

5Z8T 1 -----MYDIYGEAAIPADVREIRITRDLA-QAFHERAPEHDRAGDFEFENIE
3X0Y 1 -----MTLSPEKQHVPRDAADNDPVAVARGLA-EKWRATAVEERDRACGSATAERE
4ZXV 1 MTKPSVHEHPGVLDNGLCEPKTPAGRRLDLIERYL-PAIEAESRDNDREATLEPVHIFD
3MXL 1 -----MAADLRAPLTPAGRTVVDDLAVGI-PRISABAAARDRTGTFTFPVEAFE
4KCF 1 ----MPPWTARQDSTTGLYAPVTPAGRVLLDRLAAHL-PRIRSTAAEHDRDGTFTFTDTFD
4M9A 1 -----MDDLYTEDQRMILDAARAICAEVIAFNAAQWDRESHLPDEVVVA
2DVL 1 -----MTLTOEQRLVLDVAVRVAREVILYPLAFEYDRKAEYFPWPQIK
2D29 1 -----MGLWFEEGAEROVILGPREFELKAEVAPGAERDRTGAEFPWDLVR
1BUC 1 -----MDFNLTDIQQDFLKLAHDFGEKKLAPTFTVTERDCHKIYDKELID
4IV6 1 -----MALTAEEETIVKTVHDFVEKQVKPVVRELEHANTYPEELIE
4KTO 1 -----MFEAGLNFAIGEITIDLRASVRREASERLAELADDADRSNAEFMSLWR

5Z8T 48 DLKASGYVRWTVPVVEYGGGLGL---SLEEMLMHOEVLLAKGDGSTALALGWH--VGILL-HL
3X0Y 51 DLRASGLLSLLVPREYGGWGA---DWPTAIEVVRERIAAADGSLGHLFGYHLTNAPMIELI
4ZXV 60 RMRKEGVLGATVPEDLGGLGVH--SLHDVALALARIAGRDAGVALAHMQFSRGLTDFE
3MXL 47 QFAKILGLMGATVPAELGGLGLT--RLYDVATALMRLAEADASTALAWHVQLSRGLTTYE
4KCF 56 ALRKDGLMGATVPAELGGLGVD--RLYDVAVALAVARADASTALAHMQLSRGLTLGYE
4M9A 44 QMGELGFLGMIVPADWGGGSYT---DYVAYALALEEIIAAGCASCATLVSVH--NSVCGGP
2DVL 42 ALAEELGLLGMTTPPEEWGGVGL---DSVTWALALEELAAADPSVAVIVSVT--SGLPQYMI
2D29 46 KLAIEFGVFGALVPEAYGGAGL---STRLFARMVEALAYYDGAIALTVASH--NSLATGHI
1BUC 44 ELLSLGITGAYFEEKYGGSGDDGGDVLSYILAVEELAKYDAGVAITLSAT--VSLCANPI
4IV6 42 TMKEIGIFGLAIPPEPYGFGAV---SMPCYVQVAEELARGWMSLAGAMGGH---TVVSKLL
4KTO 49 EMGELGLLGITADEAHGGAGL---GYLAHCVAMEEISRASASVGLSYGAH--SNLCVNQI

5Z8T 102 RETGAFPDE-LFRMVCESVVKEGALINSCATEPATGSPSRGGKPETTAVKVPGGYRITGR
3X0Y 108 ---GSQEQE---EHLYTQIAQNNWWTGNASSE--NNSHVLDWKVRATPTE-DGGYVLNGT
4ZXV 118 WRHGAPSTRPLAEDLLRQMGAGEAIVICGAV-----KDVRGTTVLTRAT--DGSYRLNGR
3MXL 105 WQHGTPPVRAMAERLLRAMAEGEAAVCGAL-----KDAPGVVTELHSDG-AGGWILSGR
4KCF 114 WRHGERARTLAERILRGMVAGDAVVCSGI-----KDHTTAVTTLRPDG-AGGWILSGR
4M9A 99 LNYGTTEQK---ERWLRDLASGKTVGAFSLTEPHAGSEAHNLRTRAELR--DGKWLNGS
2DVL 97 LRFGEAQK---RRYLVLPLARGEWIGAFCLTEPQAGSDAKSLRAEARV--KGGFVLNGV
2D29 101 LLAGSEAQK---EAFLPKLASGEALGAWGLTEPGSGSDAAALKTKAEKV--EGGWRLNGT
1BUC 102 WQFGTEAQK---EKFLVPLVEGTKLGAFGLTEPNAGTDASQOQTIATKND-DGTYTNGS
4IV6 96 LLFGTEEQK---QKYLPRMATGELRATMALTEPGGGSDLQAMRTVARRD--GDDYVINGS
4KTO 104 NRNGKPAQK---SRYLPKLISGEHVGALAMSEPGAGSDVVSMLKLADKR--GDRYVLNGS

5Z8T 161 KTFSTLSPALTWIMVTATVADED-----VVGQFLVRKED--VEIVETWDTLGMRAIGS
3X0Y 159 KHFCSGAKGSDLLFVFGVVQDDSPQ---QGAIIAAAIPTSRAGVTPNDDWAAIGMRQTDS
4ZXV 170 KTLVSMAGIATHYVVSTRLEEAGAP---V-RLAAPVVARTTPGLTVLDNWDMGMRSSGS
3MXL 158 KVLVSMAPIATHFFVHAQRRDDDGs---V-FLAVPVVHRDAPGLTVLDNWDMGLMRASGT
4KCF 167 KTLVSMAPVGTHFVINARTDGTGDP---P-RLASPVVTRDTPGFTVLNDWDMGLMRASGT
4M9A 154 KQFVTNGARAGLAIVFAMTDPDECK---R-GLSAFVVPTDTPGFIVGKPEKKMGIRASDT
2DVL 152 KSWITSAGHAHLYVVMARTEK-----GISAFLVEKGTGGLSFRPEEKMGLHAAHT
2D29 156 KQFITQGSVAGVYVVMARTDPPSPERKHQGISAFAFFRPERGLKVGKKEEKLGLTASDT
1BUC 158 KIFITNGGAADIYIVFAMTDKSKGN---H-GITAFILEDGTPGFTYGKKEDKMGIHITSQT
4IV6 151 KTWISNARRSDIVALMCKTDPDAQP---AHKGVSILLVEKVPGFDFVSRDLPKLGYKGVES
4KTO 159 KMWITNGPDADVLVVYAKTDPAAAGP---R-GITAFIVEKAFPGFSAGQKLDKLGMRGSNT

5Z8T 212 HDIVLKDVFVPEERVIVIQ-RPGVQAERRPDG-SGW-----LHHPACYLGIALAARDF
3X0Y 216 GSTDFHNVKVEPDEVL--G-APNAFVLAFIQSERGSLFAPIAQLIFANVYLGIAHGALDA
4ZXV 226 VDIVFDGCPVDRDRVLPRG-EPGVRDDAALAGQTVS-----SIAMLGIIYVGLIAEAARRI
3MXL 214 LEVVFDRCPVRADELLERG-PVGARRDAVLAGQTVS-----SITMLGIYAGIAQAARDI
4KCF 223 VDIVFDDCPIPADHVLMRD-PVGARRDAVLAGQTVS-----SVSLVGYVGVQAQAYDT
4M9A 210 CPITLENCAIPQENLL--G-KRGEGLKIALSNLEGG-----RIGIAAQATGIARAADFDR
2DVL 203 AEVRLEEIVFVPEENLL--G-EEGRGLAYALAGLDG-----RVGVAAQAVGIARGAFEI
2D29 216 AQLILEDLFVPEEALL--G-ERKGKFYDVLRLVLDGG-----RIGIAAMAVGLGQAALDY
1BUC 214 MELVFQDVKVPAENML--G-EEGKGFKIAMMTLDGG-----RIGVAAQALGIAEAALAD
4IV6 208 CELNFTDARVPVSSLL--GDDEGRGFAQMMKGLEVG-----RLQVAARATGVARAAFED
4KTO 215 SELIFTDCEVPEENVL--G-GVGEQGVKVLMSGLDYE-----RVVLSAGPLGIMAACLDV

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5Z8T 264 ALEYAATYRPNTLPHPIAEVP-----HVEQKLGEMLKLLAARTLLYDLARRF
3X0Y 273 AREYTR--TQARPWTGAGIQQATEDPYTIRSYGEFTIALQGADAAAREAAHLLQTVWDKG
4ZXV 279 ALTELRL--RRGGAPAGVRTTVA-----EIDARLFAHTAVASALTADRLADDL
3MXL 267 AVGFCA--GRGGEPRAGARALVA-----GLDTRLIYALRTTVGAALTNADAASVDL
4KCF 276 AVAALE--RRPEPPQAAALTIVA-----EIDSRLIYALRATAGSALTAADALSADL
4M9A 261 ARRYAR--ERVQFGKPIAEHQ-----ATAEKLANMATQINAAARLLTHHAARLR
2DVL 254 AKAYAE--EREQFGKKLKEHQ-----ATAFKIADMHVKIAAARALVLEAARKK
2D29 267 ALAYAK--GREAFGRPIAEFE-----GVSFKLAEAAATELEAARLLYLKAAELK
1BUC 265 AVEYSK--QRVQFGKPLCKFQ-----SISFKLADMKMQIEAARNLVYKAACKK
4IV6 260 ALRYSQ--ERESFGKPIWQHQ-----SVGNMLADMGTKLYAARSLILLSAAEKF
4KTO 266 VVPYLH--ERKQFGQPIGEFQ-----LMQGKLADMVYTMNAARAYVYAVAAAC

5Z8T 312 DAASPEERVKLQPQFGAVKTLATNAANQVVDLAMRVVGGRSLSRALPLERYRDRVAGLH
3X0Y 331 DALTPEDRGELMVKVSQVKAATNAALNISSGVFEVIGARGTHPRYGFDRFWRNVRTSHL
4ZXV 326 SGDLAARGRAMMTPFQYAKLLVNRHVSQVGVDDCLMLVGAGYSNSHPLARLYRDVRAGGF
3MXL 315 SGDPDERGRMMTPFQYAKMTVNELAPAVVDDCLSLVGGGLAYTAGHPLSRLYRDVRAGGF
4KCF 324 SGDMDERGRQMMRHQCAKLAVNRLAPEIVSDCLSLVGGGASYTAGHPLARLLRDVQAGRF
4M9A 307 T-----AGLPCLSEASQAKLFASEMAEAVCSDAIQIHGGYGFLVDYEVERHYRDARITQI
2DVL 300 D-----RGERFTLEASAAKLFASAAAVEVTREAVQVLGGYGYHRDYRVERYRDAKVTEI
2D29 313 D-----AGRPFTLEAAQAKLFASEAAVKACDEAIQILGGYGYVKDYPVERYRDRARLTRI
1BUC 311 Q-----EGKPFTVDAAIKRVASDVAMRVTTAEVQIFGGYGYSEEPVARHMRDAKITQI
4IV6 306 D-----AGQRCDMAGMAKLFASETAMQIALDAVRVHGGYGYSTEYDVERYFRDAPLMIV
4KTO 312 D-----RGETARKDAAGCILYAAEKATAMALEAIQALGGNGYTNDYPAGRLLLRDAKLYEI

5Z8T 372 NPP---MDDVVYRNLAKAALARRAAGQAGR-----
3X0Y 391 HDPVSYKIADVKGKHTLNGQYPIPGFTS-----
4ZXV 386 MHP--YNFITDGDVYLSAVALGR-----
3MXL 375 MQP--YSYVDADVLYLSQALGLDRDNDYMSVRALRS-----RTSA
4KCF 384 MQP--YAYVDAVDFLSAQALGIERNNYMSTWAKRSGGNGKSADAAGPRRPTPTSR
4M9A 362 YEG---TSEVQRMVIARQI-----
2DVL 355 YEG---TSEIQRLVIARELYR-----
2D29 368 GEG---TSEILKLVIARRLLEAV-----
1BUC 366 YEG---TNEVQLMVTGGALLR-----
4IV6 361 GEG---TNEIQRNVIAKQLVARGGLDI-----
4KTO 367 GAG---TSEIRRMLIGRELFAETK-----

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