Table S3. Sequence alignment used to create homology models

Table S3a. Enzymes in the 1SQC cluster

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| --- | --- |
| GI | Alignment |
| 357580429 | Targ: LPYNQDFYNEDEALKDDHCEGAGNVSNPPTLDEAIKRSQDFLLSQQYPEGYWWAELEGNPTITSHTVILY1SQC: ---------------------AEQLVEAPAYARTLDRAVEYLLSCQKDEGYWWGPLLSNVTMEAEYVLLCTarg: KILGIEDEYPMDKMEKYLRRMQCIHGGWELFYGDGGQLSVTIESYVALRLLNVPPTDPALKKALKFIIDK1SQC: HILDRVDRDRMEKIRRYLLHEQREDGTWALYPGGPPDLDTTIEAYVALKYIGMSRDEEPMQKALRFIQSQTarg: GGVXKSRMFTKICLALLGCFDWRGIPSLPPWVMLLPGWFLSSIYETACWARGCVVPLIVVFDKKPVFKVS1SQC: GGIESSRVFTRMWLALVGEYPWEKVPMVPPEIMFLGKRMPLNIYEFGSWARATVVALSIVMSRQPVFPLPTarg: PEVSFDELYAEGREHACKTLPFCGDWTSHFFIAVDRVFKMMERLGVVPFQQWGIREAEKWLLERQEDTGD1SQC: ERARVPELYETDVPPRRRGAKGGGGW---IFDALDRALHGYQKLSVHPFRRAAEIRALDWLLERQAGDGSTarg: FLGVYPPMFYSVVCMKTLGYEVTDPVVRRALLSFKKFSIERAD-ECSVQSSLSPVWDTALVVRSLVESGL1SQC: WGGIQPPWFYALIALKILDMT-QHPAFIKGWEGLELYGVELDYGGWMFQASISPVWDTGLAVLALRAAGLTarg: PPDHPALQRAGEWLLQKQITKHGDWSFKNQSGVAGGWAFQFFNRWYPDLDDSAVVVMALDCLKLPNEDVK1SQC: PADHDRLVKAGEWLLDRQITVPGDWAVKRPNLKPGGFAFQFDNVYYPDVDDTAVVVWALNTLRLPDERRRTarg: NGAITRCLKWISSMQCKGGGWAAFDKDNHQHWINSTPFSDLKAMVDPSTTDISARVLEMVGRLKLHGTSF1SQC: RDAMTKGFRWIVGMQSSNGGWGAYDVDNTSDLPNHIPFCDFGEVTDPPSEDVTAHVLECFGSFGYDDAW-Targ: DEAHFLPPESIARGLVYLRREQENEGCWFGRWGVNYIYGTCGALVALSLVAPMTHEEEIARGARWLVQVQ1SQC: --------KVIRRAVEYLKREQKPDGSWFGRWGVNYLYGTGAVVSALKAVGIDTREPYIQKALDWVEQHQTarg: NMHGKKINGPQDGGWGETCFSYNDPALKGQGDVSTASQTAWALQGLLAAGDALGKYEVESIGHGVQYLLS1SQC: N---------PDGGWGEDCRSYEDPAYAGKG-ASTPSQTAWALMALIAGGRA----ESEAARRGVQYLVETarg: TQRKDGSWHESQFTGGGFPIHFYLRYHFYAQHFTLSSLARYRTRLQASKIKPPIP1SQC: TQRPDGGWDEPYYTGTGFPGDFYLGYTMYRHVFPTLALGRYKQAIERR------- |
| 6466213 | Targ: TVSTSSAFHHSPLSDDVEPIIQKATRALLEKQQQDGHWVFELEADATIPAEYILLKHYLGEPEDLEIEAK1SQC: -------AEQLVEAPAYARTLDRAVEYLLSCQKDEGYWWGPLLSNVTMEAEYVLLCHILDRVDRDRME-KTarg: IGRYLRRIQGEHGGWSLFYGGDLDLSATVKAYFALKMIGDSPDAPHMLRARNEILARGGAMRANVFTRIQ1SQC: IRRYLLHEQREDGTWALYPGGPPDLDTTIEAYVALKYIGMSRDEEPMQKALRFIQSQGGIESSRVFTRMWTarg: LALFGAMSWEHVPQMPVELMLMPEWFPVHINKMAYWARTVLVPLLVLQALKPVARNRRGILVDELFVPDV1SQC: LALVGEYPWEKVPMVPPEIMFLGKRMPLNIYEFGSWARATVVALSIVMSRQPVFPLPERARVPELYETD-Targ: LPTLQESGDPIWRRFFSALDKVLHKVEPYWPKNMRAKAIHSCVHFVTERLNGEDGLGAIYPAIANSVMMY1SQC: VPPRRRGAKGGGGWIFDALDRALHGYQKLSVHPFRRAAEIRALDWLLERQAGDGSWGGIQPPWFYALIALTarg: DALGYPENHPERAIARRAVEKLMVLDGTEDQGDKEVYCQPCLSPIWDTALVAHAMLEVGGDEAEKSAISA1SQC: KILDMT-QHP---AFIKGWEG-LELY-GVELDYGGWMFQASISPVWDTGLAVLALRAAGLPADHDRLVKATarg: LSWLKPQQILDVKGDWAWRRPDLRPGGWAFQYRNDYYPDVDDTAVVTMAMDRAAKLSDLHDDFEESKARA1SQC: GEWLLDRQIT-VPGDWAVKRPNLKPGGFAFQFDNVYYPDVDDTAVVVWALNTLRL--PDERRRRDAMTKGTarg: MEWTIGMQSDNGGWGAFDANNSYTYLNNIPFADHGALLDPPTVDVSARCVSMMAQAGISITDPKMKAAVD1SQC: FRWIVGMQSSNGGWGAYDVDNTSDLPNHIPFCDFGEVTDPPSEDVTAHVLECFGSFGYDDAWKVIRRAVETarg: YLLKEQEEDGSWFGRWGVNYIYGTWSALCALNVAALPHDHLAVQKAVAWLKTIQNEDGGWGENCDSYALD1SQC: YLKREQKPDGSWFGRWGVNYLYGTGAVVSALKAVGIDTREPYIQKALDWVEQHQNPDGGWGEDCRSYE-DTarg: YSGYEPMDSTASQTAWALLGLMAVGEANSEAVTKGINWLAQNQDEEGLWKEDYYSGGGFPRVFYLRYHGY1SQC: PAYAGKGASTPSQTAWALMALIAGGRAESEAARRGVQYLVETQRPDGGWDEPYYTGTGFPGDFYLGYTMYTarg: SKYFPLWALARYRNLKKANQPIVHYGM1SQC: RHVFPTLALGRYKQAIERR-------- |
| 16519641 | Targ: NKHSGNRTAIDPAALEMSIASATEALLAYRHADGHWAFELEADSTIPSEYILLRHYLAEPIDVVLEAKIG1SQC: -----AEQLVEAPAYARTLDRAVEYLLSCQKDEGYWWGPLLSNVTMEAEYVLLCHILDRV-DRDRMEKIRTarg: NYLRRTQGAHGGWPLVHDGPFDMSASVKSYFALKMIGDSVDAAHMVKAREAIRARGGAANSNVLTRFLLA1SQC: RYLLHEQREDGTWALYPGGPPDLDTTIEAYVALKYIGMSRDEEPMQKALRFIQSQGGIESSRVFTRMWLATarg: LYGVVSWRAVPVLPIEIVLLPIWSPFHLYKISYWARTTIVPLMVLAVLKPRAKNPKGVGIEELFLQDTKS1SQC: LVGEYPWEKVPMVPPEIMFLGKRMPLNIYEFGSWARATVVALSIVMSRQPVFPLPERARVPELYETDVPPTarg: VGMNPKAPHQSWGWFLLFRGIDGILRVIEPHLPKKLRERAIASALAFTEERLNGEDGMGAIYPSMANIVM1SQC: R-----RRGAKGGGGWIFDALDRALHGYQKLSVHPFRRAAEIRALDWLLERQAGDGSWGGIQPPWFYALITarg: MYDALGKDDHFPPR-AIARRAIDKLLVIGEEEAYCQPC-LSPVWDTALTCHALQEVGGANAVAKAKQGLD1SQC: ALKILDMT-QHPAFIKGWEG-LELYGVELDYGGWMFQASISPVWDTGLAVLALRAAGLPADHDRLVKAGETarg: WLKPRQVLDVKGDWAVKAPNIRPGGWPFQYNNAHYPDLDDTAVVVMAMDRAQRHAGSKEYATAIARGREW1SQC: WLLDRQIT-VPGDWAVKRPNLKPGGFAFQFDNVYYPDVDDTAVVVWALNTL-RLPDERRRRDAMTKGFRWTarg: IEGMQSRDGGWAAFDVNNLEYYLNNLPFADHGALLDPPTEDVTARCVSMLAQVGEFTQRSKAVAEGIAYL1SQC: IVGMQSSNGGWGAYDVDNTSDLPNHIPFCDFGEVTDPPSEDVTAHVLECFGSFG-YDDAWKVIRRAVEYLTarg: RRTQHAEGSWYGRWGLNYIYGTWSVLCALNAAGIDHQDPMIRKAVEWLVSIQSWDGGWGEDAISYRLDYS1SQC: KREQKPDGSWFGRWGVNYLYGTGAVVSALKAVGIDTREPYIQKALDWVEQHQNPDGGWGEDCRSYE-DPATarg: GYEQAPSTSSQTAWALLGLMAAGEVEHPAVARGVNYLKNAQTENGLWDEQRYTATGFPRVFYLRYHGYSK1SQC: YAGKGASTPSQTAWALMALIAGGRAESEAARRGVQYLVETQRPDGGWDEPYYTGTGFPGDFYLGYTMYRHTarg: FFPLWALARYRNLRSTNV1SQC: VFPTLALGRYKQAIERR- |
| 2113823 | Targ: DSVNATAREAKESKISESEILESSIASATQGVLGFQQSDGHWVFELEADCTIPAEYVLLRHYLAEPVDTV1SQC: -----------AEQLVEAPAYARTLDRAVEYLLSCQKDEGYWWGPLLSNVTMEAEYVLLCHILDRV-DRDTarg: LEAKIGNYLRRVQGAHGGWPLVHDGEFDMSASVKAYFALKMIGDSIDAPHMVRAREAIHARGGAIHSNVF1SQC: RMEKIRRYLLHEQREDGTWALYPGGPPDLDTTIEAYVALKYIGMSRDEEPMQKALRFIQSQGGIESSRVFTarg: TRFMLAMFGIVTWRAVPVLPIEIMLLPFWSPFHINKISYWARTTMVPLMVIAALKPRAKNPKGVGIDELF1SQC: TRMWLALVGEYPWEKVPMVPPEIMFLGKRMPLNIYEFGSWARATVVALSIVMSRQPVFPLPERARVPELYTarg: LQDPRSIGMTAKAPHQSMAWFLLFRSLDAILRVIEPLFPKSLRKRAIDTALAFSEERLNGEDGMGAIYPP1SQC: -----ETDVPPRRRGAKGGGGWIFDALDRALHGYQKLSVHPFRRAAEIRALDWLLERQAGDGSWGGIQPPTarg: MANLVMMYDALGKDENYPPRAVTRRGIDKLLVIGDD-EAYCQPCVSPVWDTTLTAHALLEAGGDKAGPAA1SQC: WFYALIALKILDMT-QHPAFIKGWEGLELYGVELDYGGWMFQASISPVWDTGLAVLALRAAGLPADHDRLTarg: KHGLDWLIPKQELEVKGDWAVKRPDVRPGGWAFQYNNAYYPDLDDTAVVVMSMDRMRREHGVTGYDSAID1SQC: VKAGEWLLDRQIT-VPGDWAVKRPNLKPGGFAFQFDNVYYPDVDDTAVVVWALNTLRLPDERRRRD-AMTTarg: RGREWIEGMQSDDGGWAAFDVNNLEYYLNNIPFSDHGALLDPPTEDVTARCVSMLAQLGETAKTSKHVAD1SQC: KGFRWIVGMQSSNGGWGAYDVDNTSDLPNHIPFCDFGEVTDPPSEDVTAHVLECFGSFGYDDA-WKVIRRTarg: GVAYLRKTQHPEGSWYGRWGMNFIYGTWSVLCALNMAGVRHDDPMIRKAADWLASIQNKDGGWGEDTVSY1SQC: AVEYLKREQKPDGSWFGRWGVNYLYGTGAVVSALKAVGIDTREPYIQKALDWVEQHQNPDGGWGEDCRSYTarg: RLDYKGWEAAPSTASQTAWALLALMAAGEVDHPAVARGVEYLIATQNEKGLWDEQRYTATGFPRVFYLRY1SQC: E-DPAYAGKGASTPSQTAWALMALIAGGRAESEAARRGVQYLVETQRPDGGWDEPYYTGTGFPGDFYLGYTarg: HGYSKFFPLWGLARYRNLRNTNSRVVGVGM1SQC: TMYRHVFPTLALGRYKQAIERR-------- |

Table S3b. Enzymes in the 1W6K cluster

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| GI | Alignment |
| 114053041 | Targ: TEGTCLRRRGGPYKTEPATDLSRWRLSNQVGRQTWTYSQEEDPVREQSGLEAHLLGLDTKSFFKDLPKAH1W6K: TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYFKDLPKAHTarg: TACRGALNGVTFYAALQTEDGHWAGDYGGPLFLLPGLLITCHVANIPLPAGYREEIIRYLRSVQLPDGGW1W6K: TAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLLITCHVARIPLPAGYREEIVRYLRSVQLPDGGWTarg: GLHIEDKSTVFGTALNYVSLRILGVGPDDPDLVRARNLLHKKGGAVFIPSWGKFWLAVLNVYSWEGLNTL1W6K: GLHIEDKSTVFGTALNYVSLRILGVGPDDPDLVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLTarg: FPEMWLFPDWMPAHPSTIWCHCRQVYLPMAYCYSTRLSAEEGPLVQSLRQELYLEDYSCIDWAAHRNSVA1W6K: FPEMWLFPDWAPAHPSTLWCHCRQVYLPMSYCYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVATarg: PDDLYTPHSWLLHVVYAILNLYERHHSTSLRQWATQKLYEHIAADDRFTKCISIGPISKTINMLVRWHVD1W6K: PDELYTPHSWLLRVVYALLNLYEHHHSAHLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDTarg: GPASAVFQEHVSRIPDYLWLGLDGMKMQGTNGSQIWDTAFAIQALLEARAQHRPEFWSCLRKAHEYLRIS1W6K: GPASTAFQEHVSRIPDYLWMGLDGMKMQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSTarg: QVPDNFPDYQKYYRHMSKGGFSFSTLDCGWIVADCTAEALKSILLLQEKCPFVSNHVPRERLFDTVAVLL1W6K: QVPDNPPDYQKYYRQMRKGGFSFSTLDCGWIVSDCTAEALKAVLLLQEKCPHVTEHIPRERLCDAVAVLLTarg: SLRNPDGGFATYETKRGGHLLELLNPSEVFGDIMIDYTYVECTSAVMQALKTFHKQFPDHRAGEIRETLE1W6K: NMRNPDGGFATYETKRGGHLLELLNPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTTarg: QGLQFCRQKQRPDGSWEGSWGVCFTYGAWFGLEAFACMGHTYHNGVACAEISRACDFLLSRQMADGGWGE1W6K: QGLEFCRRQQRADGSWEGSWGVCFTYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGETarg: DFESCKQRRYVQSAQSQIHNTCWALMGLMAVRHPDVAALERGVSYLLEKQLPNGDWPQENISGVFNKSCA1W6K: DFESCEERRYVQSAQSQIHNTCWAMMGLMAVRHPDIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCATarg: ISYTSYRNVFPIWTLGRFSRLHPDPALAGHP1W6K: ISYTSYRNIFPIWALGRFSQLYPERALAGHP |
| 26346907 | Targ: TEGTCLRRRGGPYKTEPATDLTRWRLQNELGRQRWTYYQAEDDPGREQTGLEAHSLGLDTRSYFTDLPKA1W6K: TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQ-DERAGREQTGLEAYALGLDTKNYFKDLPKATarg: QTAHEGALNGVTFYAKLQAEDGHWAGDYGGPLFLLPGLLITCHISHISLPAGYREEMVRYLRSVQLPDGG1W6K: HTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLLITCHVARIPLPAGYREEIVRYLRSVQLPDGGTarg: WGLHIEDKSTVFGTALNYVALRILGIGPDDPDLVRARNVLHKKGGAVAIPSWGKFWLAVLNVYSWEGLNT1W6K: WGLHIEDKSTVFGTALNYVSLRILGVGPDDPDLVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTTarg: LFPEMWLFPEWVPAHPSTLWCHCRQVYLPMSYCYATRLSASEDPLVQSLRQELYVQDYASIDWPAQRNNV1W6K: LFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSYCYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVTarg: SPDEMYTPHSWLLHVAYGLLNLYERFHSTSLRKWAVQMLYEHIAADDCFTKCISIGPISKTINMLVRWSV1W6K: APDELYTPHSWLLRVVYALLNLYEHHHSAHLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVTarg: DGPSSPAFQEHVSRIKDYLWLGLDGMKMQGTNGSQIWDTSFAIQALLEAGAHHRPEFLPCLQKAHEFLRL1W6K: DGPASTAFQEHVSRIPDYLWMGLDGMKMQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLTarg: SQVPENCPDYQKYYRHMRKGGFSFSTLDCGWIVADCTAEGLKAVLLLQNQCPSITEHIPRERLCDAVDVL1W6K: SQVPDNPPDYQKYYRQMRKGGFSFSTLDCGWIVSDCTAEALKAVLLLQEKCPHVTEHIPRERLCDAVAVLTarg: LSLRNADGGFATYEKKRGGYLLELLNPSEVFGDIMIDYTYVECTSAVMQALKHFHEHFPDYRAAEVRETL1W6K: LNMRNPDGGFATYETKRGGHLLELLNPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTarg: NQGLDFCRRKQRADGSWEGSWGVCFTYGTWFGLEAFACMGHTYQDGAACAEVAQACNFLLSQQMADGGWG1W6K: TQGLEFCRRQQRADGSWEGSWGVCFTYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGTarg: EDFESCEQRRYVQSARSQVHSTCWALMGLMAVRHPDITAQERGIRCLLGKQLPNGDWPQENISGVFNKSC1W6K: EDFESCEERRYVQSAQSQIHNTCWAMMGLMAVRHPDIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCTarg: AISYTSYRNIFPIWALGRFSNLYPDNTLAGHI1W6K: AISYTSYRNIFPIWALGRFSQLYPERALAGHP |
| 13591981 | Targ: TEGTCLRRRGGPYKTEPATDLTRWRLHNELGRQRWTYYQAEEDPGREQTGLEAHSLGLDTTSYFKNLPKA1W6K: TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQ-DERAGREQTGLEAYALGLDTKNYFKDLPKATarg: QTAHEGALNGVTFYAKLQAEDGHWAGDYGGPLFLLPGLLITCHIAHIPLPAGYREEMVRYLRSVQLPNGG1W6K: HTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLLITCHVARIPLPAGYREEIVRYLRSVQLPDGGTarg: WGLHIEDKSTVFGTALSYVSLRILGIGPDDPDLVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGINT1W6K: WGLHIEDKSTVFGTALNYVSLRILGVGPDDPDLVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTTarg: LFPEMWLLPEWFPAHPSTLWCHCRQVYLPMSYCYATRLSASEDPLVQSLRQELYVEDYASIDWPAQKNNV1W6K: LFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSYCYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVTarg: CPDDMYTPHSWLLHVVYGLLNLYERFHSTSLRKWAIQLLYEHVAADDRFTKCISIGPISKTVNMLIRWSV1W6K: APDELYTPHSWLLRVVYALLNLYEHHHSAHLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVTarg: DGPSSPAFQEHVSRIKDYLWLGLDGMKMQGTNGSQTWDTSFAVQALLEAGAHRRPEFLPCLQKAHEFLRL1W6K: DGPASTAFQEHVSRIPDYLWMGLDGMKMQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLTarg: SQVPDNNPDYQKYYRHMHKGGFPFSTLDCGWIVADCTAEALKAVLLLQERCPSITEHVPRERLYDAVAVL1W6K: SQVPDNPPDYQKYYRQMRKGGFSFSTLDCGWIVSDCTAEALKAVLLLQEKCPHVTEHIPRERLCDAVAVLTarg: LSMRNSDGGFATYETKRGGYLLELLNPSEVFGDIMIDYTYVECTSAVMQALRHFREYFPDHRATEIRETL1W6K: LNMRNPDGGFATYETKRGGHLLELLNPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTarg: NQGLDFCRKKQRADGSWEGSWGVCFTYGTWFGLEAFACMGHIYQNRTACAEVAQACHFLLSRQMADGGWG1W6K: TQGLEFCRRQQRADGSWEGSWGVCFTYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGTarg: EDFESCEQRRYVQSAGSQVHSTCWALLGLMAVRHPDISAQERGIRCLLGKQLPNGDWPQENISGVFNKSC1W6K: EDFESCEERRYVQSAQSQIHNTCWAMMGLMAVRHPDIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCTarg: AISYTNYRNIFPIWALGRFSSLYPDNTLAGHI1W6K: AISYTSYRNIFPIWALGRFSQLYPERALAGHP |
| 15076955 | Targ: -------IYGYTEKELEKTDPDGWRLIVEDTGRQRWKYLKTEEERRERPQTYMEKYFLGKNMD--LPEQP1W6K: TEGTCLRRRGGPYKTEPATDLGRWRLNC-ERGRQTWTYLQDERAG--REQTGLEAYALGLDTKNYFKDLPTarg: AAKTPIESARKGFSFYKHLQTSDGNWACEYGGVMFLLPGLIIAMYISKIEFPDEMRIEVIRYLVNHANPE1W6K: KAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLLITCHVARIPLPAGYREEIVRYLRSVQLP-Targ: DGGWGIHIEGKSTVFGTALNYVVLRILGLGPDHPVTMKARIRLNELGGAIGCPQWGKFWLAVLNCYGWEG1W6K: DGGWGLHIEDKSTVFGTALNYVSLRILGVGPDDPDLVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGTarg: INPILPEFWMLPEWLPIHPSRWWVHTRAVYLPMGYIYGEKFTAPVDPLIESLREELYTQPYSSINFSKHR1W6K: LNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSYCYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRTarg: NTTSPVDVYVPHTRFLRVINSILTFYHTIFRFSWIKDMASKYAYKLIEYENKNTDFLCIGPVNFSIHILA1W6K: NNVAPDELYTPHSWLLRVVYALLNLYEHHHSAH-LRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVTarg: VYWKEGPDSYAFKSHKERMADFLWISKKGMMMNGTNGVQLWDTSFAVQALVESGLAEDPEFKDHMIKALD1W6K: RWYVDGPASTAFQEHVSRIPDYLWMGLDGMKMQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHETarg: FLDKCQIQKNCDDQQKCYRHRRKGAWPFSTRQQGYTVSDCTAEALKAVLLLQ-NLKSFPKRVSYDRLKDS1W6K: FLRLSQVPDNPPDYQKYYRQMRKGGFSFSTLDCGWIVSDCTAEALKAVLLLQEKCPHVTEHIPRERLCDATarg: VDVILSLQNKDGGFASYELIRGPSWLEFINPAEVFGDIMIEHSYPECTTAAVTALCYFRSLCSHYRGPEI1W6K: VAVLLNMRNPDGGFATYETKRGGHLLELLNPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEITarg: NKSVKNAIQFIKESQRPDGSWYESWAICFTYATMFALESLSCVKDFYEN---SFHSRRACDFLVNKQEED1W6K: RETLTQGLEFCRRQQRADGSWEGSWGVCFTYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADTarg: GGWSEGYQSCTDGIWTRHPTGSQVVQTAWACIGLMYANYPDETPIKRGINLIMSRQQPNGEWKQEAIEGV1W6K: GGWGEDFESCEERRYVQS-AQSQIHNTCWAMMGLMAVRHPDIEAQERGVRCLLEKQLPNGDWPQENIAGVTarg: FNKNCMISYPNYKFNFTIKALGMYSKRYGNI------1W6K: FNKSCAISYTSYRNIFPIWALGRFSQLYPERALAGHP |
| 167295241 | Targ: ------------------GLPKTDPRLWRLRTDELGRESWEYLTPQQAANDPPSTFTQWLLQDPKFPQPH1W6K: ----TEGTCLRRRGGPYKTEPATDLGRWRLN-CERGRQTWTYLQDERAG-REQTGLEAYALGLDT----KTarg: PERNKHSPDFSAFDACHNGASFFKLLQEPDSGIFPCQYKGPMFMTIGYVAVNYIAGIEIPEHERIELIRY1W6K: NYFKDLPKAHTAFEGALNGMTFYVGLQAE-DGHWTGDYGGPLFLLPGLLITCHVARIPLPAGYREEIVRYTarg: IVNTAHPVDGGWGLHSVDKSTVFGTVLNYVILRLLGLPKDHPVCAKARSTLLRLGGAIGSPHWGKIWLSA1W6K: LRSVQLP-DGGWGLHIEDKSTVFGTALNYVSLRILGVGPDDPDLVRARNILHKKGGAVAIPSWGKFWLAVTarg: LNLYKWEGVNPAPPETWLLPYSLPMHPGRWWVHTRGVYIPVSYLSLVKFSCPMTPLLEELRNEIYTKPFD1W6K: LNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSYCYAVRLSAAEDPLVQSLRQELYVEDFATarg: KINFSKNRNTVCGVDLYYPHSTTLNIANSLVVFYEKYLRNRFIYSLSKKKVYDLIKTELQNTDSLCIAPV1W6K: SIDWLAQRNNVAPDELYTPHSWLLRVVYALLNLYEHH-HSAHLRQRAVQKLYEHIVADDRFTKSISIGPITarg: NQAFCALVTLIEEGVDSEAFQRLQYRFKDALFHGPQGMTIMGTNGVQTWDCAFAIQYFFVAGLAERPEFY1W6K: SKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDGMKMQGTNGSQIWDTAFAIQALLEAGGHHRPEFSTarg: NTIVSAYKFLCHAQFDTECVP--GSYRDKRKGAWGFSTKTQGYTVADCTAEAIKAIIMVKNSPVFSEVHH1W6K: SCLQKAHEFLRLSQVPDNPPDYQKYYRQMRKGGFSFSTLDCGWIVSDCTAEALKAVLLLQEKCPH--VTETarg: MISSERLFEGIDVLLNLQNIGSFEYGSFATYEKIKAPLAMETLNPAEVFGDIMVEYPYVECTDSSVLGLT1W6K: HIPRERLCDAVAVLLNMRNP----DGGFATYETKRGGHLLELLNPSEVFGDIMIDYTYVECTSAVMQALKTarg: YFHKY-FDYRKEEIRTRIRIAIEFIKKSQLPDGSWYGSWGICFTYAGMFALEALHTVGETYEN---SSTV1W6K: YFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVCFTYGTWFGLEAFACMGQTYRDGTACAEVTarg: RKGCDFLVSKQMKDGGWGESMKSSELHSYVDSEKSLVVQTAWALIALLFAEYPNKEVIDRGIDLLKNRQE1W6K: SRACDFLLSRQMADGGWGEDFESCEERRYVQSAQSQIHNTCWAMMGLMAVRHPDIEAQERGVRCLLEKQLTarg: ESGEWKFESVEGVFNHSCAIEYPSYRFLFPIKALGMYSRAYETHTL----1W6K: PNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFSQLYPERALAGHP |
| 63054562 | Targ: ---EACRVRPELSKTVEQIDKSLWRLNIDSAGGETWEYVTKEEAEKRPLTIAEKYFLGFDLD--LPKRPP1W6K: TEGTCLRRRGGPYKTEPATDLGRWRLNC-ERGRQTWTYLQDERAG-REQTGLEAYALGLDTKNYFKDLPKTarg: AKTPLESAEYGYEFFRRLQLPDGHWASPYEGPMFLICGAVFAFYISQTPFPKGWAPEIIQYLINHTNDDG1W6K: AHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLLITCHVARIPLPAGYREEIVRYLRSVQLPDGTarg: GWGIHTEGVSTVFGTSMNYVVLRILGMDAGHPVATRARNRLHELGGAIGCPHWGKFWLATLNCYDWDGVN1W6K: GWGLHIEDKSTVFGTALNYVSLRILGVGPDDPDLVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTarg: PIPPELWLLPDWIPFHPGKWWCHVRLVYLPMGYMYGERLKCPKDSLIMQLRKELYVENYDSINFADHRNT1W6K: TLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSYCYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNTarg: ISDVDLYFPHTQILDRLNWILEKYFTYLRPSWLKKLGTRRAYELIKIEDQNTDYSCIGPVNAAMNTVCVY1W6K: VAPDELYTPHSWLLRVVYALLNLY-EHHHSAHLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWTarg: FHEGPSSKAFQKHIQRLHDFMWVQPEGMLMRGTNGLQVWETSFTLQALVESGLYEKEAFKPDIAKALEFL1W6K: YVDGPASTAFQEHVSRIPDYLWMGLDGMKMQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLTarg: DRQQIRTQYEG--SGYRYNSLGAWPFSNITQGYTVSDTTSEALRAVLLVQ-SLPDFEKLVDIPRLRLSVD1W6K: RLSQVPDNPPDYQKYYRQMRKGGFSFSTLDCGWIVSDCTAEALKAVLLLQEKCPHVTEHIPRERLCDAVATarg: VILGMQNENLGFASYEPARTGEWMELLNPAEVFGNIMVEYSYPECTTSVILALRAFTKYDPGYRRDEIEN1W6K: VLLNMRNPDGGFATYETKRGGHLLELLNPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETarg: TIENALEYVVKMQRPDGSWYGSWAICFTYAAMFATGSLASAGRYYEN---CPVQKKACEFLLSKQRPDGG1W6K: TLTQGLEFCRRQQRADGSWEGSWGVCFTYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGTarg: WSESYMACVTGVYTETESSLVTQTGWALDALINAKYPDRKPIEKGIKFLMASQKSDGSWQQKSMEGIFNK1W6K: WGEDFESCEERRYVQSAQSQIHNTCWAMMGLMAVRHPDIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKTarg: NVAIAYPNYKLYFSIYTLGKFAKQYGNYLTI---1W6K: SCAISYTSYRNIFPIWALGRFSQLYPERALAGHP |
| 68466833 | Targ: ----------YYSEEIGLPKTDISRWRLRSDALGRETWHYLSQSECESEPQSTFVQWLLE-SPDFPSPPS1W6K: --TEGTCLRRRGGPYKTEPATDLGRWRLNC-ERGRQTWTYLQDERAGRE-QTGLEAYALGLDTKNYFKDLTarg: SDIHTSGEAARKGADFLKLLQLDNGIFPCQYKGPMFMTIGYVTANYYSKTEIPEPYRVEMIRYIVNTAHP1W6K: PKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLLITCHVARIPLPAGYREEIVRYLRSVQLPTarg: VDGGWGLHSVDKSTCFGTTMNYVCLRLLGMEKDHPVLVKARKTLHRLGGAIKNPHWGKAWLSILNLYEWE1W6K: -DGGWGLHIEDKSTVFGTALNYVSLRILGVGPDDPDLVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWETarg: GVNPAPPELWRLPYWLPIHPAKWWVHTRAIYLPLGYTSANRVQCELDPLLKEIRNEIYVPSQLPYESIKF1W6K: GLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSYCYAVRLSAAEDPLVQSLRQELYVED---FASIDWTarg: GNQRNNVCGVDLYYPHTKILDFANSILSKWEAVRPKWLLNWVNKKVYDLIVKEYQNTEYLCIAPVSFAFN1W6K: LAQRNNVAPDELYTPHSWLLRVVYALLNLYEHHHSAHLRQRAVQKLYEHIVADDRFTKSISIGPISKTINTarg: MVVTCHYEGSESENFKKLQNRMNDVLFHGPQGMTVMGTNGVQVWDAAFMVQYFFMTGLVDDPKYHDMIRK1W6K: MLVRWYVDGPASTAFQEHVSRIPDYLWMGLDGMKMQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKTarg: SYLFLVRSQFTENCVDGS--FRDRRKGAWPFSTKEQGYTVSDCTAEAMKAIIMVRNHASFADIRDEIKDE1W6K: AHEFLRLSQVPDNPPDYQKYYRQMRKGGFSFSTLDCGWIVSDCTAEALKAVLLLQEKCP--HVTEHIPRETarg: NLFDAVEVLLQIQNVGEWEYGSFSTYEGIKAPLLLEKLNPAEVFNNIMVEYPYVECTDSSVLGLTYFAKY1W6K: RLCDAVAVLLNMRNP----DGGFATYETKRGGHLLELLNPSEVFGDIMIDYTYVECTSAVMQALKYFHKRTarg: YPDYKPELIQKTISSAIQYILDSQDNIDGSWYGCWGICYTYASMFALEALHTVGLDYES---SSAVKKGC1W6K: FPEHRAAEIRETLTQGLEFCRR-QQRADGSWEGSWGVCFTYGTWFGLEAFACMGQTYRDGTACAEVSRACTarg: DFLISKQLPDGGWSESMKGCETHSYVNGENSLVVQSAWALIGLILGNYPDEEPIKRGIQFLMKRQLPTGE1W6K: DFLLSRQMADGGWGEDFESCEERRYVQSAQSQIHNTCWAMMGLMAVRHPDIEAQERGVRCLLEKQLPNGDTarg: WKYEDIEGVFNHSCAIEYPSYRFLFPIKALGLYKNKYGDKVLV---1W6K: WPQENIAGVFNKSCAISYTSYRNIFPIWALGRFSQLYPERALAGHP |
| 260037884 | Targ: ----------------------------------------------------------------------1W6K: ------TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYFKTarg: ---------------------------RLINEEVVNVTLRRSLRFYSILQSQDGFWPGDYGGPLFLLPAL1W6K: ---------------------------DLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLTarg: VIGLYVTEVLDGTLTAQHQIEIRRYLYNHQNKDGGWGLHVEGNSTMFCTVLSYVALRLMGEELDGGDGAM1W6K: LITC---HVARIPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPD--DPDLTarg: ESARSWIHHHGGATFIPSWGKFWLSVLGAYEWSGNNPLPPELWLLPYSLPFHPGRMWCHCRMVYLPMSYL1W6K: VRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSYCTarg: YGRRFVCRTNGTILSLRRELYTIPYHHIDWDTARNQCAKEDLYYPHPKIQDVLWSCLNKFGEPLLERWPL1W6K: YAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALLN-----LYEHHHSTarg: NNLRNHALQTVMQHIHYEDQNSHYICIGPVNKVLNMLCCW-VESSNSEAFKSHLSRIKDYLWVAEDGMKM1W6K: AHLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDGMKMTarg: QGYNGSQLWDVTLAVQAILATNLV--DDYGLMLKKAHNYIKNTQIRKDTSGDPGLWYRHPCKGGWGFSTG1W6K: QGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGGFSFSTLTarg: DNPWPVSDCTAEALKAALLLSQMPVNLVGEPMPEEHLV--------DANKNGGFASYELTRSYPELEVIN1W6K: DCGWIVSDCTAEALKAVLLLQEKCPH-VTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLLELLNTarg: PSETFGDIIIDYQYVECTSAAIQGLVLFTTLNSSYKRKEIVGSINKAVEFIEKTQLPDGSWYGSWGVCFT1W6K: PSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVCFTTarg: YATWFGIKGMLASGKTYES---SLCIRKACGFLLSKQLCCGGWGESYLSCQNKVYTNLPGNKSHIVNTSW1W6K: YGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYVQ--SAQSQIHNTCWTarg: ALLALIEAGQASRDPMPLHRGAKSLINSQMEDGDYPQQ-VSKMF-------YIHRQVLFSLTSLIIFASY1W6K: AMMGLMAVRHP--DIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFSQLTarg: FLFRRY-------1W6K: Y---PERALAGHP |
| 66825783 | Targ: -------------------TTTNWSLKVDRGRQTWEYSQEK---KEATDVDIHLLRLKEPGTHCPEGCDL1W6K: TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYFK----DLTarg: NRAKTPQQAIKKAFQYFSKVQTEDGHWAGDYGGPMFLLPGLVITCYVTGYQLPESTQREIIRYLFNRQNP1W6K: PKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLLITCHVARIPLPAGYREEIVRYLRSVQLPTarg: VDGGWGLHIEAHSDIFGTTLQYVSLRLLGVPADHPSVVKARTFLLQNGGATGIPSWGKFWLATLNAYDWN1W6K: -DGGWGLHIEDKSTVFGTALNYVSLRILGVGPDDPDLVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWETarg: GLNPIPIEFWLLPYNLPIAPGRWWCHCRMVYLPMSYIYAKKTTGPLTDLVKDLRREIYCQEYEKINWSEQ1W6K: GLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSYCYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQTarg: RNNISKLDMYYEHTSLLNVINGSLNAYEKVHSKWLRDKAIDYTFDHIRYEDEQTKYIDIGPVNKTVNMLC1W6K: RNNVAPDELYTPHSWLLRVVYALLNLYEHHHSAHLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVTarg: VWDREGK-SPAFYKHADRLKDYLWLSFDGMKMQGYNGSQLWDTAFTIQAFMESG--IANQFQDCMKLAGH1W6K: RWYVDGPASTAFQEHVSRIPDYLWMGLDGMKMQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHETarg: YLDISQVPEDARDMKHYHRHYSKGAWPFSTVDHGWPISDCTAEGIKSALALRS--LPFIEPISLDRIADG1W6K: FLRLSQVPDNPPDYQKYYRQMRKGGFSFSTLDCGWIVSDCTAEALKAVLLLQEKCPHVTEHIPRERLCDATarg: INVLLTLQNGDGGWASYENTRGPKWLEKFNPSEVFQNIMIDYSYVECSAACIQAMSAFRKHAPNHPRIKE1W6K: VAVLLNMRNPDGGFATYETKRGGHLLELLNPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEH-RAAETarg: INRSIARGVKFIKSIQRQDGSWLGSWGICFTYGTWFGIEGLVASGEPLT----SPSIVKACKFLASKQRA1W6K: IRETLTQGLEFCRRQQRADGSWEGSWGVCFTYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMATarg: DGGWGESFKSNVTKEYVQHETSQVVNTGWALLSLMSAKYPDRECIERGIKFLIQRQYPNGDFPQESIIGV1W6K: DGGWGEDFESCEERRYVQSAQSQIHNTCWAMMGLMAVRHPDIEAQERGVRCLLEKQLPNGDWPQENIAGVTarg: FNFNCMISYSNYKNIFPLWALSRYNQLYLKSKI----1W6K: FNKSCAISYTSYRNIFPIWALGRFSQLYPERALAGHP |
| 300591899 | Targ: ----------------------------------------------------------------------1W6K: ------TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYFKTarg: --------------------------EDISEDKVTVTLKRAMSFYSTLQAHDGHWPGDYGGPMFLMPGLV1W6K: --------------------------DLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLLTarg: ITLSITGVLNVVLSKEHKREICRYLYNHQNRDGGWGLHIEGPSTMFGTVLNYVTLRLLGEGANDGQGAME1W6K: ITCHV---ARIPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPDDPD--LVTarg: KGRQWILDHGSATAITSWGKMWLSVLGVFEWSGNNPLPPETWLLPYILPIHPGRMWCHRRMVYLPMSYLY1W6K: RARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSYCYTarg: GKRFVGPITPTVLSLRKEVFSVPYHEIDWNQARNLCAKEDLYYPHPLIQDILWASLDKVWEPIFMHWPAK1W6K: AVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALLN-----LYEHHHSATarg: KLREKSLRTVMEHIHYEDENTRYICIGPVNKVLNMLCCW-VEDPNSEAFKLHLPRLHDFLWLAEDGMKMQ1W6K: HLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDGMKMQTarg: GYNGSQLWDTAFAVQAIISTNLA--EEYGPTLRKAHTFMKNSQVLDDCPGDLDAWYRHVSKGAWPFSTAD1W6K: GTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGGFSFSTLDTarg: HGWPISDCTAEGFKAVLQLSKLPSELVGEPLDAKRLYDAVNVILSLQNSDGGYATYELTRSYSWLELVNP1W6K: CGWIVSDCTAEALKAVLLLQEKCPH-VTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLLELLNPTarg: AETFGDIVIDYPYVECTSAAIQALTAFKKLFPGHRREEIQHSIEKAALFIEKIQSSDGSWYGSWGVCFTY1W6K: SEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVCFTYTarg: GTWFGIKGLVTAGRTFSS---CASIRKACDFLLSKQVASGGWGESYLSCQNKVYTNLEGNRSHVVNTGWA1W6K: GTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYV--QSAQSQIHNTCWATarg: MLALIDAGQAERDATPLHRAAKLLINSQMENGDFPQEEIMGVFDKNCMITYAAYRNIFPIWALGEYRCRV1W6K: MMGLMAVRHPDIEAQ--ERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFSQLYTarg: LQGPS----1W6K: PERALAGHP |
| 300592019 | Targ: ----------------------------------------------------------------------1W6K: -------TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYFTarg: -------------------------IEDVTEETVKTTLRRAINFHSTLQSHDGHWPGDYGGPMFLMPGLV1W6K: -------------------------KDLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLLTarg: ITLSITGALNAVLTEEHRKEICRYLYNHQNKDGGWGLHIEGPSTMFGSVLNYVALRLLGEGPNDRQGEME1W6K: ITCHVAR---IPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPDDPD--LVTarg: KGRDWILGHGGATFITSWGKMWLSVLGVYEWSGNNPLPPEIWLLPYVLPIHPGRMWCHCRMVYLPMSYLY1W6K: RARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSYCYTarg: GKRFVGPITPTILSLRKELYTIPYHDIDWNQARNLCAKEDLYYPHPLVQDILWASLHKFLEPILMHWPGK1W6K: AVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALLN-----LYEHHHSATarg: KLREMAIKTAIEHIHYEDDNTRYLCIGPVNKVLNMLCCW-VEDPNSEAFKLHLPRIYDYLWIAEDGMKMQ1W6K: HLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDGMKMQTarg: GYNGSQLWDTAFTAQAIISSN--LIEEYGPTLRKAHTYIKNSQVLEDCPGDLSKWYRHISKGAWPFSTAD1W6K: GTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGGFSFSTLDTarg: HGWPISDCTAEGLKAVLLLSKIAPEIVGEPLDAKRLYDAVNVILSLQNEDGGFATYELTRSYTWLELINP1W6K: CGWIVSDCTAEALKAVLLLQEKCPH-VTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLLELLNPTarg: AETFGDIVIDYPYVECTSAAIQALTSFKKLYPGHRREEIQCCIEKAASFIEKTQASDGSWYGSWGVCFTY1W6K: SEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVCFTYTarg: GTWFGVKGLIAAGKSFNN---CSSIRKACEFLLSKQLPSGGWGESYLSCQNKVYSNVESNRSHVVNTGWA1W6K: GTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYV--QSAQSQIHNTCWATarg: MLALIDAEQAKRDPTPLHRAAVYLINSQMENGDFPQQEIMGVFNKNCMITYAAYRNVFPIWALGEYRHRV1W6K: MMGLMAVRHP--DIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFSQLYTarg: LQSQ-----1W6K: PERALAGHP |
| 300591983 | Targ: ----------------------------------------------------------------------1W6K: --------------TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGTarg: --------------------------------------EVREEAVGMTLRRAINFYSTIQADDGHWPGDY1W6K: -----------------------------LDTKNYFKDLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYTarg: GGPMFLIPGLVITLSITGTLNAFLSKEHQCEICRYLYNHQNEDGGWGLHIEGPSTMFGTALNYITLRLLG1W6K: GGPLFLLPGLLITCHVARIP---LPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGTarg: EPEDGMGAVEKARKWILDHGGATAITSWGKMWLSVLGVYEWSGNNPLPPEVWLCPYLLPCHPGRMWCHCR1W6K: VGPDDPD-LVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRTarg: MVYLPMSYLYGKRFVGPITSTIQSLRKELYTVPYHEIDWNKARNDCAKEDLYYPHPLVQDILWASLYYAY1W6K: QVYLPMSYCYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALL----Targ: EPIFMYWPAKRLREKALDTVMQHIHYEDENTRYICIGPVNKVLNMLCCWA-EDPNSEAFKLHLPRILDYL1W6K: -NLYEHHHSAHLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLTarg: WIAEDGMKMQGYNGSQLWDTTFAVQAIISTNIA--EEYGQTLRKAHEYIKDSQVLEDCPGDLNFWYRHIS1W6K: WMGLDGMKMQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRTarg: KGAWPFSTADHGWPISDCTAEGLKAVILLSQFPSETVGKSVDVKRLYDAVHVILSLQNTDGGFATYELTR1W6K: KGGFSFSTLDCGWIVSDCTAEALKAVLLLQEKCPH-VTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRTarg: SYHWLELINPAETFGDIVIDYPYVECTSAAIQALTLFKKLHPGHRREEIENCIAKAAEFIENIQASDGSW1W6K: GGHLLELLNPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWTarg: YGSWGVCFTYAGWFGIKGLVAAGRTYKN---CSSIHKACDYLLSKELASGGWGESYLSCQDKVYTNLKDN1W6K: EGSWGVCFTYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYV--QSATarg: RPHIVNTGWAMLALIDAGQAERDPTPLHRAARILINSQMENGDFPQEEIMGVFNKNCMISYSAYRNIFPI1W6K: QSQIHNTCWAMMGLMAVRHP--DIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPITarg: WALGEYRCRVLKAL-----1W6K: WALGRFSQLYPERALAGHP |
| 300592007 | Targ: ----------------------------------------------------------------------1W6K: TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYFK------Targ: ------------------------EDVTEEAVSRTLRRAINFYSTIQGDDGHWPGDYGGPMFLIPGLVIT1W6K: ------------------------DLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLLITTarg: LSITGALNAVLSTEHQREICRYLYNHQNKDGGWGLHIEGPSTMFGSVLNYVSLRLLGEEAEDGQGAVDKA1W6K: CHVA---RIPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPDDPD--LVRATarg: RKWILDHGGASAITSWGKMWLSVLGVYEWAGNNPLPPELWLLPYLLPFHPGRMWCHCRMVYLPMCYLYGK1W6K: RNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSYCYAVTarg: RFVGPITPIIRSLRKELYLVPYHEVDWNKARNECAKEDLYYPHPLVQDIVWASLHHVYEPLFMRWPAKRL1W6K: RLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALLN-----LYEHHHSAHLTarg: REKALQCVMQHIHYEDENTRYICIGPVNKVLNMLCCWV-EDPHSEAFKLHIPRIFDYLWIAEDGMKMQGY1W6K: RQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDGMKMQGTTarg: NGSQLWDTAFAVQAIMSTKLA--EEYGTTLRKAHKYIKDSQVLEDCPGDLQSWYRHISKGAWPFSTADHG1W6K: NGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGGFSFSTLDCGTarg: WPISDCTAEGLKAVLLLSKLPSEIVGKSIDEEQIYDAVNVILSLQNTDGGFATYELTRSYPWLELMNPAE1W6K: WIVSDCTAEALKAVLLLQEKCPH-VTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLLELLNPSETarg: TFGDIVIDYTYVECTSAAIQALVAFKKLYPGHRRDEIDNCVAKAADFIESIQATDGSWYGSWGVCFTYGG1W6K: VFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVCFTYGTTarg: WFGIRGLVAAGRRYDN---CSSLRKACDFLLSKELASGGWGESYLSGQNKVYTNIKDDRPHIVNTGWAML1W6K: WFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYV--QSAQSQIHNTCWAMMTarg: SLIDAGQSERDPTPLHRAARILINSQMDDGDFPQEEIMGIFNKNCMISYAAYRNIFPIWALGEYRCRVLQ1W6K: GLMAVRHP--DIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFSQLYPETarg: AP-----1W6K: RALAGHP |
| 82468805 | Targ: ----------------------------------------------------------------------1W6K: ----TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDE-RAGREQTGLEAYALGLDTKNYFKDTarg: -----------------------------QVTEEKVKITLRRALNYYSSIQADDGHWPGDYGGPMFLMPG1W6K: -----------------------------LPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGTarg: LIIALSITGALNAILSEEHKREMCRYLYNHQNRDGGWGLHIEGPSTMFGSVLCYVSLRLLGEGPNEGEGA1W6K: LLITCHV---ARIPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPDDPD--Targ: VERGRNWILKHGGATAITSWGKMWLSVLGAYEWSGNNPLPPEMWLLPYILPVHPGRMWCHCRMVYLPMSY1W6K: LVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSYTarg: LYGKRFVGPITPTVLSLRKELYTVPYHEIDWNQARNQCAKEDLYYPHPMLQDVLWATLHKFVEPILMHWP1W6K: CYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALLN-----LYEHHHTarg: GKRLREKAIQTAIEHIHYEDENTRYICIGPVNKVLNMLCCW-VEDPNSEAFKLHLPRLYDYLWLAEDGMK1W6K: SAHLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDGMKTarg: MQGYNGSQLWDTAFAVQAIVSTNL--IEEYGPTLKKAHSFIKKMQVLENCPGDLNFWYRHISKGAWPFST1W6K: MQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGGFSFSTTarg: ADHGWPISDCTAEGIKALMLLSKIPSEIVGEGLNANRLYDAVNVVLSLQNGDGGFPTYELSRSYSWLEFI1W6K: LDCGWIVSDCTAEALKAVLLLQEKCPH-VTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLLELLTarg: NPAETFGDIVIDYPYVECTSAAIQALTSFRKSYPEHQREEIECCIKKAAKFMEKIQISDGSWYGSWGVCF1W6K: NPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVCFTarg: TYGTWFGIKGLVAAGKSFGN---CSSIRKACDFLLSKQCPSGGWGESYLSCQKKVYSNLEGDRSHVVNTA1W6K: TYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYV--QSAQSQIHNTCTarg: WAMLSLIDAGQAERDPTPLHRAARYLINAQMENGDFPQQEIMGVFNRNCMITYAAYRDIFPIWALGEYRC1W6K: WAMMGLMAVRHP--DIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFSQTarg: RVLKAS-----1W6K: LYPERALAGHP |
| 452446 | Targ: ----------------------------------------------------------------------1W6K: --------TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYTarg: ---------------------------------VETTLKRGLDFYSTIQAHDGHWPGDYGGPMFLLPGLI1W6K: ------------------------FKDLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLLTarg: ITLSITGALNTVLSEQHKQEMRRYLYNHQNEDGGWGLHIEGPSTMFGSVLNYVTLRLLGEGPNDGDGDME1W6K: ITCHVA---RIPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPDDPD--LVTarg: KGRDWILNHGGATNITSWGKMWLSVLGAFEWSGNNPLPPEIWLLPYFLPIHPGRMWCHCRMVYLPMSYLY1W6K: RARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSYCYTarg: GKRFVGPITSTVLSLRKELFTVPYHEVNWNEARNLCAKEDLYYPHPLVQDILWASLHKIVEPVLMRWPGA1W6K: AVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALLN-----LYEHHHSATarg: NLREKAIRTAIEHIHYEDENTRYICIGPVNKVLNMLCCW-VEDPNSEAFKLHLPRIHDFLWLAEDGMKMQ1W6K: HLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDGMKMQTarg: GYNGSQLWDTGFAIQAILATN--LVEEYGPVLEKAHSFVKNSQVLEDCPGDLNYWYRHISKGAWPFSTAD1W6K: GTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGGFSFSTLDTarg: HGWPISDCTAEGLKAALLLSKVPKEIVGEPIDAKRLYEAVNVIISLQNADGGLATYELTRSYPWLELINP1W6K: CGWIVSDCTAEALKAVLLLQEKCPH-VTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLLELLNPTarg: AETFGDIVIDYPYVECTSAAIQALISFRKLYPGHRKKEVDECIEKAVKFIESIQAADGSWYGSWAVCFTY1W6K: SEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVCFTYTarg: GTWFGVKGLVAVGKTLKN---SPHVAKACEFLLSKQQPSGGWGESYLSCQDKVYSNLDGNRSHVVNTAWA1W6K: GTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYV--QSAQSQIHNTCWATarg: MLALIGAGQAEVDRKPLHRAARYLINAQMENGDFPQQEIMGVFNRNCMITYAAYRNIFPIWALGEYRCQV1W6K: MMGLMAVRHP--DIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFSQLYTarg: LLQQGE---1W6K: PERALAGHP |
| 300591913 | Targ: ----------------------------------------------------------------------1W6K: ------TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYFKTarg: -----------------------------EDVTEEAVTRTLRRAINFYSTIQADDGHWPGDYGGPMFLIP1W6K: -----------------------------DLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPTarg: GLVITLSITGALNAVLSTEHQREICRYLYNHQNKDGGWGLHIEGPSTMFGSVLNYVTLRLLGEEAEDGQG1W6K: GLLITCHV---ARIPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPDDPD-Targ: AVDKARKWILDHGGAAAITSWGKMWLSVLGVYEWAGNNPLPPELWLLPYLLPCHPGRMWCHCRMVYLPMC1W6K: -LVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSTarg: YLYGKRFVGPITPIIRSLRKELYLVPYHEVDWNKARNQCAKEDLYYPHPLVQDILWATLHHVYEPLFMHW1W6K: YCYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALLN-----LYEHHTarg: PAKRLREKALQSVMQHIHYEDENTRYICIGPVNKVLNMLCCWAED-PHSEAFKLHIPRIYDYLWIAEDGM1W6K: HSAHLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDGMTarg: KMQGYNGSQLWDTAFAVQAIISTE--LAEEYETTLRKAHKYIKDSQVLEDCPGDLQSWYRHISKGAWPFS1W6K: KMQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGGFSFSTarg: TADHGWPISDCTAEGLKAVLLLSKLPSEIVGKSIDEQQLYNAVNVILSLQNTDGGFATYELTRSYRWLEL1W6K: TLDCGWIVSDCTAEALKAVLLLQEKCPH-VTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLLELTarg: MNPAETFGDIVIDYPYVECSSAAIQALAAFKKLYPGHRRDEIDNCIAEAADFIESIQATDGSWYGSWGVC1W6K: LNPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVCTarg: FTYGGWFGIRGLVAAGRRYNN---CSSLRKACDFLLSKELAAGGWGESYLSCQNKVYTNIKDDRPHIVNT1W6K: FTYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYV--QSAQSQIHNTTarg: GWAMLSLIDAGQSERDPTPLHRAARVLINSQMEDGDFPQEEIMGVFNKNCMISYSAYRNIFPIWALGEYR1W6K: CWAMMGLMAVRHP--DIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFSTarg: SRVLKPLK----1W6K: QLYPERALAGHP |
| 300807982 | Targ: ----------------------------------------------------------------------1W6K: -------TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYFTarg: --------------------------IEDITEDAVTNTLRRAINFHSTTQAHDGHWPGDYGGPLFLMPGL1W6K: --------------------------KDLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLTarg: VITLSITGALNAVLSKEHKKEMCRYLYNHQNEDGGWGLHIEGPSTMFGSVLNYVTLRLLGEDVNGGDGEI1W6K: LITCHV---ARIPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPD--DPDLTarg: ERARKWILDHGGATAITSWGKMWLSVLGVFEWCGNNPLPPEMWLFPYYLPVHPGRMWCHCRMVYLPMSYL1W6K: VRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSYCTarg: YGKRFVGPITPTVLSLRKELFTVPYHEIDWNEARSLCAKEDLYYPHPVVQDILWATLHKVVEPVLLNWPG1W6K: YAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALLN-----LYEHHHSTarg: KKLREKALCSAIEHIHYEDENTRYICIGPVNKVLNMLCCW-VEDPNSEAFKLHIPRLYDYLWIAEDGMKM1W6K: AHLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDGMKMTarg: QGYNGSQLWDTAFSVQAIVATK--LVEEFSSTISKAHEFMKNSQVLEDYPGDLSYWYRHISKGAWPFSTA1W6K: QGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGGFSFSTLTarg: DHGWPISDCTAEGLKVVLKLSQFPAELVGAPLSAKLVYNAVNVILSLQNIDGGFATYELTRSYSWMELLN1W6K: DCGWIVSDCTAEALKAVLLLQEKCPH-VTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLLELLNTarg: PAETFGDIVIDYPYVECTSAALQSLVLFKKLHPEHRKEEVELCIKKAAAFIEKIQESDGSWYGSWAVCFT1W6K: PSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVCFTTarg: YGTWFGVLGLVAAGRNYKN---SPSIRKACDFLLSKQLASGGWGESYLSCQNKVYTNIPGGRSHVVNTGW1W6K: YGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYVQ--SAQSQIHNTCWTarg: AMLALIGAGQAERDPVPLHRAAKFLIESQLENGDFPQQEIMGVFNKNCMISYAAYRNIFPIWALGEYRCK1W6K: AMMGLMAVRHP--DIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFSQLTarg: VLNASRGQMKT1W6K: YPERALAGHP- |
| 300591981 | Targ: ----------------------------------------------------------------------1W6K: ------TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYFKTarg: --------------------------EDVTEEMVTRMLRRAISFHSTLQAHDGHWAGDYGGPMFLMPGLV1W6K: --------------------------DLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLLTarg: ITLSITGALNTVLSEEHKKEMCRYLYNHQNKDGGWGLHIEGPSTMFGTVLSYVTLRLLGEGANDGQGAIE1W6K: ITCHVA---RIPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPDDPD--LVTarg: RGRKWILDHGSATAIISWGKMWLSVLGAFEWSGNNPLPPEIWLLPYMLPVHPGRMWCHCRMVYLPMSYLY1W6K: RARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSYCYTarg: GKRFVGPITPTVMSLRKELYSVPYHEIDWNQARNLCAKEXLYYPHPLVQDILWASLHKLVEPVLMRWPGK1W6K: AVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALLN-----LYEHHHSATarg: RLREKALRTVLEHIHYEDENTRYICIGPVNKVLNMLCCW-VEDPNSEAFKLHLPRINDYLWIAEDGMKMQ1W6K: HLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDGMKMQTarg: GYNGSQLWDTAFAVQAIISTNLF--EEYGPTLEKAHMYIKKSQVREDCPGDLDFWYRHISKGAWPFSTAD1W6K: GTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGGFSFSTLDTarg: HGWPISDCTAEGLKAALLLSKIPPDVVGEPLVEERLYDAVNVILSLQNADGGFATYELTRSYPWLELINP1W6K: CGWIVSDCTAEALKAVLLLQEKCPH-VTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLLELLNPTarg: AETFGDIVIDYNYVECTSAAIQALTSFKKSYPKHREEEVDVCIKRAAMFTEKIQASDGSWYGSWGVCFTY1W6K: SEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVCFTYTarg: GTWFGVKGLVAAGKNFND---CFGIRKACDFLLSKQLPSGGWGESYLSCQNKVYSHVEGNRSHVVNTGWA1W6K: GTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYV--QSAQSQIHNTCWATarg: MLALIEAGQAERDPTPLHRAARVLINSQMENGDFPQEEIMGVFNRNCMITYAAYRNIFPIWALGEYRCRV1W6K: MMGLMAVRHP--DIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFSQLYTarg: LQA-----P1W6K: PERALAGHP |
| 6090879 | Targ: ----------------------------------------------------------------------1W6K: ------------TEGTCLRRRGGPYKTE-PATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLTarg: ------------------------HEAVTGEAVLSSLKRAIARYSTFQAHDGHWPGDYGGPMFLMPGLII1W6K: ------------------DTKNYFKDLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLLITarg: TLYVSGALNTALSSEHQKEIRRYLYNHQNEDGGWGLHIEGHSTMFGSALTYVSLRLLGEGPDSGDGAMEK1W6K: TCHVA---RIPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPDDPD--LVRTarg: GRKWILDHGGATYITSWGKFWLSVLGVFDWSGNNPVPPEIWLLPYFLPIHPGRMWCHCRMVYLPMCYIYG1W6K: ARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSYCYATarg: KRFVGPVTPIILELRKELYEVPYNEVDWDKARNLCAKEDLYYPHPFVQDVLWATLHKFVEPAMLRWPGNK1W6K: VRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALLNLYE-----HHHSAHTarg: LREKALDTVMQHIHYEDENTRYICIGPVNKVLNMLACWI-EDPNSEAFKLHIPRVHDYLWIAEDGMKMQG1W6K: LRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDGMKMQGTarg: YNGSQLWDTAFTVQAIVATGLI--EEFGPTLKLAHGYIKKTQVIDDCPGDLSQWYRHISKGAWPFSTADH1W6K: TNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGGFSFSTLDCTarg: GWPISDCTAEGLKAALLLSKISPDIVGEAVEVNRLYDSVNCLMSYMNDNGGFATYELTRSYAWLELINPA1W6K: GWIVSDCTAEALKAVLLLQEKCPH-VTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLLELLNPSTarg: ETFGDIVIDYPYVECTSAAIQALTAFKKLYPGHRKSEIDNCISKAASFIEGIQKSDGSWYGSWAVCFTYG1W6K: EVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVCFTYGTarg: TWFGVKGLVAAGRTFKN---SPAIRKACDFLLSKELPSGGWGESYLSSQDQVYTNLEGKRPHAVNTGWAM1W6K: TWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYVQS--AQSQIHNTCWAMTarg: LALIDAGQAERDPIPLHRAAKVLINLQSEDGEFPQQEIIGVFNKNCMISYSEYRNIFPIWALGEYRRRV-1W6K: MGLMAVRHP--DIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFSQLYPTarg: ---LAADK1W6K: ERALAGHP |
| 119499584 | Targ: TTDSSMPATVIGKAEFSNTKAASEFGTNLSRWRLNVDNGRHMWEYLESEDEARKRPQSILEKYWLGLPYE1W6K: --------TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYTarg: LPARPRATRALEAVENGWEFFKRLQTADGHWGCNDDGPLFVTSGMVIARYIVGIPIDSHMKQEMCRYLLN1W6K: FKDLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLLITCHVARIPLPAGYREEIVRYLRSTarg: VVNEDGGWGLFIQSPSTVFGTVMNYCMLRILGLGPEHPAMARARNTLHRLGSASATPTWGKFWLCVLGVY1W6K: VQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPDDPDLVRARNILHKKGGAVAIPSWGKFWLAVLNVYTarg: EWEGMIPLPPEPLLVPASLPFNPGKWWVHTRNVYISMSYLYGHRFSMPPNKLVQALRDELYDIPYEQINW1W6K: SWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSYCYAVRLSAAEDPLVQSLRQELYVEDFASIDWTarg: PAQRTNVSAADRLTDPTWIQRSFTSALTTYETFKIPFLRRRALNEALFQIETETRNTHYLCIAPVSFASN1W6K: LAQRNNVAPDELYTPHSWLLRVVYALLNLYEHHHSAHLRQRAVQKLYEHIVADDRFTKSISIGPISKTINTarg: MLALYHAHGRDSHWIRGMRDRFIDPMWLCREGLAASGTNGTSLWDTALTVQATIDAGLAARPENQAILRK1W6K: MLVRWYVDGPASTAFQEHVSRIPDYLWMGLDGMKMQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKTarg: ALEFIDNSQIREDPLGVHHVYRQPTRGAWPFSTRDQSYAVSDTTAEAVKVVVLLQ-QIEGFPSRISDERL1W6K: AHEFLRLSQVPDNPPDYQKYYRQMRKGGFSFSTLDCGWIVSDCTAEALKAVLLLQEKCPHVTEHIPRERLTarg: QQAIDLILGMENAGGGFSAYEPVRGPKFLELLNITELYENVMTDNLYPECTSSVIMSLTTFAREYPTYRA1W6K: CDAVAVLLNMRNPDGGFATYETKRGGHLLELLNPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRATarg: RDIQACVSRSVDYLLRSQYPNGGWFASWGVCFTYATMFALQGLACMGRNESN---CAACQRACSFLLQHQ1W6K: AEIRETLTQGLEFCRRQQRADGSWEGSWGVCFTYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQTarg: NPDGGWGESLDTVRFKQYLPHPDGSQVTNTAYAVIGLLAARCGNHEAIRRGVAYLMKEQQDTGEWLPGAL1W6K: MADGGWGEDFESCEERRYV-QSAQSQIHNTCWAMMGLMAVRHPDIEAQERGVRCLLEKQLPNGDWPQENITarg: EGVFAPPGGMRYPNYKFHFTLMALGRYAAVHGDECLAAQLV1W6K: AGVFNKSCAISYTSYRNIFPIWALGRFSQLYPERALAGHP- |
| 70993016 | Targ: ATDSSMPGTVIGKAEFSDTKAASEFGTDLSRWRLNVDNGRHMWEYLESEDEARKRPQSFLEKYWLGLPYE1W6K: ---TEGTCLRRRG-----GPYKTEPATDLGRWRLNCERGRQTWTYLQDERAG--REQTGLEAYALGLDTKTarg: --LPARPRATCALEAVENGWEFFKRLQTADGHWGCNDDGPLFVTSGMVIARYIVGIPIDSHMKQEMCRYL1W6K: NYFKDLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLLITCHVARIPLPAGYREEIVRYLTarg: LNVVNEDGGWGLFIQSPSTVFGTVMNYCMLRILGLGPEHPAMAKARNTLHRLGSARATPTWGKFWLCVLG1W6K: RSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPDDPDLVRARNILHKKGGAVAIPSWGKFWLAVLNTarg: VYEWEGMVPLPPEPLLVPASLPFNPGKWWVHTRNVYISMSYLYGHRFSMPPNKLVQALRDELYDIPYQQI1W6K: VYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSYCYAVRLSAAEDPLVQSLRQELYVEDFASITarg: NWPAQRTNVSAADRLTDPTWIQRSFTSALTMYETFKIPFLRRRALNEALFQIETETRNTHYLCIAPVSFA1W6K: DWLAQRNNVAPDELYTPHSWLLRVVYALLNLYEHHHSAHLRQRAVQKLYEHIVADDRFTKSISIGPISKTTarg: SNMLALYHAHGRDSHWIRGMRDRFIDPMWLCREGLAASGTNGTSLWDTALTVQATIDAGLAARPENQAIL1W6K: INMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDGMKMQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLTarg: RKALEFIDNSQIREDPLGVHHVYRQPTRGAWPFSTRDQSYAVSDTTAEAVKVIVLLQ-RIEGFPSRISDE1W6K: QKAHEFLRLSQVPDNPPDYQKYYRQMRKGGFSFSTLDCGWIVSDCTAEALKAVLLLQEKCPHVTEHIPRETarg: RLQQAIDLILGMENAGGGFSAYEPVRGPKFLELLNITELYENVMTDNLYPECTSSVIMCLTTFAREYPTY1W6K: RLCDAVAVLLNMRNPDGGFATYETKRGGHLLELLNPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHTarg: RPRDIQACLSRSIDYLLRSQYPNGGWFASWGVCFTYATMFALQGLACMGWNESN---CAACQRACSFLLQ1W6K: RAAEIRETLTQGLEFCRRQQRADGSWEGSWGVCFTYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSTarg: HQNPDGGWGESLDTVRFKQYLPHPDGSQVTNTAYAVIGLLAARCGNHEAIRRGVAYLVKEQQDTGEWLPG1W6K: RQMADGGWGEDFESCEERRYV-QSAQSQIHNTCWAMMGLMAVRHPDIEAQERGVRCLLEKQLPNGDWPQETarg: PLEGVFAPPGGMRYPNYKFHFTLMALGRYVAIHGNECLAI--1W6K: NIAGVFNKSCAISYTSYRNIFPIWALGRFSQLYPERALAGHP |
| 300591911 | Targ: ----------------------------------------------------------------------1W6K: ---------TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNTarg: -------------------------------------KEAVKSTLERALGFYSAVQTRDGNWASDLGGPL1W6K: ------------------------------YFKDLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLTarg: FLLPGLVIALHVTGVLNSVLSKHHRVEMCRYLYNHQNEDGGWGLHIEGTSTMFGSALNYVALRLLGEDAD1W6K: FLLPGLLITCHVARI---PLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPDTarg: GGDGGAMTKARAWILERGGATAITSWGKLWLSVLGVYEWSGNNPLPPEFWLLPYSLPFHPGRMWCHCRMV1W6K: DPD---LVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVTarg: YLPMSYLYGKRFVGPITPKVLSLRQELYTIPYHEIDWNKSRNTCAKEDLYYPHPKMQDILWGSIYHVYEP1W6K: YLPMSYCYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALL-----NTarg: LFTRWPGKRLREKALQAAMKHIHYEDENSRYICLGPVNKVLNMLCCW-VEDPYSDAFKLHLQRVHDYLWV1W6K: LYEHHHSAHLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMTarg: AEDGMRMQGYNGSQLWDTAFSIQAIVATK--LVDSYAPTLRKAHDFVKDSQIQEDCPGDPNVWFRHIHKG1W6K: GLDGMKMQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGTarg: AWPLSTRDHGWLISDCTAEGLKASLMLSKLPSTMVGEPLEKNRLCDAVNVLLSLQNDNGGFASYELTRSY1W6K: GFSFSTLDCGWIVSDCTAEALKAVLLLQEKCP-HVTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGTarg: PWLELINPAETFGDIVIDYPYVECTAATMEALTLFKKLHPGHRTKEIDTAIGKAANFLEKMQRADGSWYG1W6K: HLLELLNPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGTarg: CWGVCFTYAGWFGIKGLVAAGRTYNS---CLAIRKACEFLLSKELPGGGWGESYLSCQNKVYTNLEGNKP1W6K: SWGVCFTYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYVQS--AQSTarg: HLVNTAWVLMALIEAGQGERDPAPLHRAARLLMNSQLENGDFVQQEIMGVFNKNCMITYAAYRNIFPIWA1W6K: QIHNTCWAMMGLMAV--RHPDIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWATarg: LGEYCHRVLTE------1W6K: LGRFSQLYPERALAGHP |
| 108864084 | Targ: ----------------------------------------------------------------------1W6K: -------------TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLTarg: --------------------------EDVMGEAVWSSLKRAISRVCNLQAHDGHWPGDYAGLMFFLPGLI1W6K: -------------------DTKNYFKDLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLLTarg: ITLHVSGVLNTVLSSEHQKEMRRYIYNHQNEDGGWGLHIEGHSTMLGSSLNYVALRLLGEGPNGGDGCIE1W6K: ITCHVARI---PLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPDDPD--LVTarg: NGRNWILDHGGATFTTSWGKFWLSVLGVFDWSGNNPVPPELLLLPYQLPFHPGRMSSYIRMVFIPMSYIY1W6K: RARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSYCYTarg: GKRFVGPVTPVVLELRSELYNDPYDEIDWNKARTQCAKEDMYYPRSSKLDMFWSFLHKFIEPVLLRWPGR1W6K: AVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALLN-----LYEHHHSATarg: KLREKALATSMRNVHYEDECTRYICFGGVPKALNILACW-IEDPSSEAFKCHIARVYDYLWIAEDGMKMQ1W6K: HLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDGMKMQTarg: IYDGSQVWDAGLTVEALVATD--LVKELGPTLKRAHSFLKNSQLLDNCPRDFNRWYRHISKGGWTFTTAD1W6K: GTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGGFSFSTLDTarg: DGWQVSDCTATALKACLLLSRISPEIVGEPLEIDAQYDAVNCLMSLMNDNGGFSAFELVRSNTWLEHINP1W6K: CGWIVSDCTAEALKAVLLLQEKCPHVT-EHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLLELLNPTarg: TEAFGRVMIEYPYVECTSSSIQCLALFKKLHPGHRKEEVENCISKGANFIESSQRSDGSWYGSWGICFTY1W6K: SEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVCFTYTarg: ATWFAVTGLVSAGRTLGN---SATVRKACDFLLSKQLPSGGWGESYLSCHDEVYTNLKGNRPHGTHTAWA1W6K: GTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYVQSAQSQIH--NTCWATarg: MIALIDAGQAERDPVPLHRAAKALLNLQLEDGEFPQQEIVGVFLQTAMISYSQYRNIFPIMALTGYRRRV1W6K: MMGLMAVRHP--DIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFSQLYTarg: LLAGNI---1W6K: PERALAGHP |
| 30699377 | Targ: ----------------------------------------------------------------------1W6K: ------TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYFKTarg: ----------------------------EGITYKNATDALRRAVSFYSALQSSDGHWPAEITGTLFFLPP1W6K: ----------------------------DLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGTarg: LVFCFYITGHLEKI-FDAEHRKEMLRHIYCHQNEDGGWGLHIEGKSVMFCTVLNYICLRMLGEGPNGGRN1W6K: LL----ITCHVARIPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPD---DTarg: NACKRARQWILDHGGVTYIPSWGKIWLSILGIYDWSGTNPMPPEIWLLPSFFPIHLGKTLCYTRMVYMPM1W6K: PDLVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMTarg: SYLYGKRFVGPLTPLIMLLRKELHLQPYEEINWNKARRLCAKEDMIYPHPLVQDLLWDTLHNFVEPILTN1W6K: SYCYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALLNLYEHHHSAHTarg: WPLKKLVREKALRVAMEHIHYEDENSHYITIGCVEKVLCMLACW-IENPNGDHFKKHLARIPDFMWVAED1W6K: ------LRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDTarg: GLKMQ-SFGSQLWDTVFAIQALLACDLS--DETDDVLRKGHSFIKKSQVRENPSGDFKSMYRHISKGAWT1W6K: GMKMQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGGFSTarg: LSDRDHGWQVSDCTAEALKCCMLLSMMPAEVVGQKIDPEQLYDSVNLLLSLQGEKGGLTAWEPVRAQEWL1W6K: FSTLDCGWIVSDCTAEALKAVLLLQEKCPH-VTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLLTarg: ELLNPTDFFTCVMAEREYVECTSAVIQALVLFKQLYPDHRTKEIIKSIEKGVQFIESKQTPDGSWHGNWG1W6K: ELLNPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGTarg: ICFIYATWFALSGLAAAGKTYKS---CLAVRKGVDFLLAIQEEDGGWGESHLSCPEQRYIPLEGNRSNLV1W6K: VCFTYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYV--QSAQSQIHTarg: QTAWAMMGLIHAGQAERDPTPLHRAAKLIITSQLENGDFPQQEILGVFMNTCMLHYATYRNIFPLWALAE1W6K: NTCWAMMGLMAVRHP--DIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRTarg: YRKAA----FATHQDL1W6K: FSQLYPERALAGHP-- |
| 211926830 | Targ: ----------------------------------------------------------------------1W6K: ------TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYFKTarg: ----------------------------EKVTFETATSALRRGIHFFSALQASDGHWPAENAGPLFFLPP1W6K: ----------------------------DLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGTarg: LVFCLYITGHL-DEVFTSEHRKEILRYIYCHQKEDGGWGLHIEGHSTMFCTTLNYICMRILGESPDGGHD1W6K: LL----ITCHVARIPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPD---DTarg: NACGRAREWILSHGGVTYIPSWGKTWLSILGVFDWSGSNPMPPEFWILPSFFPVHPAKMWSYCRMVYLPM1W6K: PDLVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMTarg: SYLYGKRFVGPITSLILQLRKELYLQPYEEINWMKVRHLCAKEDTYYPRPLVQELVWDSLYIFAELFLAR1W6K: SYCYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALLNLYEHHHSAHTarg: WPFNKLLREKALQLAMKHIHYEDENSRYITIGCVEKVLCMLACW-VEDPNGDYFKKHLSRISDYLWMAED1W6K: ------LRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDTarg: GMKMQSF-GSQLWDTGFAMQALLASN--LSSEISDVLRRGHEFIKNSQVGENPSGDYKSMYRHISKGAWT1W6K: GMKMQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGGFSTarg: FSDRDHGWQVSDCTAHGLKCCLLFSMLAPDIVGPKQDPERLHDSVNILLSLQSKNGGMTAWEPAGAPKWS1W6K: FSTLDCGWIVSDCTAEALKAVLLLQEKCPH-VTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLLTarg: ELLNPTEMFSDIVIEHEYSECTSSAIQALSLFKQLYPDHRTTEITAFIKKAAEYLENMQTRDGSWYGNWG1W6K: ELLNPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGTarg: ICFTYGTWFALAGLAAAGKTFND---CEAIRKGVQFLLAAQKDNGGWGESYLSCSKKIYIAQVGEISNVV1W6K: VCFTYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYVQS--AQSQIHTarg: QTAWALMGLIHSGQAERDPIPLHRAAKLIINSQLESGDFPQQQATGVFLKNCTLHYAAYRNIHPLWALAE1W6K: NTCWAMMGLMAVRHPDIE--AQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRTarg: YRARVSL------P1W6K: FSQLYPERALAGHP |
| 300591977 | Targ: ----------------------------------------------------------------------1W6K: ------TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYFKTarg: ---------------------------EEITYEKSTAALRRAVHFYSALQASDGHWPAENAGPLFFLPPL1W6K: ---------------------------DLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLTarg: VMCMYITGHL-NTVFPAEHQKEILRYIYYHQNEDGGWGLHIEGHSTMFCTALSYICMRILGEGPDGGQDN1W6K: L----ITCHVARIPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPD---DPTarg: ACARARKWILDHGGVTHMPSWGKTWLSILGIFEWIGSNPMPPEFWILPSFLPMHPAKMWCYCRMVYMPMS1W6K: DLVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSTarg: YLYGKRFVGPITPLILQLREELYTQPYHQVNWKKVRHLCAKEDIYYPHPLIQDLLWDSLYIFTEPLLTRW1W6K: YCYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALLNLYEHHH----Targ: PFNKLVREKALQVTMKHIHYEDENSRYITIGCVEKVLCMLACW-VEDPNGDYFKKHIARIPDYIWVAEDG1W6K: --SAHLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDGTarg: IKMQSF-GSQEWDTGFAIQALLASN--LTDEIGPTLARGHDFIKKSQVKDNPSGDFESMHRHISKGSWTF1W6K: MKMQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGGFSFTarg: SDQDHGWQVSDCTAEGLKCCLLFSIMPPEIVGEKMEPEQLYDSVNVLLSLQSKNGGLAAWEPAGAQEWLE1W6K: STLDCGWIVSDCTAEALKAVLLLQEKCPH-VTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLLETarg: LLNSTEFFADIVIEHEYIECTASAMQTLVLFKKLYPGHRKKEIENFIKNAAQFLQVIQMPDGSWYGNWGV1W6K: LLNPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVTarg: CFTYGTWFALGGLAAVGKTYNN---CLAVRRAVDFLLRAQRDNGGWGESYLSCPKKEYVPLEGNKSNLVH1W6K: CFTYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYV--QSAQSQIHNTarg: TAWAMMGLIHAGQAERDPTPLHRAAKLIINSQLEDGDFPQQEITGVFMKNCMLHYAAYKNIYPLWALAEY1W6K: TCWAMMGLMAVRHP--DIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFTarg: RKHVPLPLGKNLNQVVNCIGQSLYKKYK1W6K: SQLYPERALAGHP--------------- |
| 300592003 | Targ: ----------------------------------------------------------------------1W6K: ------TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYFKTarg: ---------------------------EEITYEKATTAVRRAAHHLSALQTSDGHWPAQIAGPLFFLPPL1W6K: ---------------------------DLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLTarg: VFCMYITGHLDSVFPEEYRKEILRYIYYHQNEDGGWGLHIEGHSTMFCTALNYICMRILGEGPDGGQDNA1W6K: LITCHVAR---IPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPD---DPDTarg: CARARKWIHDHGGVTHIPSWGKTWLSILGVFDWCGSNPMPPEFWILPSFLPMHPAKMWCYCRLVYMPMSY1W6K: LVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSYTarg: LYGKRFVGPITPLILQLREELFTEPYEKVNWKKARHQCAKEDLYYPHPLLQDLIWDSLYLFTEPLLTRWP1W6K: CYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALLNLYEHHH-----Targ: FNKLVREKALQVTMKHIHYEDETSRYITIGCVEKVLCMLACW-VEDPNGDAFKKHLARVPDYLWVSEDGM1W6K: -SAHLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDGMTarg: TMQSF-GSQEWDAGFAVQALLATNLV--EEIAPTLAKGHDFIKKSQVRDNPSGDFKSMYRHISKGSWTFS1W6K: KMQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGGFSFSTarg: DQDHGWQVSDCTAEGLKCCLLLSMLPPEIVGEKMEPERLYDSVNVLLSLQSKKGGLSAWEPAGAQEWLEL1W6K: TLDCGWIVSDCTAEALKAVLLLQEKCP-HVTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLLELTarg: LNPTEFFADIVVEHEYVECTGSAIQALVLFKKLYPGHRKKEIENFIANAVRFLEDTQTADGSWYGNWGVC1W6K: LNPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVCTarg: FTYGSWFALGGLAAAGKTFAN---CAAIRKAVKFLLTTQREDGGWGESYLSSPKKIYVPLEGSRSNVVHT1W6K: FTYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYVQ--SAQSQIHNTTarg: AWALMGLIHAGQAERDPAPLHRAAKLIINSQLEEGDWPQQEITGVFMKNCMLHYPMYRDIYPMWALAEYR1W6K: CWAMMGLMAVRHPDIE--AQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFSTarg: RRVPLPSTPVCLT--1W6K: QLYPERA---LAGHP |
| 353678016 | Targ: ----------------------------------------------------------------------1W6K: ------TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYFKTarg: ---------------------------EGITYEKATRALRRTVQFFSALQASDGHWPAEIAGPLFFLPPL1W6K: ---------------------------DLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLTarg: VMCVYITGHL-DAVFPAEHRKEILRYIYYHQNEDGGWGLHIEGHSTMFCTALNYICMRIIGEGPNGGQDD1W6K: L----ITCHVARIPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPD---DPTarg: ACARARKWIHDHGSVTNIPSWGKTWLSILGVYDWSGSNPMPPEFWMLPSFLPMHPAKMWCYCRMVYMPMS1W6K: DLVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSTarg: YLYGKRFVGPITPLIQQLREELFTQPYDQINWKKTRHQCAPEDLYYPHPFVQDLIWDCLYIFTEPLLTRW1W6K: YCYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALLNLYEHHHSAH-Targ: PLNEIIRKKALEVTMKHIHYEDESSRYITIGCVEKVLCMLACW-VEDPNGDYFKKHLARIPDYIWVAEDG1W6K: -----LRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDGTarg: MKMQSF-GSQEWDTGFAIQALLATNLT--DEIGDVLRRGHDFIKKSQVRDNPSGDFKSMYRHISKGSWTF1W6K: MKMQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGGFSFTarg: SDQDHGWQVSDCTAEGLKCCLLFSMMPPEIVGEHMVPERLYDSVNVLLSLQSKNGGLSAWEPAGAQEWLE1W6K: STLDCGWIVSDCTAEALKAVLLLQEKCPH-VTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLLETarg: LLNPTEFFADIVIEHEYVECTSSAIHALVLFKKLYPGHRKKEIDNFIVNAVRYLESIQTSDGGWYGNWGV1W6K: LLNPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVTarg: CFTYGTWFALGGLAAAGKTYNN---CLAMRKAVDFLLRIQRDNGGWGESYLSCPEKRYVPLEGNRSNLVH1W6K: CFTYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYVQ--SAQSQIHNTarg: TAWALMALIHAGQMDRDPTPLHRAARLMINSQLEDGDFPQQEITGVFMKNCMLHYAAYRNIYPLWALAEY1W6K: TCWAMMGLMAVRHP--DIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFTarg: RRRVPLPS-----1W6K: SQLYPERALAGHP |
| 118901781 | Targ: ----------------------------------------------------------------------1W6K: -------TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYFTarg: --------------------------GEEITYEAATTTLRRAVHYFSALQADDGHWPAENAGPLFFLPPL1W6K: --------------------------KDLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLTarg: VMCLYITGHLNTVFPAEHRIEILRYIYCHQNDDGGWGLHIEGHSTMFCTALSYICMRILGEGRDGGENNA1W6K: LITCHVAR---IPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPDDPD---Targ: CARARKWILDHGSVTAIPSWGKTWLSILGLFDWSGSNPMPPEFWILPPFLPMHPAKMWCYCRMVYMPMSY1W6K: LVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSYTarg: LYGKRFVGPITPLILQLREELYAQAYDEINWRKVRHNCAKEDLYYPHPLIQDLMWDSLYIFTEPFLTRWP1W6K: CYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALLNLYE-----HHHTarg: FNKLREKALQTTMKHIHYEDENSRYITIGCVEKVLCMLACW-VEDPNGDYFKQHLARIPDYIWVAEDGMK1W6K: SAHLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDGMKTarg: MQSF-GSQEWDTGFAIQALLASD--LIDEIRPTLMKGHDFIKKSQVKENPSGDFKSMHRHISKGSWTFSD1W6K: MQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGGFSFSTTarg: QDHGWQVSDCTAEALKCCLLFSRMPTEIVGDKMEDNQLFDAVNMLLSLQSKNGGLAAWEPAGSSEWLELL1W6K: LDCGWIVSDCTAEALKAVLLLQEKCPH-VTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLLELLTarg: NPTEFFEDIVIEHEYVECTSSAIQAMVMFKKLYPGHRKKEIEVSITNAVQYLEDIQMPDGSWYGNWGVCF1W6K: NPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVCFTarg: TYGTWFAMGGLTAAGKTYNN---CQTLHKAVDFLIKSQRSDGGWGESYLSCPNKEYTPLEGNRSNLVHTS1W6K: TYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYV--QSAQSQIHNTCTarg: WAMMGLIHSRQAERDPTPLHRAAKLLINSQMESGDFPQQEITGVFMKNCMLHYAASRNIYPLWALAEYRK1W6K: WAMMGLMAVRHP--DIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFSQTarg: NVRLPSKSV--1W6K: LYPERALAGHP |
| 350538403 | Targ: ----------------------------------------------------------------------1W6K: -----TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYFKDTarg: ----------------------------EISHEIATVALHRAVHFFSALQATDGHWPAESAGPLFFLPPL1W6K: ----------------------------LPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLTarg: VMCMYITGHLNTVFPAEHRKEILRYIYCHQNEDGGWGLHIEGHSTMFCTAMSYICMRILGEGPEGGVNNA1W6K: LITCHVAR---IPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPD---DPDTarg: CARARKWILDHGSVIAIPSWGKTWLSILGAFEWIGTNPMPPEFWILPSFLPVHPAKMWCYCRTVYMPMSY1W6K: LVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSYTarg: LYGKRFVGPITPLILKLREELYDQTYDEINWKKVRHVCAKEDLYYPHPFVQDLMWDSLYICTEPLLTRWP1W6K: CYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALLN-----LYEHHHTarg: FNKLRNKALEVTMKHIHYEDENSRYITMGCVEKVLSMLACW-VEDPNGDHFKKHLARIPDFLWVAEDGMK1W6K: SAHLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDGMKTarg: MQGC-GSQSWDASLAIQALLASE--MNDEISDTLKNGHDFIKQSQVKDNPSGDFKVMYRHISKGSWAFAD1W6K: MQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGGFSFSTTarg: QDLGWQVSDCTAEALKCCLLFSTMPPEIVGEAMDPVRLYDSVNVILSLQSKNGGLSAWEPAGAPEYLELL1W6K: LDCGWIVSDCTAEALKAVLLLQEKCPH-VTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLLELLTarg: NPTEFFEDIVIEHEHVECTSSAIQALVRFKKLYPGHRTTEVDNFINNGVKYIEDVQEPDGSWYGNWGVCF1W6K: NPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVCFTarg: IYASWFALGGLAAVGLSYSN---CAAVRKSVEFLLRTQRSDGGWGESYRSCPDKVYRELETEHSNLVQTA1W6K: TYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYVQ--SAQSQIHNTCTarg: WALMGLIHSGQVERDPRPLHRAAKLLINFQMEDGDFPQQEITGVFLRNCMMHYALYRNIFPLWGLAEYRR1W6K: WAMMGLMAVR--HPDIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFSQTarg: NVLVPLKHNYI1W6K: LYPERALAGHP |
| 300807980 | Targ: ----------------------------------------------------------------------1W6K: -------TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYFTarg: --------------------------GEEVSYEAVTAALRRGVHLYSALQASDGHWPAENAGPMFFMPPM1W6K: --------------------------KDLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLTarg: VMCLYITGHLNAIFTEEHRSETLRYIYYHQNEDGGWGFHIEGHSTMFGTVLNYICMRLLGEGPEGGQDNA1W6K: LITCHVAR---IPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPD---DPDTarg: VSRGRKWILDHGGATSIPSWGKTWLSIMGLCDWSGCNPMPPEFWLLPSYLPMHPGKMWCYCRMVYMPMSY1W6K: LVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSYTarg: LYGKRFTARITPLILQLREEIHIQPYDQIDWKKVRHVCCKEDMYYPHPLLQDLLWDTLYLTTEPLLTRWP1W6K: CYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALLN------LYEHHTarg: LNKLIRKRALQTTMKHIHYEDENSRYITIGCVEKVLCMLACWV-EDPNGDYFKKHLARIPDYLWIAEDGM1W6K: HSAHLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDGMTarg: KMQSF-GSQHWDTAFSIQALLASN--MAEEIGITLAKGHDFIKKSQVKDNPSGDFKGMYRHISKGAWTFS1W6K: KMQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGGFSFSTarg: DQDHGWQVSDCTAEGLKCCLLFSMMQPEVVGESMAPESLYNSVNVLLSLQSQNGGLPAWEPAGAPEWLEL1W6K: TLDCGWIVSDCTAEALKAVLLLQEKCPH-VTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLLELTarg: LNPTEFFENIVIEHEYVECTSSAVQALVLFKKLYPLHRRKEVERFITNGAKYLEDIQMPDGSWYGNWGVC1W6K: LNPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVCTarg: FTYGAWFALEGLSAAGKTYNN---CAAVRKGVDFLLNIQLEDGGWGESYQSCPDKKYVPLEDNRSNLVQT1W6K: FTYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYV--QSAQSQIHNTTarg: SWALMGLIYAGQADRDPTPLHRAAQLLINSQLEDGDFPQQEITGVFQRNCMLHYAAYRNIFPLWALAEYR1W6K: CWAMMGLMAVRHPDIE--AQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFSTarg: RQIQLHSEATKMV1W6K: QLYPERALAGHP- |
| 353558692 | Targ: ----------------------------------------------------------------------1W6K: ------TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYFKTarg: ---------------------------EEITREIATTALRRSVHLVSALQASDGHWCAENSGPMFFVPPM1W6K: ---------------------------DLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLTarg: VFSLYITGHL-NAVFSAEHCKEILRYIYCHPNEDGGWGLHIEGHSAMFSTVLNYNWLGKLGEGRDGGKDN1W6K: L----ITCHVARIPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPD---DPTarg: ACERARRRILDHGSATAISSWGKTWLAILGVYEWDGCNPMPPEFWAFPTFFPIHPARMLCYCRLTYMAMS1W6K: DLVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSTarg: YLYGKKFVGPITPLILQLREEIYNEPYDQINWSRMRHLCAKEDNYYAHTLTQIILWDAIYMLGEPLLKRW1W6K: YCYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALL-----NLYEHHTarg: PFNKLREKALKITMDHIHYEDENSQYITIGSVEKPLLMLACW-HEDPNGDAFKKHLARIPDYVWLGEDGI1W6K: HSAHLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDGMTarg: KIQSF-GSQVWDTSFVLQALIASNLPS--ETGPTLEKGHNFIKNSQVTQNPSGDFRRMFRHISKGSWTFS1W6K: KMQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGGFSFSTarg: DKDHGWQVSDCTAESLKCCLLFSMMPPELVGEKMGPQRMYDAVNVIISLQSKNGGCSAWEPAGAGSWMEW1W6K: TLDCGWIVSDCTAEALKAVLLLQEKCPH-VTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLLELTarg: LNPVEFLADLVIEHEYVECTSSSLQALVLFKKLYPEHRRKEIEIFILNAVRFTEEIQQPDGSWYGNWGIC1W6K: LNPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVCTarg: FLSGTWFGLKGLAAAGKTYYN---CTAVRKGVEFLLQTQRDDGGWGESYLSCPKKIYVPLEGNRSNLVQT1W6K: FTYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYVQ--SAQSQIHNTTarg: ALAMMGLILGGQGERDPTPLHRAAKLLINSQTELGDFPQQELSGCFMRNCMLHYSEYRDIFPTWALAEYC1W6K: CWAMMGLMAVRH--PDIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFSTarg: KLFPLPSKND--1W6K: QLYPERALAGHP |
| 82468803 | Targ: ----------------------------------------------------------------------1W6K: ------TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYFKTarg: ---------------------------EEITSEIAAAALRRSVHLFSALQASDGHWCAENGGLLFFLPPL1W6K: ---------------------------DLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLTarg: VFAVYITGHLNTVFSPEHRKEILRYIYCHQNEDGGWGIHIEGHSTMFCTVLNYICMRILGEARDGGIENA1W6K: LITCHVA---RIPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPD---DPDTarg: CERGRKWILDHGGATGISSWGKTWLSILGVYEWDGTNPMPPEFWAFPSSFPLHPAKMFCYCRITYMPMSY1W6K: LVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSYTarg: LYGKRFVGPITPLILQIREEIYNEPYNKIKWNSVRHLCAKEDNYFPHPTIQKLLWDALYTFSEPLFSRWP1W6K: CYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALLN-----LYEHHHTarg: FNKLREKALKITMDHIHYEDHNSRYITIGCVEKPLCMLACW-IEDPHGEAFKKHLARIADYIWVGEDGIK1W6K: SAHLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDGMKTarg: MQSF-GSQTWDTSLALQALIASDLS--HEIGPTLKQGHVFTKNSQATENPSGDFRKMFRHISKGAWTFSD1W6K: MQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGGFSFSTTarg: KDQGWQVSDCTAESLKCCLLFSMMPPEIVGEKMEPEKVYDSVNVILSLQSQNGGFTAWEPARAGSWMEWL1W6K: LDCGWIVSDCTAEALKAVLLLQEKCPH-VTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLLELLTarg: NPVEFMEDLVVEHEYVECTSSAIQALVLFKKLYPRHRNKEIENCIINAAQFIENIQEPDGSWYGNWGICF1W6K: NPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVCFTarg: SYGTWFALKGLAAAGRTYEN---CSAIRKGVDFLLKSQRDDGGWAESYLSCPKKVYVPFEGNRSNLVQTA1W6K: TYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYV--QSAQSQIHNTCTarg: WAMMGLIYGGQAKRDPMPLHRAAKLLINSQTDLGDFPQQELTGAFMRNCMLHYALFRNTFPIWALAEYRR1W6K: WAMMGLMAVRHP--DIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFSQTarg: HVLFPSAGFGFGFTNNL1W6K: LYPERALAGHP------ |
| 353678133 | Targ: ----------------------------------------------------------------------1W6K: ------TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYFKTarg: ---------------------------EEINYETVTNAIRRSAHYLSATQSSDGFWPADASAPVFYLAPW1W6K: ---------------------------DLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLTarg: VIGLYVIGHLNTVFPAEHQKEILRYIYCHQNEDGGWGLHYEDGGTMFGTAFNYVCMRILGEGPGGGRDNA1W6K: LITCHVAR---IPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPD---DPDTarg: CERARKGILDHGGVTYIPSGGKTWLAMLGVFDWSGCNPMPPEFWMLPPFFPMHPAQMWCYCRIVYMPMSY1W6K: LVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSYTarg: LYGRRFVGPITPLVQQLREELHTQPFHEIEWSKARHLCAKEDLFHRRPWIQELFWDCLHTFAEPLLTRWP1W6K: CYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALLNLYEHHH-----Targ: LNNFIREKALKITMEHVHYDDKASHYINPGSVEKVICMVACWV-EDPSGEPFQRHLARISDYVWIAEDGM1W6K: -SAHLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDGMTarg: RITGI-GSQTWDAALSIQALIACN--LIEEMGPTLKKGYDFLKNSQAKDNPPGDFKRMYRHFGKGAWAFS1W6K: KMQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGGFSFSTarg: SQDYGVIALDCTAESLMCCLHFSMMPPEIVGEKLEPEKLYLAVDFILSLQSKNGGLTCWEPARGGKWLEV1W6K: TLDCGWIVSDCTAEALKAVLLLQEKCPH-VTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLLELTarg: LNPLEFFENIVVEHEYVEVTASAINALVMFKKRYPGYREKEIEHFISKAVHYLIQTQFPNGPWYGVWGIC1W6K: LNPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVCTarg: FMYGTYFALKGLAAAGNTYAN---CPAIPKAVDFLLKTQCQDGGWGESYLSGTTKVYTPLEGNRSNLVQT1W6K: FTYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYV--QSAQSQIHNTTarg: AWALMGLIHSGQAERDPTPLHRSAKLLINSQTSDGDFPQQDSTGLLKGSCAMHYAAYRNIFPLWALAAYR1W6K: CWAMMGLMAVRHP--DIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFSTarg: THVLGLTSKAHSSAVME1W6K: QLYPERALAGHP----- |
| 300591987 | Targ: ----------------------------------------------------------------------1W6K: ------TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYFKTarg: ---------------------------EEISYEMALDAMRRGAHFLAAIQASDGHWPSETSGPLFYVCPL1W6K: ---------------------------DLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLTarg: LICMYIMGFMDKVFSPEHKKEMMRYIYNHQNEDGGWGLHVGGHSNMFCTTFNYISLRLLGEEPDVEAVCK1W6K: LITCHVAR---IPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPDDPDLVRTarg: ARNWIHDHDGVTSILSWGKTWLSILNVFDWSASNPMPPEYWMLPTWVPIHPSNMMCYTRITYMPMSYLYG1W6K: ARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSYCYATarg: KRFQAPLTPLVLQLRDELHTQPYDQINWRKVRHMCATEDLYFPHPFVQDLLWDTLYLLSEPLMTRWPFNK1W6K: VRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALLNLYE------HHHSATarg: LIRQKALNETMRHIHYEDENSRYITIGCVEKPLCMLACW-VEDPNSEYVKKHLARIPDYLWMAEDGMKMQ1W6K: HLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDGMKMQTarg: SF-GSQSWDAALAMQALLSCNITR--EIGSVLNSGHDFIKNSQVRNNPPGDYKSMFRYMSKGSWTFSDCD1W6K: GTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGGFSFSTLDTarg: HGWQVSDCTAENLKCCLLLSLLPPDIVGEKMEPERFYDAVNVILNMQSKNGGLPAWEPASSYYWMEWLNP1W6K: CGWIVSDCTAEALKAVLLLQEKCPH-VTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLLELLNPTarg: VEFLEDLIIEHQHVECTSSALQAILLFRKQYPGHRRKEINNFINKAVQFLQDIQLPDGSWYGNWGICYTY1W6K: SEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVCFTYTarg: GTWFALKALSMAGKTYEN---CEAVRKGANFLRKIQNPEGGFGESYLSCPYKRYIPLDGKRSNLVQTAWG1W6K: GTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYV--QSAQSQIHNTCWATarg: MMGLICAGQADVDPTPIHRAAKLLINSQTEDGDFPQEEITGEFFKNCTLHFAAFREVFPVMALGEYCNKV1W6K: MMGLMAVRHPDIE--AQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFSQLYTarg: PLPSKKK--1W6K: PERALAGHP |
| 240256372 | Targ: ----------------------------------------------------------------------1W6K: ------TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYFKTarg: ----------------------------KKITFEDAKNTLRRGIHYMAALQSDDGHWPSENAGCIFFNAP1W6K: ----------------------------DLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGTarg: FVICLYITGHLDKVFSEEHRKEMLRYMYNHQNDDGGWGIDVESHSFMFCTVINYICLRIFGVDPDHDGES1W6K: LLITCHVARI---PLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPD---DPTarg: ACARARKWIIDHGGATYTPLFGKAWLSVLGVYEWSGCKPIPPEFWFFPSYFPINGGTLWIYLRDTFMAMS1W6K: DLVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSTarg: YLYGKKFVAKPTPLILQLREELYPQPYAEIVWSQARSRCAKEDLYYPQSLVQDLFWKLVHMFSENILNRW1W6K: YCYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALLNLYEHH-----Targ: PFNKLIREKAIRTAMELIHYHDEATRYITGGAVPKVFHMLACW-VEDPESDYFKKHLARVSHFIWIAEDG1W6K: -HSAHLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDGTarg: LKIQ-TFGSQIWDTAFVLQVMLAADVDD--EIRPTLIKGYSYLRKSQFTENPPGDYINMFRDISKGGWGY1W6K: MKMQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGGFSFTarg: SDKDQGWPVSDCISESLECCLIFESMSSEFIGEKMEVERLYDAVNMLLYMQSRNGGISIWEAASGKKWLE1W6K: STLDCGWIVSDCTAEALKAVLLLQEKCPH-VTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLLETarg: WLSPIEFIEDTILEHEYLECTGSAIVVLARFMKQFPGHRTEEVKKFITKGVKYIESLQIADGSWYGNWGI1W6K: LLNPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVTarg: CFIYGTFFAVRGLVAAGNTYDN---CEAIRRAVRFLLDIQNGEGGWGESFLSCPNKNYIPLEGNKTDVVN1W6K: CFTYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYV--QSAQSQIHNTarg: TGQALMVLIMGGQMDRDPLPVHRAAKVLINSQMDNGDFPQQEIRGVYKMNVMLNFPTFRNSFTLWALTHY1W6K: TCWAMMGLMAVRHP--DIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFTarg: TKAIRLLL-----1W6K: SQLYPERALAGHP |
| 270303608 | Targ: ----------------------------------------------------------------------1W6K: -----TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYFKDTarg: ------------------------------QVNYDAVTTAVKKALRLNRAIQAHDGHWPAENAGSLLYTP1W6K: ------------------------------LPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPTarg: PLIIALYISGTIDTILTKQHKKELIRFVYNHQNEDGGWGSYIEGHSTMIGSVLSYVMLRLLGEGLAESDD1W6K: GLLITCHVA---RIPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPDDPD-Targ: GNGAVERGRKWILDHGGAAGIPSWGKTYLAVLGVYEWEGCNPLPPEFWLFPSSFPFHPAKMWIYCRCTYM1W6K: ----LVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLTarg: PMSYLYGKRYHGPITDLVLSLRQEIYNIPYEQIKWNQQRHNCCKEDLYYPHTLVQDLVWDGLHYFSEPFL1W6K: PMSYCYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALLNLY-----Targ: KRWPFNKLRKRGLKRVVELMRYGATETRFITTGNGEKALQIMSWW-AEDPNGDEFKHHLARIPDFLWIAE1W6K: EHHHSAHLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLTarg: DGMTVQ-SFGSQLWDCILATQAIIATN--MVEEYGDSLKKAHFFIKESQIKENPRGDFLKMCRQFTKGAW1W6K: DGMKMQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGGFTarg: TFSDQDHGCVVSDCTAEALKCLLLLSQMPQDIVGEKPEVERLYEAVNVLLYLQSRVSGGFAVWEPPVPKP1W6K: SFSTLDCGWIVSDCTAEALKAVLLLQEKCPH-VTEHIPRERLCDAVAVLLNMRNP-DGGFATYETKRGGHTarg: YLEMLNPSEIFADIVVEREHIECTASVIKGLMAFKCLHPGHRQKEIEDSVAKAIRYLERNQMPDGSWYGF1W6K: LLELLNPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSTarg: WGICFLYGTFFTLSGFASAGRTYDN---SEAVRKGVKFFLSTQNEEGGWGESLESCPSEKFTPLKGNRTN1W6K: WGVCFTYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYV--QSAQSQTarg: LVQTSWAMLGLMFGGQAERDPTPLHRAAKLLINAQMDNGDFPQQEITGVYCKNSMLHYAEYRNIFPLWAL1W6K: IHNTCWAMMGLMAVRHP--DIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALTarg: GEYRKRVWLPKHQQLKI1W6K: GRFSQLYPERALAGHP- |
| 300807978 | Targ: ----------------------------------------------------------------------1W6K: ------TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYFKTarg: ---------------------------EEVSYEAATAALKRGVHFYSALQASDGHWPAENAGPMFFMSPL1W6K: ---------------------------DLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLTarg: VMCLYITGHLNTIFTEEHRRETLRYIYYHQNEDGGWGFHIEGQSTMFGTVLNYICMRLLGEGPEGGQDNA1W6K: LITCHVAR---IPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPD---DPDTarg: VSRGRKWILDHGGATAIPSWGKTWLSIMGLCDWSGCNPMPPEFWLLPSYLPMHPAKMWCYCRMVYMPMSY1W6K: LVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSYTarg: LYGKRFTTHITPLILQLREELHTQPYDQINWKKVRHVCCKEDTYYPHPILQDLIWDTLYLTTEPLLTRWP1W6K: CYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALLNLYEHHHSAH--Targ: LNKLIRERALKKTMKHIHYEDENSRYIVIGAVEKVLCMLACW-VEDPNGDYFKKHLARVPDYFWVAEDGM1W6K: ----LRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDGMTarg: KIQSF-GSQHWDTAFFVQALLASD--MTDEIRTTLAKAHDCIKKSQVKDNPSGDFRSMYRHISKGAWTFS1W6K: KMQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGGFSFSTarg: DQDHGWQLSDCTAEGLKCCLLFSLMQPEVVGEAMPPERLYDSVNVLLYLQSKNGGMPGWEPAGESEWLEL1W6K: TLDCGWIVSDCTAEALKAVLLLQEKCPH-VTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLLELTarg: LNPTEFFENIVIEHEYVECTSSAVQALVLFKKLYPLHRRKEVERFITNGAKYLEDIQMPDGSWYGNWGVC1W6K: LNPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVCTarg: FTYGAWFALEGLSAAGKTYNN---CAAVRKGVDFLLNIQLEDGGWGESYQSCPDKKYVPLEDNRSNLVQT1W6K: FTYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYV--QSAQSQIHNTTarg: SWALMGLIYAGQADRDPTPLHRAAKLLINSQLEDGDFPQQEIAGVFKMNCTLHFAAYRNIFPIWALAVYR1W6K: CWAMMGLMAVRHPDIE--AQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFSTarg: RFCNPNSEAISKPSK1W6K: QLY-PERALAGHP-- |
| 403377906 | Targ: ----------------------------------------------------------------------1W6K: ------TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYFKTarg: ---------------------------EEISYDKVTATLRRSVHLLAALQADDGHWPAENTGPMFFIQPL1W6K: ---------------------------DLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLTarg: VICLYITGHLDRVFPKEHKKEILRYLYTQQNEDGGWGLHIEGQSIMFGTIMSYVCMRLLGEGPDGGLNGA1W6K: LITCHVA---RIPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPD---DPDTarg: CTKARKWILDHGSVLASPSWGKIYLTILGVHEWEGCNPLPPEFWILPSIFPMHPAKMWCYCRLIYMPMSY1W6K: LVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSYTarg: LYGRRFVGPITPLVLQLREELYSQSYNDIKWKSTRHLVVKEDLHYPHPWLQDLMWDGLYIFTEPLLTRWP1W6K: CYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALLNLYEHHHSAH--Targ: FSKLREKALKTTINHIHYEDENSRYITIGAVEKSLCMLACW-DEDPDGVCFKKHLARIPDYIWVSEDGLK1W6K: ---LRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDGMKTarg: MQSF-GSQLWDASLAIQALLATDLNH--DIEPILRKGHDFIKASQVKDNPSGDFKSMYRHITKGSWTFSD1W6K: MQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGGFSFSTTarg: QDHGWQTSDCTTEGLKCCLLLSKMSAEIVGEKMQPEQFYDAVNLILSLQCKNGGEAGWEPAGESNWLEFL1W6K: LDCGWIVSDCTAEALKAVLLLQEKCPH-VTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLLELLTarg: NPSELFEDIVLEHDSVECTATGMQALVIFKKLYPKHRREEIEKFLKDACGYLEKVQMQDGSWYGEWGICF1W6K: NPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVCFTarg: TYGTCFALGGMEAIGKTYEN---CEAIRRAVNFLLTTQRNDGGWGESYRSSPKKKYVPLEGNRSNLVQTA1W6K: TYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYV--QSAQSQIHNTCTarg: CALMGLIRSKQEERDPTPLHRAAKLLINSQMENGDFPQEETGGVFKKNCLLHYPMYRNIYTLWALGEYRK1W6K: WAMMGLMAVRHP--DIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFSQTarg: KVLPQPTKV--1W6K: LYPERALAGHP |
| 350538549 | Targ: ----------------------------------------------------------------------1W6K: ------TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYFKTarg: ---------------------------EEISHEVATIALHRAVNFFSALQATDGHWPAENAGPLFFLPPL1W6K: ---------------------------DLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLTarg: VMCMYITGHL-NTVFPAEHRKEILRYIYCHQNEDGGWGLHIEGHSTMFCTALSYICMRILGEGPDGGVNN1W6K: L----ITCHVARIPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPD---DPTarg: ACARARKWILDHGSVTAIPSWGKTWLSILGVFEWIGTNPMPPEFWILPSFLPVHPAKMWCYCRMVYMPMS1W6K: DLVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSTarg: YLYGKRFVGPITPLILQLREELYDRPYDEINWKKVRHVCAKEDLYYPHPLVQDLMWDSLYICTEPLLTRW1W6K: YCYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALLN-----LYEHHTarg: PFNKLRNKALEVTMKHIHYEDENSRYITIGCVEKVLCMLACW-VEDPNGDYFKKHLARIPDYLWVAEDGM1W6K: HSAHLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDGMTarg: KMQSF-GSQEWDTGFAIQALLASE--MNDEIADTLRKGHDFIKQSQVTNNPSGDFKGMYRHISKGSWTFS1W6K: KMQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGGFSFSTarg: DQDHGWQVSDCTAEALKCCLLLSTMPRELVGQAMEPGRLYDSVNVVLSLQSKNGGLAAWEPAGASEYLEL1W6K: TLDCGWIVSDCTAEALKAVLLLQEKCP-HVTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLLELTarg: LNPTEFFADIVIEHEYVECTASSIQALVLFKKLYPGHRTKEINIFIDNAVKYLEDVQMPDGSWYGNWGVC1W6K: LNPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVCTarg: FTYGSWFALGGLVAAGKSYNN---SAAVRKGVEFLLRTQRSDGGWGESYRSCPDKVYRELETNDSNLVQT1W6K: FTYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYVQ--SAQSQIHNTTarg: AWALMGLIHSGQADRDPKPLHRAAKLLINSQMEDGDFPQQEITGVFMKNCMLHYAAYRNIYPLWGLAEYR1W6K: CWAMMGLMAVRHP--DIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFSTarg: KNVLLPLENN--1W6K: QLYPERALAGHP |
| 300591999 | Targ: ----------------------------------------------------------------------1W6K: ---------TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNTarg: ---------------------------------KTTTTLRRGTHHLATLQTSDGHWPAQIAGPLFFMPPL1W6K: ------------------------YFKDLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLTarg: VFCVYITGHLDSVFPPEHRKEILRYIYCHQNEDGGWGLHIEGHSTMFCTALNYICMRILGEGPDGGEDNA1W6K: LITCHVAR---IPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPD---DPDTarg: CVRARNWIRQHGGVTHIPSWGKTWLSILGVFDWLGSNPMPPEFWILPSFLPMHPAKMWCYCRLVYMPMSY1W6K: LVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSYTarg: LYGKRFVGPITPLILQLREELHTEPYEKINWTKTRHLCAKEDIYYPHPLIQDLIWDSLYIFTEPLLTRWP1W6K: CYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALLNLYEHHHSAH--Targ: FNKLVRKRALEVTMKHIHYEDENSRYLTIGCVEKVLCMLACW-VEDPNGDAFKKHIARVPDYLWISEDGM1W6K: ----LRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDGMTarg: TM-QSFGSQEWDAGFAVQALLATN--LIEEIKPALAKGHDFIKKSQVTENPSGDFKSMHRHISKGSWTFS1W6K: KMQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGGFSFSTarg: DQDHGWQVSDCTAEGLKCCLLLSLLPPEIVGEKMEPERLFDSVNLLLSLQSKKGGLAAWEPAGAQEWLEL1W6K: TLDCGWIVSDCTAEALKAVLLLQEKCPH-VTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLLELTarg: LNPTEFFADIVVEHEYVECTGSAIQALVLFKKLYPGHRKKEIENFIFNAVRFLEDTQTEDGSWYGNWGVC1W6K: LNPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVCTarg: FTYGSWFALGGLAAAGKTYTN---CAAIRKGVKFLLTTQREDGGWGESYLSSPKKIYVPLEGNRSNVVHT1W6K: FTYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYV--QSAQSQIHNTTarg: AWALMGLIHAGQSERDPTPLHRAAKLLINSQLEQGDWPQQEITGVFMKNCMLHYPMYRDIYPLWALAEYR1W6K: CWAMMGLMAVRHP--DIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFSTarg: RRVPLP------1W6K: QLYPERALAGHP |
| 300591997 | Targ: ----------------------------------------------------------------------1W6K: ------TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYFKTarg: ---------------------------EEISEENVAITLRRAVHHLSTLQSNDGHWPALNAGPLFYFPPL1W6K: ---------------------------DLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLTarg: VFCMYVTGHLDSIFPYEYRKEILRYIYCHQNEDGGWGLHVEGHSIMFCTVLNYICMRILGEGPNGGKEDA1W6K: LITCHVAR---IPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPD---DPDTarg: CARARKWIHDHGSVTHVSSWGKIWLSVLGIFDWCASNPMPPEFWMLPSFLLKHPAKMLCYCRLVYMPMSY1W6K: LVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSYTarg: LYGKRFVGPITPLILMLREELLTQPYEKVNWKKTRHLCAKEDLYYPHPLIQDLIWDSLYIFVEPLLTHWP1W6K: CYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALLNLYEHHHSAH--Targ: FNKLLREKALQTVMKHIHYEDENSRYITIGCVEKVLCILACW-VEDPNGDAFKKHLARLPDYLWVSEDGM1W6K: ----LRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDGMTarg: TLHSF-GSQTWDASLIIQALLATNL--IEDVGPILTKAHEFIKKSQVRDNPSGDFKSMYRHISKGSWTFS1W6K: KMQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGGFSFSTarg: DKDHGWQVSDCTAESLKCCLLLSMLPPEIVGEKMEPEMLYDSVNILLSLQGKKGGLPAWEPSEAVEWLEL1W6K: TLDCGWIVSDCTAEALKAVLLLQEKCPH-VTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLLELTarg: FNPIEFLEEIVVEREYVECTSSAIQALVLFKKLYPEHRKKEVENFIANAVRFLEYKQTSDGSWYGNWGIC1W6K: LNPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVCTarg: FTYGSWFALNGLVAAGKTYDN---CAAIRKGVEFLLTTQREDGGWGESHLSSSKKIYVPLERSQSNIVQT1W6K: FTYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYV--QSAQSQIHNTTarg: SWAIMGLIHAGQMERDPTPLHRAVKLIINFQQEEGDWPQQELTGVFMKNCMLQYAMYRDIFPTWALAEYR1W6K: CWAMMGLMAV--RHPDIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFSTarg: RRILLASPAVAI--1W6K: QLYPERA--LAGHP |
| 257623103 | Targ: ----------------------------------------------------------------------1W6K: ------TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYFKTarg: ----------------------------ENITVEALVTTITRAISFYSSIQAHDGHWPAESAGPLFFLQP1W6K: ----------------------------DLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGTarg: LVMALYITGSL-DDVLGPEHKKEIVRYLYNHQNEDGGWGFHIEGHSTMFGSALSYVALRILGEGPQDKAM1W6K: LL----ITCHVARIPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPDDPDLTarg: AKGRKWILDHGGLVAIPSWGKFWVTVLGAYEWSGCNPLPPELWLLPKFAPFHPGKMLCYCRLVYMPMSYL1W6K: VRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSYCTarg: YGKKFVGPITALIRSLREELYNEPYNQINWNTARNTVAKEDLYYPHPLIQDMLWGFLYHVGERFLNCWPF1W6K: YAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALL-----NLYEHHHSTarg: SMLRRKALEIAINHVHYEDENSRYLCIGSVEKVLCLIARW-VEDPNSEAYKLHLARIPDYFWLAEDGLKI1W6K: AHLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDGMKMTarg: Q-SFGCQMWDAAFAIQAILACN--VSEEYGPTLRKAHHFVKASQVRENPSGDFNAMYRHISKGAWTFSMH1W6K: QGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGGFSFSTLTarg: DHGWQVSDCTAEGLKAALLLSEMPSELVGGKMETERFYDAVNVILSLQSSNGGFPAWEPQKAYRWLEKFN1W6K: DCGWIVSDCTAEALKAVLLLQEKCPH-VTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLLELLNTarg: PTEFFEDTMIEREYVECTGSAMQGLALFRKQFPQHRSKEIDRCIAKAIRYIENMQNPDGSWYGCWGICYT1W6K: PSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVCFTTarg: YGTWFAVEGLTACGKNCHN---SLSLRKACQFLLSKQLPNAGWGESYLSSQNKVYTNLEGNRANLVQSSW1W6K: YGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYV--QSAQSQIHNTCWTarg: ALLSLTHAGQAEIDPTPIHRGMKLLINSQMEDGDFPQQEITGVFMRNCTLNYSSYRNIFPIWAMGEYRRQ1W6K: AMMGLMAVRHPDI--EAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFSQLTarg: VLCAHSY---1W6K: YPERALAGHP |
| 300591979 | Targ: ----------------------------------------------------------------------1W6K: --------TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYTarg: --------------------------------VITTLRRSLSFYSSIQAHDGHWPGESAGPLFFLQPFVM1W6K: -----------------------FKDLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLLITarg: ALYITGDLNTIFSPAHQKEIIRYLYNHQNEDGGWGFHIEGHSTMFGSALSYIALRILGEGLEDGEDGAMA1W6K: TCHVA---RIPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPDDPD---LVTarg: KSRKWILDHGGLVAIPSWGKFWVTVLGLYEWSGCNPLPPEFWFLPDIFPIHPGKMLCYCRLVYMPMSYLY1W6K: RARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSYCYTarg: GKRFVGPITGLIQSLRQELYNEPYHQINWNKARSTVAKEDLYYPHPLIQDLLWGFLHHVAEPVLTRWPFS1W6K: AVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALLN-----LYEHHHSATarg: MLREKALKAAIGHVHYEDENSKYLCIGSVEKVLCLIACW-AEDPNGEAYKLHLGRIPDNYWVAEDGLKIQ1W6K: HLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDGMKMQTarg: -SFGCQMWDAGFAIQAILSCNLN--EEYWPTLRKAHEFVKASQVPENPSGDFKAMYRHINKGAWTFSMQD1W6K: GTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGGFSFSTLDTarg: HGWQVSDCTAEGLKVAILFSQMPPDLVGEKIEKERLYDAVNVILSLQSSNGGFPAWEPQRAYGWLEKFNP1W6K: CGWIVSDCTAEALKAVLLLQEKCPH-VTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLLELLNPTarg: TEFFEDTLIEREYVECTSPAVHGLALFRKFYPRHRGTEIDSSIYRGIQYIEDVQEPDGSWYGHWGICYTY1W6K: SEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVCFTYTarg: GTWFAVGALAACGRNYKN---CPALRKSCEFLLSKQLPNGGWGESYLSSQNKVWTNIEGNRANLVQTAWA1W6K: GTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYV--QSAQSQIHNTCWATarg: LLSLIDARQAEIDPTPIHRGVRVLINSQMEDGDFPQQEITGVFMRNCTLNYSSYRNIFPIWALGEYRRRV1W6K: MMGLMAVRHPDI--EAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFSQLYTarg: LFA------1W6K: PERALAGHP |
| 30699380 | Targ: ----------------------------------------------------------------------1W6K: -------TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYFTarg: ---------------------------------ETTTNALRRGVRYFTALQASDGHWPGEITGPLFFLPP1W6K: ---------------------------KDLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGTarg: LIFCLYITGHL-EEVFDAEHRKEMLRHIYCHQNEDGGWGLHIESKSVMFCTVLNYICLRMLGENPEQDAC1W6K: LL----ITCHVARIPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPDDPDLTarg: KRARQWILDRGGVIFIPSWGKFWLSILGVYDWSGTNPTPPELLMLPSFLPIHPGKILCYSRMVSIPMSYL1W6K: VRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSYCTarg: YGKRFVGPITPLILLLREELYLEPYEEINWKKSRRLYAKEDMYYAHPLVQDLLSDTLQNFVEPLLTRWPL1W6K: YAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALLNLYEHHH------Targ: NKLVREKALQLTMKHIHYEDENSHYITIGCVEKVLCMLACW-VENPNGDYFKKHLARIPDYMWVAEDGMK1W6K: SAHLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDGMKTarg: MQ-SFGCQLWDTGFAIQALLASN--LPDETDDALKRGHNYIKASQVRENPSGDFRSMYRHISKGAWTFSD1W6K: MQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGGFSFSTTarg: RDHGWQVSDCTAEALKCCLLLSMMSADIVGQKIDDEQLYDSVNLLLSLQSGNGGVNAWEPSRAYKWLELL1W6K: LDCGWIVSDCTAEALKAVLLLQEKCPH-VTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLLELLTarg: NPTEFMANTMVEREFVECTSSVIQALDLFRKLYPDHRKKEINRSIEKAVQFIQDNQTPDGSWYGNWGVCF1W6K: NPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVCFTarg: IYATWFALGGLAAAGETYND---CLAMRNGVHFLLTTQRDDGGWGESYLSCSEQRYIPSEGERSNLVQTS1W6K: TYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYV--QSAQSQIHNTCTarg: WAMMALIHTGQAERDLIPLHRAAKLIINSQLENGDFPQQEIVGAFMNTCMLHYATYRNTFPLWALAEYRK1W6K: WAMMGLMAVRHPDIE--AQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFSQTarg: VVFIVN-----1W6K: LYPERALAGHP |
| 353558864 | Targ: ----------------------------------------------------------------------1W6K: ------TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYFKTarg: ---------------------------EEITREKATTALRRAVQFFSALQASDGHWPAENAGPLFFLPPL1W6K: ---------------------------DLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLTarg: VMCMCITGHLDT-VFPAEHRKEILRYIYYHQNEDGGWGLHIEGHSTMFCTALNYICMRILGEGPNGGQDD1W6K: L----ITCHVARIPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPD---DPTarg: ACTRARKWIHDHGSVTNIPSWGKTWLSILGVYDWSGCNPMPPEFWMLPSFLPMHPAKMWCYCRMVYMPMS1W6K: DLVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSTarg: YLYGKRFVGLITPLIQQLREELFTQPYDQINWKKNCHQCAPEDLYYPHPFIQDLIWDCLYISMEPLLTRW1W6K: YCYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALLNLYE------HTarg: PLNMIIRKKALELTMKHIHYEDGSSRYITIGCVEKVLCMLACWV-EDPNGDYFKKHLARIPDYIWVAEDG1W6K: HHSAHLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDGTarg: MKMQSF-GSQQWDTGFAIQALLATN--LTDEIGGVLRRGHDFIKKSQVQDNPSGDFKSMYRHISKGSWTF1W6K: MKMQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGGFSFTarg: SDQDHGWQVSDCTAEGLKCCLLFSMMPPEIVGEHMEPERLYDSVNVLLSLQSKNGGLSAWEPAGAQDWLE1W6K: STLDCGWIVSDCTAEALKAVLLLQEKCPH-VTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLLETarg: LLNPTEFFADIVIEHEYVERTSSAIHALVLFKKLYPGHRKKEIEDFIAKSVRFLESIQTSDGTWYGNWGV1W6K: LLNPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVTarg: CFTYGTWFALGGLAAAGKTYNS---CLAMRKAVDFLLRIQKDDGGWGESYLSCPEKKYVPLEANHSNLVH1W6K: CFTYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYV--QSAQSQIHNTarg: TAWAMMALVHAGQMDRDPTPLHRAAKLMINSQLEDGDFPQQEITGVFNRNCMLHYAAYRNIYPLWALAEY1W6K: TCWAMMGLMAVRHPDIE--AQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFTarg: CRRVPLPS-----1W6K: SQLYPERALAGHP |
| 300807974 | Targ: ----------------------------------------------------------------------1W6K: ----------TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKTarg: ----------------------------------EEITYETATTALKRAVHFYSALQASDGHWPAENSGP1W6K: ------------------------------NYFKDLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPTarg: LFFLPPLVMCLYITGHLNTVFPAEHQREILRYIYYHQNEDGGWGLHIEGHSTMFCTALSYICMRILGEGP1W6K: LFLLPGLLIT---CHVARIPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPTarg: DGGLDNAVARGRKWILDHGTVTAMPSWGKTWLSIMGLFDWSGSNPMPPEFWLLPSFLPMYPAKMWCYCRM1W6K: D---DPDLVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQTarg: VYMPMSYLYGKRFVGPITPLILQLREELYDQPYEQVNWKQVRHECAKEDIYYPHPKIQDLLWDTLYIAIE1W6K: VYLPMSYCYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALLN----Targ: PLLTRWPFNKLVRERALQRTMKHIHYEDENSRYITIGCVEKVLCMLACW-VEDPNGDYFKKHLARVPDYI1W6K: --LYEHHHSAHLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLTarg: WVAEDGMKMQ-SFGSQQWDTGFAIQALLASN--MSDEIGETLAKGHDFVKKSQVKDNPSGDFKSMHRHIS1W6K: WMGLDGMKMQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRTarg: KGSWTFSDQDHGWQVSDCTAEGLKCCLLFSLMPPELVGEKMEPERLYDSVNILLSLQSKNGGLAAWEPAG1W6K: KGGFSFSTLDCGWIVSDCTAEALKAVLLLQEKCPH-VTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRTarg: APEWLELLNPTEFFADIVIEHEYVECTASAIQALVLFKKLYPGHRKKDIETFIKGAAQYIEDRQMPDGSW1W6K: GGHLLELLNPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWTarg: YGSWGVCFTYGTWFALGGLAAAGKNYDN---CAAIRKGTEFLLNTQCENGGWGESYRSCPEKRYVPLEEN1W6K: EGSWGVCFTYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYV--QSATarg: KSNLVHTAWALMGLIHSRQAERDITPLHRAAKLLINSQLENGDFPQQEITGVFMKNCMQHYAAYRNIYPL1W6K: QSQIHNTCWAMMGLMAV--RHPDIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPITarg: WGIAEYRKQIPLPLR----1W6K: WALGRFSQLYPERALAGHP |
| 300807976 | Targ: ----------------------------------------------------------------------1W6K: -------TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYFTarg: --------------------------GEEVSYEAVTAALRRGVHLYSALQASDGHWPAENAGPMFFMPPM1W6K: --------------------------KDLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLTarg: VMCLYITGHLNAIFTEEHRSETLRYIYYHQNEDGGWGFHIEGHSTMFGTVLNYICMRLLGEGPEGGQDNA1W6K: LITCHVAR---IPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPD---DPDTarg: VSRGRKWILDHGGATSIPSWGKTWLSIMGLCDWSGCNPMPPEFWLLPSYLPMHPGKMWCYCRMVYMPMSY1W6K: LVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMSYTarg: LYGKRFTARITPLILQLREEIHIQPYDQIDWKKVRHVCCKEDMYYPHPLLQDLLWDTLYLTTEPLLTRWP1W6K: CYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALLN------LYEHHTarg: LNKLIRQRALQKTMKHIHYEDENSRYITIGTVEKVLCMLACW-VEDPNGDYFKKHLARVPDYFWVAEDGM1W6K: HSAHLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDGMTarg: KIQSF-GSQHWDTVFSAQALLASD--MADEIGTTLAKAHYCIKESQVKDNPSGDFRSMYRHISKGSWTFS1W6K: KMQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGGFSFSTarg: DQDHGWQLSDCTAEGLKCCLLFSLMQPEVVGEAMPPERLFDSVNILLYLQSKNGGMPGWEPAGASEWLEL1W6K: TLDCGWIVSDCTAEALKAVLLLQEKCPH-VTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLLELTarg: LNPTEFFENIVIEHEYVECTSSAVQALVLFKKLHPGHRRKEVERFITNGAKYIEDIQMPDGAWYGNWGVC1W6K: LNPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVCTarg: FTYGAWFALGGLAAAGKTYNN---CAAVRKGVDFLLRIQLEDGGWGESYQSCPDKKYVPLEDNRSNLVHT1W6K: FTYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYV--QSAQSQIHNTTarg: SWALMGLLCSGQADRDPNPLHRAAKLLINSQLEDGDFPQQEITGVFKMNCMLHFAAYRSIFPVWALAEYK1W6K: CWAMMGLMAVRHP--DIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFSTarg: RFCNLSSEAISKPSK1W6K: QLYPERALAGH-P-- |
| 15233798 | Targ: ----------------------------------------------------------------------1W6K: ----------TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKTarg: ---------------------------AEKITYEDAKTALRRGLLYFTALQADDGHWPAENAGSIFFNAP1W6K: ------------------------NYFKDLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGTarg: FVICLYITGHLEKIFTHEHRVELLRYMYNHQNEDGGWGLHVESPSNMFCSVINYICLRILGVEAGHDDKG1W6K: LLITCHVA---RIPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPD----DTarg: SACARARKWILDHGGATYSPLIGKAWLSVLGVYDWSGCKPIPPEFWFLPSFFPVNGGTLWIYLRDIFMGL1W6K: PDLVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPMTarg: SYLYGKNFVATSTPLILQLREEIYPEPYTNISWRQARNRCAKEDLYYPQSFLQDLFWKGVHVFSENILNR1W6K: SYCYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALLNLYEHH----Targ: WPFNNLIRQRALRTTMELVHYHDEATRYITGGSVPKVIAVFHMLACWVEDPESDYFKKHLARVPDFIWIG1W6K: --HSAHLRQRAVQKLYEHIVADDRFTKSISIGPISKTINML--VRWYVDGPASTAFQEHVSRIPDYLWMGTarg: EDGLKIQSF-GSQVWDTALSLHVFIDGFDDDVDEEIRSTLLKGYDYLEKSQVTENPPGDYMKMFRHMAKG1W6K: LDGMKMQGTNGSQIWDTAFAIQALLEAGGHHR-PEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGTarg: GWTFSDQDQGWPVSDCTAESLECCLFFESMSSEFIGKKMDVEKLYDAVDFLLYLQSDNGGITAWQPADG-1W6K: GFSFSTLDCGWIVSDCTAEALKAVLLLQEKCPH-VTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGTarg: ------KLVEFIEDAVVEHEYVECTGSAIVALAQFNKQFPGYKKEEVERFITKGVKYIEDLQMVDGSWYG1W6K: HLLELLNPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGTarg: NWGVCFIYGTFFAVRGLVAAGKCYNN---CEAIRRAVRFILDTQNTEGGWGESYLSCPRKKYIPLIGNKT1W6K: SWGVCFTYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYVQ--SAQSTarg: NVVNTGQALMVLIMGNQMKRDPLPVHRAAKVLINSQMDNGDFPQQEIMGVFKMNVMLHFPTYRNMFTLWA1W6K: QIHNTCWAMMGLMAVRHP--DIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWATarg: LTHYTKALRGL------1W6K: LGRFSQLYPERALAGHP |
| 15218390 | Targ: ----------------------------------------------------------------------1W6K: ------TEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYFKTarg: ----------------------------ENITYKDAKTALRRGILYFKALQAEDGHWPAENSGCLFFEAP1W6K: ----------------------------DLPKAHTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGTarg: FVICLYITGHLEKILTLEHRKELLRYMYNHQNEDGGWGIHVEGQSAMFCTVINYICLRILGVEADLDDIK1W6K: LLITCHVA---RIPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKSTVFGTALNYVSLRILGVGPDDPD--Targ: GSGCARARKWILDHGGATYTPLIGKAWLSILGVYDWSGCKPIPPEVWMLPTFSPFNGGTLWIYFRDIFMG1W6K: ---LVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDWAPAHPSTLWCHCRQVYLPTarg: VSYLYGKKFVATPTPLILQLREELYPQPYDKILWSQARNQCAKEDLYYPQSFLQEMFWKCVHILSENILN1W6K: MSYCYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALLNLYEHHH--Targ: RWPCNKLIRQKALRTTMELLHYQDEASRYFTGGCVPKPFHMLACW-VEDPDGDYFKKHLARVPDYIWIGE1W6K: ----SAHLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLTarg: DGLKIQ-SFGSQLWDTAFSLQVMLAYQDVDDDDDEIRSTLIKGYSFLNKSQLTQNPPGDHRKMLKDIAKG1W6K: DGMKMQGTNGSQIWDTAFAIQALLEAGG--HHRPEFSSCLQKAHEFLRLSQVPDNPP-DYQKYYRQMRKGTarg: GWTFSDQDQGWPVSDCTAESLECCLVFGSMPSELIGEKMDVERLYDAVNLLLYFQSKNGGITVWEAARGR1W6K: GFSFSTLDCGWIVSDCTAEALKAVLLLQEKCPH-VTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGTarg: TWLEWLSPVEFMEDTIVEHEYVECTGSAIVALARFLKEFPEHRREEVEKFIKNAVKYIESFQMPDGSWYG1W6K: HLLELLNPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGTarg: NWGVCFMYGTFFAVRGLVAAGKTYQN---CEPIRKAVQFILETQNVEGGWGESYLSCPNKKYTLLEGNRT1W6K: SWGVCFTYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYV--QSAQSTarg: NVVNTGQALMVLIMGGQMERDPLPVHRAAKVLINSQLDNGDFPQEEIMGVFKMNVMVHYATYRNIFTLWA1W6K: QIHNTCWAMMGLMAV--RHPDIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWATarg: LTYYTKALRVPLC----1W6K: LGRFSQLYPERALAGHP |