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***HA MKAILVVLLYTFATA***

***HA VVLLYTFATANADTL***

***HA TFATANADTLCIGYH***

***HA NADTLCIGYHANNST***

HA VTVTHSVNLLEDKHN

***HA SVNLLEDKHNGKLCK***

***HA EDKHNGKLCKLRGVA***

***HA GKLCKLRGVAPLHLG***

***HA LRGVAPLHLGKCNIA***

***HA PLHLGKCNIAGWILG***

***HA KCNIAGWILGNPECE***

***HA GWILGNPECESLSTA***

***HA NPECESLSTASSWSY***

***HA SLSTASSWSYIVETP***

***HA SSWSYIVETPSSDNG***

***HA IVETPSSDNGTCYPG***

***HA SSDNGTCYPGDFIDY***

***HA TCYPGDFIDYEELRE***

***HA DFIDYEELREQLSSV***

***HA SSFERFEIFPKTSSW***

***HA FEIFPKTSSWPNHDS***

***HA KTSSWPNHDSNKGVT***

***HA PNHDSNKGVTAACPH***

***HA NKGVTAACPHAGAKS***

***HA AACPHAGAKSFYKNL***

***HA AGAKSFYKNLIWLVK***

***HA FYKNLIWLVKKGNSY***

***HA IWLVKKGNSYPKLSK***

***HA KGNSYPKLSKSYIND***

***HA PKLSKSYINDKGKEV***

***HA SYINDKGKEVLVLWG***

***HA KGKEVLVLWGIHHPS***

***HA LVLWGIHHPSTSADQ***

***HA IHHPSTSADQQSLYQ***

***HA TSADQQSLYQNADTY***

***HA QSLYQNADTYVFVGS***

***HA NADTYVFVGSSRYSK***

***HA VFVGSSRYSKKFKPE***

***HA SRYSKKFKPEIAIRP***

***HA KFKPEIAIRPKVRDQ***

***HA IAIRPKVRDQEGRMN***

HA KVRDQEGRMNYYWTL

HA EGRMNYYWTLVEPGD

***HA YYWTLVEPGDKITFE***

***HA VEPGDKITFEATGNL***

***HA KITFEATGNLVVPRY***

***HA ATGNLVVPRYAFAME***

***HA VVPRYAFAMERNAGS***

***HA AFAMERNAGSGIIIS***

***HA RNAGSGIIISDTPVH***

***HA GIIISDTPVHDCNTT***

***HA DTPVHDCNTTCQTPK***

***HA DCNTTCQTPKGAINT***

***HA CQTPKGAINTSLPFQ***

HA GAINTSLPFQNIHPI

***HA SLPFQNIHPITIGKC***

***HA NIHPITIGKCPKYVK***

***HA TIGKCPKYVKSTKLR***

***HA PKYVKSTKLRLATGL***

***HA STKLRLATGLRNIPS***

HA LATGLRNIPSIQSRG

HA QNEQGSGYAADLKST

***HA SGYAADLKSTQNAID***

***HA DLKSTQNAIDEITNK***

***HA QNAIDEITNKVNSVI***

***HA EITNKVNSVIEKMNT***

***HA QFTAVGKEFNHLEKR***

***HA GKEFNHLEKRIENLN***

***HA HLEKRIENLNKKVDD***

HA IENLNKKVDDGFLDI

HA ELLVLLENERTLDYH

HA LENERTLDYHDSNVK

HA TLDYHDSNVKNLYEK

HA DSNVKNLYEKVRSQL

HA NLYEKVRSQLKNNAK

HA VRSQLKNNAKEIGNG

HA EIGNGCFEFYHKCDN

***HA CFEFYHKCDNTCMES***

***HA HKCDNTCMESVKNGT***

***HA TCMESVKNGTYDYPK***

HA VKNGTYDYPKYSEEA

HA YDYPKYSEEAKLNRE

***HA YSEEAKLNREEIDGV***

***HA KLNREEIDGVKLEST***

***HA EIDGVKLESTRIYQI***

***HA KLESTRIYQILAIYS***

***HA RIYQILAIYSTVASS***

HA LAIYSTVASSLVLVV

HA TVASSLVLVVSLGAI

HA LVLVVSLGAISFWMC

***NA MNPNQKIITIGSVCM***

***NA KIITIGSVCMTIGMA***

***NA GSVCMTIGMANLILQ***

***NA TIGMANLILQIGNII***

***NA NLILQIGNIISIWIS***

***NA IGNIISIWISHSIQL***

***NA SIWISHSIQLGNQNQ***

***NA HSIQLGNQNQIETCN***

***NA GNQNQIETCNQSVIT***

***NA IETCNQSVITYENNT***

***NA QSVITYENNTWVNQT***

***NA YENNTWVNQTYVNIS***

***NA WVNQTYVNISNTNFA***

***NA YVNISNTNFAAGQSV***

***NA NTNFAAGQSVVSVKL***

***NA AGQSVVSVKLAGNSS***

***NA VSVKLAGNSSLCPVS***

***NA AGNSSLCPVSGWAIY***

***NA LCPVSGWAIYSKDNS***

NA GWAIYSKDNSVRIGS

NA SKDNSVRIGSKGDVF

NA VRIGSKGDVFVIREP

***NA VIREPFISCSPLECR***

***NA FISCSPLECRTFFLT***

***NA PLECRTFFLTQGALL***

NA QGALLNDKHSNGTIK

NA NDKHSNGTIKDRSPY

***NA NGTIKDRSPYRTLMS***

***NA DRSPYRTLMSCPIGE***

***NA RTLMSCPIGEVPSPY***

NA CPIGEVPSPYNSRFE

NA VPSPYNSRFESVAWS

NA NSRFESVAWSASACH

***NA SVAWSASACHDGINW***

***NA ASACHDGINWLTIGI***

***NA DGINWLTIGISGPDN***

NA GAVAVLKYNGIITDT

NA LKYNGIITDTIKSWR

***NA IITDTIKSWRNNILR***

***NA IKSWRNNILRTQESE***

***NA NNILRTQESECACVN***

NA TQESECACVNGSCFT

NA CACVNGSCFTVMTDG

***NA GSCFTVMTDGPSNGQ***

***NA VMTDGPSNGQASYKI***

***NA PSNGQASYKIFRIEK***

***NA ASYKIFRIEKGKIVK***

***NA FRIEKGKIVKSVEMN***

***NA GKIVKSVEMNAPNYH***

***NA SVEMNAPNYHYEECS***

***NA APNYHYEECSCYPDS***

***NA YEECSCYPDSSEITC***

***NA CYPDSSEITCVCRDN***

***NA SEITCVCRDNWHGSN***

NA RPWVSFNQNLEYQIG

NA FNQNLEYQIGYICSG

NA EYQIGYICSGIFGDN

NA YICSGIFGDNPRPND

***NA IFGDNPRPNDKTGSC***

***NA PRPNDKTGSCGPVSS***

***NA KTGSCGPVSSNGANG***

***NA GPVSSNGANGVKGFS***

***NA NGANGVKGFSFKYGN***

NA VKGFSFKYGNGVWIG

***NA FKYGNGVWIGRTKSI***

***NA GVWIGRTKSISSRNG***

***NA RTKSISSRNGFEMIW***

***NA SSRNGFEMIWDPNGW***

***NA FEMIWDPNGWTGTDN***

***NA DPNGWTGTDNNFSIK***

***NA TGTDNNFSIKQDIVG***

***NA NFSIKQDIVGINEWS***

***NA QDIVGINEWSGYSGS***

***NA INEWSGYSGSFVQHP***

***NA DCIRPCFWVELIRGR***

***NA CFWVELIRGRPKENT***

***NA LIRGRPKENTIWTSG***

***NA PKENTIWTSGSSISF***

***NA SSISFCGVNSDTVGW***

***NA CGVNSDTVGWSWPDG***

***NA DTVGWSWPDGAELPF***

***NP TKRSYEQMETGGERQ***

***NP EQMETGGERQDATEI***

***NP GGERQDATEIRASVG***

NP DATEIRASVGRMIGG

NP IQMCTELKLSDYDGR

NP ELKLSDYDGRLIQNS

NP DYDGRLIQNSITIER

NP LIQNSITIERMVLSA

NP ITIERMVLSAFDERR

NP KTGGPIYRRVDGKWM

NP IYRRVDGKWMRELIL

NP DGKWMRELILYDKEE

NP RELILYDKEEIRRVW

NP YDKEEIRRVWRQANN

NP IRRVWRQANNGEDAT

NP RQANNGEDATAGLTH

NP GEDATAGLTHIMIWH

NP IMIWHSNLNDATYQR

NP SGAAGAAVKGVGTIA

***NP AAVKGVGTIAMELIR***

***NP VGTIAMELIRMIKRG***

NP MELIRMIKRGINDRN

NP INDRNFWRGENGRRT

NP FWRGENGRRTRVAYE

NP NGRRTRVAYERMCNI

NP RVAYERMCNILKGKF

NP LKGKFQTAAQRAMMD

NP QTAAQRAMMDQVRES

NP RAMMDQVRESRNPGN

NP RNPGNAEIEDLIFLA

NP AEIEDLIFLARSALI

NP LIFLARSALILRGSV

NP AHKSCLPACVYGLAV

***NP LPACVYGLAVASGHD***

***NP YGLAVASGHDFEREG***

NP ASGHDFEREGYSLVG

NP FEREGYSLVGIDPFK

NP YSLVGIDPFKLLQNS

***NP IDPFKLLQNSQVVSL***

***NP LLQNSQVVSLMRPNE***

***NP QVVSLMRPNENPAHK***

NP MRPNENPAHKSQLVW

NP MACHSAAFEDLRVSS

***NP AAFEDLRVSSFIRGK***

***NP LRVSSFIRGKKVIPR***

***NP FIRGKKVIPRGKLST***

NP KVIPRGKLSTRGVQI

NP RGVQIASNENVETMD

***NP ASNENVETMDSNTLE***

***NP VETMDSNTLELRSRY***

NP SNTLELRSRYWAIRT

NP WAIRTRSGGNTNQQK

NP RSGGNTNQQKASAGQ

NP TNQQKASAGQISVQP

NP ASAGQISVQPTFSVQ

NP ISVQPTFSVQRNLPF

***NP TFSVQRNLPFERATV***

***NP RNLPFERATVMAAFS***

***NP ERATVMAAFSGNNEG***

***NP MAAFSGNNEGRTSDM***

NP GNNEGRTSDMRTEVI

NP RTSDMRTEVIRMMES

NP RTEVIRMMESAKPED

NP RMMESAKPEDLSFQG

NP AKPEDLSFQGRGVFE

NP LSFQGRGVFELSDEK

NP RGVFELSDEKATNPI

NP LSDEKATNPIVPSFD

NP SYFFGDNAEEYDS

***PA LAEKAMKEYGEDPKI***

***PA MKEYGEDPKIETNKF***

***PA EDPKIETNKFAAICT***

PA HLEVCFMYSDFHFID

***PA FMYSDFHFIDERGES***

***PA FHFIDERGESIIVES***

***PA ERGESIIVESGDPNA***

PA IIVESGDPNALLKHR

PA LLKHRFEIIEGRDRI

PA FEIIEGRDRIMAWTV

PA GRDRIMAWTVVNSIC

PA MAWTVVNSICNTTGV

PA VNSICNTTGVEKPKF

PA NTTGVEKPKFLPDLY

PA FTIRQEMASRSLWDS

PA EMASRSLWDSFRQSE

PA SLWDSFRQSERGEET

PA FRQSERGEETIEEKF

PA RGEETIEEKFEITGT

PA IEEKFEITGTMRKLA

***PA MRKLADQSLPPNFPS***

***PA DQSLPPNFPSLENFR***

***PA PNFPSLENFRAYVDG***

***PA AYVDGFEPNGCIEGK***

***PA FEPNGCIEGKLSQMS***

***PA CIEGKLSQMSKEVNA***

PA LSQMSKEVNAKIEPF

PA KEVNAKIEPFLRTTP

PA KIEPFLRTTPRPLRL

***PA LRTTPRPLRLPDGPL***

***PA RPLRLPDGPLCHQRS***

***PA PDGPLCHQRSKFLLM***

***PA CHQRSKFLLMDALKL***

PA GIPLYDAIKCMKTFF

PA DAIKCMKTFFGWKEP

PA MKTFFGWKEPNIVKP

PA GWKEPNIVKPHEKGI

PA NIVKPHEKGINPNYL

***PA HEKGINPNYLMAWKQ***

***PA NPNYLMAWKQVLAEL***

***PA MAWKQVLAELQDIEN***

PA QDIENEEKIPRTKNM

PA EEKIPRTKNMKRTSQ

PA RTKNMKRTSQLKWAL

PA KRTSQLKWALGENMA

***PA DVGDLKQYDSDEPEP***

***PA KQYDSDEPEPRSLAS***

***PA DEPEPRSLASWVQNE***

PA RSLASWVQNEFNKAC

PA WVQNEFNKACELTDS

PA CVLEIGDMLLRTAIG

PA GDMLLRTAIGQVSRP

PA RTAIGQVSRPMFLYV

PA SETWPIGESPRGVEE

PA IGESPRGVEEGSIGK

PA RGVEEGSIGKVCRTL

PA WFNSFLTHALK

PB1 MDVNPTLLFLKIPAQ

PB1 TLLFLKIPAQNAIST

PB1 KIPAQNAISTTFPYT

PB1 DTVNRTHQYSEKGKW

PB1 THQYSEKGKWTTNTE

PB1 EKGKWTTNTETGAPQ

PB1 EESHPGIFENSCLET

PB1 GIFENSCLETMEVVQ

PB1 SCLETMEVVQQTRVD

***PB1 FLKDVMESMNKEEIE***

***PB1 MESMNKEEIEITTHF***

PB1 KEEIEITTHFQRKRR

PB1 QRKRRVRDNMTKKMV

PB1 VRDNMTKKMVTQRTI

PB1 TKKMVTQRTIGKKKQ

PB1 TQRTIGKKKQRLNKR

PB1 GKKKQRLNKRGYLIR

PB1 RLNKRGYLIRALTLN

PB1 GYLIRALTLNTMTKD

PB1 RMFLAMITYITRNQP

PB1 MITYITRNQPEWFRN

PB1 TRNQPEWFRNILSMA

PB1 EWFRNILSMAPIMFS

PB1 ILSMAPIMFSNKMAR

***PB1 LGKGYMFESKRMKIR***

***PB1 MFESKRMKIRTQIPA***

***PB1 RMKIRTQIPAEMLAS***

PB1 EMLASIDLKYFNEST

PB1 IDLKYFNESTKKKIE

PB1 FNESTKKKIEKIRPL

PB1 STVLGVSILNLGQKK

***PB1 VSILNLGQKKYTKTI***

***PB1 LGQKKYTKTIYWWDG***

PB1 YTKTIYWWDGLQSSD

PB1 AGVDRFYRTCKLVGI

PB1 FYRTCKLVGINMSKK

PB1 KLVGINMSKKKSYIN

PB1 NMSKKKSYINKTGTF

PB1 KSYINKTGTFEFTSF

PB1 KTGTFEFTSFFYRYG

PB1 TQIQTRRSFELKKLW

PB1 RRSFELKKLWDQTQS

***PB1 LKKLWDQTQSKVGLL***

***PB1 DQTQSKVGLLVSDGG***

PB1 KVGLLVSDGGPNLYN

PB1 IPEVCLKWELMDDDY

***PB1 LKWELMDDDYRGRLC***

***PB1 MDDDYRGRLCNPLNP***

PB1 RGRLCNPLNPFVSHK

PB1 NPLNPFVSHKEIDSV

PB1 FVSHKEIDSVNNAVV

PB1 EIDSVNNAVVMPAHG

PB1 NNAVVMPAHGPAKSM

PB1 MPAHGPAKSMEYDAV

PB1 PAKSMEYDAVATTHS

PB1 GILEDEQMYQKCCNL

PB1 EQMYQKCCNLFEKFF

PB1 KCCNLFEKFFPSSSY

PB1 EAMVSRARIDARVDF

PB1 RARIDARVDFESGRI

PB1 ARVDFESGRIKKEEF

PB1 ESGRIKKEEFSEIMK

PB1 KKEEFSEIMKICSTI

PB1 SEIMKICSTIEELRR

PB2 MERIKELRDLMSQSR

PB2 ELRDLMSQSRTREIL

PB2 KNPALRMKWMMAMRY

PB2 RMKWMMAMRYPITAD

***PB2 MAMRYPITADKRIMD***

***PB2 PITADKRIMDMIPER***

***PB2 KRIMDMIPERNEQGQ***

PB2 NEQGQTLWSKTNDAG

PB2 TLWSKTNDAGSDRVM

***PB2 TNDAGSDRVMVSPLA***

PB2 VSPLAVTWWNRNGPT

***PB2 VTWWNRNGPTTSTVH***

***PB2 RNGPTTSTVHYPKVY***

PB2 TSTVHYPKVYKTYFE

PB2 YPKVYKTYFEKVERL

PB2 RNQVKIRRRVDTNPG

PB2 IRRRVDTNPGHADLS

PB2 DTNPGHADLSAKEAQ

PB2 EVGARILTSESQLAI

PB2 ILTSESQLAITKEKK

PB2 SQLAITKEKKEELQD

PB2 TKEKKEELQDCKIAP

PB2 EELQDCKIAPLMVAY

PB2 CKIAPLMVAYMLERE

PB2 LVRKTRFLPVAGGTG

PB2 RFLPVAGGTGSVYIE

PB2 AGGTGSVYIEVLHLT

PB2 LEMCHSTQIGGVRMV

PB2 STQIGGVRMVDILRQ

PB2 GVRMVDILRQNPTEE

PB2 NPTEEQAVDICKAAI

PB2 QAVDICKAAIGLRIS

PB2 CKAAIGLRISSSFSF

PB2 GGFTFKRTSGSSVKK

PB2 KRTSGSSVKKEEEVL

PB2 SSVKKEEEVLTGNLQ

***PB2 DAKVLFQNWGIESID***

***PB2 FQNWGIESIDNVMGM***

PB2 IESIDNVMGMIGILP

PB2 IGILPDMTPSTEMSL

PB2 DMTPSTEMSLRGIRV

PB2 TEMSLRGIRVSKMGV

PB2 RGIRVSKMGVDEYSS

PB2 TERVVVSIDRFLRVR

PB2 LVNTYQWIIRNWEIV

PB2 QWIIRNWEIVKIQWS

***PB2 NWEIVKIQWSQDPTM***

PB2 KIQWSQDPTMLYNKM

PB2 QDPTMLYNKMEFEPF

***PB2 EFEPFQSLVPKATRS***

***PB2 QSLVPKATRSRYSGF***

***PB2 KATRSRYSGFVRTLF***

PB2 RYSGFVRTLFQQMRD

PB2 QQMRDVLGTFDTVQI

PB2 VLGTFDTVQIIKLLP

PB2 DTVQIIKLLPFAAAP

PB2 IKLLPFAAAPPEQSR

PB2 FAAAPPEQSRMQFSS

PB2 PEQSRMQFSSLTVNV

PB2 MQFSSLTVNVRGSGL

PB2 LTVNVRGSGLRILVR

PB2 RGSGLRILVRGNSPV

PB2 ATKRLTVLGKDAGAL

PB2 TVLGKDAGALTEDPD

***PB2 DAGALTEDPDEGTSG***

PB2 TEDPDEGTSGVESAV

PB2 EGTSGVESAVLRGFL

PB2 LRGFLILGKEDKRYG

PB2 ILGKEDKRYGPALSI

PB2 DKRYGPALSINELSN

***NS1 MDSNTMSSFQVDCFL***

NS1 MSSFQVDCFLWHIRK

***NS1 VDCFLWHIRKRFADN***

***NS1 WHIRKRFADNGLGDA***

***NS1 RFADNGLGDAPFLDR***

***NS1 GLGDAPFLDRLRRDQ***

NS1 LRRDQKSLKGRGNTL

NS1 KSLKGRGNTLGLDIE

***NS1 RGNTLGLDIETATLV***

***NS1 GLDIETATLVGKQIV***

***NS1 TATLVGKQIVEWILK***

***NS1 GKQIVEWILKEESSE***

***NS1 EWILKEESSETLRMT***

***NS1 EESSETLRMTIASVP***

***NS1 TLRMTIASVPTSRYL***

***NS1 IASVPTSRYLSDMTL***

***NS1 TSRYLSDMTLEEMSR***

NS1 SDMTLEEMSRDWFML

NS1 EEMSRDWFMLMPRQK

***NS1 DWFMLMPRQKIIGPL***

***NS1 MPRQKIIGPLCVRLD***

***NS1 IIGPLCVRLDQAIME***

NS1 CVRLDQAIMEKNIVL

NS1 QAIMEKNIVLKANFS

NS1 KNIVLKANFSVIFNR

NS1 KANFSVIFNRLETLI

NS1 VIFNRLETLILLRAF

***NS1 SPLPSLPGHTYEDVK***

***NS1 LPGHTYEDVKNAVGV***

***NS1 YEDVKNAVGVLIGGL***

***NS1 NAVGVLIGGLEWNGN***

***NS1 LIGGLEWNGNTVRVS***

***NS1 EWNGNTVRVSENIQR***

***NS1 TVRVSENIQRFAWRN***

***NS1 ENIQRFAWRNCDENG***

***NS1 FAWRNCDENGRPSLP***

***NS1 CDENGRPSLPPEQK***

***NS2 MDSNTMSSFQDILMR***

NS2 MSSFQDILMRMSKMQ

***NS2 MSKMQLGSSSEDLNG***

***NS2 LGSSSEDLNGMVTRF***

***NS2 EDLNGMVTRFESLKI***

***NS2 MVTRFESLKIYRDSL***

***NS2 ESLKIYRDSLGETVM***

***NS2 YRDSLGETVMRMGDL***

***NS2 GETVMRMGDLHYLQS***

***NS2 RMGDLHYLQSRNEKW***

***NS2 HYLQSRNEKWREQLG***

NS2 QKFEEIRWLIEEMRH

***NS2 IRWLIEEMRHRLKAT***

***NS2 EEMRHRLKATENSFE***

NS2 RLKATENSFEQITFM

NS2 QITFMQALQLLLEVE

***NS2 QALQLLLEVEQEIRA***

NS2 LLEVEQEIRAFSFQL

NS2 QEIRAFSFQLI

M1 LKAEIAQRLESVFAG

M1 AQRLESVFAGKNTDL

M1 SVFAGKNTDLEALME

M1 PNNMDRAVKLYKKLK

M1 RAVKLYKKLKREITF

M1 YKKLKREITFHGAKE

M1 REITFHGAKEVSLSY

***M1 HGAKEVSLSYSTGAL***

***M1 VSLSYSTGALASCMG***

***M1 STGALASCMGLIYNR***

***M1 ASCMGLIYNRMGTVT***

***M1 LIYNRMGTVTTEAAF***

***M1 MGTVTTEAAFGLVCA***

M1 TEAAFGLVCATCEQI

M1 ADSQHRSHRQMATTT

M1 RSHRQMATTTNPLIR

M1 MATTTNPLIRHENRM

***M1 SSEQAAEAMEVANQT***

***M1 AEAMEVANQTRQMVH***

***M1 VANQTRQMVHAMRTI***

M1 RQMVHAMRTIGTHPS

M1 GTHPSSSAGLKDDLL

M1 SSAGLKDDLLENLQA

M1 KDDLLENLQAYQKRM

***M2 TEVETPTRSEWECRC***

***M2 PTRSEWECRCSDSSD***

***M2 WECRCSDSSDPLVIA***

***M2 SDSSDPLVIAANIIG***

***M2 PLVIAANIIGILHLI***

***M2 ANIIGILHLILWITD***

***M2 ILHLILWITDRLFFK***

***M2 LWITDRLFFKCIYRR***

***M2 CIYRRFKYGLKRGPS***

M2 FKYGLKRGPSTEGVP

***M2 TEGVPESMREEYQQE***

***M2 ESMREEYQQEQQSAV***

***M2 EYQQEQQSAVDVDDG***

***M2 QQSAVDVDDGHFVNI***

***M2 DVDDGHFVNIELE***

***M2 AVDVDDGHFVNIELE***

HA LVLLCTFTATYADTI

HA TFTATYADTICIGYH

HA YADTICIGYHANNST

HA GKLCLLKGIAPLQLG

HA LKGIAPLQLGNCSVA

HA PLQLGNCSVAGWILG

HA NCSVAGWILGNPECE

HA GWILGNPECELLISK

HA NPECELLISKESWSY

HA SSFERFEIFPKESSW

HA FEIFPKESSWPNHTV

HA KESSWPNHTVTGVSA

HA PNHTVTGVSASCSHN

HA YRNLLWLTGKNGLYP

HA WLTGKNGLYPNLSKS

HA EKEVLVLWGVHHPPN

HA ALYHTENAYVSVVSS

HA FTPEIAKRPKVRDQE

HA AKRPKVRDQEGRINY

HA VRDQEGRINYYWTLL

HA GRINYYWTLLEPGDT

HA YWTLLEPGDTIIFEA

HA EPGDTIIFEANGNLI

HA CDAKCQTPQGAINSS

HA QTPQGAINSSLPFQN

HA AINSSLPFQNVHPVT

HA LPFQNVHPVTIGECP

HA VHPVTIGECPKYVRS

HA IGECPKYVRSAKLRM

HA KYVRSAKLRMVTGLR

HA AKLRMVTGLRNIPSI

HA VTGLRNIPSIQSRGL

HA NEQGSGYAADQKSTQ

HA GYAADQKSTQNAING

HA QKSTQNAINGITNKV

HA NAINGITNKVNSVIE

HA KMNTQFTAVGKEFNK

HA FTAVGKEFNKLERRM

HA KEFNKLERRMENLNK

HA LERRMENLNKKVDDG

HA LLVLLENERTLDFHD

HA ENERTLDFHDSNVKN

HA LDFHDSNVKNLYEKV

HA SNVKNLYEKVKSQLK

HA LYEKVKSQLKNNAKE

HA KSQLKNNAKEIGNGC

HA KNGTYDYPKYSEESK

HA DYPKYSEESKLNREK

HA SEESKLNREKIDGVK

HA LNREKIDGVKLESMG

HA IDGVKLESMGVYQIL

HA LESMGVYQILAIYST

HA VYQILAIYSTVASSL

HA AIYSTVASSLVLLVS

HA VASSLVLLVSLGAIS

HA VLLVSLGAISFWMCS

HA VLLCTFTATYADTICIG

HA TATYADTICIGYHANNS

HA TICIGYHANNSTDTVDT

HA HNGKLCLLKGIAPLQLG

HA LLKGIAPLQLGNCSVAG

HA PLQLGNCSVAGWILGNP

HA CSVAGWILGNPECELLI

HA ILGNPECELLISKESWS

HA SSFERFEIFPKESSWPN

HA EIFPKESSWPNHTVTGV

HA SSWPNHTVTGVSASCSH

HA RNLLWLTGKNGLYPNLS

HA EKEVLVLWGVHHPPNIG

HA TPEIAKRPKVRDQEGRI

HA RPKVRDQEGRINYYWTL

HA DQEGRINYYWTLLEPGD

HA NYYWTLLEPGDTIIFEA

HA LEPGDTIIFEANGNLIA

HA DAKCQTPQGAINSSLPF

HA PQGAINSSLPFQNVHPV

HA SSLPFQNVHPVTIGECP

HA NVHPVTIGECPKYVRSA

HA IGECPKYVRSAKLRMVT

HA YVRSAKLRMVTGLRNIP

HA LRMVTGLRNIPSIQSRG

HA HQNEQGSGYAADQKSTQ

HA SGYAADQKSTQNAINGI

HA DQKSTQNAINGITNKVN

HA NAINGITNKVNSVIEKM

HA TQFTAVGKEFNKLERRM

HA GKEFNKLERRMENLNKK

HA ELLVLLENERTLDFHDS

HA ENERTLDFHDSNVKNLY

HA DFHDSNVKNLYEKVKSQ

HA VKNLYEKVKSQLKNNAK

HA KVKSQLKNNAKEIGNG

HA GTYDYPKYSEESKLNRE

HA KYSEESKLNREKIDGVK

HA KLNREKIDGVKLESMGV

HA IDGVKLESMGVYQILAI

HA ESMGVYQILAIYSTVAS

HA YQILAIYSTVASSLVLL

HA YSTVASSLVLLVSLGAI

HA SLVLLVSLGAISFWMCS

NA MNPNQKIITIGSISI

NA KIITIGSISIAIGII

NA GSISIAIGIISLMLQ

NA AIGIISLMLQIGNII

NA SLMLQIGNIISIWAS

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NA YENSTWVNHTYVNIN

NA WVNHTYVNINNTNVV

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NA AGNSSLCSISGWAIY

NA LCSISGWAIYTKDNS

NA GWAIYTKDNSIRIGS

NA TKDNSIRIGSKGDVF

NA IRIGSKGDVFVIREP

NA VIREPFISCSHLECR

NA FISCSHLECRTFFLT

NA HLECRTFFLTQGALL

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NA NDKHSNGTVKDRSPY

NA NGTVKDRSPYRALMS

NA DRSPYRALMSCPLGE

NA RALMSCPLGEAPSPY

NA CPLGEAPSPYNSKFE

NA APSPYNSKFESVAWS

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NA DGMGWLTIGISGPDN

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NA GKVTKSIELNAPNFH

NA SIELNAPNFHYEECS

NA APNFHYEECSCYPDT

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NA FNQNLDYQIGYICSG

NA DYQIGYICSGVFGDN

NA GVWIGRTKSNRLRKG

NA RTKSNRLRKGFEMIW

NA RLRKGFEMIWDPNGW

NA DFSVKQDVVAITDWS

NA QDVVAITDWSGYSGS

NA ITDWSGYSGSFVQHP

NA DCIRPCFWVELVRGL

NA CFWVELVRGLPRENT

NA LVRGLPRENTTIWTS

NA PRENTTIWTSGSSIS

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NA FCGVNSDTANWSWPD

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NA ISIAIGIISLMLQIGNI

NA IISLMLQIGNIISIWAS

NA LQIGNIISIWASHSIQT

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NA TWVNHTYVNINNTNVVA

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NA SLCSISGWAIYTKDNSI

NA GWAIYTKDNSIRIGSKG

NA KDNSIRIGSKGDVFVIR

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PA EVHIYYLEKANKIKS

PA YLEKANKIKSEKTHI

PA NKIKSEKTHIHIFSF

PA EKTHIHIFSFTGEEM

PA HIFSFTGEEMATKAD

PA TGEEMATKADYTLDE

PA ATKADYTLDEESRAR

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PA KGVYINTALLNASCA

PA NTALLNASCAAMDDF

PA NASCAAMDDFQLIPM

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PA FNSLYASPQLEGFSA

PA ASPQLEGFSAESRKL

PA EGFSAESRKLLLIVQ

PA ESRKLLLIVQALRDN

PA LLIVQALRDNLEPGT

PA ALRDNLEPGTFDLGG

PA LEPGTFDLGGLYEAI

PA FDLGGLYEAIEECLI

PA LYEAIEECLINDPWV

PA EECLINDPWVLLNAS

PA NDPWVLLNASWFNSF

PA LLNASWFNSFLTHAL

PA MEDFVRQCFNPMIVELA

PA IETNKFAAICTHLEVCF

PA AAICTHLEVCFMYSDFH

PA KPKFLPDLYDYKENRFI

PA DLYDYKENRFIEIGVTR

PA ENRFIEIGVTRREVHIY

PA IGVTRREVHIYYLEKAN

PA EVHIYYLEKANKIKSEK

PA LEKANKIKSEKTHIHIF

PA IKSEKTHIHIFSFTGEE

PA HIHIFSFTGEEMATKAD

PA FTGEEMATKADYTLDEE

PA ATKADYTLDEESRARIK

PA TLDEESRARIKTRLFTI

PA RARIKTRLFTIRQEMAS

PA TSQLKWALGENMAPEKV

PA ALGENMAPEKVDFDDCK

PA WIELDEIGEDVAPIEHI

PA IGEDVAPIEHIASMRRN

PA HCRATEYIMKGVYINTA

PA YIMKGVYINTALLNAS

PA VYINTALLNASCAAMDD

PA LLNASCAAMDDFQLIPM

PA AAMDDFQLIPMISKCRT

PA FQLIPMISKCRTKEGRR

PA ISKCRTKEGRRKTNLYG

PA KEGRRKTNLYGFIIKGR

PA TNLYGFIIKGRSHLRND

PA IIKGRSHLRNDTDVVNF

PA HLRNDTDVVNFVSMEFS

PA DVVNFVSMEFSLTDPRL

PA SMEFSLTDPRLEPHKWE

PA TDPRLEPHKWEKYCVLE

PA SRPMFLYVRTNGTSKIK

PA YVRTNGTSKIKMKWGME

PA TSKIKMKWGMEMRRCLL

PA KWGMEMRRCLLQSLQQI

PA RRCLLQSLQQIESMIEA

PA SLQQIESMIEAESSVKE

PA SMIEAESSVKEKDMTKE

PA VCRTLLAKSVFNSLYAS

PA AKSVFNSLYASPQLEGF

PA SLYASPQLEGFSAESRK

PA PQLEGFSAESRKLLLIV

PA SAESRKLLLIVQALRDN

PA LLLIVQALRDNLEPGTF

PA ALRDNLEPGTFDLGGLY

PA EPGTFDLGGLYEAIEE

PA DLGGLYEAIEECLINDP

PA EAIEECLINDPWVLLNA

PA LINDPWVLLNASWFNSF

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PB1 GISSMVEAMVSRARIDA

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PB2 KRDSSILTDSQTATKRI

PB2 LTDSQTATKRIRMAIN

NS1 LLRAFTEEGAIVGEI

NS1 TEEGAIVGEISPLPS

NS1 IVGEISPLPSLPGHT

NS1 FTEEGAIVGEISPLPSL

NS2 REQLGQKFEEIRWLI

M1 WLKTRPILSPLTKGI

M1 LKTRPILSPLTKGIL

M1 PILSPLTKGILGFVF

M1 ILSPLTKGILGFVFT

M1 LTKGILGFVFTLTVP

M1 TKGILGFVFTLTVPS

M1 LGFVFTLTVPSERGL

M1 GFVFTLTVPSERGLQ

M1 TLTVPSERGLQRRRF

M1 LTVPSERGLQRRRFV

M1 SERGLQRRRFVQNAL

M1 ERGLQRRRFVQNALN

M1 QRRRFVQNALNGNGD

M1 RRRFVQNALNGNGDP

M1 VQNALNGNGDPNNMD

M1 NPLIRHENRMVLAST

M1 PLIRHENRMVLASTT

M1 HENRMVLASTTAKAM

M1 ENRMVLASTTAKAME

M1 VLASTTAKAMEQMAG

M1 LASTTAKAMEQMAGS

M1 TAKAMEQMAGSSEQA

M1 AKAMEQMAGSSEQAA

M1 EQMAGSSEQAAEAME

M1 QMAGSSEQAAEAMEV

M1 ENLQAYQKRMGVQMQ

M1 NLQAYQKRMGVQMQR

M1 YQKRMGVQMQRFK

M1 QKRMGVQMQRFK

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