KVGSDSGRTS**K**PVVIADCGQI

LETFCELHEL**K**KFRKMFYVKK

CRMKCNRPSV**K**VEDKDFPSTC

RELPSAVSRD**K**SSKVPSALAP

SPAASAEADG**K**LIQDSRRETK

PTTGNWRGML**K**TSKAEELLAE

AEELLAEEKS**K**PIPIMPASPQ

KKPRVMAGTL**K**LEDKQRLAQE

SPSANISDAD**K**SAITPTTGDT

TTGDTSQQDV**K**PSTEHINLKV

LPVFEEKIIG**K**VEKVDVKEVK

PHGRIMTPSV**K**VEKIHPKMDG

PNKGNKALKV**K**REPGENGTSL

ETESQTNVVV**K**IEEAPLSSSE

EDHPEFIVSV**K**KEPLEDDFIP

SESPAAPRTI**K**VEAAEEPEAT

SPHSPNPVRV**K**TELSSPTPGS

KDGSGFQYYL**K**WEGYDDPSDN

SQAEPSERRV**K**REKRDDGYEA

GLKPLEVNAI**K**KEAGTKEEPV

PEALFFVQFE**K**GESYFHLHIL

HQQPLQDRMF**K**FELTRRLEHD

NGRSPLPPKQ**K**RKMERTIEPE

SQRFSRELNV**K**KENKKVFSSQ

KKLGKTRNEV**K**EESQKRELVS

MSEQTGLLKI**K**TEPLDFNDYK

SDEPLNLTFI**K**KEFSNSNNLD

PLPAQDPVSV**K**EEPEAEVRMV

FEVCWNARGD**K**VGASASDGSV

HKKKVIHRDI**K**PENLLLGLQG

HRIRTNPAIV**K**TENSWSNKAK

GTVFTEELDI**K**PENATIEQLG

NSCPANLPNI**K**RELTACIFPT

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EEDKPRKEPD**K**KEGKKEVESK

RIHAEIKNSL**K**IDNLDVNRCI

YGFDGEVERL**K**RDHGVLVAEV

DGNLEAALDV**K**VEDLVGSPLD

AGRPVPASVV**K**AEVCDQSHSP

VLAACSQYFK**K**LFTSGAVVDQ

MENPALFNDI**K**IEPPEELLAS

TLEQPPSVAL**K**VEPVGEDLGS

TYLPANVPII**K**TEPTDDYEPA

PNLAPIPVTV**K**REPEELDQLY

PLAASPPGTV**K**AEEHQRQNIN

NPLSRKHGGP**K**DEERHVGDLG

KGDAGVSGVV**K**FEQASESEPT

PVKSISSMEL**K**TEPFDDFLFP

VDAENRLQTM**K**EELDFQKNIY

QGGGSVTKKR**K**LESTESRSSF

AGTCPPDIIP**K**VEGKTIAEQI

DRKHKAAVQI**K**APPLLVTSNI

NSNTTPIVHL**K**GDANTLKCLR

MDPNSTSEDV**K**FTPDPYQVPF

EDFLRLTPEI**K**KQLGSLVSDY

EEMFQTMVSS**K**TGHLTDDVKD

DPDEETSQAV**K**ALREMADTVI

TEDGQGLKGV**K**RERGACEATE

DLLENLQAYQ**K**RMGVQMQRFK

SGLVNADLDV**K**DELMFSPLVD

SPSNVTLPQV**K**TEKEDFIELC

FIELCTPGVI**K**QEKLGTVYCQ

YIKELGKAIV**K**REGNSSQNWQ

VPHYNRLDSY**K**VIEQPITSET

SGVETTTPPQ**K**QEPIDKELYP

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PRDKFLKEQI**K**LDEGWVPLEI

MMLWKLTDNI**K**YEDCEDRHDG

PVQHPRLQAL**K**EEPQTVPEMP

PIDMESQERI**K**AERKRMRNRI

LPDAVTIIEP**K**EEEPILAPSV

LQLETEIEAL**K**EELLFMKKNH

EYEALLNIKV**K**LEAEIATYRR

RAEAESMYQI**K**YEELQSLAGK

SELEAALQRA**K**QDMARQLREY

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SDFQPPALKI**K**EEEEGAEASA

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ASIEKGGSLP**K**VEAKFINYVK

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RKPAAFERAK**K**SAVTDALKRS

ENQEQQQYPN**K**RRQLTKVTNT

TNPDSTKNLV**K**IENTVSRGTP

VTKSKAPTKI**K**KEKTPSVSET

STSSSSIFDI**K**KEDKDEGELS

IEFLNEASVM**K**EFNCHHVVRL

ADGMAYLNAN**K**FVHRDLAARN

NCMVAEDFTV**K**IGDFGMTRDI

SRGPFPTCQL**K**SELDMLVGKC

RLEHYGQVQV**K**PEQGCPVGSD

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NSDSSFSVPI**K**QESTKHSCSG

CEGSGFPVGI**K**QEPDDGSYYP

FYTFRESHAL**K**VEFPAMLVEI

ARLEDKVKTL**K**AENAGLSSAA

EALKKQLPGV**K**SEGKRKGDEV

HILSPWGAEV**K**AEPVEVVAPR

TSSDERASLI**K**KEIHGSLPHV

QEQPEGTTLV**K**EEGDKDESKQ

REECLQVKTV**K**AEKPMTSQPS

PAGTKWMEHV**K**LERLKQVNGM

TSQTCRVNGI**K**MEMKGQPHPL

HLVEDLQDVI**K**QESDESGIVA

ENGPPLLKKI**K**QEVESPTDKS

PPPPHPHARI**K**LENPLDYGSA

RVPYPSPTCV**K**SEMGPWMDSY

HKPGGGQVEV**K**SEKLDFKDRV

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QMSKEEKLKI**K**EENEKLLKEY

YIMLNPSSRI**K**GEKDWQKYET

QVVGIEPLYI**K**AEPASPDSPK

GKVLAHFYGV**K**LEGKVPMHKL

GKKTRGRVKI**K**MEFIDNKLRR

LQITKKPLMV**K**NVKPSSPPDV

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LSDSINIMIT**K**ETIKFVADGD

KGSTSFLETL**K**TERLSPDLLT

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REAARECRRK**K**KEYVKCLENR

TTATETEIKP**K**EEDATPASLH

SLPSTPDIKI**K**EEEPVEVDSS

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KKKWNLDELP**K**FEKNFYQEHP

REFFPNHQWV**K**EETQEDKDCP

NKPTLDFELI**K**TEAKQPATLR

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GLGRALPPEV**K**VEGPKEELEV

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CRVCDSRLPI**K**VFYLRQHDAS

EPCADRPNAV**K**LEKVEPTPEE

KGVINDWRKF**K**LESQDSDSIP

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WAMEGPRDGL**K**KERLLDDRHD

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KEGENNKPRE**K**SESNKRKSNF

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IVAYNDTPGI**K**TEHTAFQPLT

LLSNSRDHLL**K**MGFDDMLELL

KHLFNPDEIV**K**HEEEQKQTPE

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VNYLVRINEI**K**SEEVPAFGVA

GGPLPPHLAL**K**AENNSEVGAS

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DGSAEPPGPV**K**AEPAHTAASV

APPLAGMAIV**K**EEETEAAIGA

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GLPGTLYPVI**K**EETNHSEMAE

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DLHKNELKHV**K**YCQYAFDLKC

QSNAPSSMMV**K**DEYVHDFEGQ

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FIPFGGPRRN**K**EIMYRITTEK

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DGPSLLYRWM**K**HEPGLGSYGD

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LAEEQTEVAV**K**LEPEGPPTLL

CFAVSQPKSI**K**EEGEDLQSCL

STAPGSEVTI**K**QEPVSPKKKE

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EDGLKYPKQI**K**RESPPIRAFE

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SFPLSLNKEL**K**QEPVEDLPCM

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PGPDVPVLEM**K**TETQAEDTEP

EEDLQGASQV**K**EETDIAEQKS

MEVDEKKPEV**K**VEVKEEEESS

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PGPYVASSNI**K**SEARGSGDLN

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LQASPLQILV**K**EEGPRAGSCC

PAPAPLGTPV**K**QENSFSSCQL

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AEGLSHTPTV**K**HLEALRQEIN

GFNTLAFPSM**K**RKDVVDEKQP

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GSKVTTHPLA**K**DKMMNGGHYT

FSPFNPTSLI**K**MEPHDIDHPE

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SEPRKRNEDP**K**ADQHSNKILF

VGADSVIASI**K**AERTGRKLPS

NVCSVNLRTV**K**SEIIEESVRQ

SSAFCSVKKL**K**IEPSSNWDMT

VYTGYPLSPA**K**VNQYPYIYPY

HYSMDDLASL**K**IPEQFRHAIW

DARRNKQQRI**K**EEGEGEEKIR

DRALAHNLLV**K**AEPKSPRDAL

PTPQTLSCRV**K**EELCPSSLPS

FQSKGEHDHP**K**PETKLEAEAR

IPANSLSSLI**K**TEVNGFVHVS

ECENVKEIKV**K**EENETEIKEI

NVARTYIPNT**K**VECHYTLPPG

ASLITAETCA**K**LEPEDAEENI

FACLKALVLF**K**PETRGLKDPE

VELEAELNQL**K**EENAQLKHAL

NDIVFGSKCK**K**QEHHIYREAS

QSHSPSDSSI**K**SEPVSPSPSA

LVRMKRRVGV**K**SAPRHQEEDK

YLNGTFRLLQ**K**PLRWHDALLL

MTDMMSEDEG**K**TETTNINSVI

HNWGDSGPPC**K**KSRKEKKQTG

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KAVDPGLPSV**K**QEPPDPEEDK

EAVTLNFRGE**K**LAKVMGFLAD

GDVEELEIQE**K**PALKVFKNIT

VPPTETVPQV**K**KEKHSTQAKN

CDSSTRIKSK**K**EEKRSTSLSS

LLSCSSTVSV**K**EELSPVLCMA

NSELYSLNDY**K**PPISKAKMTQ

GRWYKKYKKI**K**VERVERENLS

LNHPPIPRAV**K**PEPTNSSVEV

NNCVCHFSPL**K**SDQDYILKEG

KARMGVVECA**K**HELLQPFNVL

YQDAFLFNEL**K**GETMDTSTDM

LEAEEYVPLP**K**GDVHKKKEII

LGDLGHTPLS**K**KEGIKWQRPR

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RQNHEEIMDA**K**PELLAFQRPT

PFTCNVSVPI**K**DELLPVMSLP

LARERDAYKV**K**CEKLANSGFR

LQQAEEALVA**K**QEVIDKLKEE

PVLKAQADIY**K**ADFQAERQAR

SSSQEKDPKI**K**TETSEEGSGD

LNQSRQALEL**K**MENPTAGGAA

HQQPVARLRL**K**EEQITIQEEK

LWEIENNPTV**K**ASGYQSSQKK

KSQRPCVTHI**K**TEPVAIFSHQ

AAPEVNNIFI**K**QELPTPDLHL

TNVIDLTGDD**K**DDLQRAIALS

MEDHSHSFDI**K**PFTTVDFSSI

KGRRNQSVEP**K**KEEPEPETEA

NTNWKTLYEV**K**SENLGQGDKP

FRSFIFRVRV**K**VETYNDESRI

SDRSAQPLPL**K**IEELALAKGI

KMPKFSMPGF**K**AEGPEVDVNL

AAALAPEIVI**K**VEKLDPELDS

NSNTTFQKRP**K**EEEWDPEYTP

VVQPQPLVVV**K**EEKIHSPIIR

KKTDAPQPDV**K**EEEEEKEEEK

NRLLLPTPTV**K**QESKDVEENV

KTVQTIVHRL**K**DEETNEDSGR

PGIEPTGNMV**K**KRAEFTVETR

EERWRRKVIC**K**EEPVSEVKET

KKKPTLRTPV**K**LESIDGNEEE

NGKSKGCGVV**K**FESPEVAERA

AAAEVAATEI**K**MEEESGAPGV

QNQFYDTQVI**K**QENESGYERR

ALANKPLRRF**K**QEPEDELPEA

ALDMEIHAYR**K**LLEGEEERLR

TLLPKKPTAI**K**TEGKPAEVKK

LRTRVQKVQV**K**EEPSAVKFTQ

AVLKLGNIEF**K**PESRVNGLDE

SAFTLEKKVI**K**TEPEDSRSDE

VNGSITPTDK**K**IGFLGLGLMG

PASEKEIVEV**K**EENIEDATEK

ASPISQRLPP**K**VESLESLYFT

VVDDEIYYFR**K**PIVPQKEPSP

EHQVVRNEEQ**K**AEQEEGKVAQ

LLNENIMLLS**K**RRSQLKQAVA

FKVMIYQDEV**K**LPAKLSISKS

NSDIEQSSDS**K**VKNLFASFPT

NLRPRKTRPL**K**AENPYLFLRG

NSNGDIKKSV**K**LEESATGEKQ

LLPLSMEAKI**K**QEITEGELKA

QEEQKESEKM**K**SEEQPMDLEN

LPENEEKKII**K**EESDSFKENV

PTKEFLKDEI**K**QEEETCKRIS

VSDERVAPNF**K**TEPIETKFYE

INILHSEDLG**K**DVEFEVVGDA

MSSFKEEKDI**K**PIIKDEKGRV

SKADSLLAVV**K**REPAEQPGDG

ELDAMFPEGY**K**VLPPPAGYVP

KQQMFENKLI**K**SEEIKDTILQ

LSMMSLLNKP**K**SEMTPEELQK

GKTGPTVTQV**K**AEKQEDSESS

WKILAPYLEM**K**DSEIRQIECD

KATQVGEKTP**K**DESANQEEPE

RAAERKRIII**K**MEPEDIPTDE

EPDHPVLASI**K**KEQETVLLDL

CDVTIIVEDT**K**FKAHSNVLAA

PALPPKIFYI**K**QEPFEPKEEI

GNSFASNIRI**K**EEPLDDEYDK

APQQGLLDKI**K**DEPDNAQEYS

MITKFLGVIV**K**SERPCDEDKT

FVSEKTETSI**K**TEDDFPVIET

NTANSSEIKV**K**VEPADSVESS

SSVAQSGSES**K**VEPKKCELSK

EREQIKTLNN**K**FASFIDKVRF

ADAETLRKAM**K**GLGTDEESIL

ETFEPEDKTV**K**QEQINTEPLE

EAEKKNKKKI**K**NENTEGSPQE

QAISRGPGLV**K**QEDFRDKMMG

KPKPTNPVEI**K**EELKSTSPAS

VLLTEAPLNP**K**ANREKMTQIM

VESRVTQEEI**K**KEPEKPIDRE

DLVLCEAAFP**K**TLAFAYLEDL

SECDPNGKFI**K**LENSHRNKDE

GGRNKFGPMY**K**RDRALKQQKK

NQLLQQVDHL**K**QEISRLVRER

PGAPSSSPTV**K**EEGPEPWPGG

ESVRNDRNKK**K**KEVPKPECSE

AKGAERVITL**K**MEIPGSMPPL

SSCEVKKDEL**K**SEPGSNCDNS

NPVLSLDVPI**K**MENESGSQDI

LVGFPARMHL**K**TEPDYRQQAC

LDQDCRAPIV**K**REPLDSPSWA

LPHGPQGLLN**K**PPEHHRPDIK

RESLNGERLE**K**PSSSGIKQER

IISSAQKVQI**K**QETIESRLSE

SLQSGPSRLV**K**DEYSAGPLVG

TRPGSGLTNI**K**TEEISEVKMD

AAAGAAVLPV**K**KPKMEHVQAD

VKICNYEGPA**K**IEVDLVTHSD

VFRTPPYHKM**K**IERPVTVFLQ

GYPTLTRLLL**K**AGADIHAENE

RDKLPSTAEV**K**EDSAYGSQSV

HSMDEMTAVV**K**IEKGVGGNNG

SEDDSTEVDI**K**EDIPKTVEVS

PSKVRRCIAI**K**TEDTESNDSR

AGEPPSSLQV**K**PETPASAAVA

AQMLSENGEL**K**FPEKMGLPAA

AMFPTGRTIP**K**IEPQDGVAGS

MQIFVKTLTG**K**TITLEVEPSD

KQASACRVLV**K**DEPEADYNFN

CHLCDQSFQR**K**VDLRRHRESR

ETIANLERWV**K**REMHVWREVF

QGSVKNWVEF**K**KEFLQYSEGT

DGVTPYMIFF**K**DGLEMEKCKE

NPEQLITSDI**K**QEVVNANKDD

IQFIKLFGMA**K**IDNLLQEMLL

QPPPVRIQDI**K**TENGTCPSPP

LGSGSAAAVP**K**IESPDSSSSS

PKEAEKKVVI**K**SEAASPALPV

AASPALPVIT**K**VETLSPESAL

DHEDAEDLET**K**PTVDSEAEKA

IGDAVVISCA**K**DGVKFSASGE

MGHLKYYLAP**K**IEDEEGSGEE

PQKQAEKVVI**K**KEKDISAPND

NHGAPACHRL**K**EEEDEYETSG

KFKYGIEEHG**K**VKMRGGLLRT

ELFYVFFKGV**K**DRVKGKSDPY

ARASNEDGDI**K**RISTKEWAKS

TGYDPVKLFT**K**LFKDDIRYLL

DDIRYLLTMD**K**LWRKRKPPVP

SEPIHCIVWA**K**YLFNQLFGEE

IVYKLVPGLF**K**NEMKRRRDFY

YIQHTYRKGV**K**IDKTDYMVGS

RQQPRASARY**K**IETVDDGLGD

PPRKRGRPKT**K**VEDQTPKPKL

VGQLIFDKFI**K**TEEDPIIKQD

ELRLVQGSLL**K**KVLESIKDLV

FALRYMNSFT**K**ATPLSDTVTI

SSELPVVVEY**K**VAEMGYIRYY

LIAPSTSFQI**K**VDPMPPFQLG

SYAPFVGMPV**K**ADGKAFCNVG

PSLFGTEGKP**K**MEPAASSQAA

APIIRVGGAL**K**APSQNRGLQN

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NKMVCEQKLL**K**GEGPKTSWTR

KRKFVADGIF**K**AELNEFLTRE

LPDHVSIVEP**K**DEILPTTPIS

TTPISEQKGG**K**PEPPAMPQPV

PYLPINSAAI**K**AECTARLPEA

AQLTRQLNME**K**REVNKALYDL

SREKSMREDH**K**SFDDVIPAKK

ACNSVIKQLM**K**KEFTLEFSRD

MHLEDSANFI**K**YETNLTFVGC

APSSCMLAAF**K**PEAYAGPEAA

EQLDPTLLQM**K**TEVMEGTVAP

GAIENIIVEV**K**KEPDAEPAEG

EEEVDVTGPI**K**PEPILPEPVP

GEVSQKTVII**K**EEEEDTAEKP

KPDAESVVYL**K**TETALPPTPQ

LSPGLAPFTL**K**PDGTRVLPNV

PNISAVDVKP**K**DEAALYKHKC

TFIRAPPTYV**K**VEVPGTFVGP

HTLKGVTTPI**K**IEDSDANVPP

IIFPLKRPQI**K**PEVSVINLVQ

TLYGISHDDL**K**GDPLLDQRRL

ALMLDKNNLV**K**YDKKTGNFQV

VLLQAFISQL**K**LEGFALMADM

HLQPITRSTL**K**VELTITPDFQ

RLTLQQKAKV**K**LDFVAPATGA

GLGRLPAKTL**K**PEVRLVKLPF

LETMMTELKA**K**GPRAPHVAGG

PQLGYQAAVL**K**EGLPQVYPPY

GSPSSLSPFS**K**RIKLEKEFDL

FNHICEQTRF**K**NKFRTQECIH

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ASPPTPPVSI**K**SERLSPAPGG

DIALEPDKTV**K**KVQDKFRLDL

AYQNEKVTEL**K**IENNPFAKGF

DSEEAEKPEV**K**KEQKSVTPPK

MMSGRGKTGG**K**ARAKAKSRSS

GNKDLYEEGI**K**EEPQQLHPLD

VEQPPPANGI**K**EERASCEEGN

SEKNVVYRDL**K**LENLMLDKDG

PDRDLRSLPL**K**MEPQSPGEVK

AEKLESFSAL**K**PEASELLQSV

VEERMNGSHF**K**DEKALVTSQN

QNMEARLAER**K**FMNPFNLPNL

AYARIGNSYF**K**EEKYKDAIHF

EAIKRNPRDA**K**LYSNRAACYT

YNRHDSPEDV**K**RRAMADPEVQ

DPLLTYRFPP**K**FTLKAGQVVT

QEQLIGGVAV**K**SEHSTTATTS

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IIGRIESYSC**K**MAGDDKHMFK

QLRVSHGCVS**K**ILCRYQETGS

KFKSVLYHIL**K**ELIQSQGTVK

SSVKKDETNV**K**MESEGGADDS

PLKRLEELLY**K**MFLHTGTVIV

GSPMISGPYP**K**AGQPSLVVQS

PQPLPVCGDI**K**VEFFHKQNKM

GPALHAAKRI**K**VEKDLELPPA

HGEHLLTNDV**K**IEQAERSREA

QAGVSPDHET**K**PDITGCCSNQ

LLPFPQDVIN**K**LDKLSVLRLS

TAPMGNDTIL**K**HEQIDQPQDV

INHLEYEDQY**K**DDNFGEGNDG

EPIDITVKET**K**AKRKRKLIVD

RKRKLIVDSV**K**ELDSKTIRAQ

VTTLDLAPPT**K**KLMMWKETGG

MMWKETGGVE**K**LFSLPAQPLW

AQPLWNNRLL**K**LFTRCLTPLV

LTPLVPEDLR**K**RRKGGEADNL

GEADNLDEFL**K**EFENPEVPRE

SGELGGLRPI**K**IEPEDLDIIQ

CAREVLQYLA**K**HENTRDLKSS

FTMGERIGAI**K**QESEEPPTKK

QHGTQQQDLN**K**KERRVGTPQS

RRVGTPQSTK**K**KKESRRATES

ESAINVLEMI**K**TEFTLTEAVV

YLLTMAKKAL**K**SESAASSTGK

SPALKNKRPR**K**DENESSAPAD

VLAKAVDGYV**K**PQIKQVVPEF

AGTTAGASEI**K**REEKEDEEIA

VDGLYGSKKI**K**NEANTNYNLL

SATNSKPTFI**K**LEDAKGTHIK

SNNNGQSLFV**K**DDNDTSSGSS

LILQSPTISS**K**NGSEVEMITL

YFSEHPNETL**K**DEDITDSGNV

SNSNLNANER**K**FANENPNSQK

KGRNANFITL**K**QEPGMGGQSA

PSNKIDMMDI**K**NSPSSLNSPS

RVHAYIISYL**K**KEMPSVFGKE

LMAQENSMER**K**VQGAAPWDTS

TDFGFDLDIE**K**EAPAGNIDTI

PFPEENIIDA**K**TRNEQTTIQT

LRTKRDMMDR**K**TRLSEPPTLA

SEPPTLALRL**K**PYKTAIQQLR

LKWIGPHTRV**K**RNVKKAPCPT

ANNRVSFHGV**K**NMRINVQLKN

EPFQRGDPFD**K**NYVGNSGKSR

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DHDHGLSSKE**K**YEQHKITSYL

QHKITSYLTS**K**GGSGGGGGGG

RNSGNYFNDA**K**EESDSEDSVT

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RKDRRGGRML**K**HKRQRDDGEG

NGEAGEKPAV**K**SETPLVSIKV

EKKKKKIKTI**K**SEAEDLAEPL

APSPLAIPAI**K**EEPLEDLKPC

VEKVLDRRVV**K**GQVEYLLKWK

VAGLMMLGAV**K**MEGHEPSDWS

FRLSHIKEEV**K**PDISQLNDSN

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CTEKIQENKI**K**KEDSSSGLMN

EKQRYLDEAE**K**EKQQYLKELW

SGIDITDFQA**K**REKVDSQYPP

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FIPGPEETSE**K**VENGSLCDQE

EAEASCAALV**K**AGKVYAAATE

VEDCLHIKAI**K**TESSGLCQSS

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NAVVCKGRPN**K**LERDEVVQVF

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