

10 20 30 40 50 60 70 80 90
AtDFA-----MRTLWNHFSTNSYIKISPRMRRISAANLISNRNLSTISSSTEDPELRDFVGF
AtDFB-----MFAVSIVPRTTSCRLSSAFLCQLSIPPLTLRLHHHYQHHQPHLPSPLSFQIHSLRKQIDMAAQQGDSYEEALAAL
AtDFC MLVCGKGFLLKCRAPGVPPFFCDKRKSFFTKTKRGFHSLLPLGTGVRVYFNNNLRYSSNSIEVVEKAAINMGSKEDKADNPALSSYDDAMEAL
AtDFD-----MATEDDGELSARYQNTLDAL

ESLKNYEKSGVPGAGTSDSDGFDLGRMKRLMLRLRNPHYKYKVVHVAGTKGKGSTSAFLSNILRAGGYSVGCYSSPHILSIKERISCNPEPVSASTLND
SSLITKRSRAD----KSNKGDREFELVFDYLKLLDLEEDILKMNVIHVAGTKGKGSTCTFTESIIRNYGFRTGLFTSPHLIDVRERFRLDGVDISEEKFLG
STLISRNRNGDRTPTKGNR-DKLEQVVTYLKILDLEDKIKELKVIHVAGTKGKGSTCVFSEAILRNCGFRTGMFTSPHLIDVRERFRIDGLDISEEKFLQ
SSLITKRGRLASN---NQSHRFRLLFHYLKVLELEDAVSQMKIIHVAGTKGKGSTCTFAESILRCYGLRTGLFTSPHLIDVRERFRNLNGIEISQEKFVN

LFYSVKPILEQSIQEENGSLSHFEILTGIASFSEKENVDIIVIEAGLGGARDATNVISSNLAASVITTIIEEHMAALGGSLESTAEAKSGIIKHGRPV
YFWWCYNRLKERTNEEIPMPYFRFLALLAFKIFAAEEVDAAILEVGLGGKFDATNAVH--KPVVCGISSLGYDHMEILGDTLTKIAGEKAGIFKLGVPA
YFWECKWLLKEKAVDGLTMPPLFQFLTIVLAFKIFVCEKVDVAVIEVGLGGKLDSTNVIQ--KPVVCGIASLGMMDHMDILGNTLADIAFHKAGIFKQIPA
YFWCCFHKLKEKTSNEVPMPYFCFLALLAFKIFTTEQVDVIVILEVGLGGRFDATNVIQ--KPVVCGISSLGYDHMEILGYTLAEIAAEKAGIFKSGVPA

VLGGPFLPHIEGILRSKAASVSSSVILASNIGSSSSIKGIINKNGIGLCQSCDIVIQNEKDDQPIVELSDVNLRLMLGHHLQONAVTATCVSLC---LRDQ
FT-VPQPDEAMRVLEEKAS-----ETEVLNLEVVOPLTARL-----LSGQKGLDGEHQYVNAGLA--VSLASIWLQQI
FT-VPQLSEAMDVLQKTAN-----NLEVPLEVVAPLEPKK-----LDGVTGLSGDHQLVNAGLA--VSLSRCWLQRT
FT-VAQPDEAMRVLNEKAS-----KLEVNLOVVEPLD-----SSQRLGLQGEHQYLNAGLA--VALCSTFLKEI

G-----CGRVTDEAIRIGLENTRLILGRSQFLTPKKAET-----LLL-PGATVLLDGAHTKESARA-----
G--KLEVPSRTQMSILPEKFIKGLATASLQGRAQVVPDQYTE-----SRTSGDLVFLYLDGAHSPESMEACAKWFSVAVKGDNQS GSSGHLVNGSA--
GNWKKIFPNESKETEIPVAFCRGLATARLHGRAQVVHVDVSDPDSSDSMETPCGDLIFYL DGAHSPQSM EACGRWFSSAVRG---DKSLSTAVNGYMRH
G--IEDKNGLDQTNGLPEKFISGLSNAYLMGRAMIVPD-----SELPEEIVYLDGAHSPESMEACAIWFSKQIKQ-NQER-----N-----

-----LK--EMIKKDFPEKRLVFVAMASDKDHVSFAKELLSGLKPEAVILTEADIG-----G GKIRSTESSALKES-----
---GSSHDKWSNETCEQILLFNCMSVRDPNLLPHLKNMCAKYGVNFKKALFVPMNSVYHKVGTAA DLPE-NDPQVDLSWQFTLQKVVESLVQS-----
GEYGTDLNRVS---KQILLFNCMEVRDPQVLLPKLVTTTCASSDTHFSRALFVPSMSTYNKVIISGASAI PSDTRRKDLTWQFRLQRLWEKSIQGT DAGLD
-----QKRS---EQILLFNCMSVRDPSSLPLRLRSKCIDQGVDFKRAVFPVNSVYNQVGSSTNVG---TRVESMSWQFGLQRIWESLAR-----

-----WIKAADELGSRSM EASENKTVLGSILKAYKILSD--DTTSSDSGMVIVTGS LHLVSSV LASLQH
-----ERDGEKDGESDG-----NSEVFTSLPMAIKCLRDTVH ESSATRFQVLVTGSLHVLGDVLRLLRK
HTLKP DGITALPPHDFLCGDAPQCGGPAGTPV-TSSAVMPSLPLTINWLRDCVRRNPS-LKLEVLVTGSLHVLGDVLRLLKR
-----GEAKSNSKSDSKGKEE-EKSFVFS SLPVAVDWLRDNARQSK-QVRFQVLVTGSLHVLGDLLRFIKK