

>gi|996174|pdb|1ASH|

-----  
-----  
-----ANKTRELCMKS  
Lehakvd--tsnearQDGIDLYKHMFFENYp-----pLRKYFksreeyta-  
edvqndpfFAKQGQKILLACHVLCAAt  
yddret--fnaytrELDRHARdhvh-----mppeVWTDFFWKLFEYYLgkktt-----  
ldeptKQA  
WHEIGREFAKEInkhgr-----  
-----

>gi|576142|pdb|1HDA|A

-----  
-----  
-----vISAADKGNVCAA  
Wgkvg-----ghaaEYGAEALERMFLSFp-----tTKTYFphfdls-----  
hgsaqVKGHGAKVAAALTKAVEh  
lddl-----pgalsELSDLHAHklrv-----dpvNFKLLSHSLVTLashlps-----dftpavHAS  
LDKFLANVSTVLTskyr-----  
-----

>gi|422406|pir||S33783

-----  
-----  
-----afvgISDSEEKLVDA  
Wapih-----gdlqGTANTVFYNYLKKYp-----sNQDKFetlkghpl-  
devkdtanFKLIAGRIFTIFDNCVKn  
vgndkg--fqkviaDMSGPHVArpit-----hgsYNDLRGVIYDSMHlds-----thGAA  
WNKMDNFFYVFeoldgrecsqfs-----  
-----

>gi|632127|pir||A53868

-----  
-----  
-----giSADQAKALKDD  
Iavva-----qnpnGCGKALFIKMFEMNp-----gWVEKFpawkgksl-  
deikasdkITNHGGKVINELANWINn  
insa-----sgilkSQGT AHKGrsi-----gieYFENVLPVIDATFaqqmgs-----aytaamKDA  
LKAAWTGVIVPGmkagy-----  
-----

>gi|1730834|sp|P53857|YNX4\_YEAST

-----mtgekilhsqlltnsdm  
ssgnvhhtkpmmyntlpsynsssigpvdnlkinerpgshdhsrsemssknsdgmppqsirsegsvyqvkidrgdsp  
ntegfdkvnardlllrmswdillreyltpkelkvfqallysnkhitsterpylntapdgmisktidpTARPRKTKQRD

Ndnkv-----dtaLFCSQFYDNLIAMDp-----ILEEYFp-----  
sLKHQAVSFCCKVLDSAIDn  
lenvhv--lddyivKLGKRHSRilgi-----ktvGFEVMGKAFMTTLqdrfgs-----fltleKNL  
WGQLYSYLANCMitagkdpmekiqpdfsyngdsvvlnfsipklamhdistvnklqmvtknatiphnitqvptnkipt  
ei  
lldnsstpiksdrestppispkgsstkpsigsstvvesntkknnydekihllqktaqqkncsim

>gi|2105139|gb|AAC47544.1|  
-----masfkialllgviafvnacsqapgtttttvtvtvsaddgseagllsahersli  
rktwdqakkdgdvapqvlfrfvkahpeyqkmfskfanvpqsellsngnflaqaytilaglnvviqslfsqelmanqlnal  
ggahqprgatpvmfeqfggileevlaeelsgftaeaqawknlaalvagiaknlkkaedladpqtktlTPHQIRDVQRS  
Wenir-----ndrnALVSSIFVKLFKETp-----rIQKFFakfanvav-  
dslagxaeYEKQIALVADRLDTMISa  
mddklq--llgninYMRYTHTErgi-----praPWEDFSRLLLDVLgskgvst-----  
ddldswKGV  
LAVFVNGVSPiKk-----  
-----

>gi|3253145|gb|AAC24318.1|  
-----  
-----  
-----mslSDADKKALDAS  
Wkkltag---adgkkNAGINLVLWMFANVp-----  
nMRAQFskfnanqsddalkgdaeFIKQVNVIVAALDGLLQs  
vnnpgq--lqanldKLAKSHVNiki-----gleFFGPLQQNIHSFIesalgv-----gagsdePKA  
WGNLIAAFNETLkka-----  
-----

>gi|3874505|emb|CAA96599.1|  
mveffgmsnsvwtlfsqkttwqsvqmlnsyrngkrksysagsitssnstkknpdfenffeepqikvmlardresflrh  
stsaevfpvappdlevvlersttllksllfskttpnptprtvrkqlrfdipevhisfetneprkvtfeggstsnsivpppi  
idwdstpkmnsvpeiepicfddevsvttrlsanekarqnviaqrrqsnvqlvqsmgrttttlipITCAQIHLVRL  
Wrqvyt---tkgptVIGASIYHRLCFKNvmvkeqmkqveLPPKFqnr-----  
dnfIKAHCKAVAELIDQVVEN  
ldhldn--vtgelmRIGRVHAKvlr-----geITGKLWNTVAETIIDctlewgd-----rrcrsetvRKA  
WALIVAFVIEKIkaghheqrklmlgrqslpsirtpsmerf-----  
-----

>gi|7496360|pir||T33129  
-----  
-----  
-----mealnrfSQEEKDILRRS  
Wkvld-----knlnHTAYNIFEMIFNQSp-----dTRQLFpfmkfmt---  
ggrskeIEFHALRFMQVLESVVKt  
ldnpet--lnplcdNLGRVHGRlsesr---gfrthHWGVFIECTLFHFrvlgq-----dtyfhrMDA  
LDKVIINWRIIIrllikqmkrgfntdiknrqasrelesnkastsspsiqescslgtglrknrsqrlmflavpgaaaatm

sqsltlpainnnnyrkgsdsrilstvsalsatsvspaierapstgllrpkefarrfinhf----

>gi|17509143|ref|NP\_492188.1|

-----  
-----  
-----mgsststpappkknKPEGRKADNQI  
Lnsy-----qkSIVRNAWRHMSQKGpsnc---gstiTRRMMarkstig---  
dildrstLDYHNLQIVEFLQKVMQs  
ldepdk--isklcqEIGQKHAKyrsk---gmkidYWDKLGEAITETIreyqgw-----  
kihresLRA  
ATVLSYVVDQLrfgysrglhvqgsretkeddee-----  
-----

>gi|17532151|ref|NP\_495268.1|

-----  
-----  
-----mmgllstirgkkepvgngigsaqvgpINAKTKKLVIE  
Wprvl-----aqcpELFTEIWHKSATRSt-----sIKLAFgiaenes----  
pmqnaaFLGLSSTIQAFFYKLIIt  
yelndd-qvreaceQLGARHVDfisrg---fnshFWDIFLVCMAEKIdetlsayip-----  
dedkrnemILA  
WQRVINSIVHQMrngysdrkqqlggtkgsnngf-----  
-----

>gi|17541936|ref|NP\_501142.1|

-----  
-----mgnshpgvtsts  
skstkgklgrqrrlsdpsqnqnvknchmptgssnntsttpptiqingkesfdefhgqlraksastdfsslrstssts  
syqkpqknsaserrkiflssstnqdfmarslddsmtakmscmirtkshsplkqmrtysfrsipseenliDKESCEVVADS  
WrlvesrssaaetsaCFGFLVFQRFVFSKIp-----mLRPLFglsesddv-  
fdlpdnhpVRRHARLFTSILHISVKn  
vdelea-qvaptvfKYGERHYRpditp---hmteeNVRVFCAQIVCTVfdflrdt-----  
eatpkcAES  
WIELMRYLGQKLldgfdakltaerkisinrndhhlflml-----  
-----

>gi|17557720|ref|NP\_505832.1|

-----  
-----  
-----mgnnvpsrrmsratvhlensngadnmsfvdaihlSPHQVQLLTST  
Wprik-----tqsSLFTQVFKVLMQRSp-----vCREMFqkmsivgg-  
fssnsvedLNSHTKLLCELLDSLMTd  
lhqpak-ivlakcqDVGAAHVNmnek----ccgvVFDQLGEAFTELItkvecv-----  
rskreaVKS  
WMCVISYMADSIksgymeewakrrsnhhqpqqyqaaggsckl-----  
-----

>gi|17558104|ref|NP\_504469.1|

-----mgnqstksthgtrvshksahhnsrvtsdviprsasaissheffs  
dsqssppavcpvsapgkyrnfpdkdvppicltdeynnsddevfcstrtskqsplatgcprqnlgsngnrrsvdstnsdl  
leavtprshisvkrvtvssgethadhanmqkssslkfrpgvrsetkettpstssnptmfpcihqflhITQPQILFVRKT  
Wnharn----qgalEPAISIFRNSFFKNpe-----irQMIMFgtkne-----  
gherLKKHAQLFTVLMDDLIA  
ldspa--tvaglrEAGEKHVWptrnqygcphahLLDQFATAMIERTlewgekk-----  
drteetQRG  
WTKIVLFVTEQLkegfqdeqkrarrikaqiktsagsssfestkktksdmkrfhtldnm-----  
-----

>gi|17570331|ref|NP\_510537.1|

-----  
-----  
-----mfrheiqppefsfispisldedqremslsrlnhlgapklrrcrsaspatcrldtiSPEHQKLIKRS  
Wnri-----pkaQFGRASLEAFITAAq-----vTHAIFvdk-----  
etENRHVKYFVDLVQSCVDn  
lenlet-gvkwpldLIGRGHANfki-----tgkHWEKFGESLLTAtewngpg-----  
rrhketVKA  
WMVMSSFLADRLahasrlahspmltprvqlltgrsafenn-----  
-----

>gi|25155167|ref|NP\_741635.1|

-----  
-----  
-----merplalpydvtplyhplaklnmdhtmmpvisitrtrresvssplrftrtsedsldslekngrkelrrqime  
nggsvekeknslnplahttcphlgqmgrsrtecepaeslrpltskrsagdscppsptrrnlneviglSPYQQKLLVQC  
Wpniyt---tgasgPFANSLYSTLSSRNA-----kAKELLakadgvav-  
fsksdfdcSVMHCRVTVEILDVVIK  
ldndha-ritqyltEIGKQHRHlkaeg---lssaVWDDLGDITMDCArrrceav-----rkhkelRRA  
WLAIAYIMDNLkqgqsmtrssstyldsydsskvpctkknssn-----  
-----

>gi|27379994|ref|NP\_771523.1|

-----  
-----  
-----maptlMTISPNIPIEQS  
Feraa-----srcaDLTPLVYRRLFDEHp-----eTRAMFrsq-----  
gsELVKGSMLALTIEAILDf  
agtrsg--hfrliaCEVVSHDAygt-----preLFIAFFAVIRDTLrdllgd-----awsaeiAQA  
WDTLLTDIEAYVtpa-----  
-----

>gi|15599162|ref|NP\_252656.1|

-----  
-----  
-----mNAADRVMQSYG

Rcca-----stGFFDDFYRHFLASSp-----qIRAKFat-----  
tdMTAQKHLRAGIMNLVMY  
argms----dsklrALGASHSRaal-----irpeLYDLWLDALLMAVaehdr-----  
cdaetRDA  
WRDVMGRGIAVksyy-----  
-----

>gi|28571530|ref|NP\_649597.2|  
-----  
-----

-----mseeviaknislssltypkripkikfgpikdemgFTLSERLALRQA  
Wnlvr-----pferRYGQDVFYSFLNDYy-----wGIKKFrngae-----  
InvkaLHSHALRFINFFGLLIEe  
kdpvv---fqlminDNNHHTHNRchv-----gsvNIGHLAQALVDYVlkvfhk-----  
vsspsLEQG  
LSKLVEKFQNYQdqqsntsgynrskvnfdsrpprgnp-----  
-----

>gi|33300310|emb|CAE17922.1|  
-----  
-----

-----mklnfgrnsersmyelTTDEMQAVRDA  
Wkra-----kerEIGKHILRALIERKp-----qFKDYFgihvdekn-  
hdvyscreFQLQAHRIQNFLDTAVSs  
lgfcpignihqmayRIGQIHFYrgvn-----  
fgadNWLTFKKVTVEIVtkdcgnsessmdlksvpslfpssstviIG  
WEKFMSSVIREMkkgldearnchdeetkf-----  
-----