PNTAMMATNP**K**VYFDMTVGGK

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NGSQFFICTE**K**TSWLDGKHVV

YEDLLRQELR**K**LKRRFLEEHE

GHTVPLSDGG**K**AFCIIYSVIG

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DYVPGEGYNQ**K**FRELYKIGIT

SSITDQAAGM**K**EDQKQNEPFV

LGTSGVDCNR**K**RKGSSTDYQE

TDYQESMDTD**K**DDPHGRLEYT

LEYTEHQGRI**K**NAREAHSQIE

HSQIEKRRRD**K**MNSFIDELAS

TCNAMSRKLD**K**LTVLRMAVQH

ATNPYTEANY**K**PTFLSDDELK

FLFVVGCDRG**K**ILFVSESVFK

GQSLFDYLHP**K**DIAKVKEQLS

TAPRERLIDA**K**TGLPVKTDIT

DKDFPSTCSK**K**KADRKSFCTI

FCTIHSTGYL**K**SWPPTKMGLD

PQPVNGEIRV**K**SMEYVSRHAI

EYVSRHAIDG**K**FVFVDQRATA

CHRQVLQTRE**K**ITTNCYKFKI

RWFSFMNPWT**K**EVEYIVSTNT

SMLPSGEGGP**K**RTHPTVPGIP

IPGGTRAGAG**K**IGRMIAEEIM

PPPDASSPGG**K**KILNGGTPDI

MMEALIPVIN**K**LQDVFNTVGA

LQLVHVSQED**K**RKTTGEENGV

ENGVEAEEWG**K**FLHTKNKLYT

NETERISGNN**K**GVSPEPIHLK

LTLVDLPGMT**K**VPVGDQPKDI

NTDMATSEAL**K**ISREVDPDGR

DGRRTLAVIT**K**LDLMDAGTDA

DVLMGRVIPV**K**LGIIGVVNRS

VNRSQLDINN**K**KSVTDSIRDE

SIRDEYAFLQ**K**KYPSLANRNG

HHIRDCLPEL**K**TRINVLAAQY

LNSYGEPVDD**K**SATLLQLITK

EYCNTIEGTA**K**YIETSELCGG

VPEVSFELLV**K**RQIKRLEEPS

YSTQELLRFP**K**LHDAIVEVVT

IVEVVTCLLR**K**RLPVTNEMVH

VAIELAYINT**K**HPDFADACGL

LLDVPVPVAR**K**LSAREQRDCE

RDCEVIERLI**K**SYFLIVRKNI

VRKNIQDSVP**K**AVMHFLVNHV

LQSELVGQLY**K**SSLLDDLLTE

TESEDMAQRR**K**EAADMLKALQ

ELGGMMGGLE**K**KKYERGSATN

GSATNYITRN**K**ARKKLQLSLA

LADFRRLCIL**K**GIYPHEPKHK

HEPKHKKKVN**K**GSTAARTFYL

RFLLHEPIVN**K**FREYKVFVRK

EYKVFVRKLR**K**AYGKSEWNTV

KSEWNTVERL**K**DNKPNYKLDH

KPNYKLDHII**K**ERYPTFIDAL

FLFSTFPRTG**K**CHVQTIQLCR

HYIIAARALR**K**VFLSIKGIYY

YQLLNLHYPP**K**LEGQAQAEAK

YALDSESCME**K**LAALSASLAR

EMSAQEEDRR**K**ELEAQEKHKK

RSFGGEVSWD**K**SLCIGATYDV

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KAHDEAVRSE**K**KAKKARPEPR

VGQDNNEVFF**K**IKKTTEFSKL

LMKIYCARQG**K**SMNSLRFLVD

RPASYSFCSG**K**GVGIKGETST

GSASPTPPYL**K**WAESLHSLLD

DGISLFRTFL**K**QEGCADLLDF

DFWFACTGFR**K**LEPCDSNEEK

PCDSNEEKRL**K**LARAIYRKYI

DNNGIVSRQT**K**PATKSFIKGC

TKSFIKGCIM**K**QLIDPAMFDQ

MEENTYPSFL**K**SDIYLEYTRT

EYTRTGSESP**K**VCSDQSSGSG

SDQSSGSGTG**K**GISGYLPTLN

LPTLNEDEEW**K**CDQDMDEDDG

DAAPPGRLPQ**K**LLLETAAPRV

VDGIPPYRIR**K**QHRREMQESV

PHIPRTYRVP**K**EVRVEPQKFA

AVQRTREAEE**K**LEERLKRVRM

PSSGPPGPCH**K**LPPAPAWHHF

HRSPDSGHVA**K**MPVALGGAAS

ALGGAASGHG**K**HVPKSGAKLD

HHVHHSTARP**K**EQVEAEATRR

NASDGLAHSG**K**VGVACKRNAK

KRNAKKAESG**K**SASTEVPGAS

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KDGTELDESF**K**EFGKNREVMG

VVCNDCNQVV**K**PQAFQSHYER

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TCPATVSSLV**K**PGLNCPSIPK

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LAEHKNKTRE**K**ELIRHPDSQQ

NPHGVIPSES**K**PFVASKPKPH

LSSEEGEGDD**K**EESVEKLDCH

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ASSSTSGGSG**K**KRKNSSPLLV

SSSHSMESFR**K**NCVAHSGPPY

HSIGLNCVTN**K**ANAVNVRHDQ

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KVPAVNNVHM**K**HTGTIPGAQG

LMNSSLLHQP**K**ARPRAKPQHL

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VQLKQRRRTL**K**NRGYAASCRV

ASCRVKRVTQ**K**EELEKQKAEL

QKAELQQEVE**K**LASENASMKL

MKLELDALRS**K**YEALQTFART

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ATSVITIVKS**K**TDARSRADTK

AAPSAATAAP**K**VLLLSGQPAS

SEASGTPQAR**K**RQRLTHLSPE

LSPEEKALRR**K**LKNRVAAQTA

RVAAQTARDR**K**KARMSELEQQ

QVVDLEEENH**K**LQLENQLLRE

DPDEVPEVEA**K**GSGVRLVAGS

ESDILLGILD**K**LDPVMFFKCP

LSLSVGTSSA**K**LEAINELIRF

ELIRFDHVYT**K**PLVLEIPSET

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LRDMEAGEEA**K**AMDSSPKEQE

ELEMRPQDEE**K**EEKEEEAAMA

EEAANSEIYR**K**DDALWCRVTK

ASILATAVIN**K**DVFPCKDCGI

AGSPVSATEE**K**PKETYPNERV

ERVCPFPQCR**K**SCPSASSLEI

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GTPTGLFSGT**K**GATCFECEIT

FNNINNFYVH**K**RLYCSGRRAP

PEDPPTVRRP**K**AATGPARAPA

FSRHETYTVH**K**RYYCASRHDP

APPVRTRRRR**K**LYELPAAGAP

PVPDGPIDLS**K**RPRRQSPDAP

FHSLEAYLAH**K**KYSCPAAPLR

LRQAHGLQVA**K**PAASPGAEPR

PADQGARTPS**K**GPPAPAPAPG

SSLSTFIAHK**K**YYCSSHAAEH

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VEEAENSINN**K**SSTASLESPQ

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LYSHGNSGSQ**K**THNVSFSCEI

VSFSCEIRKV**K**SSKLSPISNM

PISNMEDSED**K**KEEDESSSYK

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EYIASSGSED**K**NSDEEFAVEM

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KSWEDLVDCV**K**TVQQLDNGKL

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IWLFGPATTG**K**TNIAEAIAHA

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VPSGAQDLIS**K**LLKHNPWQRL

LDTDSFLGGL**K**WCSDQSEIIS

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TQPQSQHAQA**K**PTTLSLPLTP

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EHEKRESERA**K**QRERQKQKAI

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NASSDVEVEE**K**ETSVSKEDTD

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VTKAVDITTP**K**AARRGRKRKA

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KKGQEEKQPK**K**QPKKDEEGQK

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SEERETEISL**K**DSTLDNDLTS

VKLEEMMEEL**K**VEMEEETVTF

NETGPPPFLT**K**TYEMVEDPAT

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VCDQSHSPTR**K**QGRYGRVSSK

TRQLQQALEE**K**DAQLCFLAAR

CFLAARLEAH**K**EQIIFLRDML

QIDQRNLLRA**K**EYLEFFQSNP

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VRSDHLHRHL**K**KDGCNGVPSR

CNGVPSRRGR**K**PRVRGGAPDP

SPDARRNGQE**K**HFKDEDEDED

DMDVMMVDMD**K**LINNLEVQLN

NSEGGSMQVF**K**QVTASVRNRD

QVEPVDLSFH**K**PKAPLQPASM

SMLQAPIRPP**K**PQSSPQTLVV

HTIPSVSLPN**K**MGGLKTIPVV

ITVPLIGGDG**K**NAGSVKVDPT

QMQGEESLDL**K**RRRIHQCDFA

IHQCDFAGCS**K**VYTKSSHLKA

YKCTWDGCSW**K**FARSDELTRH

RSDELTRHFR**K**HTGIKPFRCT

MPSTSFPVPS**K**FPLGPAAAVF

GPAPRAGGTM**K**SAEEEHYGYA

VEVEDVLPSS**K**RSPSTATLSL

SPWQSPCVSP**K**TTDPEEGFPR

RSSRPASPCN**K**RKYSLNGRQP

SLDLGDGVPV**K**SRKTTLEQPP

EDYSSFQHIR**K**GGFCDQYLAV

AVPQHPYQWA**K**PKPLSPTSYM

PYELRIEVQP**K**SHHRAHYETE

YETEGSRGAV**K**ASAGGHPIVQ

AFYQVHRITG**K**TVSTTSHEAI

TSHEAILSNT**K**VLEIPLLPEN

RAVIDCAGIL**K**LRNSDIELRK

LRKGETDIGR**K**NTRVRLVFRV

RSAQELPLVE**K**QSTDSYPVVG

TDSYPVVGGK**K**MVLSGHNFLQ

LSGHNFLQDS**K**VIFVEKAPDG

DGHHVWEMEA**K**TDRDLCKPNS

VHVSFYVCNG**K**RKRSQYQRFT

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FRSTRYLPVT**K**EGPRDILDGR

HHRGEPRLLE**K**HAQGRPRFDW

RVFVPVEDTP**K**TLDMAVVGGR

FPCIECSIYF**K**QKEHLLEHMS

HRQLHQASRE**K**IIEEIQKLKQ

EGREARLQCP**K**CVFGTNSSRA

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FPDTAVDYFG**K**AEPSLAPMWR

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SLIPQAALEL**K**QAFREALQAV

RGMVPIVLVA**K**LGPQVMAAAR

LLDGDPAMAL**K**HEERKCPYCP

VRHFISAEEV**K**AIERRFSFQK

ERRFSFQKKK**K**KVANFDPGTF

EVCGACFETR**K**GLSSHARSHL

APIDLLYELV**K**QKGLPDAHLG

AHLGLPPGLA**K**KSSSLKEVVA

APRPGLLSLA**K**PLDAPAVNKA

AIKSPPGFSA**K**GLGHPPSSPL

GHPPSSPLLK**K**TPLALAGSPT

GSPTPKNPED**K**SPQLSLSPRP

LSLSPRPASP**K**AQWPQSEDEG

SPIDTLREIL**K**RRTQSRPGGP

GPPNPPGPSP**K**ALAKMMGGAG

PSDLHISPLA**K**KLPPPPGSPL

PTASPPPTAR**K**MFPGLAAPSL

PGLAAPSLPK**K**LKPEQIRVEI

TLREILKKKS**K**PCLIKKEPPA

PLSPLAGRPG**K**PGAGPAQVPR

ELSLTPITGA**K**PSATGYLGSV

ATGYLGSVAA**K**RPLQEDRLLP

QEDRLLPAEV**K**AKTYIQTELP

YIQTELPFKA**K**TLHEKTSHSS

SPIETLSEWI**K**HRPQKVGAYR

SYIQGGRPFT**K**KFRSAGHGRD

GGEDTNDLQQ**K**LEEVRQPPPR

VPRPPQTSLV**K**FVGNIYTLKC

QRHILEMNFS**K**ADPPPEESQA

CVAKTAMMAT**K**AVCVLKGDGP

PVQGIINFEQ**K**ESNGPVKVWG

NGPVKVWGSI**K**GLTEGLHGFH

VGDLGNVTAD**K**DGVADVSIED

IIGRTLVVHE**K**ADDLGKGGNE

LGKGGNEEST**K**TGNAGSRLAC

VSAGPHFNPF**K**KTHGAPTDEV

NVKTDENGVA**K**GSFKDSLIKL

AGAYSRAGVV**K**TMTGGRAQSI

GRAQSIGRRG**K**VEQLSPEEEE

EKRRIRRERN**K**MAAAKCRNRR

QAETDQLEDE**K**SALQTEIANL

EIANLLKEKE**K**LEFILAAHRP

FILAAHRPAC**K**IPDDLGFPEE

TLPLLNDPEP**K**PSVEPVKSIS

SFPSCAAAHR**K**GSSSNEPSSD

SPTRITRLQE**K**EDLQELNDRL

EVVSREVSGI**K**AAYEAELGDA

DARKTLDSVA**K**ERARLQLELS

LELSKVREEF**K**ELKARNTKKE

GDLIAAQARL**K**DLEALLNSKE

EAALSTALSE**K**RTLEGELHDL

ELHDLRGQVA**K**LEAALGEAKK

NIYSEELRET**K**RRHETRLVEI

ETRLVEIDNG**K**QREFESRLAD

AQHEDQVEQY**K**KELEKTYSAK

SLSAQLSQLQ**K**QLAAKEAKLR

RDTSRRLLAE**K**EREMAEMRAR

VAVEEVDEEG**K**FVRLRNKSNE

EDQSMGNWQI**K**RQNGDDPLLT

THSPPTDLVW**K**AQNTWGCGNS

NSTGEEVAMR**K**LVRSVTVVED

LCGTCGQPAD**K**ASASGSGAQV

ASRKHRMMRH**K**RSAKRTKRAS

TKRASATQLY**K**TCKQAGTCPP

GLYSRTTQQV**K**VVDPAFVTTP

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RTRSGKSIGA**K**VHYYYDLSTI

YLHPSYYMLR**K**RRKRLPYFFS

GKDNAMMAND**K**GSNWDSGLGC

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GEEQILNLKR**K**VLGSSQNSSG

SGSEASETPV**K**RRKSGAKRRL

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NATVFKLGLF**K**SLFLCSFHDI

CSFHDITRLF**K**NDKTTNQQWV

VFFEASFELL**K**KQCSFLQMQK

AVYLICFNTA**K**SRETVRNLMA

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TTLNESLQTE**K**FDFGTMVQWA

GTMVQWAYDH**K**YAEESKIAYE

RAFLATNSQA**K**HVKDCATMVR

TQALSMPAYI**K**ARCKLATGEG

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IELITFINAL**K**LWLKGIPKKN

LAFIGPPNTG**K**SMLCNSLIHF

GGSVLSFANH**K**SHFWLASLAD

QPFNITDADW**K**SFFVRLWGRL

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WQRDQFLSQV**K**IPKTITVSTG

PVAAPARRTR**K**PQQPESLEEC

LEECDSELEI**K**RYKNRVASRK

NRVASRKCRA**K**FKQLLQHYRE

LQHYREVAAA**K**SSENDRLRLL

GDKKPRMMRP**K**KDGLEDFLRL

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GSVEITLRSY**K**ICKAFINEAK

IPATIGTAMY**K**LLKHSRVRAY

HSRVRAYTYS**K**VLGVDRAAIM

VDRAAIMASG**K**QVVEHLNRME

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GVLPACLLST**K**SKAVETPILV

ESLPSPTMPL**K**PGAQSADCGD

RAEAPRLRAP**K**SRRTSRPNRG

DERPIFPHPS**K**PTFLPPVKRK

RDSREGMFLP**K**PEAGSAISDV

VFEGREVCQP**K**RIRPFHPPGS

REMADTVIPQ**K**EEAAICGQMD

RPECITFQQI**K**DNCANELDLL

CANELDLLAQ**K**YSIEQLTTYW

DFEEAIRVYA**K**VALRPDCKYK

LRPDCKYKIS**K**LVNIRNCCYI

VRGCAFYCCW**K**GVVCRPKSRA

VCRPKSRASI**K**KCLFERCTLG

ASDCGCFMLV**K**SVAVIKHNMV

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LKREITFHGA**K**EISLSYSAGA

NRMVLASTTA**K**AMEQMAGSSE

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KEAQANLLTA**K**HGMTLRESFE

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LETENRRLES**K**IREHLEKKGP

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SGLTVEVDAP**K**SQDLAKIMAD

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LDMDSIIAEV**K**AQYEDIANRS

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STEINSALVL**K**VSWITFLLAK

LMLCVLDYFI**K**LSPPMLLKEP

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FYNSVFMQRL**K**TNILQYASTR

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KISEGLPTPT**K**MTPRSRILVS

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FGNHSEDIQT**K**LDKKLGPEYI

FGYNGWSTEV**K**SVVIDFLDER

VIDFLDERQG**K**FSIGCTAIVR

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IHAEEHTIEV**K**NDGKGIPIEI

GKGIPIEIHN**K**ENIYIPEMIF

LTSSNYDDDE**K**KVTGGRNGYG

LETADLNVGQ**K**YVQKWENNMS

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NFKNYVELYL**K**SLEKKRQLDN

QLDNGEDGAA**K**SDIPTILYER

HVNYITDQIV**K**KISEILKKKK

ILKKKKKKSV**K**SFQIKNNMFI

IENPAFTSQT**K**EQLTTRVKDF

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TRKSRITNYP**K**LEDANKAGTK

ANKAGTKEGY**K**CTLVLTEGDS

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VREASADQIL**K**NAEIQAIKKI

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TDQDHDGSHI**K**GLIINFLESS

FLLEFITPII**K**VSITKPTKNT

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DKDYIDLAFS**K**KKADDRKEWL

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DMEEQHDDNI**K**FIITLSPEEM

LSPEEMAKTR**K**IGFYERFKLI

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MSERLQWEVE**K**YSFQVKFIKM

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LENLGFPRFN**K**EGKPYYGSPN

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IDIRNDYQQL**K**RLENCTVIEG

EGYLHILLIS**K**AEDYRSYRFP

FPNLTVIRGW**K**LFYNYALVIF

ALVIFEMTNL**K**DIGLYNLRNI

NITRGAIRIE**K**NADLCYLSTV

AVSNNYIVGN**K**PPKECGDLCP

GDLCPGTMEE**K**PMCEKTTINN

YRCWTTNRCQ**K**MCPSTCGKRA

YCIPCEGPCP**K**VCEEEKKTKT

AQMLQGCTIF**K**GNLLINIRRG

GLIEVVTGYV**K**IRHSHALVSL

SHALVSLSFL**K**NLRLILGEEQ

WDWDHRNLTI**K**AGKMYFAFNP

IYRMEEVTGT**K**GRQSKGDINT

VLHFTSTTTS**K**NRIIITWHRY

RDLISFTVYY**K**EAPFKNVTEY

NMVDVDLPPN**K**DVEPGILLHG

KPWTQYAVYV**K**AVTLTMVEND

MVENDHIRGA**K**SEILYIRTNA

ASNSSSQLIV**K**WNPPSLPNGN

GYLYRHNYCS**K**DKIPIRKYAD

IDIEEVTENP**K**TEVCGGEKGP

GEKGPCCACP**K**TEAEKQAEKE

QAEKEEAEYR**K**VFENFLHNSI

NSIFVPRPER**K**RRDVMQVANT

YPFFESRVDN**K**ERTVISNLRP

DIHSCNHEAE**K**LGCSASNFVF

EPRPENSIFL**K**WPEPENPNGL

PNGLILMYEI**K**YGSQVEDQRE

RECVSRQEYR**K**YGGAKLNRLN

TDPVFFYVQA**K**TGYENFIHLI

LVIMLYVFHR**K**RNNSRLGNGV

VPDEWEVARE**K**ITMSRELGQG

SFGMVYEGVA**K**GVVKDEPETR

KDEPETRVAI**K**TVNEAASMRE

IMELMTRGDL**K**SYLRSLRPEM

NPVLAPPSLS**K**MIQMAGEIAD

RDIYETDYYR**K**GGKGLLPVRW

PVRWMSPESL**K**DGVFTTYSDV

RFVMEGGLLD**K**PDNCPDMLFE

LMRMCWQYNP**K**MRPSFLEIIS

PSFLEIISSI**K**EEMEPGFREV

EVSFYYSEEN**K**LPEPEELDLE

LPLPDRHSGH**K**AENGPGPGVL

QPYAHMNGGR**K**NERALPLPQS

PLFSSPRSAV**K**LTKKRALSIS

LGFPAQMNHQ**K**GPSPSFGVQP

DGREDLEREE**K**REPESVYETD

INSEHIHGER**K**EFVCHWGGCS

GGCSRELRPF**K**AQYMLVVHMR

VVHMRRHTGE**K**PHKCTFEGCR

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PYMCEHEGCS**K**AFSNASDRAK

KHQNRTHSNE**K**PYVCKLPGCT

KRYTDPSSLR**K**HVKTVHGPDA

TVHGPDAHVT**K**RHRGDGPLPR

RAPSISTVEP**K**REREGGPIRE

SRLTVPEGAM**K**PQPSPGAQSS

QLRPIGTRGL**K**LPSLSHTGTT

RPAPARVQRF**K**SLGCVHTPPT

PSHSGLYPGP**K**ALGGTYSQCP

DSPTHSTGQL**K**AQLVCNYVQS

PAQEPSYQSP**K**FLGGSQVSPS

GGSQVSPSRA**K**APVNTYGPGF

PGFGPNLPNH**K**SGSYPTPSPC

PPLPTCYGPL**K**VGGTNPSCGH

HYGKTEMMET**K**GYHSLPEGLD

IPNNSTQGSS**K**EKQELLPCLQ

QNQQGSMSPA**K**IYQNVEQLVK

QNVEQLVKFY**K**GNGHRPSTLS

VNGGVMRAIV**K**SPIMCHEKSP

SPLSSPLSSM**K**SSISSPPSHC

ISSPPSHCSV**K**SPVSSPNNVT

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TKHSCSGTSF**K**GNPTVNPFPF

DGSYFSFMDD**K**DYYSLSGILG

PPVNTLVESW**K**SHGDLSSRRS

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EGECQRYKPF**K**QLHNRRLLWH

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KCSTRTDVSE**K**AVASSTTSNE

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SLTPAQQYRL**K**AKYAAATGGP

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NPPAMATSAE**K**RSLVLQNYTR

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SEIDRENVKS**K**DEPVSKAVES

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RCTSDQLHIL**K**VLGILPFNAP

FPQNGSVLPA**K**SSLAQLKETG

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MYENYIVPED**K**REMWMACIKE

ACIKELHDVS**K**GAANKLGGAL

ANKLGGALQA**K**ARAKKDELRR

MCYRNIEFFT**K**NSAFPKTTNG

SPDEIMAYAQ**K**IFKILDEERD

TCVETMCNEY**K**VTSDACMMTM

VLEETSVMLA**K**RPLITKPEVI

ITKPEVISVM**K**RRIEEICMKV

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ESVDSVTDSQ**K**RREILSRRPS

EILSRRPSYR**K**ILNDLSSDAP

APGVPRIEEE**K**SEEETSAPAI

NRVAVLENQN**K**TLIEELKALK

LKALKDLYCH**K**SDSKHCYLDK

MTASVSNTQN**K**LNELLDAIRQ

EANTYRLQNQ**K**DYDFKMNQQL

TVYELELTHR**K**MKDAYEEEIK

DAYEEEIKHL**K**LGLEQRDHQI

NTAINGSPTS**K**ETTTLPSVKA

PSVKAPESTL**K**ETEPENNNTS

VPYNQRANHS**K**PIPPFLLDLD

LDSQSVPDAL**K**KQTNDYYILY

LPREIDVELH**K**SLDHTSVVCC

DGEYLATGCN**K**TTQVYRVSDG

TAMTSAAELA**K**DVENLNTSSS

LIRIWDIENR**K**IVMILQGHEQ

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DSENESGTGH**K**DSVYSVVFTR

VVSGSLDRSV**K**LWNLQNANNK

LQNANNKSDS**K**TPNSGTCEVT

GTCEVTYIGH**K**DFVLSVATTQ

QNDEYILSGS**K**DRGVLFWDKK

NVFATGSGDC**K**ARIWKYKKIA

FTNEDHLAVH**K**HKHEMTLKFG

DQTPTPTRFL**K**NCEEVGLFNE

ELASSFEHEF**K**KAADEDEKKA

EKKARSRTVA**K**KLVAAAGPLD

PASSPCSPPL**K**EKEVTPKPVL

PSGHPIPSEA**K**MRLKATLTHQ

NRAAASRCRQ**K**RKLWVSSLEK

AQLKQLLLAH**K**DCPVTALQKK

KKTQGYLESP**K**ESSEPTGSPA

IGAMMAGIAA**K**LAKDREAAEG

EGLGSHDRAI**K**YLNQDYEALR

FPAIPSALGF**K**ELGPYSSKTR

YSSKTRGIEW**K**RPTEICADPQ

EVVVDDRLPT**K**DGELLFVHSA

GSEFWSALLE**K**AYAKINGCYE

TGGIAEWYEL**K**KPPPNLFKII

LFKIIQKALQ**K**GSLLGCSIDI

AADSEAITFQ**K**LVKGHAYSVT

EEVESNGSLQ**K**LIRIRNPWGE

TPDTLTSDTY**K**KWKLTKMDGN

GCTFLVGLIQ**K**HRRRQRKMGE

LSGQTNIHLS**K**NFFLTNRARE

INLREVLNRF**K**LPPGEYILVP

ILVPSTFEPN**K**DGDFCIRVFS

DFCIRVFSEK**K**ADYQAVDDEI

LQTILRRVLA**K**RQDIKSDGFS

KSDGFSIETC**K**IMVDMLDSDG

VDMLDSDGSG**K**LGLKEFYILW

EFYILWTKIQ**K**YQKIYREIDV

SGTMNSYEMR**K**ALEEAGFKMP

RCLVRLETLF**K**IFKQLDPENT

LPLPPPPPAF**K**SMEVANFYYE

ADCLAAAYGG**K**AAPAAPPAAR

SDLFSDDYGG**K**NCKKPAEYGY

YVSLGRLGAA**K**GALHPGCFAP

PGFEPADCKR**K**EEAGAPGGGA

PPGTPSPADA**K**APPTACYAGA

AGAAPAPSQV**K**SKAKKTVDKH

KTVDKHSDEY**K**IRRERNNIAV

NNIAVRKSRD**K**AKMRNLETQH

ELTAENERLQ**K**KVEQLSRELS

RELSTLRNLF**K**QLPEPLLASS

GGSRAGPLSG**K**KFGNPGEKLV

AQEVETYRRS**K**EITVRGHNCP

MVGVAQTGSG**K**TLSYLLPAIV

AAEYCRACRL**K**STCIYGGAPK

GRLIDFLECG**K**TNLRRTTYLV

LDMGFEPQIR**K**IVDQIRPDRQ

QTLMWSATWP**K**EVRQLAEDFL

QIVDVCHDVE**K**DEKLIRLMEE

IRLMEEIMSE**K**ENKTIVFVET

TKRRCDELTR**K**MRRDGWPAMG

GWPAMGIHGD**K**SQQERDWVLN

QERDWVLNEF**K**HGKAPILIAT

ASRGLDVEDV**K**FVINYDYPNS

HRIGRTARST**K**TGTAYTFFTP

AYTFFTPNNI**K**QVSDLISVLR

LREANQAINP**K**LLQLVEDRGS

SGRSRGRGGM**K**DDRRDRYSAG

NYDRGYSSLL**K**RDFGAKTQNG

EKEMEMMEME**K**EFEQIDKSGS

EASDFPCRVA**K**LPKNKNRNRY

DVSPFDHSRI**K**LHQEDNDYIN

DNDYINASLI**K**MEEAQRSYIL

GHFWEMVWEQ**K**SRGVVMLNRV

GVVMLNRVME**K**GSLKCAQYWP

CAQYWPQKEE**K**EMIFEDTNLK

LKLTLISEDI**K**SYYTVRQLEL

SPASFLNFLF**K**VRESGSLSPE

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DIKKVLLEMR**K**FRMGLIQTAD

FSYLAVIEGA**K**FIMGDSSVQD

MGDSSVQDQW**K**ELSHEDLEPP

EHIPPPPRPP**K**RILEPHNGKC

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GELCEDTITY**K**CPLLRQNEPE

CTTTGEHRRE**K**RSVALVPHVG

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LITVNPIVTE**K**DSPVNIEAEP

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SLGGVFTSIG**K**ALHQVFGAIY

AAFSGVSWTM**K**ILIGVIITWI

MMSLKEDDFG**K**DNSRNIESYT

TGRIFDVYIQ**K**DSYSQSALDD

FELVNTGLGA**K**SDDLKSPSAK

SPSAKATFTD**K**QRKNEVPNIS

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AFLEALRLIM**K**NGTTKIKIRN

GRNELISLYI**K**HKTNEFRTKK

KQISSHIQVW**K**KTIQNKIKDS

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SNEKKIENFI**K**TNAASQAKTP

SQAKTPLIYA**K**HIYENIDGYK

NIDGYKCVPS**K**RPLEQLSPTE

TELHQGDRPN**K**ASFSNKKAIL

SNKKAILESA**K**KIEIEQRKII

QLQSRPVPYY**K**NNGMPYSLSK

SWTSRDGGEF**K**LVDAEEVARL

EEVARLWGLR**K**NKTNMNYDKL

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RKVSGQKFVY**K**FVSYPEVAGC

HAAPGDTVSG**K**PGTPKGAGMA

GERGFVPETT**K**AEPEVPPQEG

ASSPEISQPQ**K**GRKPRDLELP

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LFHKTDMMDT**K**HFLPLDFSTQ

HPSGNMASFT**K**HICAICGDRS

CAICGDRSSG**K**HYGVYSCEGC

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CRDNKDCLID**K**RQRNRCQYCR

EAVQEERQRG**K**DRNENEVEST

ILEAELAVEP**K**TETYVEANMG

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ASFSHRSIAV**K**DGILLATGLH

FDRVLTELVS**K**MRDMQMDKTE

RAIVLFNPDS**K**GLSNPAEVEA

NPAEVEALRE**K**VYASLEAYCK

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GDVAMVVEED**K**HPMRDDPCIE

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QERECNYLAF**K**KSEEETRGAI

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FAHKSSSEPR**K**ATVRAGVRFY

VRFYPWLCYS**K**DRKTQICKFC

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LDVLPTLLIY**K**GGELISNFIS

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NQTTPYNFIA**K**NATKNGNIFV

SPMMPSGHND**K**NANQESVEEA

NQESVEEAVL**K**YVGVGLDHQN

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DNGNNHENSQ**K**KRKNNNDDDD

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PCAMMACPLE**K**ALDVMVSTFH

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RCDDDQMSND**K**ERFARSDDEQ

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VLSVMFRFRS**K**NQEWLWMRTS

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WQFLLELLTD**K**SCQSFISWTG

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QCLVRSFIDS**K**FYSIARKDIK

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SESEREEIEL**K**SPRGRRRIAR

RRIARDVNSI**K**KEIEEEKTED

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NDDKLDEENP**K**ISAHILKEND

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NEQIVQIFGN**K**MEKTEEVKKE

KTEEVKKEAE**K**SPKGKGRRSK

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KHPNSSPRTY**K**WSFQLNELDN

STERISFLQE**K**LQEIRKYYMS

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SVREFLDGTR**K**TNNIFCSNPN

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ALLDSSHSEL**K**CDISAEIQQR

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AVRTDGFDEF**K**VRLQDLSSCI

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VDLPEEAERV**K**AQVQALGLAE

HPVPVYAFSI**K**GPSYGEDVSN

EDVSNTTTAQ**K**RKCSQTQCPR

SPEQPRPSTS**K**AVSPPHLDGP

EDRPLVFFDL**K**IDNETQKISQ

SQLAAVNRES**K**FRVVIQPEAF

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RERVPGASSF**K**LKNLAQTYLA

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ASTEGANNMP**K**QVEVRMHDSH

HDSHLSSEEP**K**HRNLGMRMCD

LGMRMCDKLG**K**NLLLSLTVFG

FPGDILMRML**K**MLILPLIISS

LITGLSGLDA**K**ASGRLGTRAM

LVLAIHPGNP**K**LKKQLGPGKK

ACFQQIQTVT**K**KVLVAPPSEE

APPSEEANTT**K**AVISLLNETM

ETMNEAPEET**K**IVIKKGLEFK

FFIAFGIAMG**K**MGEQAKLMVE

FFNILNEIVM**K**LVIMIMWYSP

PLGIACLICG**K**IIAIKDLEVV

LPLIYFVVTR**K**NPFSFFAGIF

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FGAGIVYHLS**K**SELDTIDSQH

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AHNSVVIDEC**K**VTLAANGKSA

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RVFKKSSPNC**K**LTVYLGKRDF

GKRDFVDHLD**K**VDPVDGVVLV

GVVLVDPDYL**K**DRKVFVTLTC

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PTRLQERLLR**K**LGQHAHPFFF

TLQPGPEDTG**K**ACGVDFEIRA

VDFEIRAFCA**K**SLEEKSHKRN

KRNSVRLVIR**K**VQFAPEKPGP

RSLHLEASLD**K**ELYYHGEPLN

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DICLFSTAQY**K**CPVAQVEQDD

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DTNLASSTIV**K**EGANKEVLGI

VLGILVSYRV**K**VKLVVSRGGD

VELPFVLMHP**K**PHDHIALPRP

MAADQMGDLA**K**QHPEDILSLL

LSRVYPFLLV**K**KWETRVTAAR

DHHLSSLSDW**K**LNEILKSGKV

SSMNDYNVLG**K**ADDNIRKQAK

IRKQAKTDDI**K**QETSMLNASD

LNASDKANEN**K**SNANKKSARM

SARMLAMARR**K**KKMSAKNTPK

PVDITESSVS**K**TLLNGKNMTN

TSPTSNQLNP**K**LEITEQADES

GAALGLRELV**K**KHAYGVSRVK

LIHLDSTLSI**K**IFNCLEQLVL

QDPLQTGLPN**K**IWEATHGGLL

LLGIRYFVSI**K**TNFLFAHGLL

ILTPITSEFV**K**LNNSTIEILV

SVGSIMDLLA**K**LCDHQEVLDI

HQEVLDILKN**K**ALEHPSEWSF

SEWSFKSLVP**K**LYPFLRHSIS

LNLLIAFLSI**K**DDSTKNWLNG

DVYVALLEHY**K**VKHTEKTLDH

TEKTLDHVFS**K**HLQPILHLLN

LHLLNTPVGE**K**GKNYAMESQY

NYAMESQYIL**K**PSQHYQLHPE

TTTDSDIPIP**K**NNEHINIDAP

VILNTRIMGA**K**AFALTLSMFQ

VSQFCSSWLQ**K**HPEGEKLPSF

VSEIFSPVMN**K**QLLNRDEFPV

FVDVGMLPQY**K**LPNVAIVVQG

PHAFGVETAE**K**VYGEYYDKMF

KMFKSMNNSY**K**LLAKKPLEDS

HRVLMAINSA**K**ESAKLRTGSI

SILLFDGLPL**K**LNPIIRSLMD

PIIRSLMDSV**K**EERNEKLQTM

HLIQQLLENN**K**VNVSGKIVKN

VPDFSVNAEY**K**EKILTLIKES

IAAQDDINLA**K**MSEEAQLKRK

LKRKGGLITL**K**ILFEVLGPSI

FEVLGPSILQ**K**LPQLRSILFD

LSDHENEEAS**K**VDNEQGQKIV

SAARTFADLA**K**ISSVEVMAYT

LATTTFASII**K**LVPLEAGIAD

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LPIAIKATLR**K**YQQDGVNWLA

DGVNWLAFLN**K**YHLHGILCDD

GILCDDMGLG**K**TLQTICIIAS

CIIASDQYLR**K**EDYEKTRSVE

NEFDQYAPFL**K**VVVYAGGPTV

VARNDLAVLN**K**TEYNYCVLDE

YCVLDEGHII**K**NSQSKLAKAV

FLMPGFLGTE**K**MFQERFAKPI

AKPIAASRNS**K**TSSKEQEAGV

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KEDVLSDLPP**K**IIQDYYCELG

DYYCELGDLQ**K**QLYMDFTKKQ

FTKKQKNVVE**K**DIENSEIADG

HIFQALQYMR**K**LCNHPALVLS

PQLAQVQDYL**K**QTGLDLHDII

LDLHDIINAP**K**LSALRTLLFE

ECGIGEEDID**K**KASQDQNFPI

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LDMVENDLFK**K**YMPSVTYMRL

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DIANETGLTG**K**AKEALGELKE

EEEYNLDTFI**K**TLRLTKIFTD

GMGITSSQSE**K**GQVLPDQPEI

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LLCVGPDGIG**K**TTLMKTLFNN

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HENQSQEQRH**K**VKIKSYESVI

YESVIEENGV**K**LNLNVIDTEG

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YFIEPTGHYL**K**PLDLKFMQSV

ILTDEEILSF**K**KTIMNQLIQS

QLIQSNIELF**K**PPIYSNDDAE

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FMEELKERTS**K**ILYENYRSSK

YENYRSSKLA**K**LGIKQDNSVF

SVFKEFDPIS**K**QQEEKTLHEA

TELFARHKEM**K**EKLTKQLKAL

LTKQLKALED**K**KKQLELSINS

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GIIDASSALR**K**RKHLKRGITF

ESRVRRNPRF**K**DGRVHCCLYL

YLINPTGHGL**K**EIDVEFIRQL

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ALLISHLHDL**K**NYTHEILYER

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EERVQQELLL**K**RQELLQREKE

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HENPNANIDT**K**YLESVTKLHT

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LLQDIPILRG**K**SLTTYPREET

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LDTTQLNELL**K**QQSFEYVQFQ

NFQILLSVFN**K**IFEKLEMKKS

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CVHSMNKSGN**K**SWRANCEALY

ANCEALYKER**K**SIVEFYIYLV

LVNHESLDRY**K**AVDICEKLRD

QNEGSFSRLA**K**FLRKWRHDHQ

VASVIPDLVN**K**KRLGKDDILL

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LLDLLEDEFS**K**DDQDSDKYNR

FDVIEESTQI**K**TQLEPWLTNL

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HTETTEPKVP**K**FSPAEDILSR

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NITTLQTILQ**K**KYELIMKDYR

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ENSTTVALKG**K**KLGKALLQKM

GKALLQKMNI**K**PATSPNSSNA

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CNDRRTPSTE**K**KVDLNADPLC

DLNADPLCER**K**EWNKQKLPCS

PWITLNSSIQ**K**VNEWFSRSDE

SHDGESESNA**K**VADVLDVLNE

EVDEYSGSSE**K**IDLLASDPHE

LICKSERVHS**K**SVESNIEDKI

ESNIEDKIFG**K**TYRKKASLPN

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PGSNCKHPEI**K**KQEYEEVVQT

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SESQGVGLSD**K**ELVSDDEERG

LRNPEQSTSE**K**AVLTSQKSSE

SQNPEGLSAD**K**FEVSADSSTS

VSADSSTSKN**K**EPGVERSSPS

RNYPSQEELI**K**VVDVEEQQLE

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NAMEESVSRE**K**PELTASTERV

LTPEEFMLVY**K**FARKHHITLT

ITEETTHVVM**K**TDAEFVCERT

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VSYFWVTQSI**K**ERKMLNEHDF

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SNCSVTSICE**K**PQEVCVAVWR

VCVAVWRKND**K**NITLETVCHD

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FYCYRVHRQQ**K**LSPSWESSKP

LPIELDTLVG**K**GRFAEVYKAK

YEEYSSWKTE**K**DIFSDINLKH

ILQFLTAEER**K**TEMGKQYWLI

QYWLITAFHA**K**GNLQEYLTRH

RHVISWEDLR**K**LGSSLARGIA

HSDHTPCGRP**K**MPIVHRDLKS

RDLKSSNILV**K**NDLTCCLCDF

RMNLENMESF**K**QTDVYSMALV

TSRCNAVGEV**K**DYEPPFGSKV

VREHPCVESM**K**DNVLRDRGRP

RLSGRSCSQE**K**IPEDGSLNTT

EDLEDHPNVQ**K**DLERLTQERI

YSRVGGKKMM**K**KGGVRSYRRS

VRSYRRSSTS**K**RSVIDDDSEP

DSEPELPSMT**K**EAIASHKADS

DNEVESDHES**K**SSSKKLKENA

EEEEDEYVVE**K**VLKHRMARKG

WSSEADCSGC**K**QLIEAYWNEH

NEHGGRPEPS**K**RKRTARPKKP

RTARPKKPEA**K**EPSPKSRKTD

SPKSRKTDED**K**HDKDSNEKIE

SNEKIEDVNE**K**TIKFADKSQE

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IAETPSNVTP**K**KKPSPEVPKL

KLPDNRELTV**K**QVENYDSWED

LVSSIDTIER**K**DDGTLEIYLT

ISHHPSTITN**K**KCPQKMLQFY

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GTGIPTGGIN**K**NKRTRSTVAG

TNGTALALND**K**SNSRNSVSRL

SNRDPRPLRD**K**NFQSAIQEEI

AIQEEIYDYL**K**KNKFDIETNH

DIETNHPISI**K**FLKQPTQKGF

PTQKGFIIIF**K**WLYLRLDPGY

LRLDPGYGFT**K**SIENEIYQIL

LRYPFLESIN**K**SQISAVGGSN

ISAVGGSNWH**K**FLGMLHWMVR

QEITILSQPL**K**TLDEQDQRQE

RQERYELMVE**K**LLIDYFTESY

YFTESYKSFL**K**LEDNYEPSMQ

DNYEPSMQEL**K**LGFEKFVHII

LQTQNDNLYE**K**YQEVMKISQK

ISQKIKTTRE**K**WKALKSDSNK

NKYENYVNAM**K**QKSQEWPGKL

QEWPGKLEKM**K**SECELKEEEI

ALQSNISELH**K**ILRKKGISTE

QFELQNQERE**K**LTRELDKINI

ELDKINIQSD**K**LTSSIKSRKL

SRKLEAEGIF**K**SLLDTLRQYD

LGHNVNDSSL**K**INISENLLDR

EGISYEQLFP**K**GSGINESIKK

INESIKKSIL**K**LNDEIQERIK

EIQERIKTIE**K**DNITLEKDIK

ITLEKDIKNL**K**HDINEKTQIN

AQRIEIEKME**K**KINDSNLLMK

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QVIHVIDITS**K**FKINIQSSLE

DQQVPFMVPG**K**SRSEECRGRP

ECRGRPVIDR**K**RKFLDTDLAH

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RYYYEKGIMQ**K**VAGERYVYKF

WSRDDVAQWL**K**WAENEFSLRP

VLYELLQHIL**K**QRKPRILFSP

HCPASSESHP**K**PSSPRQESTR

ILNPRHSVDF**K**QSRLSEDGLH

LSEDGLHREG**K**PINLSHREDL

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VRTVIRFVTN**K**TDKHVTRPVV

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IRQYLAQWLE**K**QDWEHAANDV

NNFLLQHNIR**K**SKRNLQDNFQ

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CSHEMAAGIL**K**QALAMGMMTE

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TVSSLQCNRH**K**PWRFGTRFMS

RFGTRFMSLI**K**EAHWEGLTGR

EGLTGRITFN**K**TNGLRTDFDL

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VPDRDVRVSV**K**ALALSCVGAA

VALHPESFFS**K**LYKVPLDTTE

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YGAEVISVLQ**K**YSEWTSPAED

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RKKMPASQRS**K**RRKTASSGSK

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TSQATSGANS**K**LGIMAPPKPI

PPKPINRPFL**K**PSYAFSFAYS

NSREQNSKMM**K**SNQERSNECL

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TCQMDAFMRR**K**CQQCRLRKCK

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QLVAAQLQCN**K**RSFSDQPKVT

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DQLRFPRMLM**K**LVSLRTLSSV

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SEESSHYSTE**K**ESEKTAESQT

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GNSCEFRLLS**K**EGPAHEPKFQ

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LDNLESMMPN**K**VRKIGELVRY

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PHEPKFVYQA**K**VGGRWFPAVC

AVCAHSKKQG**K**QEAADAALRV

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VSLGTGNRCV**K**GDSLSLKGET

FIRFLYSELM**K**YNSQTAKDSI

TAKDSIFEPA**K**GGEKLQIKKT

APCGDGALFD**K**SCSDRAMEST

SRHYPVFENP**K**QGKLRTKVEN

ERLRTMSCSD**K**ILRWNVLGLQ

LTHFLQPIYL**K**SVTLGYLFSQ

LRHPFIVNHP**K**VGRVSIYDSK

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HQQELLEHQR**K**LERHRQEQEL

QHREQKLQQL**K**NKEKGKESAV

KESAVASTEV**K**MKLQEFVLNK

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NHPVLGMYDA**K**DDFPLRKTAS

LRKTASEPNL**K**LRSRLKQKVA

ERRSSPLLRR**K**DGPVVTALKK

GADRVSPSIH**K**LRQHRPLGRT

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QFQQQQLQMN**K**IIPKPSEPAR

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LYGTNPLNRQ**K**LDSKKLLGSL

AVGCVVELVF**K**VATGELKNGF

CYFNSVAVAA**K**LLQQRLSVSK

LSARCFGYLT**K**QLMGLAGGRI

LGNELDPLPE**K**VLQQRPNANA

PNANAVRSME**K**VMEIHSKYWR

TAMASLSVGV**K**PAEKRPDEEP

EHTDLEAQIV**K**DIHCKEIDLV

VGTYSFDGVW**K**VSYTTFTVSK

CHIWAVVPCI**K**SYLIEIQCIS

AALGQVCSSI**K**VVLRKEVEKR

FVEMVDNLRG**K**SGQGYYVEMT

QLSSTYRDLR**K**GVYVPYTQGK

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GFYVVFDRAR**K**RIGFAVSACH

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GVIYSTPLPE**K**FFQTPEGLSH

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NHPSVIVQPG**K**RPLPVESPDT

LPVESPDTQR**K**RRIHRCDYDG

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TLPLLRQTST**K**AVQHFYNIKL

HKLFLEMLEA**K**VKAELMELFL

VLRDNIQGIT**K**PAIRRLARRG

IRRLARRGGV**K**RISGLIYEET

LIYEETRGVL**K**VFLENVIRDA

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NYSANVMVDG**K**PVNLGLWDTA

SPASFENVRA**K**WYPEVRHHCP

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ITYPQGLAMA**K**EIGAVKYLEC

ECSALTQRGL**K**TVFDEAIRAV

GRPLPDSTRQ**K**IVELAHSGAR

SIRPRAIGGS**K**PRVATPEVVS

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SDEAQMRLQL**K**RKLQRNRTSF

DVFARERLAA**K**IDLPEARIQV

NRRAKWRREE**K**LRNQRRQASN

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FVKYCVEEEE**K**AAEMHKMKST

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RDQELSLRLQ**K**EEERPLRSTR

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ELRREISYAI**K**NIHGIRTGLF

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THIREREGRT**K**EQVMLLIDIE

NAQQRSNQMN**K**KKTSGNQDEI

GNQDEILVIR**K**GWLTINNIGI

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PEEGISYLTD**K**GCNPTHLADF

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MRQFDHPHIV**K**LIGVITENPV

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NVLVSSNDCV**K**LGDFGLSRYM

SRYMEDSTYY**K**ASKGKLPIKW

CMWEILMHGV**K**PFQGVKNNDV

CPPTLYSLMT**K**CWAYDPSRRP

PSRRPRFTEL**K**AQLSTILEEE

DSGGSDEAPP**K**PSRPGYPSPR

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LVKAVIEMSS**K**IQPAPPEEYV

APPEEYVPMV**K**EVGLALRTLL

STHREIEMAQ**K**LLNSDLGELI

SDLGELINKM**K**LAQQYVMTSL

YVMTSLQQEY**K**KQMLTAAHAL

TAAHALAVDA**K**NLLDVIDQAR

MKTLDMMDLT**K**MGMIQLQNPS

NPSHPTGLLC**K**ANQMRLAGTL

AHRTVLACTS**K**MFEILFHRNS

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EYAYTATLQA**K**AEDLDDLLYA

EIEYLEEQCL**K**MLETIQASDD

DGGAEEEEDR**K**ARYLKNIFIS

SFGLSAMSPT**K**AAVDSLMTIG

ESSISGGMGD**K**VEERGKEGPG

RPEHPAPPPE**K**HLGIYSVLPN

PDNEAVEQHR**K**LHSGMKTYGC

MKTYGCELCG**K**RFLDSLRLRM

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VCDQCGAQFS**K**EDALETHRQT

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NLLYENYRSE**K**LSSVANAEEI

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IRSIKTESSP**K**FLNSPDLPER

RHERILARQQ**K**LEELEAQSAK

LEAQSAKELQ**K**RIQELERKAH

RKAHELKLRE**K**LINQNKLNGS

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RDKAKEEELR**K**GGDPKYAHLN

ALMAHAMEEV**K**KFLVPDMMDD

DDWNGTRPSL**K**APPARPVKGA

TMMTESVGGN**K**LVDFLVNVQS

VQSILNAASV**K**CHVVDESFPA

DESFPAKFFE**K**NPDKIYESYC

KIYESYCKFI**K**NRSNSEGLIR

NSEGLIRNED**K**LVLTTINKRF

EYEPIQGGFY**K**LYHDIKLVCT

QGTRNYQLVD**K**FYKFSSELLL

GIALTQTNNI**K**SRSGKLLSGN

YDDDDATELD**K**IISYDFIKIS

PISQTYQIRT**K**DMDLFSSIIS

SSIISKSNLD**K**RPHELPNTNF

WYALPTTVWL**K**YGNYNSWAPS

LNTNEEGINR**K**QNDENNKNVD

ASANSESTEN**K**EQFIIKLQNL

IENFRNGTPD**K**LVSDSLLKLK

DSLLKLKRLR**K**ERILNKVLKP

PTTEERELYF**K**VKRILKEVIL

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NYTGMGNSTN**K**KDAQSNAARD

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FQKEKIQGEY**K**YTQVGPDHNR

SFIAEMTIYI**K**QLGRRIFARE

RIFAREHGSN**K**KLAAQSCALS

GVVEAYSGLT**K**KKEGETVEPY

PSVPVALNIG**K**LAQFEPSQRQ

ATPEQISMDL**K**NELMYQLEQD

ILQERELLPV**K**KFESEILEAI

VAFERGEEPG**K**SCGYSVRFES

MFCTVGVLLR**K**LEAGIRGISH

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TRLSMSQLNE**K**ETPFELIEAL

PGWNLIYTMQ**K**HLEMNPHFGS

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CFPEPFINEG**K**RLGYIHRNFA

EEAEIRFCEH**K**RLNMATLRMT

MATLRMTWEA**K**VQLKEILINS

FGVYPNVCYH**K**EKRKILTTEG

TTEGRNALIH**K**SSVNCPFSSQ

VNCPFSSQDM**K**YPSPFFVFGE

EKIRTRAISA**K**GMTLVTPLQL

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GQIVLVDDWI**K**LQISHEAAAC

AMEALVVEVT**K**QPAIISQLDP

TRYGDGPRPP**K**MARYDNGSGY

PNPWLNEDLV**K**SLRENLLQHE

RENLLQHEKS**K**TARKSVSPKL

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KATITEEAYQ**K**LASETLEELD

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TQDLRNHLVH**K**LVQAIFPTPD

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RMENLVAYAR**K**VEGDMYESAN

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LEEKRRTRLQ**K**QNMLPNAAGM

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RTRKENKFSA**K**RLPSTRLGTF

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EILIGYLEYV**K**KLGYTTGHIW

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AVSERIVHDY**K**DIFKQATEDR

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GEGEVSGLMR**K**VPRVSLERLD

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ERMRVERERR**K**EQERIHRERE

RRDDAYWPEG**K**RVAMEDRYRA

RDGWGGYGSD**K**RLSEGRGLPP

NKKSGELVAV**K**VFNTTSYLRP

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DDTVQRFAIN**K**EEEILLSDMN

SISEEVMDLA**K**HLPHAFSKLE

ENPRRVSILL**K**DISENLYSLR

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NETMLDFRTS**K**FVLRISRDSY

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EDEEGENEEG**K**PKKKKPKKDS

KKPKKDSIGS**K**SKKQDPNAPP

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DDVLERIMDE**K**TASELKILYG

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GNCVRIFTGH**K**GPIHSLTFSP

IGHGLMVGEL**K**GHTDTVCSLR

DNTVRLWDAI**K**AFEDLETDDF

QELLLGTYMT**K**STPVVHLHFT

TSDPSRAETR**K**RKECPDQLGP

ECPDQLGPSP**K**RNTEKRNREQ

TEKRNREQEN**K**YIEELAELIF

NFNDIDNFNF**K**PDKCAILKET

KETVKQIRQI**K**EQEKAAAANI

AAAANIDEVQ**K**SDVSSTGQGV

VSSTGQGVID**K**DALGPMMLEA

LRYNQEELMN**K**SVYSILHVGD

LHVGDHTEFV**K**NLLPKSIVNG

SHTFNCRMLV**K**PLPDSEEEGH

EGHDNQEAHQ**K**YETMQCFAVS

LICVARRVPM**K**ERPVLPSSES

SFTTRQDLQG**K**ITSLDTSTMR

LDTSTMRAAM**K**PGWEDLVRRC

WEDLVRRCIQ**K**FHAQHEGESV

QHEGESVSYA**K**RHHHEVLRQG

SDGTLVAAQT**K**SKLIRSQTTN

NPDLTGQTMG**K**PLNPISSNSP

SNINFPINGP**K**EQMGMPMGRF

TTPQGSNYAL**K**MNSPSQSSPG

LGSSLASPDL**K**MGNLQNSPVN

PVNMNPPPLS**K**MGSLDSKDCF

AESSCHPGEQ**K**ETNDPNLPPA

ADGQSRLHDS**K**GQTKLLQLLT

PLASSLSDTN**K**DSTGSLPGSG

GSGSTHGTSL**K**EKHKILHRLL

QDSSSPVDLA**K**LTAEATGKDL

ENALLRYLLD**K**DDTKDIGLPE

KDIGLPEITP**K**LERLDSKTDP

RPGAPAGSVD**K**QAIINDLMQL

NSPVTPVGAQ**K**TALRISQSTF

SQDSNIMLEQ**K**APVFPQQYAS

PNQLPGMDMI**K**QEGDTTRKYC

EQLLSDLFAV**K**PAPEARGLKG

YPPHTFGPDR**K**ALGPGIYSSP

AAPGQPLRVL**K**APLATAAPPC

KAPSPAGPLH**K**GKKAVNKDSL

RQIPEAANLI**K**GVGGCSCGGV

SSDPANPDSH**K**RKGSPCDTLA

KKTVDQIQLM**K**RMEQEKSTTD

AITGVESFMT**K**QDTTGKIISI

NDGTMLSAHT**K**CKLCYPQSPD

SPSRLNIQPA**K**AESKDNKEIA

IQSDNSSSDG**K**PLDSGLLHNN

NNDRLSDGDS**K**YSQTSHKLVQ

LRHADIDTSC**K**DVLSCTGTSN

PCNTNPTPMT**K**PTPEEIKLEA

QFDQLLPTLE**K**AAQLPGLCET

MDGAVTSVTI**K**SEILPASLQS

NNTVTAINQS**K**SEDQCISSQL

PTTVEGRNDE**K**ALLEQLVSFL

LEQLVSFLSG**K**DETELAELDR

AELDRALGID**K**LVQGGGLDVL

PSPFQGMVRQ**K**PSLGTMPVQV

PASGYQSPDM**K**AWQQGAIGNN

CNQLSSTDLL**K**TEADGTQQVQ

LNQPGPLGTQ**K**PTSGPQTPQA

SGPQTPQAQQ**K**SLLQQLLTET

GSMANSTAVV**K**IPGTPGAGGR

LSPENNQVLT**K**KKLQDLVREV

TAACQLARHR**K**SSTLEVKDVQ

GFGSEEIRPY**K**KACTTEAHKQ

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SYGNMAIPVS**K**PLSLSGLLSE

LDIGLPAGPP**K**PQEDPESDSG

LEPSSGPVRA**K**PTARGEAGSR

SRDERRALAM**K**IPFPTDKIVN

DKKKISSERR**K**EKSRDAARSR

SRDAARSRRS**K**ESEVFYELAH

LPHNVSSHLD**K**ASVMRLTISY

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DMIYISDNVN**K**YMGLTQFELT

EMLTHRNGLV**K**KGKEQNTQRS

NTQRSFFLRM**K**CTLTSRGRTM

LTSRGRTMNI**K**SATWKVLHCT

TNSNQPQCGY**K**KPPMTCLVLI

PSNIEIPLDS**K**TFLSRHSLDM

YHALDSDHLT**K**THHDMFTKGQ

VTTGQYRMLA**K**RGGYVWVETQ

ETQATVIYNT**K**NSQPQCIVCV

FSLQQTECVL**K**PVESSDMKMT

SDMKMTQLFT**K**VESEDTSSLF

NDVMLPSPNE**K**LQNINLAMSP

MSPLPTAETP**K**PLRSSADPAL

YVDSDMVNEF**K**LELVEKLFAE

EKLFAEDTEA**K**NPFSTQDTDL

TVTKDRMEDI**K**ILIASPSPTH

IASPSPTHIH**K**ETTSATSSPY

SRTASPNRAG**K**GVIEQTEKSH

TTVPEEELNP**K**ILALQNAQRK

DHAATTSLSW**K**RVKGCKSSEQ

KSSEQNGMEQ**K**TIILIPSDLA

GKKYKNIVLL**K**GLEVINDYHF

VINDYHFRMV**K**SLLSNDLKLN

LNLKMREEYD**K**IQIADLMEEK

EKFRGDAGLG**K**LIKIFEDIPT

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LKVKGPALSR**K**RKKEVDATSP

EGAEATPGAQ**K**RKKSTKEKAG

TKEKAGPKGS**K**VSEEQTQPPS

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QVTPRRNVLQ**K**RPVIVKVLST

PFEYETPEME**K**KIMFHATVAT

VATQTQFFHV**K**VLNTSLKEKF

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GPNQTFEVPN**K**IINRAKETLK

KETLKIDILH**K**QASGNIVYGV

NIVYGVFMLH**K**KTVNQKTTIY

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SEMHSFIQIK**K**KTNPRNNDPK

NPRNNDPKSM**K**LPQEQRQLPY

PTTPSSSFFT**K**KSEDTISKMN

MNDFMRMQIL**K**EGSHFPGPFM

SIEDSAQSDL**K**EVMVLNATES

NATESFVYEP**K**EQKKMFHATV

VNADRNMEIP**K**GLIRSASVTP

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FVNGVFEVHK**K**NVRGEFTYYE

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ELRSVIHSHI**K**VIKTRKNKKD

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QHRLPQPPVG**K**GGAGASSSLS

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APALFSRTAS**K**GIFGDHPGHS

RAEDSPEGYE**K**EGLGDRGEKP

TLLTLLQLLP**K**GAGRNPGGVV

GGVVNVGADI**K**KTMEGPVEGR

VPSPVSSEPP**K**AARPPVTPVL

RPPVTPVLLE**K**KSPLGQSQPT

EEYGYIVTDQ**K**PLSLAAGVKL

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CVRQHARQQD**K**ERLAALGPEG

QDLCRQHMAT**K**SLFNRAEGPP

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EDFLVRSFYL**K**NVQTQETRTL

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EQRMAAYYEE**K**GMLELRLCLA

TTDQLERVAL**K**FNEDLQQKLL

STRTASDQAL**K**FRVVELCALI

LYTHLRSGLQ**K**ELQLVTEKSV

EAAYRSLIDE**K**AAIVLTMRRS

SLHEMVIHEL**K**NWRHQQAQAG

SFIAHMLAAV**K**ELMRVRLVTE

HLLEQVQNAQ**K**NLVCSAFIVD

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KGHSITHLGT**K**PFECPVEGCC

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VSTCNRLFTS**K**HSMKAHMVRQ

ALGCLVALPM**K**NLSDDPLALT

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NAGASQSTQR**K**IKEGKMSPPH

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VIYHDLVMTT**K**EYMREVTVID

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VLLEDYHLIE**K**VANFTRERIP

RVVHARGISA**K**GFFEVTHDIS

TMRDIRGFAV**K**FYTREGNFDL

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LIAGEPSFVE**K**EGPLLSESHV

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PASRSSSPGA**K**RRHSCAEALV

ATDSPCGIPS**K**IWKTSPDPTP

DPTPVSTAPS**K**AGLARHIYPT

SILLVPPTWP**K**QLVPAIPICS

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FIGTADERIL**K**PHAFYQVHRI

TAESKVVFME**K**TTDGQQIWEM

LFVEIPEYRN**K**HIRVPVKVNF

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QQTAPSQRAA**K**NGPSDQKEAL

YLDDVNEIIR**K**EFSGPPSRNQ

SPVDHDSLES**K**RPRLEQVSDS

CGDDQNASPS**K**LSKEELIQSM

SMDRVDREIA**K**VEQQILKLKK

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ENIKTNQVMR**K**KLILFFKRRN

LFFKRRNHAR**K**QREQKICQRY

RYDQLMEAWE**K**KVDRIENNPR

RIENNPRRKA**K**ESKTREYYEK

YYEKQFPEIR**K**QREQQERFQR

DGLSEQENNE**K**QMRQLSVIPP

MMFDAEQRRV**K**FINMNGLMED

NMNGLMEDPM**K**VYKDRQFMNV

QFMNVWTDHE**K**EIFKDKFIQH

FGLIASYLER**K**SVPDCVLYYY

PDCVLYYYLT**K**KNENYKALVR

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LPRGSPHSDL**K**ERTVLSGSIM

PIRAFEGAIT**K**GKPYDGITTI

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SGQSAIKHNV**K**SLITGPSKLP

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VLRSTLHEAP**K**AQLSPGLYDD

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PQSVIENVGG**K**IFTFGSYRLG

FGSYRLGVHT**K**GADIDALCVA

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AVEEAFVPVI**K**LCFDGIEIDI

DLDLRDDSLL**K**NLDIRCIRSL

DNFRLTLRAI**K**LWAKRHNIYS

PNAIASTLVH**K**FFLVFSKWEW

KWEWPNPVLL**K**QPEECNLNLP

STRMVMVEEF**K**QGLAITDEIL

LAITDEILLS**K**AEWSKLFEAP

KLFEAPNFFQ**K**YKHYIVLLAS

IVLLASAPTE**K**QRLEWVGLVE

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DELMVHEETV**K**NDEEQMDTHE

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VREPVDLQKK**K**KRKQRSPAKI

TINEDGSLGL**K**TPKSHVCEHC

CSQCDMRFIQ**K**YLLQRHEKIH

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LKKINSKRSL**K**QPLEQSQTIS

ISPLSSYEDS**K**VSKYAFELVD

QVDNLQEGPS**K**PVHSSTNYDD

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LDSQALNVEI**K**SNHDKNVIPD

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ADFLDQVTSQ**K**KAEAQPVHQA

DVYELCEVIG**K**GPFSVVRRCI

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DGADLCFEIV**K**RADAGFVYSE

VKPHCVLLAS**K**ENSAPVKLGG

TPHFMAPEVV**K**REPYGKPVDV

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LFEGIIKGKY**K**MNPRQWSHIS

RQWSHISESA**K**DLVRRMLMLD

VYEALNHPWL**K**ERDRYAYKIH

HLPETVEQLR**K**FNARRKLKGA

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NPPSDAVQRA**K**EVLEEISCYP

ISCYPENNDA**K**ELKRILTQPH

VTRVRLVQFQ**K**NTDEPMGITL

VANQTVEQLQ**K**MLREMRGSIT

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RVGDIIQIIS**K**DDHNWWQGKL

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GAHGVGRRHI**K**NTLITKHPER

YPIPHTTRPP**K**KDEENGKNYY

GSHEDAMYGT**K**LETIRKIHEQ

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TSNCFKDMMD**K**FCNSTFWDLS

QLYSVYRSRT**K**RSSITKFYLA

VQHSRQWCVR**K**NSWFLSLFWI

QFQTLIRALL**K**DSKSNMAYSY

TFSWYDRTVL**K**GYKHPLTLED

EDVWDIDEGF**K**TRSVTSKFEA

VTSKFEAAMT**K**DLQKARQAFQ

ARQAFQRRLQ**K**SQRKPEATLH

KPEATLHGLN**K**KQSQSQDVLV

SQDVLVLEEA**K**KKSEKTTKDY

TKDYPKSWLI**K**SLFKTFHVVI

HVVILKSFIL**K**LIHDLLVFLN

LLVFLNPQLL**K**LLIGFVKSSN

VRTTVMSSIY**K**KALTLSNLAR

TVNLMSVDSQ**K**LMDATNYMQL

LIPVNGVLAT**K**IRNIQVQNMK

IQVQNMKNKD**K**RLKIMNEILS

KIMNEILSGI**K**ILKYFAWEPS

SFQEQVQGIR**K**KELKNLLRFG

VDSANVLNAE**K**AFTSITLFNI

SAIRRVSNFD**K**AVKFSEASFT

ATIQDVNLDI**K**PGQLVAVVGT

QQSWIQNGTI**K**DNILFGSEYN

ILFGSEYNEK**K**YQQVLKACAL

PGGDMAEIGE**K**GINLSGGQKQ

PLSAVDAHVG**K**HIFNKVVGPN

VVGPNGLLAG**K**TRIFVTHGIH

PQVDEIVVLG**K**GTILEKGSYR

EKGSYRDLLD**K**KGVFARNWKT

VFARNWKTFM**K**HSGPEGEATV

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SLKIKNVNVL**K**EKEKEVEGQK

TGKVKFSIYL**K**YLQAVGWWSI

WSIYACRNAS**K**ALHGQLLTNI

RQLRRLDSVT**K**SPIYSHFSET

HQQRFLAWNE**K**QIDINQKCVF

CSALLLVIYR**K**TLTGDVVGFV

VENEAPWVTD**K**RPPADWPRHG

RYRPELDLVL**K**GITCNIKSGE

VGVVGRTGAG**K**SSLTNCLFRI

SLRMNLDPFN**K**YSDEEVWRAL

LLCLGRAVLR**K**SKILVLDEAT

TDSLIQTTIR**K**EFSQCTVITI

HRLHTIMDSD**K**IMVLDNGKIV

SNRGSFYLMA**K**EAGIENVNHT

AVEMMEVAVE**K**AAAAAAPAGG

CHQNIQSRVP**K**LLPCLHSFCQ

ERHIIDNFFV**K**DTTEVPSSTV

FCVECVEWLC**K**TCIRAHQRVK

KFTKDHTVRQ**K**EEVSPEAVGV

SQRPVFCPFH**K**KEQLKLYCET

QLKLYCETCD**K**LTCRDCQLLE

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IDTLITKLME**K**TKYIKYTGNQ

NRIIEINQNQ**K**QVEQDIKVAI

AIFTLMVEIN**K**KGKALLHQLE

ALLHQLESLA**K**DHRMKLMQQQ

QQQQEVAGLS**K**QLEHVMHFSK

INLGSLVIED**K**ESQPQMPKQN

PGGLPSNQLS**K**FPTQISLAQL

RLINFQNHSP**K**PNGPVLPPYP

SQNVPRQTTI**K**PNPLQMAFLA

QMAFLAQQAI**K**QWQISSVQAP

TITSAAGYDG**K**AFSSPMIDLS

STIMLDNIAR**K**DTGVDHAQPR

GSRGSSGSSS**K**PAGADSTHKV

GLHQENSSNG**K**SEWSDASQKS

KSPVHVGETR**K**EDDPNEDWCA

QNGGELLCCE**K**CPKVFHLTCH

WICTFCRDLS**K**PEVDYDCDVP

DCDVPSHHSE**K**RKSEGLTKLT

EGLTKLTPID**K**RKCERLLLFL

RLQEDYCMYT**K**PEDFVADFRL

PDSEVANAGI**K**LESYFEELLK

EELLKNLYPE**K**RFPKVEFRHE

VEFRHEAEDC**K**FSDDSDDDFV

DSDDDFVQPR**K**KRLKSTEDRQ

LKSTEDRQLL**K**LLQRDETSKL

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YAATAGKQSL**K**QDPDKFANPV

DIFTEMAAPL**K**SPSAEACGYS

CSDNDATAVD**K**PTRPDVSVNR

SVNRFYTLDT**K**LWEKSSKGWY

FCIHVQCNAS**K**FHQGALLVAV

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AVTQGFPTEL**K**PGTNQFLTTD

LRFPVSAQAG**K**GELCAVFRAD

MFTGSFMATG**K**MLIAYTPPGG

AYTPPGGPLP**K**DRATAMLGTH

AYIIALAAAQ**K**NFTMKLCKDT

IESSIGDSVS**K**ALTPALPAPT

QVSSHRLDTG**K**VPALQAAEIG

GLVGEIDLPL**K**GTTNPNGYAN

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QYMFVPPGAP**K**PDSRDSLAWP

PTATNPSVFV**K**SSDPPAQVSV

YDGYPTFGEH**K**QEKDLEYGAC

TFSVRTVGSS**K**SEYSLVIRIY

SLVIRIYMRM**K**HVRAWIPRPM

RPMRNQNYLF**K**SNPNYAGDSI

TSRTAITTLG**K**FGQQSGAIYV

TGVYYCNSRR**K**HYPVSFSKPS

AMEQGVSDYI**K**GLGRAFGTGF

DAVSREVEAL**K**NHLIGSEGAV

GSEGAVEKIL**K**NLVKLISALV

GCHGSPWAWI**K**SKTASILGIP

ASILGIPMAQ**K**QSASWLKKFN

KKFNDMANAA**K**GLEWIFNKIS

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TIEALFQGPP**K**FRPIRISLEE

AVVSLVYVIY**K**LFAGFQGAYS

GFQGAYSGAP**K**PILKKPVLRT

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VQYGFLNLSG**K**PTHRTMMYNF

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ASEQGEIQWM**K**PNRETGRLNI

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VGCNPDVFWS**K**LPILLPGSLF

INHTHHVYRN**K**TYCVLGGMPS

NNIIIRTLLI**K**TFKGIDLDEL

PFPIDCLEWG**K**TGKEYGLTMT

EYGLTMTPAD**K**SPCFNEVTWE

EVTWENATFL**K**RGFLPDHQFP

REIHESIRWT**K**DARNTQDHVR

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QHVGCVILPD**K**PMDGNPPLPE

ERTFQITRAD**K**DLLAKPEYDV

VQAWCMLLND**K**VLFRMQWPQY

QVLNLIPEEG**K**GETFEDALAR

LRCPMSGSRI**K**VAGRFLPCVH

VFVELNQRSR**K**WQCPICLKNY

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KNRNGIWEVS**K**PNTNGLSSSN

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LDSRMNQLET**K**VDRILSSQSL

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IPESSNDIAS**K**NVSYSSNVEE

NVEEGASEEF**K**TLVAQSVGTC

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NINLLSSVSS**K**FVSCYAKMLS

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DCNSDKMEVF**K**LDGYPSDYDP

SCSVSSAPLN**K**PTPTSVAVTN

ASATPELSPR**K**KPRKTTRPFK

KTTRPFKVII**K**PPVPPAPIML

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SKRISELDNE**K**VRNIMKDKNT

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VSPSGTILRL**K**GAILRMAFLD

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AMMAAELVEA**K**NMVMSFRVSD

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KELYETRYAK**K**NSEPAPQPHR

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EDQYPPNIAV**K**VNHSYCSVPG

CSVPGYYPSN**K**PGVEPKRPCR

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LLGRVHFDQF**K**EALILILSRT

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RSDLDKAEKL**K**SLMASEVDDH

IERRNEYNLR**K**LDEEYKERIA

EEYKERIAAL**K**NELRKEREQI

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LEEEKTHLQE**K**LRLQHEMELK

GLQSSAWTEE**K**VRGLTQELEQ

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SLEGRYRQEL**K**DLQEQQREEK

REEKSQWEFE**K**DELTQECAEA

QECAEAQELL**K**ETLKREKTTS

VLTQEREMLE**K**TYKEHLNSMV

SLLSDQILEL**K**SSHKRELRER

HDQERQEMMS**K**LLAMENIHKA

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SLQRAHEQAV**K**ENVKMATEIS

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DLLFDVSVLK**K**KLKMLERIPE

MLERIPEASP**K**YKLLYEDVSR

TRYDEALENN**K**ELTAEVFRLQ

AEVFRLQDEL**K**KMEEVTETFL

EVTETFLSLE**K**SYDEVKIENE

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NQRLTEMLCQ**K**EKEPGNSALE

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RCPDLSDFQQ**K**ISSVLSYNEK

SVLSYNEKLL**K**EKEALSEELN

LSEELNSCVD**K**LAKSSLLEHR

SLLEHRIATM**K**QEQKSWEHQS

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VGHGSFGNDG**K**GQANVNSSGV

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NLEVPHELPT**K**QDGSGVKGYE

GDNRTAGRPG**K**ENINDEPVDM

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CIREAVSQVL**K**GYDWTLVPMP

PMPVRVNGSS**K**NKPHVKRPMN

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EGAARMESQL**K**RNSVDRIRCL

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RRRKAQLDNL**K**RDDNVNSSED

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APPSPVAEEL**K**APYPNTAQSS

DPEVAALYFP**K**NGDPGGLPKQ

GGLSDHREIT**K**DAFLEQAVSY

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HLSLLSNVSY**K**KTLRLTSEQL

RLTSEQLKSL**K**LKNGPNDVVF

GTIYLWNWDD**K**VIISDIDGTI

TLGHILPTLG**K**DWTHQGIAKL

THQGIAKLYH**K**VSQNGYKFLY

FSALHREVIE**K**KPEKFKVQCL

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SLNRIFTVNP**K**GELVQEHAKT

EVVDHVFPLL**K**RSHSCDFPCS

AGDSDNVSLP**K**ATVQKMISEI

EILDQDLMFT**K**DAREIIINSG

MASEMADNEA**K**KTIAPEHVIK

PFLEEILLNF**K**GSQKVKETRD

FALHQRCIQA**K**AKRAGKHRQP

RPATHLHDTV**K**RNLDSATSPQ

NGYGDLFPGH**K**KTRREAPLGV

PPASPLGQSD**K**PSGADALQSS

KHSLGLDSLN**K**KRLADSSLHL

LNRSVPDEDM**K**DLFNEDFEEK

SAHQLQQIAA**K**QKREQMLQNP

SSLDVPYPME**K**PASPSSYKQD

SSYKQDFTNS**K**LLMMPSVNKS

QGSVLDYGNT**K**PLSHYKADCG

GQGSPGSGQS**K**PALMAYLPQQ

SHEQNSLFLM**K**PKPGNMPFRS

LSSQQQAAVM**K**QHQLLLDQQK

GSSGLSQQHN**K**GTLNPGLTKP

SFHMQQQAHL**K**MSSPQFSQAV

GHTDLIDSLL**K**NRTSEEWMSD

ANMASLSAMG**K**SPLSQGDSSA

QGDSSAPSLP**K**QAASTSGPTP

ASQALNPQAQ**K**QVGLATSSPA

LNTAQAGGMA**K**MGITGNTSPF

ATGVNPQLAS**K**QSMVNSLPTF

NSLPTFPTDI**K**NTSVTNVPNM

EDTEPDPGES**K**GEPRSEMMEE

LGNHLEDRVN**K**FLRRQNHPEA

HWEFSSLRRS**K**WSTLCMLVEL

NTKSHAHKMV**K**WGLGLDDEGS

EGSSQGEPQS**K**SPQESRRLSI

TQPPTTVSTG**K**PTSQVPAPPP

SALQDLLRTL**K**SPSSPQQQQQ

QQQQQVLNIL**K**SNPQLMAAFI

QQRILQQQQM**K**QQIGSPGQPN

VGDTTGDTLE**K**FVEGLGEVFK

NQAALITNDS**K**ITVLKQVQEL

LKQVQELIIN**K**DPTLLDNFLD

LDEIIAFQAD**K**SIEVRKFVIG

FVIGFIEEAC**K**RDIELLLKLI

LLRDENVNVV**K**KAILTMTQLY

LYKVALQWMV**K**SRVISELQEA

DNDGIRTHAI**K**FVEGLIVTLS

IQYNVLWEEG**K**AALEQLLKFM

LHANLPPTLA**K**SQVSSVRKNL

NLKLHLLSVL**K**HPASLEFQAQ

AEIARNMPSS**K**DTRKRPRDDS

DLEPGPSGTS**K**ASAQISGQSD

VESAGTEAQI**K**HLARLMATQM

SPLEEEAPQA**K**RRPEPIIPVT

QPRLAGAGGR**K**KIFRLSDVLK

PLTDAQVEAM**K**LGAVKRILRA

ACSGAAQVRI**K**ILASLVTQFN

SLVTQFNSGL**K**AEVLSFILED

LAAGASGSLD**K**YEDCLIRLLS

LIRLLSGLQE**K**PDQKDGIFTK

ITESALEVVR**K**YCEDESRTYL

GMSTLRDLIF**K**RPSRQFQYLH

HVLLDLSSHE**K**DKVRSQALLF

ALLFIKRMYE**K**EQLREYVEKF

NPPSVLFGAD**K**DTEVAAPWTE

VAAPWTEETV**K**QCLYLYLALL

LYLALLPQNH**K**LIHELAAVYT

AVYTEAIADI**K**RTVLRVIEQP

ELLLLVENCP**K**GAETLVTRCL

VTRCLHSLTD**K**VPPSPELVKR

LVKRVRDLYH**K**RLPDVRFLIP

FLIPVLNGLE**K**KEVIQALPKL

KLIKLNPIVV**K**EVFNRLLGTQ

LIALHNIDSV**K**CDMKSIIKAT

VMNILSRLIM**K**QVWKYPKVWE

KYPKVWEGFI**K**CCQRTKPQSF

PPQQLGAVFD**K**CPELREPLLA

SIMTILEASG**K**QEPEAKEAPA

DLIGLRLAQE**K**ALKRQLEEEQ

KETAAGGLTL**K**EERSPQTLAP

TLAPVGEDAM**K**TPSPAAEDAR

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QACMDRDSAV**K**ELQQKTENYE

VPLLEDSETR**K**NNLTLDQPQD

DKVISGIARE**K**LPKVRRQEVS

VRRQEVSSPR**K**ETSARSLGSP

PLLHERGNIE**K**TFWDLKEEFH

EEFHKICMLA**K**AQKDHLSKLN

QCSVPIQCTD**K**TDKQEALFKP

KQEALFKPQA**K**DDINRGAPSI

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PATSEAVCQE**K**FNMEFRDNPG

DPIASAIQNL**K**TTDKTKPSNL

APFPSLDSPG**K**AIRGPQQPIW

EWPLAEILSV**K**DISGRKLFYV

LFYVHYIDFN**K**RLDEWVTHER

EWVTHERLDL**K**KIQFPKKEAK

FPKKEAKTPT**K**NGLPGSRPGS

EVPASAQASG**K**TLPIPVQITL

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RHPPGNEIYR**K**GTISFFEIDG

SFFEIDGRKN**K**SYSQNLCLLA

CLLAKCFLDH**K**TLYYDTDPFL

LFYVMTEYDC**K**GFHIVGYFSK

LPPYQRRGYG**K**LLIEFSYELS

FSYELSKVEG**K**TGTPEKPLSD

LQYLNLINYY**K**GQYILTLSED

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IDSKCLHFTP**K**DWSKRGKWKG

ESERVEQGTD**K**EIGSGEKRQD

GSGEKRQDDV**K**ETENENSGER

EEVTNADDLP**K**IDDEKNSQFE

VSSEVSSDIL**K**DDGDAVEVDR

QEETANIPES**K**LSEDTGSPHH

HHADILMVQE**K**AAEEHDMIAS

EREIISPGEH**K**EIPANPDTKV

SGAVDHDYLT**K**TELDKVLEVP

LEVPGSETIS**K**LEDRPSEHLS

HLSETSMNVE**K**ELEMPAVEIL

PAVEILPDND**K**NSDVLAVGVS

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TDTTVDSTNN**K**DAHVEANTER

NDANNESAPV**K**RVPGPYVASS

GSGDLNNGVH**K**IVRTPPVFDG

PPVFDGTMRA**K**RSFLLDDASD

GTEEDQSAFM**K**ELDSFFRERN

SFFRERNMDF**K**PPKFYGEGLN

KFYGEGLNCL**K**LWRAVTRLGG

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VSWTFRGFYE**K**ALLEYERHKV

GNGEVSDPAI**K**DKNLVLHQKR

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HGAKNAIHVS**K**SMLDVTVVDV

VDVGPPADWV**K**INVQRTQDCF

PMNPWGATPF**K**KVVSLPTRID

ARLRDRGGSN**K**KDRDRERDRD

RERDRLNSRS**K**RRRGERLMMV

DGGVGPPSSL**K**MLPPTSNNIS

HHSHNNNHQR**K**NNFPPTKVFR

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DEMIGVSVPR**K**ARSACTKRPH

SVRKKLPSGT**K**QKPLPPKSSS

YGMMRMPSTS**K**QEAAGNDLTE

AAGNDLTEAA**K**STVEVKSRVS

SSSNVSAIAP**K**RKKPRHVKYE

KSQVPFSNQL**K**SSGSGEGNSS

RESNASLDSE**K**KENNLSKDET

NLSKDETILP**K**VESSSGFRSD

SGFRSDGEGA**K**SSSPEKEKFE

PKVTEVETEA**K**PLLKEDRSDP

PRMVAEAEHH**K**FERNCELKLD

RNCELKLDLD**K**SDHVGLVNKH

VGLVNKHHVQ**K**PPPQQQLSVP

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TSVAASAART**K**GPVVSNGSGF

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QSQISFAANS**K**PMTSGSPMQQ

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TTTHSASQPS**K**NLQPASAASS

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NNMKGGGGMG**K**TQQHQLGPPG

VHAVSSAVQV**K**PVDQKQQAGE

LERARTEDYL**K**RKIRSRPERS

AIIVGQVNYP**K**VADSSSFDED

LTNGTTIPTA**K**STPTLIKQSQ

KQSQPKSASE**K**SQRSKKAKEL

NYQAILPAPP**K**SAGEALGSSG

GALPANLDDM**K**VAELKQELKL

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VATVASSGVV**K**FGSTGSTPPV

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MIGTDPRTIL**K**DLLPETIPPP

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PGQFQPSLCH**K**FIALSDKEGK

SFATASCLIC**K**YKVDCEAVRG

CPADEPLAIM**K**PEIVFFGENL

NLPEQFHRAM**K**YDKDEVDLLI

DLLIVIGSSL**K**VRPVALIPSS

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NPVKLSEITE**K**PPRTQKELAY

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NDQQAKIPLK**K**REIKLSDDFD

KLSDDFDSPV**K**GPLCKSVTPT

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ESLNSVITSM**K**TGELEKETAP

ELEKETAPLR**K**DADSSISVLE

SISVLEIHSQ**K**AQIEEPDPPE

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LGSFSENGFI**K**IFMEQVPGGS

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VLINTYSGVL**K**ISDFGTSKRL

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LHRILTEDQD**K**IVRNLMESLA

VLFGFQDAVN**K**VLRNHNIKPH

WMFALDSIIR**K**AVQTAITILV

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EKLLSERNQL**K**ACMGELLDNF

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TMEKYFPADE**K**PRTTTMAEQS

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FTSFQDPPEQ**K**PFLNWSFAPQ

SVMMVSFSAP**K**KRRRGRSQRS

EVVNGSNQTV**K**SYPGIGDEII

GIGDEIITIN**K**EATTEALLAL

YILIRNHIIS**K**WRENISSWVT

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QTIRYGSNGV**K**VTAGNQVYEG

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IKFVPELPQR**K**LDCIKRLGFG

IKRLGFGLLN**K**VAMLFPYVFW

IALVAGEAAH**K**FETMPPTDAV

REAANMAQSA**K**ARGIRKRIDR

IIFSRRNPDP**K**SPAILRVTLS

DLREVRGGDE**K**RLYYLCETLG

ETLGVKLVGR**K**GLGVGADSVI

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LPSVPVGISG**K**GKSIGNIVFD

GNIVFDQTRV**K**FEKPSSPIHS

LGSSIHFPMG**K**LPVGAEHAGL

LVVPSNQTRM**K**VEKTVLKTHD

TVLKTHDIVR**K**TGDKETLRGE

ECQTEASSGA**K**TVSLQLSCNT

CNTKNNSPYW**K**NEEPTELNLS

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LGLSSYPPIE**K**SPSLPATTSE

QGNSPSFGIL**K**TVVPISIKAE

TFSQSEVFNR**K**DGMLNHPHTP

DLPTSSTPYQ**K**DKYLPCSNGI

GVQSDPDCTS**K**ENSGQSSSLA

SGQSSSLANG**K**LREVLKHGGV

GVNVTSLTEE**K**ILDDCKPCIS

TDELSRNDEE**K**ITLPGKELEE

DRGYDLSRVI**K**EQVGKRNLCD

VGKRNLCDDG**K**VQGPAAVFTE

HFHNSNHVEE**K**GSQPALLGYT

VEMASTEVHI**K**RHSPELQSRI

IVDNSSPVSL**K**AEMSTIDNDS

QSRIINLTQV**K**SPVKALDASG

YTFRGSDESC**K**FSRERYHGRI

TESNLHDQDT**K**SKVLSKFFYG

VLSKFFYGKT**K**LIVSKIQYDS

SFSYNRGPTN**K**EDTSAFHGFR

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GRSGFARGRT**K**FVNNPKRDFP

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AVRFQQDPRI**K**IEEQGSLMEI

GSLMEIDGEN**K**NSTENASGRT

TKNMEEEETS**K**NSKIWQPDEL

WDMTGYGSHS**K**VYSQSKNIPL

STVSLLDTYQ**K**CGLKRKSEEI

ATATTSTATS**K**NSGSNSEGDY

LGRGTFGQVV**K**CWKRGTNEIV

KRGTNEIVAI**K**ILKNHPSYAR

FVRAYECFQH**K**NHTCLVFEML

MLEQNLYDFL**K**QNKFSPLPLK

VLQQVATALM**K**LKSLGLIHAD

VDPSRQPYRV**K**VIDFGSASHV

PAEYLLSAGT**K**TTRFFNRDTD

TDSPYPLWRL**K**TPDDHEAETG

DHEAETGIKS**K**EARKYIFNCL

DLEGSDMLVE**K**ADRREFIDLL

LKKMLTIDAD**K**RITPIETLNH

LLDFPHSTHV**K**SCFQNMEICK

VNMYDTVNQS**K**TPFITHVAPS

GFQGLQASPS**K**HAGYSVRMEN

QQPTSTTSSR**K**SKQHQSSVRN

SQAISSPQRS**K**RVKENTPPRC

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GHNNANAFDT**K**GSLENHCTGN

NPRTIIVPPL**K**TQASEVLVEC

VNTSHHSSSY**K**SKSSSNVTST

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QIAKTCPIQI**K**VMTPPPQGAV

KKAEHVTEVV**K**RCPNHELSRE

RICACPGRDR**K**ADEDSIRKQQ

IRKQQVSDST**K**NGDGTKRPFR

NTHGIQMTSI**K**KRRSPDDELL

RGRETYEMLL**K**IKESLELMQY

QQQQHQHLLQ**K**QTSIQSPSSY

SYGNSSPPLN**K**MNSMNKLPSV

RMMRSKARAR**K**LAKSDGDVVN

PFPTSEDFTP**K**EGSPYEAPVY

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EPGEELLVHV**K**EGVYPLGTVP

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GGGSGQAHEC**K**DCERMFPNKY

MVIHTEEREY**K**CDQCPKAFNW

IRHQMSHDSG**K**RFECENCVKV

GKTFATSSGL**K**QHKHIHSTVK

VKPFICEVCH**K**SYTQFSNLCR

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RLEDSCVEKL**K**TRSSDMSDGS

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GKGKSAEGQP**K**FGGGLAPPGA

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SAECPFDLTT**K**PKDVKPILPM

SQNGGGREPR**K**NHVYGERKLG

MPQQPPLHYA**K**PSPFFMDPIY

FMDPIYSRVE**K**RKVTDPVGAL

VTDPVGALKE**K**YLRPSPLLFH

QMSAIETMTE**K**LESFAAMKAD

PPTLSDPILR**K**GKERYTCRYC

THTGEQPYRC**K**YCDRSFSISS

GQQTNLDRHL**K**KHEHENAPVS

ESDNHALLDE**K**EDSYFSEIRN

EMNQASTRTE**K**RADMQIVDGS

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EEDDEDSLAG**K**SQDDTVSPAP

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RRAAEEAFEV**K**DVLNSTLDSE

LNSTLDSEAL**K**HTLCRQAKNQ

PSQGSLDAWL**K**VTGATSESGA

RNQEDGSSQF**K**PMLEGDWFSS

QNQFLSTNNN**K**GCLLNVPSSA

ANGGFVGNRA**K**VLKPLEVLAS

SSGAQPTLFQ**K**RAAMRQSSGS

YESDEINESG**K**AAESVQIGGG

SVQIGGGGKG**K**KKGMPAKNLM

KNLMAERRRR**K**KLNDRLYMLR

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SILGDAIDYL**K**ELLQRINDLH

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WFQEWPDSYA**K**HIYSSEDKNA

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EERNIIPREE**K**PIEDEIERKE

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RSALRVLQKE**K**EQLQEEKQEL

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EFQHALCENG**K**NFGSMNMDEF

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SDSRSSDRET**K**HKRRKRKTRS

SLSVEIVYEG**K**ATDTTKHHKK

DTTKHHKKKK**K**KHKKKHKKHH

VVITIDSDSD**K**DSEVKEDTEC

LAPSLEPFET**K**DVVTIEAEFG

TIEAEFGVLD**K**ECDIATLSNN

TLSNNLNNAN**K**TVDNIPPLAA

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ISGTPFSNGE**K**LRPHSLPQPE

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CSECGKNYNT**K**LGYRRHLAMH

HAASSGDLSC**K**VCLQTFESTQ

ESTQALLEHL**K**AHSRRVAGGA

SRRVAGGAKE**K**KHPCDHCDRR

DHCDRRFYTR**K**DVRRHLVVHT

RRHLVVHTGR**K**DFLCQYCAQR

GRKDHLTRHV**K**KSHSQELLKI

CMASRDVMGT**K**AFPGMLPMGM

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STSYLPDKLP**K**VEVDSFLAEL

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QNLYRCPGDD**K**SKIVRVLNLW

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GEDSEHSEEP**K**KEIPASQLSH

QQLLEQQQPQ**K**ATPQDSQEGT

VEEEVFEQEA**K**KVAVRSRSRT

SRSRSGSRKR**K**HRKRSRSRSR

RAREREKERQ**K**KGLPPIRSKT

STTLWVGQVD**K**KATQQDLTNL

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ALNKGVKTEY**K**QFWDVDLGVT

DLGVTYIPWE**K**VKVDDLEGFA

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QTTQSPTPVE**K**ETVVTTQAEV

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PAGNVFNAPT**K**QAEPEEKVPH

QSVDNVTNPE**K**RIPLGNDNIQ

RRDHFGFNPE**K**PWGHRGDFDE

HRVLPVYGGP**K**GLHEERGRFR

DYFEGATSQR**K**GDNVPQVNGE

PVQNDPELYE**K**LTSSNEINKE

PDRRSGSPDV**K**GPPPVKVARL

ARGRPNGAVA**K**AVGGLMIPVF

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SPSSSRTPQA**K**TSTPTTDLPI

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LCAEAALRLV**K**PGNQNTQVTE

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GSEIFSLEMS**K**TEALTQAFRR

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WYGWHFPELG**K**IISDNLTYCK

DNLTYCKCLQ**K**VGDRKNYASA

LLPEEVEAEV**K**AAAEISMGTE

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HRNMMNRHLW**K**SQLCEMVQPS

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PEESVLPLVQ**K**STLADYSAQK

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GSRSHSPLRS**K**QRDVAQARTH

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FNVERVGQYL**K**DEDDDLVSPP

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AIPTRTMHFE**K**HWRLLESMKA

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EGEPQEESPL**K**SKSQEEPKDT

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LLASTLVHSV**K**KEQEFRSIFD

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DLRHDIDRRR**K**ERSKERGDSK

RESSGSRKQE**K**TPKDYKEYKS

KEYKSYKDDS**K**HKREQDHSRS

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DRDDGVDYWA**K**RGRGRGTFQR

FQRGRGRFNF**K**KSGSSPKWTH

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EETEIMIVQA**K**GRGRGRKETG

GRGRKETGTA**K**PGVSTVPNTT

PVKTKKGVKR**K**ADTTTPTTID

HEPPSLPPEP**K**TTKLGQRRES

GQRRESSRPV**K**PPKKDVPDSQ

PDSQQHPAPE**K**SSKVSEQLKC

EQLKCCSGIL**K**EMFAKKHAAY

KHAAYAWPFY**K**PVDVEALGLH

DVRLMFSNCY**K**YNPPDHEVVA

PDHEVVAMAR**K**LQDVFEMRFA

VSSPAVPPPT**K**VVAPPSSSDS

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LAALSQPQQN**K**PKKKEKDKKE

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KNNSSNSNVS**K**KEPAPMKSKP

PPTYESEEED**K**CKPMSYEEKR

EKRQLSLDIN**K**LPGEKLGRVV

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DEIEIDFETL**K**PSTLRELERY

LERYVTSCLR**K**KRKPQAEKVD

EKVDVIAGSS**K**MKGFSSSESE

SEDSETEMAP**K**SKKKGHPGRE

KKGHPGREQK**K**HHHHHHQQMQ

SMPQQAAPAM**K**SSPPPFIATQ

PSNRAAALPP**K**PARPPAVSPA

QMQLYLQQLQ**K**VQPPTPLLPS

GQQPPPPQPA**K**PQQVIQHHHS

IQHHHSPRHH**K**SDPYSTGHLR

QSPPQQNVQP**K**KQELRAASVV

FSPSLRPEPP**K**HPESIKAPVH

PVHLPQRPEM**K**PVDVGRPVIR

QNAPPPGAPD**K**DKQKQEPKTP

KTPVAPKKDL**K**IKNMGSWASL

NMGSWASLVQ**K**HPTTPSSTAK

FEQFRRAARE**K**EEREKALKAQ

ALKAQAEHAE**K**EKERLRQERM

MLDQQRELAR**K**REQERRRREA

LLWKGEMMEG**K**WLLCMLLVLG

DDVIEEVEDS**K**PDTTAPPSSP

APPSSPKVTY**K**APVPTGEVYF

RGTLSGWILS**K**AKKDDTDDEI

TDDEIAKYDG**K**WEVEEMKESK

EMKESKLPGD**K**GLVLMSRAKH

SRAKHHAISA**K**LNKPFLFDTK

NGIECGGAYV**K**LLSKTPELNL

PELNLDQFHD**K**TPYTIMFGPD

FGPDKCGEDY**K**LHFIFRHKNP

KNPKTGIYEE**K**HAKRPDADLK

DADLKTYFTD**K**KTHLYTLILN

SREIEDPEDR**K**PEDWDERPKI

PDDWDEDAPA**K**IPDEEATKPE

QRPVIDNPNY**K**GKWKPPMIDN

PSYQGIWKPR**K**IPNPDFFEDL

DDWANDGWGL**K**KAADGAAEPG

FLVILFCCSG**K**KQTSGMEYKK

EGEEKLEEKQ**K**SDAEEDGGTV

GTVSQEEEDR**K**PKAEEDEILN

EILNRSPRNR**K**PRRERRPKRN

QAMMAQFGGQ**K**NPPWATQFTA

RSSQQQTQPQ**K**QRVFTGVVTK

EDVFFQLSAV**K**GKTPQVGDRV

EATYNPNMPF**K**WNAQRIQTLP

QNQSQTQPLL**K**TPPAVLQPIA

PQPLLQQPQQ**K**AGLLQPPVRI

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VVPRYTVQFS**K**FSLDCPSCDM

VMHREVESLE**K**NMAILDPPDA

PPDADHLYSA**K**VMLMASPSME

ASPSMEDLYH**K**SCALAEDPQE

DGFQHPARLV**K**FLVGMKGKDE

SPSLDGPDPE**K**DPSVLIKTAI

VLIKTAIRCC**K**ALTGIDLSVC

IRYHRPEETH**K**GRTVPAHVET

SEWETLSRGY**K**QQLVEKLQGE

EADGEQDEEE**K**DDGEAKEIST

KEISTPTHWS**K**LDPKTMKVND

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ESRALSSKGL**K**SQLIARLTKQ

EDDDRKSEDD**K**EEEERKRQEE

AIIVHPNWAA**K**SGKFDCSIMS

VLLDYRLEDN**K**EHSFEVSLFA

LQRDFGVRIY**K**SLLSLPEKED

PEKEDKKEKD**K**KSKKDERKDK

EERDDETDEP**K**PKRRKSGDDK

RRKSGDDKDK**K**EDRDERKKED

RDERKKEDKR**K**DDSKDDDETE

EDDRDEEEMT**K**RDDKRDINRY

INRYCKERPS**K**DKEKEKTQMI

DQSHCGYLLE**K**DLEEILYTLG

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QEFPENIKNC**K**VLTIVEASVN

IVEASVNPIS**K**LPDGFSQLLN

FLPANFGRLT**K**LQILELRENQ

LRENQLKMLP**K**TMNRLTQLER

PEVLEQLSGL**K**EFWMDANRLT

TFIPGFIGSL**K**QLTYLDVSKN

QQLPETIGSL**K**NITTLKIDEN

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REAPPREGNL**K**RYPTPYPDEL

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PGSLPVTANM**K**ASENLKHIVN

SEELSSDEEM**K**MAEMRPPLIE

PLIETSINQP**K**VVALSNNKKD

ALSNNKKDDT**K**ETDSLSDEVT

SQDTSLCSPV**K**QTHIDINSKI

GDILNSSTEE**K**FKAHDKKDFN

NVEERLVLIE**K**SVDSTATADD

DSTATADDTH**K**LDHINMNLNK

TFQPEIMERS**K**TQDIVLGTSF

LGTSFLSINS**K**EETEHLENGN

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SITNMEIGGL**K**IYDILSDNGP

NGPQQPSTTV**K**ITSAVDGKNI

AVDGKNIVRS**K**SATLLYDQPL

SSSSDLISGT**K**AIFKFDSNHN

NIQYSSSAAV**K**DTLWHSKQNP

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TRDAEMPATE**K**DLAEDAPWKK

TFTRWCNEHL**K**CVSKRIANLQ

LIALLEVLSQ**K**KMHRKHNQRP

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NKPAEFTVDA**K**HGGKAPLRVQ

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GTYSCSYVPR**K**PVKHTAMVSW

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YGPGVAKTGL**K**AHEPTYFTVD

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QATPTSPIRV**K**VEPSHDASKV

GLSRTGVELG**K**PTHFTVNAKA

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IGELANTLTS**K**FEFLGINRQS

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RVERCQRIEL**K**QGYTFFIPSG

EIEDRTRVQP**K**FRYPFYYEMC

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CDQQPQEEEE**K**DEEGEGRDRA

TPSEDQEALG**K**KPKAPALRFL

TLSNESEESV**K**STTLAVDYPK

TGSPATEVSA**K**WTHLTEFELK

HLTEFELKGL**K**ALVEKLESLP

VEKLESLPEN**K**KCVPEGIEDP

EDPQALLEGV**K**NVLKEHADDD

ITGVPVVTWP**K**KTPKNRAVGR

KNRAVGRPKG**K**LGPASAVKLA

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PEDELPEAPP**K**TRESDHSRSS

STEGAEGPEE**K**KKVKMRRKRR

KMRRKRRLPN**K**ELSRELSKEL

SEPESEGEEP**K**RPPGICERPH

GICERPHRFS**K**GLNGTPRELR

SRPPPSVSPP**K**CIQMERHVIR

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APTTIGGLNK**K**PMSLASGLVP

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KTAGPIASAQ**K**QPAGKVQIVS

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YENESLQNGR**K**STEFPRKIRE

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QKENVLQYCR**K**SGLQTDYATE

QGETQLLVSR**K**SRPKSGGSGH

ASPEQELDQN**K**GKGRDVESVQ

RDVESVQTPS**K**AVGASFPLYE

GASFPLYEPA**K**MKTPVQYSQQ

QYSQQQNSPQ**K**HKNKDLYTTG

TGRRESVNLG**K**SEGFKAGDKT

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EDLSGIAEMF**K**TPVKEQPQLT

AISNSENLLG**K**QFQGTDSGEE

NVFFSAQNAA**K**QPSDKCSASP

QCIRENGNVA**K**TPRNTYKMTS

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LLQQRREGEM**K**EIERPFETYK

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GVKEELLAVG**K**FTRTSGETTH

HTHREPAGDG**K**SIRTFKESPK

LDPAARVTGM**K**KWPRTPKEEA

AQSLEDLAGF**K**ELFQTPGPSE

GPSEESMTDE**K**TTKIACKSPP

TKQWPKRSLR**K**ADVEEEFLAL

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LTPKPAGGDE**K**DIKAFMGTPV

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ELFQTPVCTD**K**PTTHEKTTKI

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RDIVEELSAL**K**QLTQTTHTDK

PDPVGTPTIF**K**PQSKRSLRKA

TDDKITEVSC**K**SPQPESFKTS

PESFKTSRSS**K**QRLKIPLVKV

TKRCPKTRPR**K**EVKEELSAVE

KEPASGDEGI**K**VLKQRAKKKP

LEVVDTTAST**K**RHLRTRVQKV

AGEDKGIKAL**K**ESAKQTPAPA

HTDKEPVGEG**K**GTKAFKQPAK

GAADSFTSAP**K**QTPDSGKPLK

KISRRVLRAP**K**VEPVGDVVST

GDVVSTRDPV**K**SQSKSNTSLP

SNTSLPPLPF**K**RGGGKDGSVT

GGKDGSVTGT**K**RLRCMPAPEE

EEIVEELPAS**K**KQRVAPRARG

GKSSEPVVIM**K**RSLRTSAKRI

PAEELNSNDM**K**TNKEEHKLQD

HKLQDSVPEN**K**GISLRSRRQN

AERIEINRNE**K**KPMKTSPEMD

DIQNPDDGAR**K**PIPRDKVTEN

SARQNESSQP**K**VAEESGGQKS

KSAKVLMQNQ**K**GKGEAGNSDS

NSDSMCLRSR**K**TKSQPAASTL

SQPAASTLES**K**SVQRVTRSVK

RSVKRCAENP**K**KAEDNVCVKK

TKVEMKAMMA**K**MEVKTSLLDN

LNEETFINNL**K**KRFDHSEIYT

YRSLPIYSPE**K**VEEYRNRNFY

EAYRSLRDQD**K**DQCILITGES

ILITGESGAG**K**TEASKLVMSY

VMSYVAAVCG**K**GAEVNQVKEQ

NPVLEAFGNA**K**TVRNDNSSRF

GKYMDIEFDF**K**GDPLGGVISN

GGVISNYLLE**K**SRVVKQPRGE

LSGASEELLN**K**LKLERDFSRY

RYNYLSLDSA**K**VNGVDDAANF

RVNGLDESKI**K**DKNELKEICE

RAFSFRTVEA**K**QEKVSTTLNV

QAYYARDALA**K**NLYSRLFSWL

WLVNRINESI**K**AQTKVRKKVM

EQFIINYCNE**K**LQQIFIELTL

GTVTDETFLE**K**LNQVCATHQH

THQHFESRMS**K**CSRFLNDTSL

SCFRIQHYAG**K**VLYQVEGFVD

LYRDLSQAMW**K**ASHALIKSLF

KSLFPEGNPA**K**INLKRPPTAG

QFKASVATLM**K**NLQTKNPNYI

TKNPNYIRCI**K**PNDKKAAHIF

QAYEPCLERY**K**MLCKQTWPHW

PVEEYSFGRS**K**IFIRNPRTLF

RTLFKLEDLR**K**QRLEDLATLI

TLIQKIYRGW**K**CRTHFLLMKK

AAWYRRYAQQ**K**RYQQTKSSAL

LVIQSYIRGW**K**ARKILRELKH

LRELKHQKRC**K**EAVTTIAAYW

TQARRELRRL**K**EEARNKHAIA

AVIWAYWLGL**K**VRREYRKFFR

YRKFFRANAG**K**KIYEFTLQRI

YEFTLQRIVQ**K**YFLEMKNKMP

RPYLFLDSTH**K**ELKRIFHLWR

KRIFHLWRCK**K**YRDQFTDQQK

TDQQKLIYEE**K**LEASELFKDK

PFQGAYLEIN**K**NPKYKKLKDA

YKKLKDAIEE**K**IIIAEVVNKI

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KSEVPLVDVT**K**VSMSSQNDGF

QNDGFFAVHL**K**EGSEAASKGD

SSDHLIEMAT**K**LYRTTLSQTK

DEFLVQFRQD**K**VCVKFIQGNQ

NQKNGSVPTC**K**RKNNRLLEVA

GELQLYRILQ**K**ANLLSYFDAF

EIMALVGMAS**K**PLHVRRLQKA

SLPVSSIPIY**K**LPEGSPTWLG

RSSNAREPHL**K**IPKCAATTCV

TTCVQSLGQG**K**SDVVGSLALQ

PADLGSPASP**K**ESSEALDAAA

CVERMAPTLP**K**SDLNEVKELL

NEVKELLKTN**K**KLAKMIGHIF

IFEMNDDDPH**K**EEEIRKYSAI

YSAIYGRFDS**K**RKDGKHLTLH

VNEAAAQLCV**K**DNALLTRRDE

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ELSRLYPSEA**K**SHSSESLGIL

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PWPGKIVNPP**K**DLKKPRGKKC

KPRGKKCFFV**K**FFGTEDHAWI

DHAWIKVEQL**K**PYHAHKEEMI

AHKEEMIKIN**K**GKRFQQAVDA

DAVEEFLRRA**K**GKDQTSSHNS

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DCSSCFQAMG**K**TSFFLGEVGN

FFLGEVGNAA**K**MMLIVNMVQG

GQLASIFLDQ**K**CQNILQGNFK

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VVEEDYNENA**K**NGEAKITEAP

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AEVKNEEEDQ**K**EDEEDQNEEK

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KNGNEKGEDA**K**EKEDGKKGED

TGDGKENEDG**K**EKGDKKEGKD

DKKEGKDVKV**K**EDEKEREDGK

EEDEIKEDDG**K**KEEPQSIVIS

LQLQDCSIFI**K**IIDRIHGTEE

HGTEEGQQIL**K**QPVSERLDFV

RLDFVCSFLQ**K**NRKHPSSPEC

SSPECLVSAQ**K**VLEGSELELA

LLLYHSTMSS**K**SPRDWEQFEY

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EELSPPSHQA**K**REIRFLELQK

QTPQFQMRRL**K**KQLADERSNR

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RIDRLALLNE**K**QAASPLEPKE

EPKELEELRD**K**NESLTMRLHE

SLTMRLHETL**K**QCQDLKTEKS

LKTEKSQMDR**K**INQLSEENGD

LSEENGDLSF**K**LREFASHLQQ

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SQLQDNPPQE**K**GEVLGDVLQL

LETERGQQEA**K**LLAERGHFEE

QSSISNLSQA**K**EELEQASQAH

QQQDQELAGL**K**QQAKEKQAQL

HQVEQLSSSL**K**QKEQQLKEVA

ASLRERDAAL**K**QLEALEKEKA

QTSVTQAQRE**K**AELSRKVEEL

LELQLRSEQQ**K**ATEKERVAQE

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KVTKGSLEEE**K**RRAADALEEQ

EEQQRCISEL**K**AETRSLVEQH

SLVEQHKRER**K**ELEEERAGRK

TAESECEQLV**K**EVAAWRERYE

AMFQEQLMTL**K**EECEKARQEL

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LARALQQVQE**K**EVRAQKLADD

LADDLSTLQE**K**MAATSKEVAR

EVARLETLVR**K**AGEQQETASR

QQETASRELV**K**EPARAGDRQP

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AQRELAAFRT**K**VQDHSKAEDE

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LKRLVMAESE**K**SQKLEERLRL

EVQSLREEAE**K**QRVASENLRQ

ERAEELGQEL**K**AWQEKFFQKE

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ELGELIPLRQ**K**VAEQERTAQQ

ERTAQQLRAE**K**ASYAEQLSML

LEVELDQARE**K**YVQELAAVRA

TARELEVMTA**K**YEGAKVKVLE

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TTQIINITMT**K**KLDVEEPDSA

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GTGITTRQQR**K**RVSLEPHQGP

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HELYNTIRDY**K**DEQGRLLCEL

LLCELFIRAP**K**RRNQPDYYEV

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ERLWEDSAGE**K**WLYGCWFYRP

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KEVFKSDYYN**K**VPVSKILGKC

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MDVLEMVENV**K**HVIADQEVME

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PEMEFEIEPD**K**ECKSLSPGKE

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TYINVQERDP**K**AHRFLGLLYE

LLYELEENTD**K**AVECYRRSVE

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QPLCLPLPVC**K**QLCTERQKSW

WDAVCTLIHR**K**AVPGNVAKLR

HEINTLRAQE**K**HGLQPALLVH

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EDYSEGGPLY**K**NGSLRNADSE

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DDMFTFHGPG**K**SVFGTPTLET

FGTPTLETAN**K**NHETDGGSAH

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RLLMRREQVL**K**ICANHYISPD

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FKTPEEAALF**K**CKFEEAQSIL

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SWWHCNSCSL**K**NASTAKKCVS

VSCQNLNPSN**K**ELVGPPLAET

PPLAETVFTP**K**TSPENVQDRF

VQDRFALVTP**K**KEGHWDCSIC

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NGKLYLDGSE**K**CRPLEENTAD

PLEENTADNE**K**ECIIVWEKKP

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GTEVMVPSFC**K**SEEPDSITKS

SPSVSSETMD**K**PVDLSTRKEI

DTDSTSQGES**K**IVSFGFGSST

SNSGDFAFGS**K**DKNFQWANTG

TQSVGTQSAG**K**VGEDEDGSDE

PIVSLPEVEV**K**SGEEDEEILF

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GFVKDGMDTV**K**KIESFGSPKG

RAISRSGGFI**K**DSSVELFLSS

LFLSSKAEMQ**K**TIEMKRTDRV

DSLSNFIESV**K**EEASNSGYGS

GLCVDGVIFL**K**HHDGRNNGDA

DGRNNGDAIV**K**FASCVDASGG

QWIEFGGNAV**K**EGDVLRRSEE

PRGINDRHFR**K**RSHSKSPRRT

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LTDEQIRFLY**K**DENRTRYAFV

NRTRYAFVMF**K**TLKDYNTALS

KDYNTALSLH**K**TVLQYRPVHI

RPVHIDPISR**K**QMLKFIARYE

ERDRPGHVSQ**K**YSQEGNSGQK

YIRNFPFDVT**K**VEVQKFFADF

EDDIYLLYDD**K**GVGLGEALVK

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GVNFSVMSSE**K**MQARSQSRER

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FPEGRFMPDP**K**INCGSGRVTP

TPIKIMNLPF**K**ANVNEILDFF

INYNEAMAAI**K**DLNDRPVGPR

NDRPVGPRKV**K**LTLLLTLKVK

VLVPTVSMVG**K**HLGARKDHPG

ARKDHPGLKA**K**ENDENCGPTT

TTVFVGNISE**K**ASDMLIRQLL

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RLLHDLQIGE**K**KLLVKVDAKT

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DDEEALDEET**K**RRDQMIKGAI

PSQESDSHPR**K**KKKEKKEDIF

APLIPYPLIT**K**EDINAIEMEE

KRDLISREIS**K**FRDTHKKLEE

THKKLEEEKG**K**KEKERQEIEK

RERERERERE**K**DKKRDREEDE

EDEEDAYERR**K**LERKLREKEA

RLKNWEIRER**K**KTREYEKEAE

REEERRREMA**K**EAKRLKEFLE

EDYDDDRDDP**K**YYRGSALQKR

ALQKRLRDRE**K**EMEADERDRK

EADERDRKRE**K**EELEEIRQRL

PMEEEEEPEQ**K**PCLKPTLRPI

DQQQPEEHRP**K**IGLSLKLGAS

SNSPGQPNSV**K**RKKLPVDSVF

EDEDSDDVPR**K**RKLVPLDYGE

LVPLDYGEDD**K**NATKGTVNTE

KGTVNTEEKR**K**HIKSLIEKIP

KSLIEKIPTA**K**PELFAYPLDW

MERRIRPWIN**K**KIIEYIGEEE

EATLVDFVCS**K**VMAHSSPQSI

LDEEAEVFIV**K**MWRLLIYETE

RLLIYETEAK**K**IGLVKVLGIK

GKGDAMMADG**K**GDAAAVAGAG

CQTLLQYASN**K**NASEHIVYLL

NNLQILVHVT**K**EGVWKNPVLL

QQPVETEEVN**K**LIAQEGPSFL

EGPSFLQMRI**K**HLLKSNCIPQ

CSMLPNEDAI**K**EIAKVDCKEV

CSWELTLFWS**K**LQRRIDPSLD

ERCRQFGVIA**K**TQQHLFCLIR

QLRSSEDEEM**K**ASVCKTIACL

LEELYLQPDQ**K**FDEENAPVPN

SLRCELLLAL**K**AHWPFDPEFW

WPFDPEFWDW**K**TLKRHCHQLL

ESFLSDYDEG**K**EDKQYRRRDL

YRRRDLTDQH**K**EKRDKKPIGS

SERYQRWLQY**K**FFCLLCKREC

CIEARILHHS**K**MHMEDGIYTC

DGIYTCPVCI**K**KFKRKEMFVP

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CNIVQPPPPC**K**IENSIPNPNG

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QHSSGQENTV**K**NPTHVPKENF

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KSSYNCPLCE**K**ICTTQHQLTM

GADHSCSICG**K**SLSSASSLDR

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DEVFHCPVCF**K**EFVCKYGLET

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TLETNIEHNL**K**SEEEKDQEKQ

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RVLSVTGILS**K**ELQNKTIDIF

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VEKPSLQKRR**K**IQKSVDLGNS

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QGLDTILQNL**K**LCFSEFDYCK

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EPERLNEIVE**K**FISQMKEIEK

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LIPSSMDSED**K**VTESIEDIKE

MAEMIAEDEE**K**KTLSQGESQT

TSEHELFLDT**K**IFEKDQGSTY

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EPDKLTVGKR**K**RNEDDEVPVG

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LIFVGEISSS**K**PAISNILNRG

AASPRFHLVS**K**SSQSSVTVEN

QSSVTVENAS**K**PDFTKNSQVG

DIPAIFREGM**K**NTSYVLKHPS

TSKVNSVTPK**K**PKTSEDVPQI

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AGADYLRACP**K**CNVQFNLLDP

NLLDPLKYHM**K**HCCPDMITKF

DEDKTDSETG**K**LIMLVNEFYY

YYGRHEGVTE**K**EPKTYTTFKC

YTTFKCFSCS**K**VLKNNIRFMN

KNNIRFMNHM**K**HHLELEKQNN

HTPHEFSTIC**K**ICELSFETEH

ETEHILLQHM**K**DTHKPGEMPY

AHFRAAHENT**K**NLLCPFCLKV

MATPYMNHYM**K**HQKKGVHRCP

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EHKAQHRTFI**K**PKELEGLPPG

IRASLGPLQS**K**LPTAPFGCAP

SQNTTARNPR**K**SNASRSKTSK

KLHATTSTAS**K**VNTSKPRGRI

SKPRGRIAKS**K**AKPSYKQKRQ

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KNIRCRRGIH**K**CIECHSKIKD

FSIYIHCSFC**K**YNTNCNKAFV

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SEYFQSLFTN**K**ENESQTVFQL

YIYSSSLFVE**K**SSLAAVQELG

GISFLTNIVS**K**TPQAPFPTCP

QAPFPTCPNR**K**KVFVEDDENS

FVEDDENSSQ**K**RSVIVCQSRN

VCQSRNEAQG**K**TVSQNQPDVS

TSRPSPSIAV**K**ANTNKPHVPK

EPLHNLSLTE**K**SWPKDSSVVY

LDDPNRISLV**K**RNAVLPSKPL

PLQDREAMDD**K**PGVSGQLPKG

PKGKALELAL**K**RPRPPVLSVC

CSSSETPYLL**K**ETNKGNGQGE

GEDRNLLYYS**K**LGLVIPSSGS

QSIDRSGPLV**K**SLLRRSLSMD

VPVYSPSIDL**K**SSQGSSSVSS

PGNVLCALSQ**K**SSLKDCSEKT

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FQADRRLPFK**K**LKVNEHGSPV

DADFPDSDLN**K**DEFGELEGTR

FGELEGTRPN**K**KFKCKHCLKI

ICHKRFHTNF**K**VWTHCQTQHG

THCQTQHGIV**K**NPSPASSSHA

ASSSHAVLDE**K**FQRKLIDIVR

LIDIVREREI**K**KALIIKLRRG

QSSSQAQQVI**K**RNLRSRAKGA

KGAYICTYCG**K**AYRFLSQFKQ

RFLSQFKQHI**K**MHPGEKPLGV

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HAPLASPVEN**K**EVYQCRLCNA

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LSENPTPATE**K**LFVPQESDTL

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FVDETSTQNH**K**QNSGHKVRVI

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SDLHLLLDQS**K**FSSLKRTMSI

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QRFPSEDAVE**K**HVFSANTMGY

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KPSVAHFGSE**K**SNLYKFTASA

FTASASHTER**K**LKQAINYSKS

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QIIECFRSGT**K**QLKHILLKDV

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FRGLPNLITH**K**KFYCPPSLQM

MDDNLPDVND**K**QSQAINDLLE

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CPLCTYETRR**K**RDVIRHITVV

VHKKSSRYLG**K**ITASLEIRAI

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VLEPMLNGTE**K**TPPLITDYRE

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ILRDFFELRL**K**YYGLRKEWLL

LLGMLGAESA**K**LNNQARFILE

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VYSIPANVVI**K**PGKNLTIYAR

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VCDSESSMQV**K**TVAYVPSISE

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DKVMSTSSLE**K**IVPIIAVPSS

EIMHMLRMIR**K**HVRKNYMKFK

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KNFNICFDNI**K**NSQSEERSLE

SLEVHCPSTP**K**SEKNEGSSIE

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HLPNTYVDLT**K**DPVTETKNLG

DLTQDASSEA**K**SEGNHPALAV

GVIQVDEDNC**K**EEKAQVANRP

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SGFLTMQFQG**K**LKFLFGQKKK

APVLPSVTEM**K**MKSTFLKAKH

DIVVTMDSRA**K**AVTSLCESEL

TSLCESELHP**K**LNYLAGKSNG

LRGGPDLLDP**K**GTSGDREEED

PGAWGQREMH**K**YSYGLETPVH

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RSPLDIENDS**K**RRKDEKLQED

DEKLQEDEGE**K**SDQDLVVDVA

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AAAPAPGVNP**K**QMMPQGPPPA

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PSGTKTCIDT**K**EGILQYCQEV

NQPVTIQNWC**K**RGRKQCKTHP

FVSDALLVPD**K**CKFLHQERMD

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YGMLLPCGID**K**FRGVEFVCCP

DTDYADGSED**K**VVEVAEEEEV

TAASTPDAVD**K**YLETPGDENE

GDENEHAHFQ**K**AKERLEAKHR

REWEEAERQA**K**NLPKADKKAV

KKAVIQHFQE**K**VESLEQEAAN

PRPRHVFNML**K**KYVRAEQKDR

AEQKDRQHTL**K**HFEHVRMVDP

IQDEVDELLQ**K**EQNYSDDVLA

DALMPSLTET**K**TTVELLPVNG

HDSGYEVHHQ**K**LVFFAEDVGS

TVIVITLVML**K**KKQYTSIHHG

AVTPEERHLS**K**MQQNGYENPT

AVAAATASGG**K**SGGGSCGGGG

DHELFLQAFE**K**PTQIYRFLRT

MSHRNSRTNI**K**RKTFKVDDML

KVDDMLSKVE**K**MKGEQESHSL

LQLTFTGFFH**K**NDKPSPNSEN

NSVTLEVLLV**K**VCHKKRKDVS

SCPIRQVPTG**K**KQVPLNPDLN

VPLNPDLNQT**K**PGNFPSLAVS

EFEPSNSHMV**K**SYSLLFRVTR

DVNEELPARR**K**RNREDGEKTF

TFVAQMTVFD**K**NRRLQLLDGE

MQEMEECPIS**K**KRATWETILD

TLRWTGETND**K**STAPIAKPLA

RNSESLHQEN**K**PGSVKPTQTI

SVKPTQTIAV**K**ESLTTDLQTR

LTTDLQTRKE**K**DTPNENRQKL

HCPWCTLNCR**K**LYSLLKHLKL

RFIFNYVYHP**K**GARIDVSINE

GFAFSRNGPV**K**RTPITHILVC

PITHILVCRP**K**RTKASMSEFL

QEMEVDSEDE**K**DPEWLREKTI

EEFSDVNEGE**K**EVMKLWNLHV

CMLFVENYGQ**K**IIKKNLCRNF

FNLISIMSID**K**AVTKLREMQQ

KLREMQQKLE**K**GESASPANEE

TANGFSEINS**K**EKALETDSVS

LETDSVSGVS**K**QSKKQKLKQK

LDGIIEYDDF**K**LNSSIVEPKE

PRAHAHSLVG**K**QCSELGICAV

LGICAVSVGP**K**DMTAQFNNLG

FNNLGVLHVT**K**KNMMGTMIQK

AEQRELEQEA**K**ELKKVMDLSI

ASDGSFSLPL**K**PVISQPIHDS

DSKSPGASNL**K**ISRMDKTAGS

PVTVFLQLKR**K**RGGDVSDSKQ

QFTYYPLVED**K**EEVQRKRRKA

ELGLVTHLVT**K**LRANVNARTF

DSDSDSEGPE**K**DTRSSFRGHT

HTPLDLTCST**K**VKTLLLNAAQ

GSQSVEQEAE**K**LGPPPEPPGG

SSSSGATPTS**K**EQSGSSTNGS

TNGSNGSESS**K**NRTVSGGQYV

MYISQPMSWH**K**ESTDSEDDST

DIQIQANTLP**K**LENHNIGGYC

CFSMVLDEPP**K**SLWMYSIPLN

PLNKLYIRMN**K**AFNVDVQFKS

SVEPLTANNA**K**MRESLLRSEN

NSVYCGNAQG**K**GISERFSVVV

SGLTRQTLAF**K**FVCQNSCIGR

KETSLVFCLE**K**ACGDIVGQHV

DIVGQHVIHV**K**ICTCPKRDRI

RIQDERQLNS**K**KRKSVPEAAE

DYRLAITCPN**K**EWLLQSIEGM

NQENLRRHAN**K**LLSLKKRAYE

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DLSSEDTRGR**K**GDGENSGVSA

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EHVFAVESIE**K**KRIRKGRVEY

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ERQEQLMGYR**K**RGPKPKPLVV

LQDSSTDNRA**K**LDLGAQGKGQ

GQGHQYELNS**K**KHHQYQPHSK

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KKHHPYQPDP**K**MYDLQYQGGH

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GPPNGMMPAP**K**EAVTGNGIGG

VTGNGIGGKM**K**IVKNKNKNGR

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ERHPPADRTF**K**KAAGAEEKKV

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FGEQPLQLTT**K**PDLLAWDPAR

AVGLNLSHVR**K**RCLSETHGER

SETHGEREPC**K**KRLTARSIST

LDEPIDLRCV**K**TRSEAGEPPS

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VEPSDTIENV**K**AKIQDKEGIP

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GRTLSDYNIQ**K**ESTLHLVLRL

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IRPYLPNQMP**K**PEELPDSLVM

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GTGNRGAAFA**K**FGKPSPPQGP

GLGCHGAALD**K**QWMQRASAFN

NTVIASAAAQ**K**LNGRDLPFLY

LGTPLTPMTP**K**SPASVVLGQR

RDRDFALTPE**K**EHELQMNNNN

LQMNNNNENS**K**QDYQEQDEDM

DEDMPLNLST**K**ERITSDDSNR

RSARREQYGL**K**MEEQGDEEEH

EEHQVDPIVR**K**FKYERRTASI

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GRNFQCKQCG**K**SFKRSSTLST

EKPHKCTVCL**K**AFSQSSNLIT

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RSTSNVEIDV**K**DFIREVLLKL

KLCLNDNENT**K**IKNGASYCIV

IGLATMEIVF**K**VLNTETSTLI

STLIAKIAAL**K**LLKACLLQMS

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SIIYENLVFI**K**NDFSRKHFSS

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AILTIPRVLD**K**FIDALPDIKP

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LALKSDKELI**K**SATLIAFTYY

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VLSQVISYNP**K**EPHSRKEILQ

VVVQSQECLE**K**LLDNINMDNY

LVLEFITVFL**K**KKPNDGFLPD

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ILEAVVVRLI**K**TQNISTEQNL

VLCFLTCNDP**K**QTVDFLSSFQ

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FEVIRGEKRI**K**ENIVALSNLF

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LFVSELSFQS**K**QPNPEQLITS

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HHFIDGFNEE**K**SNWMRYVNPA

NGMNIYFYTI**K**PIPANQELLV

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KNELCPKNVP**K**REYSVKEILK

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RSNISPLTSE**K**DLDDFRRRGS

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QGEEEANDVW**K**AAEFLQMLEA

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SAPLEENTTG**K**NEAKKRKIAE

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HMKSHSTESF**K**CEICNKRYLR

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CFEMPMEGFG**K**VTLSKELLVD

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RRGVFPDNFV**K**LLPPDFEKEG

PDFEKEGNRP**K**KPPPPSAPVI

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ADEASTAELS**K**PTVQPWIAPP

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RYLETHPRPP**K**PDPVKSVSSV

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ANEMMENAHT**K**TVEEVLGHFG

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VFDTELKGLS**K**IERANACNSV

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RCTHIRVGST**K**VPMTSGVKQK

PPRIEVASSV**K**LCRQAGIRVI

IRVIMITGDN**K**GTAVAICRRI

IFGQDEDVTS**K**AFTGREFDEL

RCFARVEPSH**K**SKIVEFLQSF

GDGVNDAPAL**K**KAEIGIAMGS

IAMGSGTAVA**K**TASEMVLADD

EEGRAIYNNM**K**QFIRYLISSN

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FYQLSHFLQC**K**EDNPDFEGVD

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LPVILMDETL**K**FVARNYLEPA

PALTPTPFSV**K**DILNLEQQQR

AELGRAPSPA**K**CASAFPAAPA

PDPAKDPRAE**K**KELCALQKAV

CALQKAVELE**K**TEADNAERPR

AERPRARRRR**K**PRVLFSQAQV

IAVPVLVRDG**K**PCLGDSAPYA

AIVEESETFI**K**GKERKTYQRR

LQGAYENEVS**K**EGLAESEPMI

LPLPEGFQVV**K**VGANGEVETL

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KSKLRYTEEG**K**DVDVSVYDFE

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NMKPPKPTKI**K**KKGVKKTFQC

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SGELVRHRRY**K**HTHEKPFKCS

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HARFTQSGTM**K**MHILQKHTEN

ILQKHTENVA**K**FHCPHCDTVI

CPHCDTVIAR**K**SDLGVHLRKQ

RKQHSYIEQG**K**KCRYCDAVFH

HERYALIQHQ**K**SHKNEKRFKC

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GNPGATGPPL**K**PAVTLTSTPA

LTSTPAQGES**K**RITLVLQQPQ

RHVVLGSLPG**K**IVLQGNQLAA

GNQLAALTQA**K**SAQGQPAKVV

IQLQVQQPQQ**K**IQIVPQPPSS

NPGQRLSVPL**K**MVLQPQAGSS

QGASSGLSVV**K**VLSASEVAAL

PASCAPHTAG**K**TGMEENRRLE

MEENRRLEHQ**K**KQEKANRIVA

PSVRPEEEGE**K**KRRKKSSGER

KSSGERLKEE**K**PKKSKTAAAS

KSKTAAASKT**K**GKSKLNTITP

KLNTITPVVG**K**KRKRNTSSDN

PREDEESSIQ**K**RRSNRQVKRK

PSEEDAAIVD**K**VLSMRVVKKE

QYTEAEEFFV**K**YKNYSYLHCE

CEWATISQLE**K**DKRIHQKLKR

IHQKLKRFKT**K**MAQMRHFFHE

RILDESHSVD**K**DNGEPVIYYL

LPYEDSTWEL**K**EDVDEGKIRE

KRIQSRHPEL**K**RVNRPQANAW

WKKLELSHEY**K**NRNQLREYQL

QMIQQYEMYC**K**DSRGRLIPGA

CVIIDEAHRL**K**NRNCKLLDSL

DSLKHMDLEH**K**VLLTGTPLQN

SQFPSESEFL**K**DFGDLKTEEQ

GDLKTEEQVQ**K**LQAILKPMML

ILKPMMLRRL**K**EDVEKNLAPK

IIEVELTNIQ**K**KYYRAILEKN

ILEKNFSFLS**K**GAGHTNMPNL

NLLNTMMELR**K**CCNHPYLING

HPYLINGAEE**K**ILMEFREACH

HLQAMVRSAG**K**LVLIDKLLPK

LLPKLKAGGH**K**VLIFSQMVRC

LRQAAIDRFS**K**PDSDRFVFLL

RNSYEREMFD**K**ASLKLGLDKA

GNITGIQQFS**K**KEIEDLLRKG

AIMEEDDEGS**K**FCEEDIDQIL

TTTITIESEG**K**GSTFAKASFV

ISLDDPNFWQ**K**WAKKADLDMD

ADLDMDLLNS**K**NNLVIDTPRV

RKQTRHFSTL**K**DDDLVEFSDL

YGRTDCFRVE**K**HLLVYGWGRW

WRDILSHGRF**K**RRMTERDVET

LLHYRGDENI**K**SFIWDLISPA

WDLISPAENG**K**TKELQNHSGL

GLSIPVPRGR**K**GKKVKSQSTF

VKSQSTFDIH**K**ADWIRKYNPD

PDTLFQDESY**K**KHLKHQCNKV

RQEVIGDQAE**K**VLGGAIASEI

PTTWWDSEAD**K**SLLIGVFKHG

LIGVFKHGYE**K**YNTMRADPAL

RADPALCFLE**K**AGRPDDKAIA

SDLVEGIDFD**K**DCEDPEYKPL

PEYKPLQGPP**K**DPDDEGDPLM

RLVTAYQRSY**K**REQMKIEAAE

RRRRRCEAAF**K**LKEIARREKQ

DRFRTFARLD**K**KTDESLTKYF

LCQPPGLELP**K**WWEPVRHDGE

SPLRPDVPAE**K**SPEENAVQVP

QVPSLDSLTL**K**LEDEVVARSR

APLSRSVPPV**K**LEDDDDSDSE

SDESEDEKEE**K**LTADRSRPKL

QERQRASEWP**K**DRVLINRIDL

DLVCQAVLSG**K**WPSNRRSQEM

AVTTAAAQFT**K**LRRGMDEKEF

MDEKEFTVQI**K**DEEGLKLTFQ

VMGDGHPLFH**K**KKGNRKKLVE

DLETRIPVIN**K**VDGTLLVGDE

RFLAYMEERR**K**QKWQRCKKNN

PVQPANSRNG**K**KGHYAETAFN

LPGPIAPENS**K**KRVRRTRPDL

GECVMMVCEG**K**RSTSCPCFFL

SCPCFFLLTA**K**FYWILTMMQR

GERGVPCGDL**K**KEKGIHRLEA

AMLYAIDQIN**K**DPDLLSNITL

IMVANILRLF**K**IPQISYASTA

IGGVCIAQSQ**K**IPREPRPGEF

PRPGEFEKII**K**RLLETPNARA

DDIRRILEAA**K**KLNQSGHFLW

NFGCKLGSHG**K**RNSHIKKCTG

SMAYALHNMH**K**ELCPGYIGLC

YDIFQYQINN**K**STEYKIIGHW

IGHWTNQLHL**K**VEDMQWANRE

MCFSYAALLT**K**TNRIHRIFEQ

LDPENARGVL**K**CDISDLSLIC

RGVPETFNEA**K**PIGFTMYTTC

AVVTAATMQS**K**LIQKGNDRPN

ESLETNTSST**K**TTYISYSNHS

PGPLPAPAGD**K**GDLLLQAVQQ

ASWGADPVPT**K**APGEGQEGLP

FPSPAELPDQ**K**QLRYTEELLR

HIFSGAHGPE**K**DFPLHLGKNV

SVALPFPSIS**K**QHAEIEILAW

LNGTQILRPP**K**VLSPGVSHRL

VDFLSERRMV**K**KSRTTSSSVI

AARRGATVEA**K**QSEAEVVTEI

AEVVTEIQLE**K**DQPLVKERDN

PLVKERDNDT**K**VKRGAGNGVV

IPATPVVIPM**K**KRKIFHGVGT

AGSDTDVEEG**K**APQAVPLEKS

VSAALTLAHL**K**ESQPAIWNRD

LPVENREAVL**K**DHTKIRALVR

IRALVRAHSE**K**DQPPFGDSDD

GDSDDSVEAD**K**SSPGIHLERS

TTVDINTQVE**K**EVPPGSAIIH

PPGSAIIHIK**K**HQVSVEGTNQ

SVEGTNQTDV**K**AVGGPAKLLV

LTASVVADVR**K**SQLPAEGDAG

AGAEWAAAVL**K**QERAHEVGAQ

REREQHVGGT**K**DSEDNYGDSE

IQGRGRQTVD**K**VMGIPKETAE

ERGPLERETE**K**LLPERQTDVT

TDVTGEEELT**K**GKQDREQKQL

ARDTQRQESD**K**NGESASPERD

ASPERDRESL**K**VEIETSEEIQ

SEEIQEKQVQ**K**QTLPSKAFER

RECDPAELEE**K**VPKVILERDT

GEPEGGSQDQ**K**GQASSPTPEP

GSPVSPRRHQ**K**GLLNCKMPPA

EKASRIRAAE**K**VSRGDQESPD

TVPEAPAPPQ**K**PLNSQSQKHL

PLLSPLLPSI**K**PTVRKTRQDG

LSSELEPFHP**K**PKIRTRKSSR

STSTAQPVTP**K**PTSQATRSRT

TRSRTNRSSV**K**TPEPVVPTAP

TPETLVPTAP**K**LEPSTSTDQP

PEAIAQGGQS**K**TLRSSTVRAM

PEPITQPSCI**K**RQRAAGNPGS

PGSLAAPIDH**K**PCSAPLEPKS

ETPIHASQIQ**K**VEPAGRSRFT

RSRFTPELQP**K**ASQSRKRSLA

LATMDSPPHQ**K**QPQRGEVSQK

PGKEEDVVTP**K**PGKRKRDQAE

RIPSRSLRRT**K**LNQESTAPKV

LVTDRIRRTV**K**FLCALGRGIP

LSLDWLHQSR**K**AGFFLPPDEY

EYVVTDPEQE**K**NFGFSLQDAL

TYLPSMPRSY**K**PQRVVITCPQ

SPEFLLTGVL**K**QEAKPEAFVL

EVASEDEATV**K**RLRREETHVC

LSHQPTSPGS**K**DCHRENGGSS

PTPQDISYLA**K**GKVANTNVTL

HSSGAGADTL**K**TLGSHMSQQV

VSAAVALLSQ**K**AGSQGLSLDA

GLSLDALKQA**K**LPHANIPSAT

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ANNNSARRGR**K**LAIENTMALL

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SQSGISADVE**K**PSATDGVPKH

HQFPHFLEEN**K**IAVSVAIKNE

GGEQEGDDFE**K**IYPTSENIEP

AVQNIDDEQA**K**PENHLENGSE

TSDTADDNHE**K**EQQQEWAHIL

WAHILQQEIL**K**SDGEPLRENT

QELNTNEEEE**K**EPEKHEHAAP

EKHEHAAPND**K**LSSKKSSKKK

KKSSKKKKKD**K**SKNRESSKDK

SKKSKSSSHS**K**KHAKDRNKEK

AKDRNKEKQS**K**PTNNENTLDL

ENDNAAIDTA**K**QTVDIQDNSH

EAQALVEATL**K**AFENELLSSA

SSRKAVEPPR**K**PTADDIPLAM

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VPKSSSKSEK**K**TAISRRASKK

SSVELTEVPS**K**PKKPSKTEVS

KPSKTEVSLE**K**KLRKKYVSIA

IANEAASVAR**K**KRWAKNKELK

AKNKELKEKE**K**LERQTAREER

RQTAREERRH**K**KKLEKQRLAE

PPYPPDLRLT**K**SGKPKKPYRR

YRRWTPEELL**K**RSQEAEKPRK

PRKVKKERKK**K**EKKMKVPSSA

KMKVPSSALK**K**IPLFNFVKGN

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DGVRRILSRP**K**SEDHEWPLSD

SASQNYDAHL**K**TVVHKEKIPF

PPFALPVARR**K**KIPNIKKYRK

KRTNNSFRVS**K**EGTASTRNRI

AILLPIINTL**K**AAAKSQTAAG

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TVIRAALQAR**K**NSMQAAHSKG

TELATTASRM**K**NPLKMIPIFN

MIPIFNTSRV**K**QQLDKQLPAR

TEISSSESPD**K**ATPDPHSNST

AVSTIEPSQD**K**LELTKRAESV

EPVENNVETA**K**ETQSVQEIKE

VQEIKENVGT**K**ASEEVTLTED

LTEDKTNGDP**K**NEKRILIESP

KRILIESPVE**K**TDKKKPGEKI

DLNEDASLSD**K**KDGDEKSTLH

EPDSVNTTTG**K**PKLIDVSLKP

DVSLKPLNEA**K**PKIPIIFPLK

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QYEDENVKYL**K**KTPRQVLNLD

LVPPSGRCIT**K**AKRVRRIKKL

DATTAPEADG**K**ANSESITYTF

DIPSPEEVQS**K**RSVVLKFAKA

RLTEAELSCL**K**KEINNVRKRR

KRRWREMNST**K**NWEYDVKSRL

AFFGEGESET**K**SKWIEERFQE

ERFQEKVSQE**K**YKDRLETTET

ETTETQANNT**K**IVIDDKEILN

ILAVNMNNLN**K**ARCIEKDIQE

KDIQESFREE**K**LASLQPKKKR

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MQEERRAKRR**K**RDEDRHDINK

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TRYHVLVNLG**K**KITDYGGDKE

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RFYDDAIVSQ**K**KADEVLEILK

LLGFNTFDFI**K**VLRQHRMMIL

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VATFLRVDPA**K**GLFYFDNSFR

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FQIMNEIVYE**K**IMEHAGKNQV

NQVLVFVHSR**K**ETGKTARAIR

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RTLVEDLFAD**K**HIQVLVSTAT

VNLPAHTVII**K**GTQVYSPEKG

GRAGRPQYDT**K**GEGILITSHG

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EIVLGNVQNA**K**DAVNWLGYAY

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FRVFSLSSEF**K**NITVREEEKL

VKESIEEPSA**K**INVLLQAFIS

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QSMCPLRQFR**K**LPEEVVKKIE

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TIHKYVHLFP**K**LELSVHLQPI

TITPDFQWDE**K**VHGSSEAFWI

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QLPHFTSEHI**K**RCTDKGVESV

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SAPPPSQPPV**K**SKSCEFCGKT

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PQDQEDLEPV**K**KKMRGDGDLD

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GRPDPLTLYH**K**GIASAKTYYR

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VANDVIPNLL**K**EAASLLEAGE

HLLRFYDGIC**K**WEEGSPTPVL

LGRFEGQVRQ**K**VRIVSREAEA

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GQGAVSGPPR**K**PPGTVAGTAR

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NRTTGREIAT**K**HIKEMGALSA

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NKELNWSRQF**K**NFPHIVAGVD

LEYLNGMFSA**K**LPVIVLEYCN

LEYCNGGDVR**K**RLQSPENANG

EVRQILGALR**K**ALHFLHSQCG

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LSRPWAAQFT**K**WLASPLNSNY

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PEPILSILSR**K**FIANKFKTKE

KFKTKERWLQ**K**RVVLDMLYVL

MENSFIDSID**K**QRIIISFAYD

FAYDQLTSLL**K**EAQAKIPSRQ

RQLISSAQWE**K**LNRNYNFIIQ

RNYNFIIQSA**K**SIRSFLEACL

SFLEACLREA**K**DMVKTTNQLR

TNQLRKEVCE**K**DLFDCARFYK

ELNNDAEEFA**K**SRFKLYNEGE

YNEGEARHLP**K**SIDHMHYLYF

DHMHYLYFKT**K**ESIPVLLQQF

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PLFSPSHLTS**K**TPPPLYLPTE

PAPGGPGDFP**K**TFPYPLLLAR

EAEGMMGEAE**K**FHYIYSCDLD

SCDLDINVQL**K**IGSLEGKREQ

LEGKREQKSY**K**AVLEDPMLKF

YVTCQVFAEG**K**PLALPVRTSY

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LTIWDVYGPG**K**AVPVGGTTVS

VGGTTVSLFG**K**YGMFRQGMHD

NVEADGSEPT**K**TPGRTSSTLS

LSEDQMSRLA**K**LTKAHRQGHM

REIEMINESE**K**RSSNFMYLMV

MYLMVEFRCV**K**CDDKEYGIVY

DKEYGIVYYE**K**DGDESSPILT

SPILTSFELV**K**VPDPQMSMEN

QMSMENLVES**K**HHKLARSLRS

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KFRYYLTNQE**K**ALTKFLKCVN

CVNWDLPQEA**K**QALELLGKWK

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EDQDTQQRDP**K**THEMYLNVMR

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RLQALLGDNE**K**MNLSDVELIP

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GIIPETATLF**K**SALMPAQLFF

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ISAEVMDTYV**K**SCAGYCVITY

DFGYILGRDP**K**PLPPPMKLNK

TQSEQYQEFR**K**QCYTAFLHLR

LFAAVVEQIH**K**FAQYWRKRWY

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DLVPADEHRY**K**FNNSRWMIAG

IAGKADPEMP**K**TLYIHPDSPS

SPSTGEHWMS**K**GANFHKLKLT

KLKLTNNISD**K**HGYTILNSMH

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NGDATQSPPG**K**TASLPTHSPH

SNSEDDEPTL**K**KCKPEPSQTP

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GGFDVLDLLS**K**PKSLLDLVDF

PVGRVHRLLR**K**GHYAERVGAG

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LPNIQAVLLP**K**KTSATVGPKA

TVGPKAPSGG**K**KATQASQEYE

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ERPYSCSECG**K**CFKHHSNLTN

EKPFPCTECE**K**SFSDRACLRG

DSMMSDVAIV**K**EGWLHKRGEY

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GAEEMEVSLA**K**PKHRVTMNEF

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EKATGRYYAM**K**ILKKEVIVAK

NSRHPFLTAL**K**YSFQTHDRLC

NLMLDKDGHI**K**ITDFGLCKEG

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EYFTLKIRGR**K**RFEMFRELNE

EHPYDESKMM**K**SEDYPHETMA

CEDCDQLFES**K**AELADHQKFP

FSMVEEDFQQ**K**LESENDLQEI

LQEIHTIQEC**K**ECDQVFPDLQ

QVFPDLQSLE**K**HMLSHTEERE

ISLPGTPAMD**K**TSMVNMSHAN

PPLIPASSPV**K**GLSSTEQTNK

QILPATQDIL**K**ALSKHPSVGD

ERSSEERPFE**K**ISDQSESSDL

SDLESDIESD**K**EKFKENGKMF

FKENGKMFKD**K**VSPLQNLASI

PLQNLASINN**K**KEYSNHSIFS

GSTGLVGLQD**K**KVGALPYPSM

QSPGEVKKLQ**K**GSSESPFDLT

DEKPLTPVPS**K**PPVTPATSQD

MGSRSRASGT**K**LTEPRKNHVF

PRKNHVFGGK**K**GSNVESRPAS

EEDEDNDITG**K**TGKEPVTSNL

EETSALEMSC**K**TSPVRYKEEE

DHIRHFTDSL**K**MRKMEDNQYS

FSTSHVPEEL**K**QPLHRKSKSQ

AYAMMLSLSD**K**ESLHSTSHSS

QEMMEQVNEL**K**EKGNKALSAG

DALQCYSEAI**K**LDPQNHVLYS

LYSNRSAAYA**K**KGDYQKAYED

DYQKAYEDGC**K**TVDLKPDWGK

KPDWGKGYSR**K**AAALEFLNRF

LEFLNRFEEA**K**RTYEEGLKHE

LKHEANNLQL**K**EGLQNMEARL

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YINPDLALEE**K**NKGNECFQKG

FQKGDYPQAM**K**HYTEAIKRNP

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TRKAAALEAM**K**DYTKAMDVYQ

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AMRLILEQMQ**K**DPQALSEHLK

EHLKNPVIAQ**K**IQKLMDVGLI

GYSANESCDA**K**KSKKGPAPRV

SVTKSAVYCC**K**FGRACEMDMY

CVVPENQCAM**K**RREKKAQKEK

IPLLPDEILA**K**CQARNIPSLT

LTYNQLAVIY**K**LIWYQDGYEQ

LTVQLIVEFA**K**GLPAFTKIPQ

NNRSYTRDSY**K**MAGMADNIED

LHFCRQMFSM**K**VDNVEYALLT

VIFSDRPGLE**K**AQLVEAIQSY

NQNAEMCFSL**K**LKNRKLPKFL

FSSNELLKMM**K**LLENSSFEAI

TSGLSPSRLS**K**SQGGEEEGPL

GGEEEGPLSD**K**CSRKTLFYLI

SLFSAVREDF**K**DLKPQLWNAV

LWSFNYFFYN**K**RLKRIVFFSC

FSWEIRDRLL**K**DGHCDRSTVP

VSSISRVLRI**K**FGKKEEEDEA

ADKKEDDGEK**K**AKHSIDGILG

DVESEPDLPL**K**RKQRRSRTTF

FTAEQLEELE**K**AFERTHYPDI

ASCSQRADSI**K**PGDSLPTSQA

YGQTAVDYLA**K**NVSLSTQRRM

MNGERLLACI**K**QCIMQHFQPM

RGTFPVPDNY**K**KYKTLAFAFV

LNTDDTPVIE**K**ELDWPDPALV

FISVAFISQL**K**ATIGEGLDIN

NVKGTLNRRG**K**GIRRPKGVFF

RYMESPFVNT**K**VTAFFSYLRD

AFFSYLRDYN**K**IASEYHNNTK

WASGPNFSAL**K**NVIRCSIIHE

RCSIIHEYIS**K**FVEREQDKGH

LWGEIDSLCE**K**WQSEAEDQTE

IGNSQRMANL**K**IRRTKFKSVL

RGSSFSHDSI**K**ISLHYEEQHI

ITAVWVYLTV**K**FEEHWKPVDV

PVDVEVEFRC**K**FKERKVDGDV

SAMMASNVTN**K**TDPRSMNSRV

FIGNLNTLVV**K**KSDVEAIFSK

YGKIVGCSVH**K**GFAFVQYVNE

VLDINLAAEP**K**VNRGKAGVKR

PPIARAVVPS**K**RQRVSGNTSR

SRRGKSGFNS**K**SGQRGSSKSG

KLKGDDLQAI**K**KELTQIKQKV

SLLENLEKIE**K**EQSKQAVEMK

SKQAVEMKND**K**SEEEQSSSSV

DRGDDQLELI**K**DDEKEAEEGE

LTPPTTPVSP**K**VPPAFFQSMR

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LCAERHYDTA**K**FNCRVAQYPF

DHNPPQLELI**K**PFCEDLDQWL

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MICAYLLHRG**K**FLKAQEALDF

DFYGEVRTRD**K**KGVTIPSQRR

RYVYYYSYLL**K**NHLDYRPVAL

DYRPVALLFH**K**MMFETIPMFS

CNPQFVVCQL**K**VKIYSSNSGP

SNSGPTRRED**K**FMYFEFPQPL

FFHKQNKMLK**K**DKMFHFWVNT

ICSIERADND**K**EYLVLTLTKN

VLTLTKNDLD**K**ANKDKANRYF

KANRYFSPNF**K**VKLYFTKTVE

FDEDQHTQIT**K**VKTIQTHQDE

QCGGLGPCYD**K**VLDKSSPPPS

EPSSYICTTC**K**QPFNSAWFLL

PGTSELPGDL**K**AADGDFRHHE

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GLGALPQYGE**K**RGAFLKRAGD

AEPFPALFPR**K**PAPLPSPGLG

VGYAASRHFM**K**DPFLGFTDAR

RHMKTHGQIG**K**EVYRCDICQM

MPFSVYSTLE**K**HMKKWHGEHL

VMMVRPPCCD**K**GGVKKGPWTP

PTNTGLLRCS**K**SCRLRWTNYL

KRGNFTEHEE**K**MIVHLQALLG

WNTHLKKKLN**K**VNQDSHQELD

ANSNSNISRG**K**WERRLQTDIH

RRLQTDIHLA**K**KALSEALSPA

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AKIWLAAHWD**K**KLTKAHVFEC

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LLGVVRIYHR**K**AKYLLADCNE

LLADCNEAFI**K**IKMAFRPGVV

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ALPNHAIREL**K**QEAPSCPLAP

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EGLPPGIPFR**K**PCTFGSQNLE

VTRPFQGLIP**K**PKPILGQFPR

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VPLDDQVILL**K**AAWIELLIAN

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VPGWLQRYFN**K**NEDVCSCSTD

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DVWSDLEAEF**K**QQAISKKIKV

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YRFGHLVDLQ**K**DWRIIDEKEI

IDVILDDMIE**K**VPDQIRDYAS

IRDYASSITR**K**VNLCMPSKNG

KNGDEWTIHP**K**LIKKQISKLK

FYQIYQSELS**K**KNTLDFDDLL

LTRVRVLSNI**K**HVLVDEFQDT

IQLDLMFLFA**K**GNHHLSRGMT

LAHNFLEMGR**K**CPIEYSTIIL

ILVENYRSSQ**K**ILNTSEILIT

TSEILITQQN**K**GRQNRAPLRA

PSLVRELLYL**K**ALPNLFTFND

SALIEHRIPY**K**IIRGHSFWDS

KETRAMLNLL**K**LIFSPNDKHA

ARGLGPATGE**K**IKNALDTLAT

ATDVSCFQIL**K**DISSKKIMLD

SKKIMLDIPT**K**GRSVIADFIS

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EPIENKVITP**K**EYLRNFFNSL

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LNKKPPAEDD**K**LFSLDQLRKD

DVYGIQLSRN**K**LLGSVSDFTS

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PSKINGNYAP**K**SRVKSPEKRY

PETTSFHSPT**K**KKVYAPQYVS

SRQEFHSSTG**K**NIPFLRREDR

ISPRSSTRSL**K**GASPNKTSHM

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FWSKETMMTE**K**SWFETIFCCC

HRTPIIRREI**K**LGCFGIGSAG

IGSAGKTTFL**K**VLKGEDPRDL

LLRTNGFSTV**K**MEYDETFHLT

HLTIYDVGGD**K**GIRGIWSNYY

HSLTSNPHVQ**K**KPIFLLLNNQ

FDDVEISNET**K**IQAGQHKIVL

HKIVLFSHFN**K**YNGYLDNIKS

SATLTVMARA**K**KDRNEYQEQF

EHYVELSEGV**K**TAELALRIRQ

PIPPDPPSDP**K**SASVHIEESP

ILKDNYFLPP**K**APGRQYSRIQ

QNVLNNRVVP**K**PVVRNNLVNQ

KVLKIELETY**K**LKCKALQEEN

ALQEENRDLR**K**ASVTIQARAE

EEEFISNTLF**K**KIQALQKEKE

EKETLAVNYE**K**EEEFLTNELS

SRKLMQLQHE**K**AELEQHLEQE

LEQEQEFQVN**K**LMKKIKKLEN

IKKLENDTIS**K**QLTLEQLRRE

LVNRLWKRMD**K**LEAEKRILQE

LRAAQLQHSE**K**MAQYLEEERH

MREENLRLQR**K**LQREMERREA

CLLIQIPDEY**K**GHHVLEPPVI

VVFPTDDISL**K**CEARGRPQVE

GRPQVEFRWT**K**DGIHFKPKEE

QGIYRCYASN**K**LGTAMSHEIQ

EIQLVAEGAP**K**WPKETVKPVE

APPRIYWMNS**K**IFDIKQDERV

HFPGTRTIIQ**K**EPIDLRVKPT

VKPTNSMIDR**K**PRLLFPTNSS

IAEGFPTPTI**K**WLHPSDPMPT

TDRVIYQNHN**K**TLQLLNVGEE

TVEAAPYWLQ**K**PQSHLYGPGE

INGMSMETVN**K**DQKYRIEQGS

VVQLPARILT**K**DNQTYMAVEG

VEGSTAYLLC**K**AFGAPVPSVQ

NVTILANLQV**K**EATQITQGPR

ITQGPRSAIE**K**KGARVTFTCQ

RDLQERGDSD**K**YFIEDGKLVI

HLELSDRHLL**K**QSQVHLSWSP

PAEDHNSPIE**K**YDIEFEDKEM

EFEDKEMAPE**K**WFSLGKVPGN

VPGNQTSTTL**K**LSPYVHYTFR

HYTFRVTAIN**K**YGPGEPSPVS

SVVTPEAAPE**K**NPVDVRGEGN

NETNNMVITW**K**PLRWMDWNAP

QYRVQWRPQG**K**QETWRKQTVS

NTSTFVPYEI**K**VQAVNNQGKG

RWRPVDLAQV**K**GHLKGYNVTY

LKGYNVTYWW**K**GSQRKHSKRH

QRKHSKRHIH**K**SHIVVPANTT

LSYHPVEGES**K**EQLFFNLSDP

REGGTMALFG**K**PDFGNISATA

NYSVVSWVPR**K**GQCNFRFHIL

HILFKALPEG**K**VSPDHQPQPQ

YTQWNLQPDT**K**YEIHLIKEKV

EKVLLHHLDV**K**TNGTGPVRVS

YRSLESDNEE**K**AFGSSQPSLN

DGSFIGQYSG**K**KEKEAAGGND

DEKTMFRIPW**K**HAGKQDYNQE

IFKAWAVFKG**K**FKEGDKAEPA

WKTRLRCALN**K**SPDFEEVTDR

RSQLDISEPY**K**VYRIVPEEEQ

RIVPEEEQKC**K**LGVAPAGCMS

CGRSEIEELI**K**EPSVDEYMGM

QMVISFYYGG**K**LVGQATTTCL

RLSLSQPGLP**K**LYGPDGLEPV

PSERQRQVTR**K**LFGHLERGVL

ERGVLLHSNR**K**GVFVKRLCQG

EFPDTVPLRS**K**LILVQVEQLY

YARQLVEEAG**K**SCGAGSLMPA

GISNLPNQRY**K**IVNEEGGTFT

FINTLFQTVL**K**RADGQQHRQE

GQQHRQEPIR**K**TVEIDITRAL

IDITRALLEE**K**HFELRVNVID

PGFGDNVNNN**K**AWQPLVDFID

MRQEQQPYRT**K**KFDLRVHAVL

GLKPIDIETM**K**RLSTRANLIP

TLTAQELQQF**K**SRIRQVIEAQ

IFTPPLDADS**K**EDAKSGSNPD

AMPFAIVGSE**K**KFDNGQGTQV

NGQGTQVVAR**K**YPWGLVEIEN

IENDSHCDFR**K**LRALLLRTYL

FTLPAIAPAR**K**LSHNPRYKEE

LNGDLEEIQG**K**VKKLEEQVKS

LEEQVKSLQV**K**KSHLKLHSKK

SYSLTTSGTF**K**EGDLLINKKG

PKNSSVNDRN**K**NKSLHSNLNP

HYDTNLSYDL**K**DLKIIRVLGR

HETSGTYIAL**K**VITLDIQENI

NIRKQIILEL**K**TLHKTSYPYI

VLQGLVYLHR**K**LHLIHRDIKP

VSGQLQHTLS**K**AVTWVGTVTY

GLTILECAIG**K**FPYGSNLPHQ

GFWVLLDCIV**K**EEVPILPSTF

FRSFISECLQ**K**EPTERPTASN

ASNLLNHEFV**K**KYQNFNVEKW

FNVEKWTANL**K**QQQQQKLNAT