**List of overlapping nonamers in Flaviviridae-Human share-ome map**

AAAAAAAQG

AAAAAAGLR

AAAAAGAGS

AAAAAGTQG

AAAAASATS

AAAAGAAAA

AAAGAVVGG

AAAGLAGLL

AAAGRAAGG

AAAGVTVGV

AAALAELAR

AAALEHHHH

AAARALAEL

AAASAASSV

AAASFASFL

AAASFLLLM

AAAVAGAHG

AADGGYAFK

AADYKILGG

AAFNKGETA

AAFTAAGLV

AAGAAAGLV

AAGITLGMD

AAGLAGLLA

AAGQLLSPE

AAGRAARLR

AAIGLLGAA

AALEHHHHH

AALGSPGPD

AAPLEPAPP

AAPPVPPPR

AARALAELA

AARGAGGIA

AARGALGLT

AARRRLPRG

AASAASSVA

AASGRQTVD

AASKPNSTV

AASLRLLGA

AASLSKTKS

AASPNKELA

AATGDGPDI

AATMENAQK

ADEKPKEGV

ADGGYAFKY

ADHYQQNTP

ADKQKNGIK

ADLQDFLSR

ADTDYSIAE

ADYKILGGS

AEAAFNKGE

AEAAGRRSA

AEAAGRRVS

AECNRLHPA

AEEEANEED

AEEGDFWAE

AEITPDKAF

AELKQECLA

AELLRRSRR

AENELSRSV

AESSMLGLK

AEVGKKFEK

AEVKFEGDT

AFFLLVNGH

AFKYENGKY

AFLAAVLGW

AFNKGETAM

AFQDKLYPF

AFVAVLLGL

AFWYAVRTA

AGAAAGLVR

AGAAAQQAR

AGAKAGLTF

AGCQRVGIS

AGFSGIGRV

AGGAGAAVA

AGGGGSGGG

AGGHYLLRV

AGGLVLAVT

AGGSAARGT

AGITLGMDE

AGKQLEDGR

AGLALALLL

AGLTFLVDL

AGQDGSVVQ

AGRTALSIA

AGSLGVGVV

AGVETTTSV

AGVFMASHF

AGWSHPQFE

AHDRFGGYA

AHHHHHHSS

AIFLFVDKT

AIKAAGLRG

AKAGLTFLV

AKDPRIAAT

AKEFLENYL

AKGKSALMF

AKIQDKEGI

AKIRAKYPD

AKKEISSLT

AKPKRRKKL

AKQPPVPPP

AKYPDRVPV

ALASAIKEM

ALAVLAALT

ALDASRRPS

ALDKELKAK

ALDLGCGRG

ALEHHHHHH

ALFFFVNNT

ALGAAIAAG

ALGGAGLTG

ALGTVAVAL

ALIKVSMEN

ALITQQDLA

ALKSYEEEL

ALLGAAYLL

ALLLLAAAA

ALLLLAAAG

ALLLLFLAG

ALLLLLLFS

ALLSTVRGA

ALMDGKVYD

ALMFNLQEP

ALSKDPNEK

ALSLIYNKD

ALTPQSLRA

ALVFLDKRI

AMARGRGAA

AMDPEFMST

AMDYKDDDD

AMNTMMCSR

AMPEGYVQE

AMTINGPWA

ANEEDVLGD

ANQAFFLLV

APAGARSLV

APAGFSGIG

APAVAAPAA

APCPSQRKE

APKARVPDL

APLGGLAAA

APLLLLGLL

APLSPRPLS

APPADLQDF

APQPGPGAT

APTPPPRRR

AQFMWIIRK

AQGWGPISL

AQKGEIMPN

AQLEMEDED

AQPPPPPGP

AQSGLLAEI

AQVGQATAG

ARAAARFAG

ARALAELAR

ARASPRSRR

ARATSSLAN

ARDLEMAGI

ARGALGLTS

ARGLETKGI

ARLLALEEA

ARLLSPGAR

ARPPEGRVW

ARRRRRRQA

ARTTFKLTS

ARVPDLDKR

ARYCAECNR

ASAAAATLW

ASASASVTL

ASATAGIAS

ASGRQTVDE

ASHHHHHHS

ASKPNSTVP

ASLFAVGPS

ASLRATGIP

ASMTGGQQM

ASPNKELAK

ASPRAGPGP

ASQLSSLSL

ASRRPSPPL

ASSSLASSS

ASSSLVSSS

ASTTPASTT

ASVASSNSF

ATAAAAAAG

ATARRLARG

ATASSEPAP

ATGDGPDII

ATGGAAGRS

ATLVLAYLM

ATMENAQKG

ATMGQLYED

ATPDAPPAD

ATPRYSLEE

ATSSASQLS

ATYGKLTLK

AVALKSYEE

AVEALSLIY

AVIEHLERL

AVINAASGR

AVLLALLVL

AVLLLFLVV

AVNKDKPLG

AVRTAVINA

AVRYNGKLI

AVTNYSSSG

AWLWLLLSL

AWSHPQFEK

AWSNIDTSK

AYCERQGLS

AYLEEHAEE

AYPIAVEAL

AYSGENTFG

CAASWLRDV

CAECNRLHP

CERQGLSMR

CFSRYPDHM

CGAGVFMAS

CHHCTSPAL

CLALFRVAV

CLARGLETK

CNRLHPAEE

CPAWLWLLL

CPSDECGAG

CPSQRKENS

CQGKHRRFE

CQRVGISPD

CSRCQGKHR

CTSPALGED

CTTGKLPVP

CVESAKIRA

CVQEGNKSS

DALFFFVNN

DAPPADLQD

DASRRPSPP

DASTGVSGG

DATYGKLTL

DAVRYNGKL

DDDDKAGWS

DDDDKASDV

DDDKAGWSH

DDGNYKTRA

DDKAGWSHP

DEALKDAQT

DEAVITGES

DECGAGVFM

DEDGFLYVA

DEDTIDVFQ

DEGLEAVNK

DEKPKEGVK

DEKTAADYK

DELAGKLQS

DELNPFHVL

DFFKSAMPE

DFKEDGNIL

DFLSRIFQV

DFWAESSML

DGDVNGHKF

DGFLYVAYS

DGGYAFKYE

DGKVYDITE

DGNILGHKL

DGNYKTRAE

DGPDIIFWA

DGPVLLPDN

DGQPINETD

DGRSLSDYN

DGRTLSDYN

DGRTLSGYN

DGSVQLADH

DGSVVQFKI

DHINLKVAG

DHLKERSQE

DHMKQHDFF

DHMVLLEFV

DHSLEHRCV

DHVNMSELI

DHYQQNTPI

DIDKRKYLV

DIEPTDKVE

DIIFWAHDR

DIKDVGVDN

DILTGYGAG

DIPTTENLY

DITEWAGCQ

DITVAQFMW

DIVLDFDYW

DKAFQDKLY

DKAGWSHPQ

DKEGIPPDQ

DKELKAKGK

DKGYNGLAE

DKIVAAALA

DKLAAALEH

DKLEEKFPQ

DKLYPFTWD

DKPLGAVAL

DKQKNGIKV

DKRKYLVPS

DKTKFLVPD

DKTVPQSSL

DKVERIKER

DLDKRKYLV

DLGTENLYF

DLIKNKHMN

DLLPNPPKT

DLLTRLLQA

DLQDFLSRI

DLTSKNCLV

DLTVGQFYF

DNAGAKAGL

DNHEEDYFL

DNHYLSTQS

DPLTDEEDE

DPNEKRDHM

DPRIAATME

DPRSPGRHR

DQQRLIFAG

DRASSGDDA

DREPKSARY

DRFGGYAQS

DRLPSALTA

DRSARLADI

DRVPVIVEK

DSGTATSPP

DSLSIGRGQ

DSSSDLNVV

DSTRTGHHH

DTDYSIAEA

DTGIKVTVE

DTHRVPYHI

DTIDVFQQQ

DTIENVKAK

DTLGGGGSG

DTLVNRIEL

DTPAQLEME

DTREGGRRD

DTSKVNYGV

DTSTVPQDA

DVFQQQTGG

DVGVDNAGA

DVLGDETEE

DVNGHKFSV

DVRLIREQH

DYDIPTTEN

DYFLYVAYS

DYKDDDDKA

DYKDDDDKL

DYKILGGSV

DYNIQKEST

DYSIAEAAF

EAAFNKGET

EACFPPGPS

EAKPKRRKK

EALSLIYNK

EAMNTMMCS

EANEEDVLG

EATASDVEL

EAVITGESR

EAVNKDKPL

ECGAGVFMA

ECLARGLET

ECNRLHPAE

ECPAWLWLL

ECPSDECGA

EDALFFFVN

EDDDDKAGW

EDEDTIDVF

EDELNPFHV

EDGFLYVAY

EDGNILGHK

EDGRSLSDY

EDGRTLSDY

EDGRTLSGY

EDGSVQLAD

EDHSLEHRC

EDNHEEDYF

EDSSSSGVD

EDTIDVFQQ

EDTREGGRR

EDVASLQSF

EDVLGDETE

EDVRLIREQ

EDYFLYVAY

EEANEEDVL

EEDVLGDET

EEDYFLYVA

EEEANEEDV

EEEEAAPAD

EEEELTLTI

EEELAKDPR

EEELTLTIL

EEGDFWAES

EEGKLVIWI

EEHAEEEAN

EEIPALDKE

EEKEGIPPQ

EEKFPQVAA

EELAKDPRI

EELELDKWK

EELFTGVVP

EEPEEDDDS

EEPEEEDDS

EEPTTLPSG

EFLENYLLT

EFVTAAGIT

EGDATYGKL

EGDFWAESS

EGDTLVNRI

EGEGDATYG

EGEKIRKKY

EGGRRDPRS

EGIPPDQQR

EGIPPQQQR

EGKLVIWIN

EGKPIPNPL

EGLEAVNKD

EGRAILGLA

EGRHHHHHH

EGSLNLLGL

EGTIEVEDE

EGVKTENND

EGYVQERTI

EHAEEEANE

EHFTKLRPK

EHHHHHHSS

EHPDKLEEK

EHRCVESAK

EIDIEPTDK

EIEIDIEPT

EIMPNIPQM

EIPALDKEL

EIPRPAYDL

EITPDKAFQ

EKAIFLFVD

EKAPKARVP

EKDEDGFLY

EKDTGIKVT

EKEGIPPQQ

EKEKDEDGF

EKELPDAFL

EKFPQVAAT

EKGGGSGGG

EKGGSGGGS

EKIRKKYPD

EKPKEGVKT

EKQLPVLDK

EKRDHMVLL

EKTAADYKI

EKVSGSQIV

ELAGKLQSL

ELAKDPRIA

ELAKEFLEN

ELDGDVNGH

ELEVLAELE

ELFTGVVPI

ELIKIIRRR

ELKAKGKSA

ELKGIDFKE

ELKQECLAR

ELNPFHVLG

ELQPITGIK

ELSRSVNEF

EMAQLLGIP

EMDREPKSA

EMEDEDTID

EMPPLEGEE

ENAQKGEIM

ENELSRSVN

ENGKISRLR

ENGKYDIKD

ENLYFQGAM

ENLYFQGGI

ENLYFQGLE

ENLYFQGMS

ENLYFQGSK

ENLYFQSNA

ENNDHINLK

ENSPRGSRR

ENVKAKIQD

ENYLLTDEG

EPAPSTCPP

EPDSLSIGR

EPKSARYCA

EPRRFPRHG

EPSDTIENV

EPTDKVERI

EPYFTWPLI

EQHPTKIPV

EQRVEDVRL

ERDIQTEES

ERIKERVEE

ERQGLSMRQ

ERSPSRRRR

ERTIFFKDD

ERVEEKEGI

ERYKGEKQL

ESAKIRAKY

ESEKDEDGF

ESLETLMLI

ESSMLGLKI

ESTLHLVLR

ETAKRRSAR

ETAMTINGP

ETDTPAQLE

ETKGIKQDL

EVEPSDTIE

EVGKKFEKD

EVKFEGDTL

EVKTRASTV

EVLLEKKGC

EVYESEKDE

EWAGCQRVG

EYNYNSHNV

FAGKQLEDG

FALAAAAIA

FALMDGKVY

FALVAGALG

FCHHCTSPA

FCLLLLVAG

FDGQPINET

FEGDTLVNR

FEGTVSSLA

FEKDTGIKV

FEKGGGSGG

FEKGGSGGG

FEMDREPKS

FEPERKKSA

FEQRVEDVR

FFFVNNTIP

FFKDDGNYK

FFKSAMPEG

FFLLVNGHS

FFVNNTIPP

FGFSNLFTP

FGGYAQSGL

FGSSSTSGF

FHVLGVEAT

FICTTGKLP

FILSSILRI

FKDDGNYKT

FKEDGNILG

FKEDHSLEH

FKGQPSKPF

FKIKRHTPL

FKIRHNIED

FKQRRTFEQ

FKSAMPEGY

FKYENGKYD

FLALPPTAG

FLENYLLTD

FLFVDKTVP

FLIRKRIHL

FLLLALPPR

FLLLFLLLR

FLLPGPRQN

FLLVNGHSM

FLSRIFQVP

FLVDLIKNK

FLVPDHVNM

FLYVAYSDE

FLYVAYSGE

FMWIIRKRI

FNKGETAMT

FNLQEPYFT

FPQVAATGD

FPRHGPLSR

FQDKLYPFT

FQGLEHHHH

FRFDGQPIN

FRGRGRGRG

FSGIGRVTA

FSRYPDHMK

FSTFLLALF

FSVSGEGEG

FSVVLASYA

FTGVVPILV

FTKLRPKRN

FTQRVITGT

FTWDAVRYN

FTWPLIAAD

FVDKTVPQS

FVGVLSAGI

FVKTLTGKT

FVKTLTGRT

FVNNTIPPT

FVTAAGITL

FWAESSMLG

FWAHDRFGG

FWQKKKKQR

FWYAVRTAV

FYFLIRKRI

GAAAGSTTS

GAAARRAAR

GAAGATARG

GAAGLAGLL

GAALAWLGL

GAAVAAAAA

GAGILALLG

GAGVFMASH

GAKAGLTFL

GALASAAAA

GALLAASLR

GAMDPEFMS

GAPAGFSGI

GAPPFLASS

GASSSLVSS

GATSLTPAT

GAVALKSYE

GAVLLGLAL

GAVLVGLAA

GAVRKIRSL

GCPLPPSQP

GCQRVGISP

GDATYGKLT

GDFWAESSM

GDGGGGGGG

GDGPDIIFW

GDGPVLLPD

GDKGYNGLA

GDTLVNRIE

GDVNGHKFS

GDYKDDDDK

GEAKPKRRK

GEELFTGVV

GEEVGGVLE

GEGDATYGK

GEGEGDATY

GEIMPNIPQ

GEKIRKKYP

GEKQLPVLD

GELPPAAAA

GEMAQLLGI

GENLYFQGM

GETAMTING

GFGSSSTSG

GFLYVAYSG

GFSGIGRVT

GFSNLFTPG

GGAAARGAG

GGAAARRAA

GGAAARSAH

GGAAARSTL

GGAAASSTA

GGAAGRVTA

GGAGNDTLT

GGASGRSTP

GGAVLIGLT

GGGGGGGGG

GGGGGGGGW

GGGGNVTLT

GGGGSGGGG

GGGGSGGGR

GGGSGGGGA

GGGSGGGGE

GGGSGGGGG

GGGSGGGGS

GGGSGGGRR

GGGSGGGSG

GGGSGGGSW

GGGSGGSAW

GGGSWSHPQ

GGIPPDQQR

GGLLLLIGL

GGLVGFFSP

GGMQIFVKT

GGPARAARG

GGQPPVPPP

GGQQMGRGS

GGRRDPRSP

GGRRRRRGR

GGSAARGAR

GGSAARGTG

GGSAGSTVA

GGSAWSHPQ

GGSGGGGGG

GGSGGGGSG

GGSGGGSGG

GGSGGGSWS

GGSGGSAWS

GGSVLHLVL

GGSWSHPQF

GGVVAALTA

GGYAFKYEN

GGYAQSGLL

GHHHHHHHH

GHKFSVSGE

GHKLEYNYN

GHLLLLGPA

GHSMVSVST

GIDFKEDGN

GIKVNFKIR

GIKVTVEHP

GIPEDAANL

GIPPDQQRL

GIPPQQQRL

GISPDTHRV

GITLGMDEL

GIVGLLLTT

GKEIEIDIE

GKGHHHHHH

GKHRRFEMD

GKISRLRRE

GKKFEKDTG

GKLEHHHHH

GKLIAYPIA

GKLPVPWPT

GKLTLKFIC

GKLVIWING

GKPIPNPLL

GKPVSPVYA

GKQLEDGRS

GKQLEDGRT

GKQMNDEKT

GKSALMFNL

GKTITLEVE

GKVYDITEW

GKYDIKDVG

GLAEVGKKF

GLAGVTLGL

GLARDLAKR

GLDSTRTGH

GLEAVNKDK

GLEHHHHHH

GLETKGIKQ

GLGGAVLGV

GLKITYFAL

GLLAEITPD

GLLKGQGPM

GLLLLIGLL

GLLLLLVGV

GLLSLEEAC

GLSMRQIRF

GLSSLLSPG

GLTALLSPG

GLTFLVDLI

GLVPRGSHM

GMQIFVKTL

GNFFAAPQP

GNILGHKLE

GNIRGPVSG

GNSGSSTVA

GNYKTRAEV

GPCSPAPAP

GPCTPPPAP

GPDIIFWAH

GPGLQAKAP

GPGPSPGTP

GPGSPCPSP

GPGVDIAVA

GPLLLLLLA

GPLLVLQAG

GPPIIPPPP

GPSVPQPAP

GPVLLPDNH

GPWAWSNID

GQDGSVVQF

GQFYFLIRK

GQLEHHHHH

GQLYEDNHE

GQLYEKEKD

GQPINETDT

GQPSKPFVG

GQRQVGVGY

GQRRPSPVP

GRALASPHG

GRAVVLTTL

GRGQRRPSP

GRGRGRGGG

GRGRGRGRG

GRGSHHHHH

GRGVLLGGV

GRLVCKEDY

GRQRATPDA

GRQTVDEAL

GRRDPRSPG

GRSLSDYNI

GRTITLEVE

GRTLSDYNI

GRTLSGYNI

GRVAQVLRL

GRVTALDAS

GSAGHTTLG

GSAGRARLR

GSAPGIGAA

GSAPSSAAS

GSAWSHPQF

GSDSESCSS

GSEPDSLSI

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GSGGGSGGG

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GSGGSAWSH

GSGKSTQVP

GSGQSPSSG

GSGSGSAAA

GSGSHHHHH

GSHHHHHHG

GSISRNSDR

GSLARFRNI

GSLGVGVVA

GSMIGVRSR

GSPHHRNVY

GSPPALASS

GSPPSLSSS

GSQIVDIDK

GSRRPRRRR

GSRSHHHHH

GSSAWSHPQ

GSSGPPAVS

GSSGSSGVD

GSSGSSGVN

GSSHHHHHH

GSSSHHHHH

GSTAHAAAG

GSTGLPKGV

GSVLHLVLA

GSVQLADHY

GSVVQFKIK

GSWSHPQFE

GTAARGVSG

GTENLYFQS

GTGSDVGSY

GTKPQRASL

GTLLLSLLL

GTTFTSGGS

GTTVTVTSA

GTVAVALGA

GVASAASAG

GVDLGTENL

GVDNAGAKA

GVEATASDV

GVEDDSRAL

GVEGRAASG

GVERALAPP

GVGLFLLLL

GVHECPAWL

GVKTENNDH

GVQCFSRYP

GVTGDGTTT

GVTVLPTFK

GVVGSGVRG

GVVPILVEL

GVWVAAQLA

GWSHPQFEK

GYAFKYENG

GYAQSGLLA

GYNGLAEVG

GYNIQKEST

GYVQERTIF

HAEEEANEE

HCTSPALGE

HDFFKSAMP

HDRFGGYAQ

HDYDIPTTE

HECPAWLWL

HEEDYFLYV

HENLYFQGM

HENLYFQGS

HFTKLRPKR

HGAGSRSLA

HGLSASSLH

HHCTSPALG

HHDYDIPTT

HHENLYFQG

HHHDYDIPT

HHHENLYFQ

HHHHDYDIP

HHHHENLYF

HHHHHDYDI

HHHHHENLY

HHHHHGMAS

HHHHHGSGE

HHHHHHDYD

HHHHHHENL

HHHHHHGMA

HHHHHHGSG

HHHHHHGSN

HHHHHHGSS

HHHHHHHEN

HHHHHHHGS

HHHHHHHHE

HHHHHHHHG

HHHHHHHHH

HHHHHHHMS

HHHHHHSMS

HHHHHHSSG

HHHHHHSSS

HHHHHSSGL

HHHHHSSGR

HHHHHSSGV

HHHHSSGLV

HHHHSSGVD

HHHSSGLVP

HHHSSGVDL

HHSSGLVPR

HHSSGVDLG

HINLKVAGQ

HKFSVSGEG

HKLEYNYNS

HLLLFLLLL

HLRPEDALF

HLVLALRGG

HLVLRLRGG

HMKQHDFFK

HMNADTDYS

HMVLLEFVT

HNIEDGSVQ

HNVYIMADK

HPAEEGDFW

HPDKLEEKF

HPPPPPPPP

HPQFEKGGG

HPQFEKGGS

HPTKIPVII

HRCVESAKI

HRRFEMDRE

HRVPYHISF

HSLEHRCVE

HSLRTGLSA

HSMVSVSTP

HSSGLVPRG

HSSGVDLGT

HTARGLASL

HTPLSKLMK

HVLGVEATA

HVNMSELIK

HVSGGVSAR

HWRRNRRKV

HYKKYLAKL

HYLSTQSAL

HYQQNTPIG

IAADGGYAF

IAATMENAQ

IAEAAFNKG

IAGGILAAL

IAVEALSLI

IAVGLVPQY

IAYPIAVEA

ICTTGKLPV

IDFKEDGNI

IDIEPTDKV

IDKNEEKRT

IDKRKYLVP

IDPAKGGRK

IDTSKVNYG

IDVFQQQTG

IEDGSVQLA

IEEGKLVIW

IEGRHHHHH

IEIDIEPTD

IEKKKKKKK

IELKGIDFK

IENVKAKIQ

IEPTDKVER

IERYKGEKQ

IETPGLAIP

IFAGKQLED

IFFKDDGNY

IFLFVDKTV

IFQVPPGQM

IFVKTLTGK

IFVKTLTGR

IFWAHDRFG

IGDGPVLLP

IGGDGNDTL

IGGVLVVLA

IGPLGPTGL

IGRGQRRPS

IGRVTALDA

IHLRPEDAL

IIERYKGEK

IIFWAHDRF

IIQAGKRSL

IIRKRIQLP

IIRRRLQLN

IKAAGLRGC

IKDVGVDNA

IKERVEEKE

IKIIRRRLQ

IKLVLRALR

IKNKHMNAD

IKRHTPLSK

IKRLIEQEV

IKVKTLTGK

IKVNFKIRH

IKVTVEHPD

ILAAVLLEL

ILAGKQLED

ILGGSVLHL

ILGHKLEYN

ILVELDGDV

IMADKQKNG

IMPNIPQMS

INAASGRQT

INALKRQYS

INETDTPAQ

INFHGKKLK

INGDKGYNG

INGPWAWSN

INLKVAGQD

IPALDKELK

IPAVLLTAL

IPEDAANLR

IPGEGHTLQ

IPLLLLLPL

IPNPLLGLD

IPPDQQRLI

IPPPPPVEV

IPPQQQRLI

IPPTSATMG

IPQMSAFWY

IPTTENLYF

IPVETIETT

IPVIIERYK

IQDKEGIPP

IQKESTLHL

IQLPSEKAI

IRAKYPDRV

IREQHPTKI

IRFRFDGQP

IRGSEPDSL

IRHNIEDGS

IRKKYPDRV

IRKRIHLRP

IRKRIQLPS

IRPVLGERV

IRRRLQLNA

ISGVTAAYN

ISPDTHRVP

ISRLLDLVV

ISRLRRECP

ISYANVTGP

ITEWAGCQR

ITLEVEPSD

ITLGMDELY

ITPDKAFQD

ITPEDTLQL

ITVAQFMWI

ITYFALMDG

IVDIDKRKY

IVEKAPKAR

IVEKVSGSQ

IVNASVGSG

IVSSILRIP

IWINGDKGY

IYNKDLLPN

IYSGKQMND

KAAAAAKAA

KAAKAGLLA

KAFQDKLYP

KAGKRVLVL

KAGLTFLVD

KAGWSHPQF

KAIFLFVDK

KAKAAAAAA

KAKALGATD

KAKGKSALM

KAKIQDKEG

KAPKARVPD

KARRSRSRS

KARVPDLDK

KASQTLTSF

KATAAAAAA

KATAAARRA

KAYCERQGL

KDDDDKAAA

KDDGNYKTR

KDEDGFLYT

KDEDGFLYV

KDKPLGAVA

KDLLPNPPK

KDPNEKRDH

KDPRIAATM

KDTGIKVTV

KDVGVDNAG

KEDGNILGH

KEDHSLEHR

KEDTREGGR

KEFLENYLL

KEGEKIRKK

KEGIPPDQQ

KEGIPPQQQ

KEGVKTENN

KEIEIDIEP

KEKDEDGFL

KELAKEFLE

KELKAKGKS

KENSPRGSR

KERVEEKEG

KESTLHLVL

KFEGDTLVN

KFEKDTGIK

KFICTTGKL

KFLVPDHVN

KFPQVAATG

KFSVSGEGE

KGEAKPKRR

KGEELFTGV

KGEIMPNIP

KGEKQLPVL

KGETAMTIN

KGGGGGGGG

KGGGSGGGS

KGGSGGGSG

KGIDFKEDG

KGKSALMFN

KGLERVSVV

KGQPSKPFV

KGQVTISAD

KGYNGLAEV

KHHHHHHGK

KHHHHHHGS

KHMNADTDY

KHRRFEMDR

KIEEGKLVI

KIIRRRLQL

KIKRHTPLS

KILGGSVLH

KIPVIIERY

KIQDKEGIP

KIRAKYPDR

KIRHNIEDG

KIRKKYPDR

KISRLRREC

KITYFALMD

KKEGEKIRK

KKFEKDTGI

KKLAELKQE

KKLEHHHHH

KKLSSSLKV

KKYPDRVPV

KLAAALEHH

KLAELKQEC

KLEEKFPQV

KLEHHHHHH

KLEYNYNSH

KLIAYPIAV

KLIDALIEN

KLMKAYCER

KLPVPWPTL

KLRPKRNKK

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TLTGKTITL

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TPTPPPRRR

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TSATMGQLY

TSETSSVSS

TSGVSGASA

TSGVTSLFS

TSKVNYGVT

TSLFLPGAS

TSLLKSSPT

TSPALGEDE

TSRSASLRA

TSSEAPPSG

TSSEATSSG

TTAPSGPTP

TTENLYFQG

TTGKLPVPW

TTSSEAPPS

TVAQFMWII

TVDEALKDA

TVEHPDKLE

TVGQFYFLI

TVLPTFKGQ

TVPKGEAKP

TVPQSSLTM

TVPVSAAGS

TVRRRRDSL

TVSAALAAL

TWDAVRYNG

TWEEIPALD

TWPLIAADG

TYFALMDGK

TYGKLTLKF

VAAAAPALP

VAAAILWLL

VAALGLTAV

VAALLLAAG

VAASCGGGV

VAASKVKAD

VAASKVKAN

VAATGDGPD

VAETGSGKT

VAGAALGLV

VAGGLLSPA

VAGQDGSVV

VALGISAVA

VALKSYEEE

VAQFMWIIR

VAVREAGAL

VAYSGENTF

VDAHPGSGK

VDEALKDAQ

VDGHTKVTG

VDIDKRKYL

VDKLAAALE

VDKTVPQSS

VDLGTENLY

VDLIKNKHM

VDNAGAKAG

VEALSLIYN

VEATASDVE

VEDVRLIRE

VEEEEEKPR

VEEKEGIPP

VEHPDKLEE

VEIHASHPY

VEKAPKARV

VEKARDESK

VEKVSGSQI

VELDGDVNG

VEPQPPPQG

VEPSDTIEN

VERIKERVE

VESAKIRAK

VESGGRLVS

VGASGVGKT

VGGGGSGGG

VGGVLTSVG

VGISPDTHR

VGKKFEKDT

VGQFYFLIR

VGVDNAGAK

VHECPAWLW

VHGLTTLFS

VIAGGILAA

VIIERYKGE

VIMHTPGCM

VINAASGRQ

VISSSGGRA

VIVEKAPKA

VIVEKVSGS

VIVGHIVLG

VIWINGDKG

VIYQDYKRP

VKAAIKKRL

VKAKIQDKE

VKFEGDTLV

VKKLIDSLI

VKTENNDHI

VKTLTGKEI

VKTLTGKTI

VKTLTGRTI

VKTRASTVS

VLALLSLSG

VLDKTKFLV

VLGDETEEE

VLGDYKDDD

VLGVEATAS

VLHLVLALR

VLLASLVLL

VLLCALAAA

VLLEFVTAA

VLLLFLVVE

VLLLLLLLA

VLLLLLLLV

VLLLTVGRW

VLLPDNHYL

VLLPVLLSI

VLPLLLTSS

VLPTFKGQP

VLQAFGLKG

VLRLRGGMQ

VLVLLILTL

VLVSFSALS

VNEFLSKLQ

VNFKIRHNI

VNGHKFSVS

VNGHSMVSV

VNKDKPLGA

VNMSELIKI

VNNTIPPTS

VNRIELKGI

VNYGVTVLP

VPDHVNMSE

VPDLDKRKY

VPESPRRMM

VPILVELDG

VPKGEAKPK

VPLVITVAA

VPPPPGEES

VPPPPSGGR

VPPPRKKRI

VPPVPKPRT

VPQSSLTMG

VPRGSHMGS

VPSDITVAQ

VPSDLTVGQ

VPVIVEKAP

VPVIVEKVS

VPWPTLVTT

VPYHISFGS

VQCFSRYPD

VQERTIFFK

VQFKIKRHT

VQLADHYQQ

VRLIREQHP

VRSLPLLLS

VRTAVINAA

VRYNGKLIA

VSAPTGSGK

VSGEGEGDA

VSGSQIVDI

VSKGEELFT

VSSVARSTI

VSVPVSEIR

VTAAGITLG

VTALDASRR

VTGASVGRG

VTVEHPDKL

VTVLPTFKG

VVIVGHIVL

VVLVLLILT

VVPILVELD

VVQFKIKRH

VYASQETFG

VYDITEWAG

VYESEKDED

VYIMADKQK

WAESSMLGL

WAGCQRVGI

WAHDRFGGY

WAKVIGILF

WAWSNIDTS

WDAVRYNGK

WEEIPALDK

WGGWLPSPL

WGVLASLAY

WIIRKRIQL

WINGDKGYN

WLLLSLLSL

WLLPPRGSR

WLPVLLGSF

WLWLLLSLL

WMFKEDHSL

WPLIAADGG

WPLLLLLLL

WPTLVTTLT

WSHPQFEKG

WSNIDTSKV

WVLAGGLLA

WYAVRTAVI

YAEVKRVGD

YAFKYENGK

YAQSGLLAE

YARESRVTL

YAVRTAVIN

YCAECNRLH

YCERQGLSM

YDIKDVGVD

YDIPTTENL

YDITEWAGC

YEDNHEEDY

YEEELAKDP

YEKEKDEDG

YENGKYDIK

YESEKDEDG

YFALMDGKV

YFLIRKRIH

YFLYVAYSD

YFQGLEHHH

YFTWPLIAA

YGKLTLKFI

YGVQCFSRY

YGVTVLPTF

YHHHHHHDY

YIMADKQKN

YKDDDDKAA

YKDDDDKLE

YKGEKQLPV

YKILGGSVL

YKTRAEVKF

YLEEHAEEE

YLLTDEGLE

YLSTQSALS

YLVPSDITV

YLVPSDLTV

YNGKLIAYP

YNGLAEVGK

YNIQKESTL

YNKDLLPNP

YNSHNVYIM

YNYNSHNVY

YPDHMKQHD

YPDRVPVIV

YPFTWDAVR

YPIAVEALS

YPPDGGLVV

YQQNTPIGD

YSGKQMNDE

YSIAEAAFN

YTPSPAPNY

YVAYSGENT

YVQERTIFF

YYHHHHHH