK
YSGLYNGSISDFNTMKCIDFIHDRELNELIKRVEK

1FFW

>1FFW:A

ADKELKFLVDDFSTMRRIVRNLLKELGFNNVEEAEDGVDALNKLQAGGYGFVISDWNMPN
MDGLELLKTIRADGAMSALPVLMTAEAKKENIAAAQAGASGYVVKPFTAATLEEKLNKIFE
KLG M

>1FFW:B

RQLALEAKGETPSAVTRLSVVAKSEPQDEQSRQSARRIILSRLKAGEVDLLEEELGHLTTLDV
VKGADSLSAILPGDIAEDDITAVLCFVIEADQITFETVEVSPKISTPPVLKLAEEQAPTGRVEREK
TTR

1RLB

>1RLB:A

GPTGTGESKCPLMVKVLDAVRGSPAINVAVHVFRKAADDTWEPFASGKTSESGELHGLTTEEQ
FVEGIYKVEIDTKSYWKALGISPFHEHAEVVFTANDSGPRRYTIAALLSPYSYSTTAVVTNPKE

>1RLB:E

ERDCRVSSFRVKENFDKARFAGTWYAMAKKDPEGLFLQDNIVAEFSVDENGHMSATAKGRVR
LLNNWDVCADMVGTFTDTEPAKFKMKYWGVASFLQKGNDDHWIIDTDYETFAVQYSCRLL
NLDGTCADSYSFVAFARDPSGFSPQVQKIVRQRQEELCLARQYRLIPHNGYC

3UZ0

>3UZ0:A

GSHMASEKGTVVTEADDDLFITYRLDLEDARSKEREELNAIVSSDDATAKEKSEAYDKMTAL
SEVEGTEKQLETLIKQGYEDALVNAEGDKINITVKSCHKHSSKATAIIDLVAKEIKTMKDVAVT
FEPSK

>3UZ0:B

GSHMGKSMENVAMPVVDSENVSVVKKFYETDAAKEEKEAALVTYNNNTYSLSKGIDLAEKDG
KDFDVSASLSGTVVKAEKDPVLGYVVEVEHADGLSTVYQSLSEVSVEQGDKVKQNQVIGKSG
KNLYSEDSGNHVHFEIRKDG VAMNPLNFM

3OUN

>3OUN:A

MGSSQHSHHSSGLVPRGSHMPQGGGYAEPAGRDYDYGQSGAPDYGQPAPGGYSGYGQGGY
GSAGTSVTLQLDDGSGRTYQLREGSNIIGRGQDAQFRLPDTGVSRRHLEIRWDGQVALLADLN
STNGTTVNNAPVQEWQLADGDVIRLGHSEIIVR

>3OUN:B

GPIAFDALREPDRESSAPPDDVQLVPGARIANGRYRLIFHGGVPPLQFWQALDTALDRQVALT
FVDPQGVL PDDVLQETLSRTLRLSRIDKPGVARVLDVVHTRAGGLVVAEWIRGGSLQE VADTS
PSPVGAIRAMQSLAAAADAHRAGVALSIDHPSRVRSIDGDVVLAYPATMPDANPQDDIRGIG
ASLYALLVNRWPLPEAGVRSGLAPAERDTAGQPIEPADIDRDIPFQISAVAARSVQGDGGIRSAST
LLNLMQQATAVADRTEVLGPIDEAPVSAAPR

4H5S

>4H5S:A

MSLTNHTETITVEEGQTLTLKCVTSLRKNSSLQWLTPSGFTIFLNEYPAKLNKSKYQLLHHSANQ
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>4H5S:B

MQNLFTKDVTVIEGEVATISCQVNKSDDSVIQLLNPNRQTIYFRDFRPLKDSRFQLLNFSSELK
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2LQH

>2LQH:A

GVRKGWHEHVTQDLRSHLVHKLVAIFPTDPAALKDRRMENLVAYAKKVEGDMYESANSR
DEYYHLLAEKIYKIQKELEEKRRSRL

>2LQH:B

GSMSHYGNQTLQDLLTSDSLSHSDGGGSGGGSGGGSSLECDMESIIRSELMDA

1OEY

>1OEY:A

GSHMAYTLKVHYKYTVVMKTQPGLPYSQVRDMVSKKLELRLEHTKLSYRPRDSNELVPLSED
SMKDAWGQVKNYCLTLWCENT

>1OEY:J

GSHMTNWLRVYYEDTISTIKDIAVEEDLSSTPLLKDLLELTRREFQREDIALNYRDAEGDLVR
LLSDEDVALMVRQARGLPSQKRLFPWKLHITQKDNYRVYNTMP

4NG2

>4NG2:A

MGSSHHHHHSQDPMALVDGFLELERSSGKLEWSAILQKMASDLGFSKILFGLLPKDSQDYEN
AFIVGNYPAAWREHYDRAGYARVDPTVSHCTQSVLPIFWEPSIYQTRKQHEFFEEASAAGLVY
GLTMPLHGARGELGALSLSVEAENRAEANRFMESVLPWLWMLKDYALQSGAGLAFEHP

>4NG2:E

MTLRNGVPSMTKDEKEKTHVDAIERYKDLMVEIPPADRQPGLSLLWPVPAQPAIDKGVRQAE
NWLADQIEGQLWTAFAFGRDSLPTPMQKTAFEVAFLTRLQQRLLVAARRSG

4EQA

>4EQA:A

SHMQCIVNACKNSWDKSYLAGTPNKDNC SGFVQSVA AELGVPMPRGNANAMVDGLEQSWT
KLASGAEEAAQKAAQGFLVIAGLKGRTYGHVAVVISGPLYRQKYPMCWCGSIAGAVGQSQGLK
SVGQVWNRTDRDRLNYYVYSLASC

>4EQA:C

ADCTFTQLEIVPQFGSPNMFGGEDEHVRVMFSNEDPNDDNPDAFPEPPVYLADRDSGNDCRIE
DGGIWSRGGVFLSQDGRRVLMHEFGSSAELVSYDSATCKVVHREDISGQRWAVDKDGLRLG
QKCSGESVDS CAKIVKRSLAPFCQTAKK

2K2S

>2K2S:A

KTEIHGDSTKATLEEGQQLTLTFISTKLDVAVG SCHSLVANFLDGFLKFQ TGSNSAFDVVEVEEP
AGPAVLTIGLGHKGR LAVLDYTRLNAALGSAAYVVEDSGCS SSEEVSFQGVGSGATLVVTTL
GESPTAVS

>2K2S:B

MANFVQLSETPAACSSNPCGPEAAGTCKETNSGYICRCNQG YRISLDGTGNVTCIVRQESG

3M0A

>3M0A:A

SELLQRCESELEKKTATFENIVCVLNREVERVAMTAEACSRQHRLDQDKIEALSSKVQQLERSIG
LE

>3M0A:D

MLSCELYRMSTYSTFPAGVPVRSERSLARAGFYITGVNDKVKCFCCGLMLDNWKRGDSPTEKH
KKLYPSCRFVQSL

4KT5

>4KT5:A

AAASMIMKDGIIYSIIFISNEDSCGEGILIKNGNMITGGDIASVYQGVLSEDEDIILHVHRYNYEIP
SVLNIEQDYQLVIPKKVLSNDNNLTLHCHVRGNEKLFVDVYAKFIEPLVIKNTGMPQVYLK

>4KT5:C

MESKNKNGDYVIPDSVKNYDGEPLYILVSLWCKLQEKWISRNDIAEAFGINLRRASFIITYISRR
KEKISFRVRYVSYGNLHYKRLEIFIYDVNLEAVPIESPGTTGPKRKYRVGNGIVGQSNIWNEMI
MRRKKES

2KI4

>2KI4:A

YKKPKLLYCSNGGHFLRILPDGTVDGTRDRSDQHIQLQLSAESVGEVYIKSTETGQYLAMDTD
GLLYGSQTPNEECLFLERLEENHYNTYISKKHAENWFVGLKKNNGSCKRGPRTHYGQKAILFL
PLPVSSD

>2KI4:B

MAAEPLTELESJETVVTFFTFARQEGRKDSLVSNEFKELVTQQLPHLLKDVGSLDEKMKSLD
VNQDSELKFNEYWRLIGELAKEIRKKKDLKIRKK

3T0Y

>3T0Y:A

MGSSHHHHHSQDPMSLLARLAPHLPIRRYARALTGDQATGDHYVRVALEALAAGELVLDA
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RLIGDAQAEIDAELAT

>3T0Y:B

MNFGVEDMIEHVPMEDEKRRKGAALDEARLRQQAIGVKLRQMFDEVVNEPVPDEFLLAILRKA
ERPAGGE

1SV0

>1SV0:A

QLPPSLPSDPRLWSREDVLVFLRFCVREFDLPKLDFDLFQMNGKRLCLLTRADFGHRCPGAGD
VLHNVLQMLIIESHSRHHHHHH

>1SV0:C

PLGSDGLPLDPRDWTRADVWKWLINMAVSEGLEVTAEPLQKFPMNGKALCLMSLDMYLCRV
PVGGKMLYRDFRVRLARAMSR

3L9J

>3L9J:C

LQTVCLKGTHMKCFLAFTQTKTFHEASEDCISRGGTLSTPQTGSENDALYEYLRQSVGNEAEI
WLGLNKRWSRYFWVDMTGTRIAKYNWEHSSDAQPDPSNWENCAVLSGAANGKWFGKRCRD
QLPYICQFGI

>3L9J:T

SDKPVAHVVANPQAEGQLQWLNRRANALLANGVELRDNQLVVPSEGLYLIYSQVLFKGGQCP
STHVLLTHTISRIAVSYQTKVNLLSAIKSPCQRETPEGAEAKPWYEPIYLGGVFQLEKGDRLSAE
INRPDYLDFAESGQVYFGIHAL

3C9A

>3C9A:A

RSIIGGKHGDRDVRILYQVGDSEEDLPVCAPNAVCSKIDLYETPWIERQCRCPCDGRTCPSSLGVE
DGHTIADKTRHYKMCQPVHKL PVCKHFRDYTWLTTAAELNVTEQIVHCRCPRNSVTYLTZR
EPIGNDSPGYRYL FACSPLTRLRCQRKQPCKLFTVRKRQEFLEVNINSLCQCPKGHRCPSHHT
QSGVIAGESFLEDNIQTYSGYCMANDHHHHHH

>3C9A:C

TFPTYKCPETFDAWYCLNDAHCFVAVKIADLPVYSCECAIGFMGQRCEYKEID

2RMS

>2RMS:A

QRLKVEDALSYLDQVKLQFGSQPVYNDFLDIMKEFKSQSIDTPGVISRVSQLFKGHPDLIMGF
NTFLPPG

>2RMS:B

SSTWLSEAEMIALAGLLQMSQGEQTPNCVASSLPSTSCPDPVSVSEDPGPGSDQSCSGTDT

2ARP

>2ARP:A

GLECDGKVNICCKKQFFVSFKDIGWNDWIIAPSGYHANYCEGECPSHIAGTSGSSLSFHSTVIN
HYRMRGHSPFANLKSCCVPTKLRPMSMLYDDGQNIKKDIQNMIVEECGCS

>2ARP:F

GSMETCENVDCGPGKKCRMNKKNKPRCVCAPDCSNITWKGPVCGLDGKTYRNECALLKARC
KEQPELEVQYQGKCKKTCRDVFCPGSSTCVVDQTNAYCVTCNRICPEPSSSEQSLCGNDGVT
YSSACHLRKATCLLGRSIGLAYEGKCIK

2IYB

>2IYB:A

RMSEQSICQARAAMVYDDANKKWVPAGGSTGFSRVHIYHHTGNNTFRVVGRKIQDHQVVIN
CAIPKGLKYNQATQTFHQWRDARQVYGLNFGSKEDANVFASAMMHALEVLNS

>2IYB:E

HAVVCQGCHNAIDPEVQRVTYNNFSWHASTEFLCSCCSKCLIGQKFMPEGMVFCSVECKK
RMS

2LWW

>2LWW:A

ATGPTADPEKRKLIQQQLVLLLHAHKQRREQANGEVRACSLPHCRTMKNVLNHMTHCQAG
KACQVAHCASSRQIISHWKNCTRHDPCVCLPLKNASDKR

>2LWW:B

GSHMKSTQAGEGTLSEALLHLQFDADEDLGALLGNSTDPGVFTDLASVDNSEFQQLLNQGV
MSHSTAEP

3VEP

>3VEP:A

MGSSHHHHHHSQDPMAIEADSVTRMNELLEILPAKQREILILRVVVGLSAEETA AVGSTTGAV
RVAQHRALQRLKDEIVAAGDYA

>3VEP:C

MREFGNPLGDRPPLDELARTDLLLDALAEREEVDFADPRDDALAALLGQWRDDLWPPASAL
VSQDEAVAALRAGVAQRR

2KA4

>2KA4:A

ATGPTADPEKRKLIQQQLVLLLHAHKCQRREQANGEVRACSLPHCRTMKNVLNHMTHCQAG
KACQVAHCASSRQIISHWKNCTRHDPCVCLPLKNASDKR

>2KA4:B

GSHMVPEPDLPHDLRHLNTEPMEIFRNSVKIEEIMPNGDPLLAGQNTVDEVYVSRPS

1R8U

>1R8U:A

TDFIDEEVLMMSLVIEMGLDRIKELPELWLGQNEFDFMTDFVCKQQPSRVS

>1R8U:B

ATGPTADPEKRKLIQQQLVLLLHAHKCQRREQANGEVRACSLPHCRTMKNVLNHMTHCQAG
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3HUG

>3HUG:A

MGSSHHHHHSQDPEQSTPDEVNAALDRLLIADALAQLSAEHRAVIQRSYYRGWSTAQIATDL
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>3HUG:B

MTMPLRGLGPPDDTGPREVSTGDDHHYAMWDAAYVLGALSAAADRREFEAHLAGCPECRGA
VTELCGVPALLSQLDRDEVAAISESAPTVMASGLSPELLPSLLAAVHR

1L8C

>1L8C:A

ADPEKRKLIQQQLVLLLHAHKCQRREQANGEVRACSLPHCRTMKNVLNHMTHCQAGKACQV
AHCASSRQIISHWKNCTRHDPCVCLPLKNASDKR

>1L8C:B

SDLACRLLGQSMDESGLPQLTSYDCEVNAPIQGSRNLLQGEELLRALDQVN

3FPU

>3FPU:A

EDDEDYGDLGGCPFLVAENKTGYPTIVACKQDCNGTTETAPNGTRCFSIGDEGLRRMTANLPY
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>3FPU:B

MSLAADTPTTCCFSYTSRQIPQNFADYFETSSQCSKPGVIFLTKRSRQVCADPSEEWVQKYVS
DLELSA

1WQJ

>1WQJ:B

AIHCPPCSEEKLARCRPPVGCEELVREPGCGCCATCALGLGMPCGVYTPRCGSGLRRCYPPRGV
EKPLHTLMHGQVCMEI

>1WQJ:I

GPETLCGAELVDALQFVCGDRGFYFNKPTGYGSSRRAPQTGIVDECCFRSCDLRRLRLEMYCAP
LKPAKSA

1KXQ

>1KXQ:A

QYAPQTQSGRTSIVHLFEWRWVDIALECYRLGPKGFGGVQVSPNNENIVVTNPSRPWWERYQ
PVSYKLCTRSGNENEFDMVTRCANNVGVRIYVDAVINHMCVSGAAAGTGTTCGSYCNPGSRE
FPAVPYSAWDFNDGKCKTASGGIESYNOPYQVRDCQLVGLLDLALAKDYVRSMIADYLNKLID
IGVAGFRIDASKHMWPGDIKAVLDKLNHLNTNWFPAAGSRPFIFQEVIDLGGEAIKSSEYFGNGR
VTEFKYGAKLGTVVVRKWSGEEKMSYLKNWGEWGFMPDRALVFVDNHDNQRGHGAGGSSI
LTFWDARLYKIAVGFMLAHPYGFTRVMSSYRWARNFVNGEDVNDWIGPPNNNGVIKEVTINA
DTTCGNDWVCEHRWREIRNMVWFRNVVDGQPANWWDNGSNQVAFGRGNRGRFIVFNDD
WQLSSTLQTGLPGGTCDVISGDKVGNSTGKIKVYVSSDGTAQFSISNSAEDPFIAIHAESKL

>1KXQ:E

QVQLVESGGGSVQAGGSLSLSCAASYTDTVGVWFRQAPGKEREVAAIYRRTGYTYSADSVK
GRFTLSQDNNKNTVYLLQMNLSLKPEDTGIYYCATGNSVRLASWEGYFYWGQGTQVTVSS

2P45

>2P45:A

KETAAAKFERQHMSSTSAASSNYCNQMMKSRNLTKDRCKPVNTFVHESLADVQAVCSQK
NVACKNGQTNQYQSYSTMSITDCRETGSSKYPNCAYKTTQANKHIIVACEGNPYVPVHFDASV

>2P45:B

GSQVQMVESGGGLVQAGGSLRLSCAASGYAYTYIYMGWFRQAPGKEREVAAAMDSSGGGGTL
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S

1G6V

>1G6V:A

MSHHWGYGKHNGPEHWHKDFPIAKGERQSPVDIDTHTAKYDPSLKPLSVSYDQATSLRILNN
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NTKYGDFGKAVQQPDGLAVLGIFLKVGSAPGLQKVVDVLDVSIKTKGKSADFTNFDPGRLPE
SLDYWYTPGSLTTPPLLECVTWIVLKEPISVSSEQVLKFRKLNFNGEPEPEELMVDNWRPAQPL
KNRQIKASFK

>1G6V:K

QVQLVESGGGSVQAGGSLRLSCAASGYTVSTYCMGWFRQAPGKEREVATILGGSTYYGDSV
KGRFTISQDNAKNTVYLLQMNLSLKPEDTAIYYCAGSTVASTGWCSRLRPYDYHYRGQGTQVTV
SS

1BUH

>1BUH:A

MENFQKVEKIGEGTYGVVYKARNKLTGEVVALKKIRLDTETEGVPSTAIRESLLKELNHPNIV
KLLDVIHTENKLYLVFEFLHQDLKKFMDASALTGIPLPLIKSYLFQLLQGLAFCHSHRVLHRDL
KPQNLLINTEGAIKLADFGFLARAFGVVVRTYTHEVVTLWYRAPEILLGCKYYSTAVDIWSLGC
FAEMVTRRALFPGDSEIDQLFRIFRTLGTDPDEVVWPGVTSMPDYKPSFPKWARQDFSKVVPPLD
EDGRSLLSQMLHYDPNKRISAKAALAHPPFQDVTKPVPHLRL

>1BUH:B

MSHKQIYYSDKYDDEEFYRHMVLPKDIAKLVPKTHLMSESEWRNLGVQQSQGWVHYMIHE
PEPHILLFRRPLPKKPKK

1BVN

>1BVN:P

QYAPQTQSGRTDIVHLFEWRWVDIALECERYLGPKGFGGVQVSPNENVVVTNPSRPWWERY
QPVSYKLCRSGNENEFRDMVTRCANNVGVRIYVDAVINHMCGSGAAAGTGTTGCSYCNPGSR
EFPVAPYSAWDFNDGKCKTASGGIESYNPDYQVRDCQLVGLLDLALEKDYVRSMIADYLNKLI
DIGVAGFRLDASKHMWPGDIKAVLDKLNHLNNTNWFPAAGSRPFIFQEVIDLGGEAISSEYFGNG
RVTEFKYGAKLGTVVVRKWSGEKMSYLKNWGEWGFMPDRALVFVDNHDNQRGHGAGGS
SILTFWDARLYKVAVGFMFLAHPYGFTRVMSSYRWARNFVNGEDVNDWIGPPNNNGVIKEVTIN
ADTTGNDWVCEHRWREIRNMVWFRNVVDGQPFANWWDNGSNQVAFGRGNRGRFVFNDD
WQLSSTLQTGLPGGTVCNVISGDKVGNSTGIKVYVSSDGTAAQFSISNSAQDPFIAIHAESKL
>1BVN:T
DTTVSEPAVSCVTLYQSWRYSQADNGCAETVTVKVVYEDDTEGLCYAVAPGQITTVGDGYIGS
HGHARYLARCL

1EZU
>1EZU:A
AESVQPLEKIAPYPQAEKGMKRQVIQLTPQEDESTLKVPELLIGQTLEVDCNLHRLGGKLENKTL
EGWGFPPYYVFDKVSSTMMACPDGKKEKFFVTAYLGDAGMLRYNSKLPVVYTPDNVDV
KYRVWKAEEKIDNAVVR
>1EZU:C
IVGGYTCQENSVPYQVSLNSGYHFCGGLINDQWVVSAAHICYKSRIQVRLGEHNINVLEGDE
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GVNEPDLLQCLDAPLLPQADCEASYPGKITDNMVCVGFLEGGKDSQCQDSSGPPVVCNGELQG
IVSWGYGICALPDNPGVYTKVCNYVDWIQDTIAAN

1PXV
>1PXV:A
GHHHHHHEFDQVQYENTLKNFKIREQQFDNSWAAGFSMAALLNATKNTDTYNAHDIMRTLY
PEVSEQDLPCATFPNQMIYEGKSQGRDIHYQEGVPSYNQVDQLTKDNVGMILAQSVSQNPN
DPHLGHALAVVGNAKINDQEKLIVWNPWDELTSIQDADSSLLHLSFNRDYNWYGSIMIGY
>1PXV:C
GSMYQLQFINLVYDTTKLTHLEQTNINLFIGNWSNHQLQKSICIRHGDDTSHNQYHILFIDTAHQ
RIKFSSFDNEEIIYILDYDDTQHILMQTSSKQGIGTSRPVYERLV

1R0R
>1R0R:E
AQTVPYGIPLIKADKVQAQGFKGANVKVAVLDTGIQASHPDLNVVGGASFVAGEAYNTDGNG
HGTHVAGTVAALDNTTGVLGVAPSVSLYAVKVLNSSGSGSYSGIVSGIEWATTNGMDVINMSL
GGASGSTAMKQAVDNAYARGVVVVAAAGNSGNSGSTNTIGYPAKYDSVIAVGAVDSNSNRAS
FSSVGAEEVMAPGAGVYSTYPTNTYATLNGTSMASPHVAGAAALILSKHPNLSASQVRNRLS
STATYLGSSFYYGKGLINVEAAAQ
>1R0R:I
VDCSEYKPACTLEYRPLCGSDNKTYGNKCNFCNAVVESNGTLTLSHFGKC

1ZLI
>1ZLI:A
VRATGHSYKYNWETIEAWTQQVATENPALISRSVIGTTFEGRAIYLLKVGKAGQNKPAIFMD
CGFHAREWISPAFCQWFVREAVRTYGREIQVTELLNKLDYFVLPVLNIDGYIYTWTKSFRWRK
TRSTHTGSSCIGTDPNRNFDAGWCEIGASRNPCDETYCGPAAESEKETKALADFIRNKLSSIKAY
LTIHSYSQMMIYPYSYAYKLGENNAELNALAKATVKELASLHGTYTYGPGATTIYPAAGGSD
DWAYDQGIRYSFTFELRDTGRYGFLLPESQIRATCEETFLAIKYVASYVLEHLY

>1ZLI:B

NECVSKGFGCLPQSDCPQEARLSYGGCSTVCCDLSKLTGCKGKGGECNPLDRQCKELQAESAS
CGKGQKCCVWLH

3N4I

>3N4I:A

SPQPLEQIKLSESQLSGRVGMIEMDLASGRTLAWRADERFPMMSSTFKVVLCGAVLARVDAGD
EQLERKIHVRQQDLVEYSPVSEKHLADGMTVGELCAAITMSDNSAANLLLATVGGPAGLTAF
LRQIGDNVTRLDRWETELNEALPGDARDTTTTASMAATLRKLLTSQRLSARSQRQLLQWMVD
DRVAGPLIRSVLPAGWFIADKTGAGERGARGIVALLGPNNAERIVVIYLRDTPASMAERNQOI
AGIGAALIEHWQR

>3N4I:B

AGVMTGAKFTQIQFGMTRQQVLDIAGAENCETGGSFSGDSIHCGRGHAAGDYAYATFGFTSAA
ADAKVDSKSQEKLLAPSAPTLTLAKFNQVTVGMTRAQVVLATVGGQSCTTWSEYYPAYPSTAG
VTLSLSCFDVDGYSSTGFYRGSAPHLWFTDGVVLQGKRQWDLV

1ZM4

>1ZM4:A

MVAFTVDQMRSMDKVTNVRNMSVIAHVDHGKSTLTDLSLVQRAGIISAACKAGEARFTDTRKD
EQERGITIKSTAIPLYSEMSDEDVKEIKQKTDGNSFLINLIDSPGHVDFSSSEVTAALRVTDGALVV
VDTIEGVCVQTETVLRQALGERIKPVVVINKVDRALLELQVSKEDLYQTFARTVESVNVIVSTY
ADEVLGDVQVYPARGTVAFGSGLHGWAFTIRQFATRYAKKFGVDKAKMMDRLWGDSFFNPK
TKKWTNKDTEAEGKPLERAFNMFILDPFRLFTAIMNFKKDEIPVLEKLEIVLKGDEKDLEGGK
ALLKVVMRKFLPAADALLEMIVLHLPSPVTAQAYRAEQLYEGPADDANCIAIKNCDPKADLML
YVSKMVPTSDKGRFYAFGRVFAAGTVKSGQKVRIQGPNYVPGKKDDLFIKAIQRVVLMMGRFV
EPIDDCPAGNIIGLVGIDQFLLKTGTLTTSETAHNMKVMKFSVSPVVQVAVEVKNANDLPKLVE
GLKRLSKSDPCVLTYSSEGEHIVAGTGELHLEICLQDLEHDHAGVPLKISPPVVAYRETVESES
SQTALSKSPNKHNRILYKAEPIDEEVSLAIENGIINPRDDFKARARIMADDYGDVTDARKIWC
FGPDGNGPNLVIDQTKAVQYLHEIKDSVVAAFQWATKEGPIFGEEMRSVRVNLVDVTLHADAIH
RGGGQIIPTRRATYAGFLLADPKIQEPVFLVEIQCPAQVGGIYSVLNKKRGQVVSEEQRPGTP
LFTVKAYLPVNESFGFTGELRQATGGQAFPQMVFHDHWSTLGS DPLDPTSKAGEIVLAARKRHG
MKEEVPGWQEYYDKL

>1ZM4:B

EFLGDGGDVSFSTRGTQNWTVRLLQHRQLEERGYVVFVGYHGTFLAAQSIVFGGVRARSQ
DLDAIWRGFYIAGDPALAYGYAQDQEPDARGRIRNGALLRVYVPRSSLPGFYRTSLTLAAPEAA
GEVERLIGHPLPLRLDAITGPEEEGGRLETILGWPLAERTVVIPSAIPTDPRNVGGDLDPSSIPDK
EQAISALPDYASQPG

2A9K

>2A9K:A

GSPGISGGGGGSQNSLALHKVIMVSGGGVGSALTLQFMYDEFVEDYEPTKADSYRKKVVLD
GEEVQIDILDTAGQEDYAAIRDNYFRSSEGFLCVFSITEMESFAATADFREQILRVKEDENVPFLL
VGNKSDLEDKRQVSVEEAKNRAEQWNVNYVETS AKTRANVDKVF FDLMREIRARKMEDS

>2A9K:B

GSPGISGGGGGSAYSNTYQEFTNIDQAKAWGNAQYKKYGLSKSEKEAIVSYTKSASEINGKLR
QNKGVINGFPSNLIKQVELLDKSFNMKTPENIMLFRGDDPAYLGTEFQNTLLNSNGTINKTAF
EKAKAKFLNKDRLEYGYISTSLMNVSQFAGRPIITKFKVAKGSKAGYIDPISAFAGQLEMLLPR
HSTYHIDDMRLSSDGKQIITATMMGTAINPK

200B

>200B:A

GSGPEAALENVDAKIAKLMGEGYAFEEVKRALEIAQNNVEVARASILREFAFP

>200B:B

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQURLIFAGKQLEDGRTLSDYNIQKEST
LHLVLRRLRGG

200R

>200R:A

MKIAIPKERRPGEDRVAISPEVVKLVGLGFEVIVEQGAGV GASITDDALTAAGATIASTAAQAL
SQADV VVKVQRPM TAE EGTDE VALIKEGAVLMCHLGALTNRPVVEALTKRKITAYAMELMPR
ISRAQSM DILSSQSNLAGYRAVIDGAYEFARAFPM MMTAAGTVPPARVLVFGVGVAGLQAIATA
KRLGAVVMATDVRAATKEQVESLGGKFITVDDEAMKTAETAGGYAKEMGEEFRKKQAEAVL
KELVKTDIAIT TALIPGKPAPVLITEEMVTKMKPGSVIIDLAVEAGGNCPLSEPGKIVVKHGVKIV
GHTNVPSRVAADASPLFAKNLLNFLTPHVDKDTKTLVMKLEDETVSGTCVTRDGAIVHPALTG
QGA

>200R:C

SVKAGSAEDAAFIMKNASKVIIVPGYGMVAQAQHALREMADV LKKEGVEVS YAIHPVAGRM
PGHMNVLLAEANVPYDEVFELEEINSSFQTADVAFVIGANDVTNPAAKTDPSSPIYGM PILDVE
KAGTVLFIKRSMASGYAGVENELFFRNNTMMLFGDAKKMTEQIVQAMN

2PCC

>2PCC:A

MITTPLVHVASVEKGRSYEDFQKVYNAIALK LREDDEYDNYIGYGPVLVRLAWHISGTWDKH
DNTGGSYGGTYRKFKEFN DPSNAGLQNGFKFLEPIHKEFPWISSGDLFSLGGVTAVQEMQGPKI
PWRCGRVDTPEDTTPDNGRLPDADKDAGYVRTFFQRLNMNDREVVALMGAHALGKTHLKN S
GYEGPWGAANNVFTNEFYLNLLNEDWKLEKNDANNEQWDSKSGYMMLPTDYS LIQDPKYL
SIVKEYANDQDKFFKDFSKAFEKLENGITFPKDAPSPFIFKTLEEQGL

>2PCC:B

TEFKAGSAKKGATL FKTRCLQCHTVEKGGPHKVGPNLHGIFGRHSGQAEGYSYTDANIKKNV
LWDENNMSEYLTNP KKYIPGTKMAFGGLKKEKDRNDLITYLKKACE

1J7D

>1J7D:A

MAVSTGVKVPRNFRLLEELEEGQKGVGDGT VSWGLEDDEDMTLTRWTGMIIGPPRTNYENRI
YSLKVECGPKYPEAPPSVRFVTKINMNGINSSGMVDARSIPVLAKWQNSYSIKVVLQELRRL
MMSKENMKLPQPPEGQTYNN

>1J7D:B

MAGLPRRIKETQRLLAEPVPGIKAEPDESNARYFHVVIAGPQDSPFEGGTFKLELFLPEEY PMA
APKVRFMTKIYHPNVDKLGRICLDILKDKWSPALQIRTVLLSIQALLSAPNPDDPLANDVAEQW
KTNEAQAIETARAWTRLYAMNNI

1U0S

>1U0S:A

GFKTFYIKVILKEGTQLKSARIYLVFHKLEELKCEVVRTIPSVEEIEEEKFENEVELFVISPVDLEK
LSEALSSIADIERVIIKEV

>1U0S:Y

GKRVLIVDDAAFMRMMLKDIITKAGYEVAGEATNGREAVEKYKELKPDIVTMDITMPEMNGI
DAIKEIMKIDPNAKIIVCSAMGQQAMVIEAIKAGAKDFIVKPFQPSRVVEALNKVS

1VET

>1VET:A

MADDLKRFLYKKLPSVEGLHAIVVS DRDGVPIKVANDSAPEHALRPGFLSTFALATDQGSKL
GLSKNKSIICYNTYQVVQFNRLPLVVSFIASSANTGLIVSLEKELAPLFEELIKVVEVS

>1VET:B

MLRPKALTQVLSQANTGGVQSTLLLLNNEGSL LAYS GYGDTDARVTA AIASNIWAAYDRNGNQ
AFNEDSLKFILMDCMEGRVAITRVANLLLCMYAKETVGF GMLKAKAQALVQYLEEPLTQVAAS

1XDT

>1XDT:R

GSHMRVTLSSKPQALATPNKEEHGKRKKKGGKGLGKKRDPCLRKYKDFCIHGECKYVKELRAP
SCICHPGYHGERCHGLS

>1XDT:T

GADDVVDSSKSFVMENFSSYHGTKPGYVDSIQKGIQKPKSGTQGN YDDDWKGFYSTDNKYD
AAGYSVDNENPLSGKAGGVVKV TYPGLTKVLALKVDNAETIKKELGLSLTEPLMEQVGTEEFI
KRFGDGASRVVLSLPAEGSSSVEYINNWEQAKALSVELEINFETRGRGQDAMY EYMAQAC
AGNRVRRSVGSSLSCINLDWDVIRDKTKTKIESLKEHGPIKNKMS EPNKTVSEEKAKQYLEEF
HQTALEHPELSELKTVTGTNPVFAGANYAAWAVNVAQVIDSETADNLEKTTAALSILPGIGSVM
GIADGAVHHNTEEIVAQSIALSSLMVAQAIPLVGELVDIGFAAYNFVESIINLFQVVHNSYNRPAY
SPGHKTQPFLHDGYAVSWNTVEDSIIRTGFQGESGHDIKITAENTPLPIAGVLLPTIPGKLDVNKS
KTHISVNGRKIRMRCRAIDGDVTF CRPKSPVYVGNGVHANLHVAFHRSSSEKIHSNEISSDSIGV
LGYQKTVDHTKVNSKLSLFFEIKS

2F4M

>2F4M:A

GDSTILKVLQSNIQHVQLYENPVLQEKALTCIPVSELKRKAQEKLF RARKL DKGTNVSD EDFLL
LELLHWFKEEFFRWVNNIVCSKCGGETRSRDEALLPNDELK WGAKNVENHYCDACQLSNR
FPRYNNPEKLL ETRCGRCGEWANCFTLCCRALGFEARYVWDYTDHVWTEVYSPSQQRWLHC
DACEDVCDKPLLYEIGWGKKLSYIIAFSKDEVVDVTWRYSCKHDEVM SRRTKVKEELLRETIN
GLNKQRQLSLSERRKELLQRIIVELVEFISPKT PRPGLEHHHHHH

>2F4M:B

GHPLEFLRNQPQFQQMRQIIQQNPSLLPALLQQIGREN PQLLQQISQHQEHFIQMLNEPVG

3BEG

>3BEG:A

DPNDYCKGGYHLVKIGDLFN GRYPVIRKLGWGHFSTVWLSWDIQGKKFVAMKV VKS A EHYT
ETALDEIRLLKSVRNSDPNDPNRE MVVQLLDDFKISGVNGTHICMVFEVLGHLLKWI IKS NY
QGLPLPCVKKIIQQVLQGLDYLHTKRIIHTDIKPENILLSVNEQYIRRLAAEATEWQRSGAPPP
SGSAVSTAPATAGNFLVNP LEPKNAEKLKVKIADLGNACWVHKHFTEDIQTRQYRSLEVLIGSG
YNTPADIWSTACMAFELATGDYLFEPHS GEEYTRDEDHIALIIE LLGKVPRKLIVAGKYSKEFFT
KKGDLKHITKLPWGLFEVLVEKEYEWSQEEAAGFTDFLLPMLELIPEKRATAAECLRHPWLNS

>3BEG:B

GGAPRGRYGPSPRSRSEN RVVVSGLPPSGSWQDLKDHMREAGDVCYADVYRDGTGVVEFVRK
EDMTYAVRKL DNTKFRSHEGETAYIRVKVDGPRSPSYGRSRSRSRSRSRSRSRS

3BLH

>3BLH:A

GPAKQYDSVECPFCDEVSKYEKLAIGQGTGFEVFKARHRKTGQKVALKKVLMENEKEGFPIT
ALREIKILQLLKHENVVNLEICRTKASPYNRCKGSIYLVDFCEHDLAGLLSNVLVKFTLSEIKR
VMQMLLNGLYYIHRNKILHRDMKAANVLITRDGVLKLAADFGLARAFSLAKNSQPNRYTNRVV
TLWYRPPPELLLGERDYGPPIDLWGAGCIMAEMWTRSPIMQGNTEQHQLALISQLCGSITPEVW
PNVDNYELYEKLELVKGGQKRKVKDRLKAYVRDPYALDLIDKLLVLDPAQRIDSDDALNHDF
WSDPMPSDLKGMST

>3BLH:B

GPEGERKNNKRWYFTREQLENSRRFGVDPDKELSYRQQAANLLQDMGQRLNVSQTLTINT
AIVYMHRFYMIQSFRFPGNSVAPAALFLAAKVEGQPKLEHVIKVAHTCLHPQESLPDTRSEA
YLQQVQDLVILESIIQLTGFELTIDHPHTHVVKCTQLVRASKDLAQTSYFMATNSLHLLTFLSQ
YTPPVVACVCIHLACKWSNWEIPVSTDGKHWEYVVDATVTLELLDELHELLQILEKTPNRLK
RIWNWR

1E3U

>1E3U:A

SITENTSWNKEFSAEAVNGVFLCKSSSKSCATNDLARASKEYLPASTFKIPNAIIGLETGVIKNE
HQVFKWDGKPRAMKQWERDLTLRGAIQVSAPVVFQIAREVGEVRMOKYLKKFSYGNQNIS
GGIDKFWLEGQLRISAVNQVEFLESYLNKLSASKENQLIVKEALVTEAAPEYLVHSTGFSGV
GTESNPGVAWWVGWVEKETEYFFAFNMDIDNESKLPLRKSIPKIMESEGIIG

>1E3U:D

SITENTSWNKEFSAEAVNGVFLCKSSSKSCATNDLARASKEYLPASTFKIPNAIIGLETGVIKNE
HQVFKWPGKPRAMKQWERDLTLRGAIQVSAPVVFQIAREVGEVRMOKYLKKFSYGNQNIS
GGIDKFWLEGQLRISAVNQVEFLESYLNKLSASKENQLIVKEALVTEAAPEYLVHSTGFSGV
GTESNPGVAWWVGWVEKETEYFFAFNMDIDNESKLPLRKSIPKIMESEGIIG

1L4D

>1L4D:A

APSFDCGKPKQVEPKCPGRVVGCVAPHSWPWQVSLRTRFGMHFCGGTLISPEWVLTAAHC
LEKSPRPSSYKVLGAHQEVNLEPHVQEIEVSRLFLEPTRKDIALKLSPAVITDKVIPACLPSPN
YVVADRTECFITGWGETQGTGAGLLKEAQLPVIENKVCNRYEFLNGRVQSTELCAGHLAGGT
DSCQGDAGGPLVCFEKDKYILQGVTSWGLGCARPKNPGVYVRVSRFVTWIEGVMRNN

>1L4D:B

NNSQLVSVAGTVEGTNQDISLKFFEIDLTSRPASKPFATDSGAMPHKLEKADLLKAIQEQLIAN
VHSNDDYFEVIDFASDATITDRNGKVYFADKDGSVTLPTQPVEFLLSGHVRVRPYK

2OT3

>2OT3:A

GSHHHHHHSIETDRVSKEFIEFLKTFHKTGQEIYKQTKLFLEGMHYKRDLSIEEQSECAQDFYH
NVAERMQTRGKVPPERVEKIMDQIEKYIMTRLYKYVFCPETDDEKKDLAIQKRIRALRWVTP
QMLCVPVNEDIPEVSDMVVKAITDIIEMDSKRVPRDKLACITKCSKHIFNAIKITKNEPASADDF
LPTLIYIVLKGNNPRLQSNIQYITRFCNPSRLMTGEDGYFTNLCCAFAFIEKLDAQSLNLSQEDF
DRYMSGQTSRQKQAE

>2OT3:B

GSRAYSFKVLLGEGCVGKTSVLVRYCENKFNDKHITTLQASFLTCKLNIKKRVNLAIWDTA
GQERFHALGPIYYRDSNGAILVYDITDEDSFQKVKNWVKELRKMLGNEICLCIVGNKIDLEKE
RHVSIQEAESYAESVGAKHYHTSAKQNKGIEELFLDLCKRMIET

3KUC

>3KUC:A

MREYKLVVLGSGGVGKSALTVQFVQGIFVDEYDPTIEDSYRKQVEVDCQQCMLEILDTAGTEQ
FTAMRDLYMKNQGFALVYSITAQSTFNDLQDLREQILRVKDTEDVPMILVGNKCDLEDERVV
GKEQGQNLARQWCNCAFLESSAKSKINVNEIFYDLVRQINR

>3KUC:B

PSKTSNTIRVFLPNKQRTVVRVRNGMSLHDCLMKKLKVRGLQPECCAVFRLLEHKGKKARL
DWNTDAASLIGEELQVDFL

1R8S

>1R8S:A

MRILMVGLDAAGKTTILYKLLGIVTTIPTIGFNVETVEYKNISFTVWDVGGQDKIRPLWRHY
FQNTQGLIFVVDSDNDRERVNEAREELMRMLAEDELRDVLLVFANKQDLPNAMNAAEITDKL
GLHSLRHRNWYIQATCATSGDGLYEGLDWLSNQLRNQK

>1R8S:E

LEANEGSKTLQRNRKMAMGRKKFNMDPKKGIQFLVENELLQNTPEEIARFLYKGEGLNKTAIG
DYLGEREELNLAVLHAFVDLHEFTDLNLVQALRQFLWSFRLPGKAQKIDRMMEAFQAQRYCLC
NPGVFQSTDTCYVLSYSVIMLNTDLHNPVNRDKMGLERFVAMNRRGINEGGDLPEELLRNLYD
SIRNEPFKIPEDDGND

1ZC3

>1ZC3:A

QNSLALHKVIMVGSAGGVGKSALTLQFMYDEFVEDYEPTKADSYRKKVVLGDGEEVQIDILDTA
GLEDYAAIRDNYFRSGEGFLCVFSITEMESFAATADFREQILRVKEDENVPFLVGNKSDLEDKR
QVSVEEAKNRAEQWNVNYVETSATKANVVDKVFDFLMREIRARKMEDS

>1ZC3:B

LETPGQYLVYNGDLVEYEADHMAQLQRVHGFLMNDCLLVATWLPQRRGMYRYNALYPLDRL
AVVNVKDNPPMKDMFKLLMFESRIFQAENAKIKREWLEEVLEETKRALSDKR

2FU5

>2FU5:A

QGHMVSAEGRNRKAVLCQRCGSRVLQPGTALFSRRQLFLPSMRKKPALSDGSNPDGDLLEQH
WLVEDMFIFENVGFTKDVGNKFLVCADCEIGPIGWHLCLDDKNSFYVALERSHE

>2FU5:C

MAKTYDYLFKLLIGDSGVGKTCVLFRFSEDAFNSTFISTIGIDFKIRTIELDGKRIKLQIWDTAG
QERFRTITTAYYRGAMGIMLVYDITNEKSFDNIRNWIRNIEEHASADVEKMILGNKCDVNDKR
QVSKERGEKLALDYGIKFMETSAKANINVENAFFTLARDIKAKMDKNWKATAAG

2RMK

>2RMK:A

MQAIKCVVVG DGAVGKTCLLISYTTNAFPGEYIPTVFDNYSANVMVDGKPVNLGLWDTAGLE
DYDRLRPLSYPQTDVFLICFSLVSPASFENVRAKWYPEVRHHCNPNTPIILVGTKLDRDDKDTIE
KLKEKKLTPITYPQGLAMAKEIGAVKYLECSALTQRGLKTVFDEAIRAVLCPVPVKKRKRKCLL
L

>2RMK:B

GIPATNLSRVAGLEKQLAIELKVKQGAENMIQTYSNGSTKDRKLLLLTAQQMLQDSKTKIDIIRM
QLRRALQADQLENQAAP

3VHX

>3VHX:A

MEMRILMLGLDAAGKTTILYKLLKLGQSVTTIPTVGFNVETVITYKNVKFNVWDVGGGLDKIRPL
WRHYTGTQGLIFVVDCAADRDRIDEARQELHRIINDREMRDAIILIFANKQDLDPAMKPHEIQE
KLGLTRIRDNRWYVQPSCATSGDGLYEGLTWLTSNYKSLEHHHHHH

>3VHX:B

GSLLFQPDQNAPPIRLRHRRSRSAGDRWVDHKPASNMQTETVMQPHVPHAITVSVANEKALA
KCEKYMLTHQELASDGEIETKLIKGDYKTRGGGQSVQFTDIETLKQESPNGSRKRRS

1PVH

>1PVH:A

GLPPEKPKNLSCIVNEGKKMRCEWDGGRETHLETNFTLKSEWATHKFADCKAKRDTPTSCTV
DYSTVYFVNIEVWVEAENALGKVTSDHINFDPVYKVKPNPPHNLSVINSEELSSILKLTWTNPSI
KSVIILKYNIQYRTKDASTWSQIPPEDTASTRSSFTVQDLKPFTEYVFRIRCMKEDGKGYWSDW
SEEASGITYE

>1PVH:B

CAIRHPCHNNLMNQIRSQLAQLNGSANALFILYYTAQGEPPNNDKLCGPNVTDFFPPFHANGT
EKAKLVELYRIVVYLGTSLGNITRDQKILNPSALSLHSLNATADILRGLLSNVLCRLCSKYHVG
HVDVTYGPDTSKDVVFQKKKLGCCQLLGKYKQIIAVLAQAF

1T6B

>1T6B:X

EVKQENRLLNESESSQGLLGYYFSDLNFQAPMVVTSSTTGDLSSIPSELENIPSENQYFQSAIW
SGFIKVKKSDEYTFATSADNHVTMWVDDQEVINKASNSNKIRLEKGRLYQIKIQYQRENPTK
GLDFKLYWTDSONKKEVISSDNLQLPELKQKSSNSRKKRSTSAGPTVPDRDNDGIPDSLEVEG
YTVDVKNKRTFLSPWISNIHEKKGLTKYKSSPEKWSTASDPYSDFEKTGRIDKNVSPEARHPL
VAAYPIVHVDMENIILSKNEDQSTQNTDSQTRTISKNTSTSRHTSEVHGNAEVHASFFDIGGSV
SAGFSNSNSSTVAIDHSLSLAGERTWAETMGLNTADTARLNANIRYVNTGTAPIYVNLPTTSLVL
GKNQTLATIKAKENQLSQILAPNNYPSKNLAPIALNAQDDFSSTPITMNYNQFLELEKTKQLR
LDTDQVYGNATYNFENGRVRVDTGSNWSEVLPQIQETTARIIFNGKDLNLVERRIAAVNPSDPL
ETTKPDMTLKEALKIAFGFNEPNGNLQYQGGKDFEFDNFDDQTSQNIKNQLAELNATNIYTVL
DKIKLNAKMNILIRDKRFHYDRNNAVGADESVVKEAHREVINSSTEGLLLIDKDIRKILSGYI
VEIEDTEGLKEVINDRYDMLNISSLRQDGKTFIDFKKYNDKLPYISNPYKVVVYAVTKENTII
NPSENGDTSTNGIKKILIFSCKGYEIG

>1T6B:Y

GSHMLEDPGRRAFDLYFVLDKSGSVANNWIEIYNFVQQLAERFVSPERMLSFIVFSSQATIILP
LTGDRGKISKGLEDLKRVSPVGETYIHEGLKLANEQIQKAGGLKTSSIIIALTDGKLDGLVPSYA
EKEAKISRSLGASVYCVGVLDFEQAQLERIASKEQVFPVKGGFQALKGIINSSNGIAA

2HLE

>2HLE:A

AGHHHHHHEETLLNNTKLETADLKWVTFPQVDGQWEELSGLDEEQHSVRTYEVCVQVRAPGQ
AHLWRTGWVPRRGAVHVYATLRFMTLECLSLPRAGRCKETFTVFFYESDADTATALTPAWM
ENPYIKVDTVAAEHLTRKRPGEATGKVNKTLRLGPLSKAGFYLAQDQGACMALLSLHLF
YKK

>2HLE:B

IVLEPIYWNSSNSKFLPGQLVLYPQIGDKLDIICPKVDSKTVGQYEEYKVVYVMDKDQADRCTI
KKENTPLLNCARPDQDVKFTIKFQEFSPNLWGLEFQKNKDYIISTSNGLSLEGLDNQEGGVCQT
RAMKILMKVG

2I9B

>2I9B:A

RSSNELHQVPSNCDCLNGGTCVSNKYFSNIHWCNCPKKFGGQHCEIDKSKTCYEGNGHFYRG
KASTDTMGRPCLPWNSATVLQQTYHAHRSDALQLGLGKHNYCRNPDNRRRPWCYVQVGLK
PLVQECMVHDCADGKKPSSPPEE

>2I9B:E

RSLRCMQCKTNGDCRVEECALGQDLCRTTIVRLWEEGEELELVEKSCTHSEKTNRTLSYRTGL
KITSLTEVVCGLDLNQGNSGRAVTYSRSRYLECISCGSSDMSCERGRHQSLQCRSPEEQCLDV
VTHWIQEGEEGRPDKDDRHLRGCGYLPGCPGNSGFHNQDTFHFLKCCQTTKNEGPILELENLP
QNGRQCYSCKGQSTHGCSSEETFLIDCRGPMNQCLVATGTHEPKQQSYMVRGCATASMCQHA
HLGDAFSMNHIDVSCCTKSGCNHPDLD

2NYZ

>2NYZ:A

LTLGLAPALSTHSSGVSTQSVDLISQIKRGDEIQAHCCLTPAETEVTCECAGILKDVLSKNLHELQGL
CNVKNKMGVPWVSVEELGQEIITGRLPFPSVGGTPVNDLVRVLVVAESNTPEETPEEEFYAYVE
LQTELYTFGLSDDNVVFTSDYMTVWMIDIPKSYVDVGMLTRATFLEQWPGAKVTVMIPYSSTF
TWCCELGAISEESAPQPSLSARSPVCKNSARYSTSKFCEVDGCTAETGMEKMSLLTPFGGPPQQ
AKMNTCPCYYKYSVSPLPAMDHLILADLAGLDSLTPVYVMAAYFDSTHENPVRPSSKLYHCA
LQMTSHDGVWTSTSSSEQPIRLVEGQSQNVLQVRVAPTSMPNLVGVSLMLEGQQYRLEYFGD
H

>2NYZ:D

VGSEVSDKRTCVSLLTQRLPVSRIKTYTITEGSLRAVIFITKRGLKVCADPQATWVRDVVRSMD
RKSNTNRMNIQTKPTGTQQSTNTAVTLTG

1AXI

>1AXI:A

FPTIPLSRLFDNAMLRAHRLHQLAFDQYQEFEEAYIPKEQKYSFLQNPQTSLCFSESIPTPSNREE
TQQKSNLELLRISLLLIQSWLEPVQFLRSVFANSLVYGASDSNVYDLLKDLEERIQTLMGRLTD
GSPRTGQIFKQTYSKFDTNSHNDDALLKNYGLLYCFRRDMTYVATYLRIVQCRSVEGSCGF

>1AXI:B

FSGSEATAAILSRAVWLSQSVNPGLKTNSSGEPKFTKCRSPERETFSCHWTDDEVHHGTKNEGPI
QLFYTRRNTQEWQEWKECPDYVSAGENSCYFNSSFTSIAIPYCIKLTSSNGGTVDKCFVDEI
VQPDPIALNWTLNLSLTIHADIQVRWEAPRNADIQKGMVLELEYELQYKEVNETKWKMM
DPILTTSPVYSLKVDKEYEVRVRSKQRNSGNYGEFSEVLYVTLPQM

1Y6K

>1Y6K:L

SPGQGTQSENSCTHFPGNLPNMLRDLRDAFSRVKTFQMKDQLDNLLLKESLLEDFKGYLGCQ
ALSEMIQFYLEEVMQAENQDPDIKAHVNSLGENLKTLLRRLRRCHRFLPCENKSKAVEQVKN
AFNKLQEKGIYKAMSEFDIFINYIEAYMTMKIRN

>1Y6K:R

HGTELPSPPSVWFEEFFHHILHWTPIPQQSESTCYEVALLRYGIESWNSISQCSQTLSDTLTAVT
LDLYHSNGYRARRAVDGSRHSQWTVTNTRFSVDEVTLTVGSVNLEIHNGFILGKIQLPRPKM
APAQDTYESIFSHFREYEIAIRKVPQGQFTFTHKKVKHEQFSLTSGEVGEFCVQVKPSVASRSNK
GMWSKEECISLTRQYFTVTN

2J12

>2J12:A

GAMGSWNPKYDTRTLWTTPTDTSFNCTIAQDKDSKLTLLVLTCKGSQILANVSLIVVAGKYHIINN
KTNPKIKSFTIKLLFNKNGVLLDNSNLGKAYWNFRSGNSNVSTAYEKAIGFMPNLVAYPKPSNS
KKYARDIVYGTIYLGKPKDQPAVIKTTFNQETGCEYSITFNFSWSKTYENVEFETTSFTFSYIAQ
E

>2J12:B

MADFARLSITTPEEMIEKAKGETAYLPCKFTLSPEDQGPLDIEWLISPADNQKVDQVIILYSGD
KIYDDYYPDLKGRVHFTSNDLKSGDASINVTLQLSDIGTYQCKVKKAPGVANKKIHLVVLVK

3SJH

>3SJH:A

DEDETTALVCDNGSGLVKAGFAGDDAPRAVFPISVGRPRHQGVVMVGMGQKDSYVGDEAQS
RGILTLKYPIEHGIITNWDDMEKIWHHTFYNELRVAPEEHPTLLTEAPLNPKANREKMTQIMFET
FNVPAMYVAIQAVLSLYASGRTTGIVLDSGDGVTHNVPIYEGYALPHAIMRLDLAGRDLTDYL
MKILTERGYSFVTTAEREIVRDIKEKLCYVALDFENEMATAASSSSLEKSYELPDGQVITIGNERF
RCPETLFQPSFIGMESAGIHETTYNSIMKCDIDIRKDLYANNVMSGGTTMYPGIADRMQKEITAL
APSTMKIKIIPPERKYSVWIGGSILASLSTFQQMWITKQEYDEAGPSIVHRKCF

>3SJH:B

GPLGSLKDLPKVAENLKSQLEGFNQDKLKKTTETQEKNPLPSKETIEQEKQAGES

2VDB

>2VDB:A

EVAHRFKDLGEENFKALVLIIFAQYLQCCPFEDHVKLVNEVTEFAKTCVADESAENCDKSLHT
LFGDKLCTVATLRETYGEMADCCAKQEPERNECFLQHKDDNPNLPRLRPEVDVMCTAFHDN
EETFLKKYLYEIIARRHPYFYAPELFFAKRYKAAFTECCQAADKAAACLLPKLDELREDEGKASS
AKQRLKCASLQKFGERAFAKAWAVARLSQRFPKAEFAEVSKLVTDLTKVHTECCHGDLLECAD
DRADLAKYICENQDSISSKLKECCEKPLLEKSHCIAEVENDEMPADLPSLAADFVESKDVCKNY
AEAKDVFLGMFLYEYARRHPDYSVVLRLAKTYETTLEKCCAAADPHECYAKVFDEFKPLV
EEPQNLIKQNCLEFELGEYKFNALLVRYTKKVPQVSTPTLVEVSRNLGKVGSKCCKHPEAK
RMPCAEDYLSVVLNQLCVLHEKTPVSDRVTKCCTESLVNRRPCFSALEVDETYVPKEFNAETF
TFHADICTLSEKERQIKKQTALVELVKHKPKATKEQLKAVMDDFAAFVEKCKADDKETCFAE
EGKKLVAASQAALG

>2VDB:B

HMTIDQWLLKNAKEDAIAELKKAGITSDFYFNAINKAKTVEEVNALKNEILKAHA

3T6G

>3T6G:A

MGKTFTVPIVEVTSSFNPAFQSLIPRDNRPLEVGLLRKVKELLAEVDARTLARHVTKVDCLV
ARILGVTKEMQTLMGVVRWGMELLLTPHGRQLRLDLLERFHTMSIMLAVDILGSTGSAEERAAL
LHKTIQLAAELRGTMGNMFSFAAVMGALDMAQISRLEQTWVTLRQRHTEGAILYEKKLKPF
KSLNEGKEGPPLSNTTFPHVLPPLITLLESDSAPPEGPEPWGSTEHGVEVLAHLEAARTVAHHG
GLYHTNAEVKLQGFQARPELLEVFSTEFQMRLWGSQGASSSQARRYEKFDKVLTAISHKLEP
AVRSSELLEHHHHHH

>3T6G:B

MSQDSPDGQYENSEGGWMEDYDYVHLQGKEEFEKTQKELLEKGSITRQGKSQLELQQLKQF
ERLEQEVSRPIDHLANWTPAQPLAPGRTGGLGPSDRQLLLFYLEQCEANLTLTNAVDAFFTA
VATNQPPKIFVAHSKFVILSAHKLFIGDTLSRQAKAADVRSQVTHYSNLLCDLLRGIVATTKAA
ALQYPPSAAQDMVERVKELGHSTQQFRRVLGQLAAALE

4JRA

>4JRA:A

MKKHHHHHHHGSVPRGSKNIINTSILNLRYESNHLIDL SRYASKINIGSKVNFDPIDKNQIQLFNL
ESSKIEVILKNAIVYNSMYENFSTSFWRIPKYFNSISLNNEYTIINCMENNSGWKVSLSNYGEIHW
TLQDTQEIKQRVVFKEYSQMINISDYINRWIFVTITNNRLNNSKIYINGRLIDQKPISNLGNIHASN
NIMFKLDGCRDTHRYIWIKYFNLFDKELNEKEIKDLYDNQSN SGILKDFWGDYLYQYDKPYM
LNLYDPNKYVDVNNV GIRGYMYLKGPRGSVMTTNIYLNSSLYRGT KFIKKYASGNKDNIVRN
NDRVYINVVVKNKEYRLATNASQAGVEKILSALEIPDVGNLSQVVVMKSKNDQGITNKCKMN
LQDNNGNDIGFIGFHQFNNAKLVASNWYNRQIERSSRTL GCSWEFIPVDDGWGERPL

>4JRA:C

MKKHHHHHHHGSVPRGSDVIKPLQSDEYALLTRNVERDKYANFTINFTMENQIHTGMEYDNG
RFIGVKFKSVTFKDSVFKSCTFEDVTSVNTYFKNCTFIDTVFDNTDFEPYK FIDSEFKNCSFFHN
KTGCQITFD

3IFQ

>3IFQ:A

KSAIVHLINYQDDAELATRALPELTKLLNDEDPVVVTKAAMIVNQLSKKEASRRALMGSPQLV
AAVVRTMQNTSDLD TARCTTSILHNL SHHREGLLAIFKSGGIPALVRMLSSPVESVLFYAITTLH
NLLLYQEGAKMAVRLADGLQKMVPLL NKNPKFLAITTDCLQLLAYGNQESKLIILANGGPQA
LVQIMRNYSYEKLLWTTSRVLKVL SVCPSNKPAIVEAGGMQALGKHLTNSPRLVQNCLWTLR
NLSDVATKQEGLESVLKILVNQLS VDDVNVLT CATGTLSNLTCNNSKNKTLVTQNSGVEALHA
ILRAGDKDDITEPAVCALRHLSRHPEAEMAQNSVRLNYGIPAIVKLLNQPNQWPLVKATIGLIR
NLALCPANHAPLQEA AVIPRLVQLLVKAHQDAQRHVAAGTQQPYTDGVRMEEIVEGCTGALHI
LARDPMNRMEIFRLNTIPLFVQLLYSSVENIQRVAAGVLCELAQDKEAADAIDAEGASAPLMEL
LHSRNEG TATYAAAVLFRISEDKNPDYRKRVSVELTNSL FKHD

>3IFQ:C

LDARPEVTRNDVAPTLMSVPQYRPRPANPDEIGNFIDENLKAADSPTAPPYD SLLVFDYEGSG
SEAASLSSLNSSES DQDQDYDYLNEWGNRFKKLADMYGGGEDD

1XQS

>1XQS:A

GSHMRGQRGEVEQMKSLRVL SQPMPPTAGEAEQAADQQEREGALELLADLCENMDNAADF
CQLSGMHLLVGRYLEAGAAGLRWRAAQLIGTCSQNVAAIQEQVLGLGALRKLRLDRDACD
TVRVKALFAISCLVREQEAGLLQFLRLDGFSVLMRAMQQVQKLKVKSAFLLQNLVGHPEH
KGTLC SMGMVQQLVALVRTEHSPFHEHVLGALCSLVTDFPQGVRECREPELGLEELLRHRCQL
LQQHEEYQEELEFCEKLLQTCFSSPADDSMDR

>1XQS:C

GAMGLDRTGKGERNVLIFDLGGGTFDVSILTIDDGIFEVKATAGDTHLGGEDFDNRLVNHFVEE
FKRKHKKDISQNKRAVRLRTACERAKRTLSSSTQASLEIDSLFEGIDFYTSITRARFEELCSDLF
RSTLEPVEKALRDAKLDKAQIHDLVLVGGSTRIPKVQKLLQDFFNGRD LNKSINPDEAVAY

1G04

>1G04:A

MALQLSREQGITLRGSAEIVAEFFSFGINSILYQRGIYPSETFTRVQKYGLTLLVTTDLELIKYLNN
VVEQLKDWLYKCSVQKLVVVISNIESGEVLERWQFDIECDKTAKDDSAPREKSQKAIQDEIRSV
IAQITATVTFLPLLEVSCSFDLLIYTDKDLVVPEKWEESGPQFITNSEE VRLRSFTTTIHKVNSMV
AYKIPVND

>1G04:E

SSAEQSFLFSREEADTLRLKVEELEGERSRLEEEKRMLEAQLERRALQGDYDQSRTKVLHMSL
NPTSVARQRLREDHSQLQAECERLRGLLRAMERGGTV

4GH7

>4GH7:A

QDSTSDLIPAPPLSKVPLQQNFQDNQFHGKWYVVGKAGNHDLREDKDPRKMQATIIYELKEDK
SYNVTNVRVHKKCNYRIWTFVPGSQPGEFTLGNISWPGLTSWLVRVSTNYNQHAMVFFK
RVYQNRELFEITLYGRTKELTNELKENFIRFSKSLGLPENHIVFPVPIDQCIDGSAWSHPQFEK

>4GH7:B

MPLSPPTNLHLEANPDTGVLTVSWERSTTPDITGYRITTTPTNGQQGNSLEEVVHADQSSCTFD
NLSPGLEYNVSVYTVKDDKESVPISDTHIPEVPQLTDL SFVDITDSSIGLRWTPLNSSTIIGYRITV
VAAGEGIPIFEDFVDSSVGYTVTGLEPGIDYDISVITLINGGESAPTTLTQQTAVPPPTDLRFTNI
GPD TMRVTWAPPSIDL TNFLVRYSPVKNEEDVAEL SISPSDNAVLTNLLPGTEYVVS SVSSVYE
QHESTPLRGRQKTGSAHHHHHH

4G59

>4G59:A

MLDDAHSRLCNLTIKAPTPADPLWYEA KCLVDEILILHLSNINKTMTSGDPGETANATEVGECL
TQPVNDLCQKL RDKVSN TKVDTHKTNGY PHLQVTMIYPQS QGQTPSATWEFNISDSYFFTFYT
ENMSWRSANDESGVIMNKWNDDGDLVQRLKYFIPECRQKIDEFLKQSKEKPRSTSRSPSITQLT
STSPLPPPSHSTSK

>4G59:C

GSSYMDVRIFEDERV DICQDLTATFISYREGPEMFRHSINLEQSSDIFRIEASGEVKHFPWMNVSE
LAQESAFFVEQERFVY EYIMNVFKAGR PVVFEYRCKFVPFECTVLQMMDGNTLTRYTVDKGV
ETLGSPPYSPDVSEDDIARYGQSGSILRDNAALLQKRWTSFCRKIVAMDNPRHNEYSLYSNR
GNGYVSCTMRTQVPLAYNISLANGVDIYKYMRMYSGGRLKVEAWLDRDLNGSTDFAFVISS
PTGWYATVKYSEYPQQSPGMLLSSIDGQFESSAVVSWHRGHGLKHAPPVSAEYSILVPRGSHH
HHHH

3U82

>3U82:A

KYALVDASLKMADPNRFRGKDL PVL DQLTDP PGVRRVYHIQAGLPDPFQPPSLPITVYYAVLER
ACRSVLLNAPSEAPQIVRGASEDVRKQPYNLTIAWFRMGGNCAIPITVMEYTECSYNKSLGAC
PIRTQPRWNYYSFS AVSEDNLGFLMHAPAFETAGTYLRLVKINDWTEITQFILEHRAKGCKY
ALPLRIPPSACLSPQAYQQGVTVD SIGMLPRFIPENQRTVAVYSLKIAGWHGPKAPYTSTLLPPE
LSETPNATQPELAPEDPEDSALLEDPVGTTHHHHHH

>3U82:B

SQVVQVNDSMYGFIGTDVVLHCSFANPLPSVKITQVTWQKSTNGSKQNVAIYNPSMGVSVLAP
YRERVEFLRPSFTDGTIRLSRLELEDEGVYICEFATFPTGNRESQLNLTVMAPTNWIEGTQAVL
RAKKGQDDKVLVATCTSANGKPPSVVSWETRLKGEAEYQEIRNPNGTVTVISRYRLVPSREAH
QQLACIVNYHMDRFKESLTLNVQYEPEVTIEGFDGNWYLQRMDVKLTCKADANPPATEYHW
TTLNGSLPKGVEAQNRTLFFKGPINYSLAGTYICEATNPIGTRSGQVEVNITEAAALEHHHHHHH

3ONL

>3ONL:A

SLMSVDPNYTEMEGKVREATNNEPWGASSTLMDQISQGTYNFRERE EILSMIFRRFTEKAGSE
WRQIYKALQLLDYLIKHGSERFIDDTRNSINLIRILETFHYIDSQGRDQGINVRTRVKALIELLSD
DNKIRAERKKARETAKKYKGV

>3ONL:C

SLLYSYESDFKTTLEQAKASLAEAPSQPLSQRNTTLKHVEQQQDELFDLLDQMDVEVNNSIGD
ASERATYKAKLREWKKTIQSDIKRPLQSLVDSGD

1XD3

>1XD3:A

MEGQRWLPLEANPEVTNQFLKQLGLHPNWQFVDVYGMPELLSMVPRPVCVAVLLLPITEKY
EVFRTEEEEEKIKSQGDVTSSVYFMKQTISNACGTIGLIHAIANNKDKMHFESGSTLKKFLEES
VSMSPEERARYLENYDAIRVTHETSAHEGQTEAPSIDEKVDLHFIALVHVDGHLIELDGRKPPF
INHGETSDETLLEDAIEVCKKFMERDPDELRFNAIALSAA

>1XD3:B

MQIFVKTTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQLIFAGKQLEDGRTLSDYNIQKEST
LHLVLRRLRG

2LXM

>2LXM:A

MAALAPLPPLPAQFKSIQHHLRTAQEHDKRDPVVAYYCRLYAMQTMKIDSKTPECRKFLSKL
MDQLEALKKQLGDNEAITQEIVGCAHLENYALKMFLYADNEDRAGRFBHKNMIKSFYTASLLID
VITVFGELTDENVKHRKYARWKATYIHNCLKNGETPQAGPVG

>2LXM:B

MEDANEINEALSRSYGTPELDEDDLEAELDALGDELLADEDSSYLDEAASAPAIPEG

1P3Q

>1P3Q:Q

SSLIKKIEENERKDTLNTLQNMFPDMDPSLIEDVCIAAASRIGPCVDALLSLSE

>1P3Q:U

MQIFVKTTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQLIFAGKQLEDGRTLSDYNIQKEST
LHLVLRRLRGG

2I32

>2I32:A

MGSSHHHHHDYDIPTTENLYFQGSMAKVQVNNVVLDNPSPFYNPFQFEITFECIEDLSEDL
WKIIYVGSASEEYDQVLDSVLVGPVAPGRHMFVFQADAPNPGLIPDADAVGVTVVLITCTYR
GQEFIRVGYVYVNNNEYTETELRENPPVKPDFSKLQRNILASNPRVTRFHINWEDNT

>2I32:E

SENLYFQGSATS VAGVVNGESLEDIRKNLLKKQVETRTADGRRRITPLCIAQLDTG

3D5R

>3D5R:A

GSRSTDAERLKHLLIVTPSGAGEQNMIGMTPTVIAVHYLDETEQWEKFGLEKRQGALELIKKGY
TQQLAFRQPSSAFAAFVKRAPSTWLTAYVVKVFLAVNLIADSQVLCGAVKWLILEKQKPDGV
FQEDAPVIHQEMIGGLRNNNEKDMALTAFLISLQEAKDICEEQVNSLPGSITKAGDFLEANYM
NLQRSYTVIAIAGYALAQMGRLLKGPLLNKFLTTAKDKNRWEDPGKQLYNVEATSYALLALLQL
KDFDFVPPVVRWLNEQRYYGGGYGSTQATFMVFQALAQYQKDAP

>3D5R:C

TDATIKKEQKLIQAQNLVREFEKTHTVSAHRKAQKAVALVSFEYKVKKMVLQERIDNVLKQGL
VR

2LD7

>2LD7:A

SNAGSDDDGGDSPVQDIDTPEVDLYQLQVNTLRRYKRHFKLPTRPGLNKAQLVEIVGCHFKSIP
VNEKDTLTCFIYSVRNDKNKSDLKADSGVH

>2LD7:B

SNASKHGVGTESLFFDKVRKALRSAEAYENFLRCLVIFNQEVISRAELVQLVSPFLGKFPPELNFN
WFKNFLGYKES

2HTH

>2HTH:A

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLLIFAGKQLEDGRTLSDYNIQKEST
LHLVLRRLGG

>2HTH:B

GHMDFVWVTSGLLEINETLVIQQRGVRIYDGEKIKFDAGTLLLSTHRLIWRDQKNHECCMAI
LLSQIVFIEEQAAAGIGKSAKIVVHLHPAPPNKEPGPFQSSKNSYIKLSFKEHGQIEFYRRLSEEMT
QRRWENMPVSQ

4KT3

>4KT3:A

MGPGLLYNHAAKTAVNGIDRSTEGTNVSARLCNNISAVTFVSKYKAVCQPIADQLDLPVENLL
GLAAQESQYGTGRIARELNYYFSMHAPAPLQIGAEAPLGNASIKVAKFDSFQKSAQSFASSFGT
AVRGQRDPMAFAQALVRSYNTGNAKTGGRDGFARYLADIIIVRGRMAC

>4KT3:B

GSHMATDSLQPARIKDSGLTREQAEQVLRVALKHQDYQLQRPGVFIDGDLQDENGKPPHPGYY
DFSLGYNDPKAGATEYWGLFSVSLNTGDTWEINSCKRLDGAELRALQRRVMARTGKSLADEK
SQREGLGCEDQQ

2IJ0

>2IJ0:A

STNDNIKDLLDWYSSGSDTFTNSEVLDNSLGSMRIKNTDGSISLIIFSPYYSPAFTKGEKVDLN
TKRTKKSQHTSEGTYIHFQISGVNTTEKLPTPIELPLKVKVHGKDSPLKYWPKFDKKQLAISTL
DFEIRHQLTQIHGLYRSSDKTGGYWKITMNDGSTYQSDLKKFEYNTEKPPINIDEIKTIEAEIN

>2IJ0:C

GAVVSQHPSMVIVKSGTSVKIECRSLDTNIHTMFWYRQFPKQSLMLMATSHQGFNAIYEQGVV
KDKFLINHASPTLSTLTVTSAHPEDSGFYVCSALAGSGSSTDTQYFGPGTQLTVL

2IXQ

>2IXQ:A

SAELHLESRGGSGTQLRDGAKVATGRIICREAHTGFHVWMNERQVDGRAERYVVQSKDGRHE
LRVRTGGDGWSPVKGEGGKGVSRPGQEEQVFFDVMADGNQDIAPGEYRFSVGGACVVPQED
NKQGFTPSGTTGTTKLTVT

>2IXQ:B

EECQVRVGDLTVAKTRGQLTDAAPIGPVTVQALGCNARQVALKADTDNFEQGKFFLISDNNRD
KLYVNIRPMDNSAWTTDNGVFYKNDVGSWGGTIGIYVDGQQTNTPPGNYTLTLTGGYWAKD
NKQGFTPSGTTGTTKLTVT

2CJS

>2CJS:A

GSPGISGGGGGILSLLCVGVKKAKFDGAQEKFNTYVTLKVQNVESTTIAVRGSQPSWEQDFMF
EINRLDLGLTVEVWNKGLIWDTMVGTWVWIPLRITIRQSNEEGPGEWLTLDLDSQAIMADSEICGTK
DPTFHRILLDAHFEPLDIPEEEARYWAKKLEQLNAKLNSS

>2CJS:C

GSQEQKGDAPTCGICHKTKFADGCGHNCSYCQTKFCARCGGRVSLRSNKVMWVCNLCRKQQ
E

2LFW

>2LFW:A

MSLGQQLAPHLPLRRYGRALTGSQNQGDKYVRATLEAIVAAPDQFPRDVPRLGLYRMFQGI
WASANADGEAQTSQSDAEGTEAVARARLARMTPLSRQALLTAMEGFSPEDAAYLIEVDTSEV
ETLVTEALAEIEKQTRALELVPRGSHHHHHH

>2LFW:B

MLDLPGNKDKKASSKKSPAKVQSKDRDMGAALRSAYQKTIEEQVPDEMLDLLNKLALVELVPR

2JJS

>2JJS:A

EEELQVIQPKSVSVAAGESAILHCTVTSVIPVGPIQWFRGAGPARELIYNQKEGHFPRVTTVSE
STKRENMDFSISISNITPADAGTYCYVKFRKGGSPDTEFKSGAGTELSVRAKPSTRHHHHHH

>2JJS:C

ELLFNKTKSVEFTFGNDTVVIPCFVTNMEAQNTTEVYVKWKFKGRDIYTFDGALNKSTVPTDF
SSAKIEVSQLLKGDASLKMDKSDAVSHTGNYTCEVTELTREGETIHELKYRVVSWSTRHHHHH
H

1JTD

>1JTD:A

HPETLVKVKDAEDQLGARVGYIELDLNSGKILESFRPEERFPMMSSTFKVLLCGAVLSRVDAGQ
EQLGRRRIHYSQNDLVEYSPVTEKHLTDGMTVRELCSAAITMSDNTAANLLLTIGGPKELTAFL
HNMGDHSVTRLDRWEPELNEAIPNDERDTTMPVAMATTLRKLTTGELLTLASRQQLIDWMEAD
KVAGPLLRSALPAGWFIADKSGAGERGSRGIIAALGPDGKPSRIVVIYTTGSQATMDERNRQIA
EIGASLIKHW

>1JTD:B

VAATSVVAWGGNNDWGEATVPAEAQSGVDAIAGGYFHGLALKGGKVLGWGANLNGQLTMP
AATQSGVDAIAAGNYHSLALKDGEVIAWGGNEDGQTTVPAEARSQVDAIAAGAWASYALKD
GKVIWAGDSDGQTTVPAEAQSGVTALDGGVYVYALAVKNGGVIAWGDNYFGQTTVPAEAQS
GVDDVAGGIFHSLALKDGGKVIWAGDNRYKQTTVPTALSGVSAIASGEWYSLALKNGKVIW
GSSRTAPSSVQSGVSSIEAGPNAAYALKG

4HX3

>4HX3:A

GPMVTVTYDPSNAPSFQQEIANAAQIWNSSVRNVQLRAGGNADFSYYEGNDSRGSYAQTDGH
GRGYIFLDYQQNQYDSTRVTAHETGHVGLLPDHYQGPCSELMSGGGPGPCTNPYPNAQER
SRVNALWANG

>4HX3:B

GSAHGPSAMVFTVIQSGEPTDTVLRATTLSCAYTAEGTHPAPRAACDALNATDGELNRLAA
PDPSLVCPMYFDPVTVTADGVLNRRVAWKHTFSNTCVMSANLNSNPVYAF

4IZ7

>4IZ7:A

GPGGAGPEMVRGQVFDVGPRTNLSYIGEGAYGMVCSAYDNVNKVRVAIKKISPFHQTYCQ
RTLREIKILLRFRHENIIGINDIIRAPTIEQMKDVIYVQDLMETDLYKLLKTQHLSNDHICYFLYQI
LRGLKYIHSANVLHRDLKPSNLLLNTTCDLKICDFGLARVADPDHDHTGFLTEYVATRWRAP
EIMLNSKGYTKSIDIWSVGCILAEMLSNRPIFPKHYLDQLNHILGILGSPSQEDLNCIINLKARN

YLLSLPHKNKVPWNRLFNPADSKALDLLDKMLTFNPHKRIEVEQALAHYPYLEQYYDPSDEPIA
EAPFKFDMELDDLDPKEKLELIFEETARFQPGYRS

>4IZ7:B

GMAEYGTLLQDLTNNITLEDLEQLKSACKEDIPSEKSEEITTSASAWFSFLESHNKLDKDNLSYIE
HIFEISRRPDLLTMVVDYRTRVLKISEEDEL

2GAF

>2GAF:A

MDVVSLDKPFMYFEEIDNELDYEPESANEVAKKLPYQGQLKLLLGELFFLSKLQRHGILDGAT
VVYIGSAPGTHIRYLRDHFYNLGVIIKWMLIDGRHHDPI NGLRDVTLVTRFVDEEYLRSIKKQ
LHPSKIILISDVASAAGGNEPSTADLLSNYALQNVMSILNPVASSLKWRCPPDQWIKDFYIPHG
NKMLQPFAPSYSAEMRLLSIYTGEMRLTRVTKSDAVNYEKKMYL N KIVRNKVVVNFDPN
QEYDYFHMVYFMLRTVYCNKTFPTTKAKVFLQQSIFRFLNIP

>2GAF:D

PNITLKIIETYLGRVPSVNEYHMLKSQARNIQKITVFNKDIFVSLVKKNKRRFFSDVNTSASEIK
DRILSYFSKQTQTYNIGKLFTHIELQSVLVTTYTDILGVLTIKAPNVISSKISYNVTSMEELARDML
NSMNVAVIDKAKVMGRHNVSSLVKNVKNLMEEYLRRHNKSCICYGSYSLYLINPNIRYGDIDIL
QTNSRTFLIDLAFLIKFITGNNIILSKIPYLRNYMVIKDENDNHIIDSFNIRQDTMNVVPKIFIDNIY
IVDPTFQLLNMIKMFSQIDRLEDLSKDPEKFNARMATMLEYVRYTHGIVFDGKRNNMPMKCII
DENNRIVTVTTKDYFSFKCLVYLDENVLSSDILDNLADTSCDFESVTNSVYLIHDNIMYTYFS
NTILLSDKGKVHEISARGLCAHILLYQMLTSGEYKQCLSDLLNSMMNRDKIPIYSHTERDKKPG
RHGFINIEKDIIVF

3PC8

>3PC8:A

MPELPDFEFGKHFFLYGEFPGDERRRLIRYVTA FNGELEDRMNERNVQFVITAQEWDPNFEEAL
MENPSLAFVRPRWIYSCNEKQKLLPHQLYGVVPQA

>3PC8:C

GSADETL SQTKVLLDIFTGVRLYLPPSTPDFSRLRRYFVAFDGD LVQEFDMTSATHVLGSRDKN
PAAQQVSPEWIWACIRKRRLVAPS

3S9D

>3S9D:A

ADPCDLPQTHSLGSRRTLMLLAQMRRISLFSCLKDRHDFGFPQEEFGNQFQKAETIPVLAAMIA
QIFNLFSTKDSAAWDETLLDKFYTELYQQLNDLEACVIQGVGTETPLMKEDSILAVRKYFQR
ITLYLKEKKYSPCAWEVVR AEIMRSFSLSTNLQESLRSKE

>3S9D:B

ADPESCTFKISLRNFRSILSWELKNHSIVPTHYTLTYTIMSKPEDLKVVKNCANTTRSFCDLTDE
WRSTHEAYVTVLEGFSGNTTLFSCSHNFWLAIDMSFEPPEFEIVGFTNHINVMVKFPSIVEEELQ
FDLSLVIEEQSEGIVKHKHKEIKGNMSGNFTYIIDKLIPNTNYCVSVYLEHSDEQAVIKSPLKCTL
LPP

4M76

>4M76:A

GAMAVDAERLKHILIVTPSGAGEQNMIGMTPTVIAVHYLDETEQWEKFGLEKRQGALELIKKG
YTQQLAFRQPSSAFAAFVKRAPSTWLTAYVVKVFLAVNLIAIDSQVLCGAVKWLILEKQKPDG
VFQEDAPVIHQEMIGGLRNNNEKDMALTAFLVLSLQEAKDICEEQVNSLPGSITKAGDFLEANY
MNLQRSYTVAIAGYAL AQMGRLKGPLL NKFLTTAKDKNRWEDPGKQLYNVEATS YALLALLQ
LKDFDFVPPVVRWLNEQRYYG GYGSTQATFMVFQALAQYQKDAPD

>4M76:B

GAMGSPQEDSDIAFLIDGSGSIIPHDFRRMKEFVSTVMEQLKKSKTLFSLMQYSEEFRIHFTFKE
FQNNPNPRSLVKPITQLLGRTHHTATGIRKVVRELFNITNGARKNAFKILVVITDGEKFGDPLGYE
DVIPEADREGVIRYVIGVGDAFRSEKSRQELNTIASKPPRDHVFQVNNFEALKTIQNQLREKGF
AIEG

3BX7

>3BX7:A

QDSTSDLIPAPPLSKVPLQQNFQDNQFHGKQWYVVGLAGNRILRDDQHPMNMATYIYELKEDKS
YNVTSVISSHKKCEYTIATFVPGSQPGEFTLGNIKSYGDKTSLVLRVVSTDYNQYAVVFFKLAE
DNAEFFAITIYGRTELASELKENFIRFSKSLGLPENHIVFPVPIDQCIDG

>3BX7:C

MHVAQPAVVLAASSRGIA SFVCEYASPGKATEVVRVTVLRQADSQVTEVCAATYMMGNELTFLDD
SICTGTSSGNQVNLTIQGLRAMDTGLYICKVELMYPPPYLIGINGTQIYVIDPEPCPDS