

Lista de secuencias

1 Información sobre la lista de secuencias

1-1	Nombre del fichero	908 968.xml
1-2	Versión de la DTD	V1_3
1-3	Nombre del software	WIPO Sequence
1-4	Versión del software	2.3.0
1-5	Fecha de producción	2023-11-07

2 Información general

2-4	Solicitud actual: Referencia al expediente del solicitante	908 968
2-5	Solicitud de prioridad más antigua: Oficina de PI	EP
2-6	Solicitud de prioridad más antigua: Número de solicitud	22 383 069.6
2-7	Solicitud de prioridad más antigua: Fecha de presentación	2022-11-07
2-8en	Nombre del solicitante	Chemo Research S.L.
2-10en	Título de la invención	Método mejorado para la detección, el diagnóstico o la monitorización de la endometriosis, kit y usos del mismo
2-11	Número total de secuencias	5

3-1 Secuencias

3-1-1	Identificador de la secuencia	1
3-1-2	Tipo de molécula	AA
3-1-3	Extensión	247

3-1-4-1 Características Localización/Calificadores

source 1..247

mol_type = protein

organism = Homo sapiens

3-1-4-2 Características Localización/Calificadores

REGION 1..247

note = NP_001137277.1 in the NCBI database; 247 amino acids preproprotein

3-1-5 Residuos

MTILFLTMVI SYFGCMKAAP MKEANIRGQG GLAYPGVRTH GTLESVNGPK AGSRGLTSLA60
DTFEHVIEEL LDEDQKVRPN EENNKDADLY TSRVMLSSQV PLEPPLLFL EEYKNYLDAA120
NMSMRVRRHS DPARRGELSV CDSISEWVTA ADKKTAVDMS GGTVTVLEKV PVSKGQLKQY180
FYETKCNPMG YKKEGCRGID KRHWNSQCRT TQSYVRALTM DSKKRIGWRF IRIDTSCVCT240
LTIKRGR247

3-2 Secuencias

3-2-1 Identificador de la secuencia

2

3-2-2 Tipo de molécula

AA

3-2-3 Extensión

229

3-2-4-1 Características Localización/Calificadores

source 1..229

mol_type = protein

organism = Homo sapiens

3-2-4-2 Características Localización/Calificadores

REGION 1..229

note = Precursor form (proBDNF)

3-2-5 Residuos

APMKEANIRG QGGLAYPGVR THGTLESVNG PKAGSRGLTS LADTFEHVIE ELLDEDQKVR60

PNEENNKDAD LYTSRVMLSS QVPLEPPLLF LLEEYKNYLD AANMSMRVRR HSDPARRGEL120

SVCDSISEWV TAADKKTAVD MSGGTVTVLE KVPVSKGQLK QYFYETKCNP MGYTKEGCRG180

IDKRHWNSQC RTTQSYVRAL TMDSKKRIGW RFIRIDTSCV CTLTIKRGR229

3-3 Secuencias

3-3-1	Identificador de la secuencia	3
3-3-2	Tipo de molécula	AA
3-3-3	Extensión	110
3-3-4-1	Características Localización/Calificadores	source 1..110 mol_type = protein organism = Homo sapiens
3-3-4-2	Características Localización/Calificadores	REGION 1..110 note = propeptide (amino acids 19-128 of SEQ ID NO: 1)
3-3-5	Residuos	
		APMKEANIRG QGGLAYPGVR THGTLESVNG PKAGSRGLTS LADTFEHVIE ELLDEDQKVR60
		PNEENNKDAD LYTSRVMLSS QVPLEPPLLF LLEEYKNYLD AANMSMRVRR110

3-4 Secuencias

3-4-1	Identificador de la secuencia	4
3-4-2	Tipo de molécula	AA
3-4-3	Extensión	119
3-4-4-1	Características Localización/Calificadores	source 1..119 mol_type = protein

organism = Homo sapiens

3-4-4-2 Características Localización/Calificadores

REGION 1..119

note = Sequence of the mature form (mBDNF), aminoacids 129-247 of SEQ ID NO: 1

3-4-5 Residuos

HSDPARRGEL SVCDSISEWV TAADKKTAVD MSGGTVTVLE KVPVSKGQLK QYFYETKCNP60

MGYTKEGCRG IDKRHWNSQC RTTQSYVRAL TMDSKKRIGW RFIRIDTSCV CTLTIKGRGR119

3-5 Secuencias

3-5-1 Identificador de la secuencia

5

3-5-2 Tipo de molécula

AA

3-5-3 Extensión

14507

3-5-4-1 Características Localización/Calificadores

source 1..14507

mol_type = protein

organism = Homo sapiens

3-5-4-2 Características Localización/Calificadores

REGION 1..14507

note = human CA125 (human mucin 16)

3-5-5 Residuos

MLKPSGLPGS SSPTRSLMTG SRSTKATPEM DSGLTGATLS PKTSTGAIVV TEHTLPFTSP60

DKTLASPTSS VVGRTTQSLG VMSSALPEST SRGMTHSEQR TSPSLSPQVN GTPSRNYPAT120

SMVSGLSPPR TRTSSTEGNF TKEASTYTLT VETTS GPVTE KYTVPTETST TEGDSTETPW180

DTRYIPVKIT SPMKTFADST ASKENAPVSM TPAETTVTDS HTPGRTNPSF GTLYSSFLDL240

SPKGTNPNSRG ETSLELILST TGYPFSSPEP GSAGHSRIST SAPLSSASV LDNKISETSI300

FSGQSLTSPL SPGVPEARAS TMPNSAIPFS MTLNSAETSA ERVRSTISSL GTPSISTKQT360

AETILTFHAF AETMDIPSTH IAKTLASEWL GSPGTLGGTS TSALTTTSPS TTLVSEETNT420
HHSTSGKETE GTLNSTMTPL ETSAPGEESE MTATLVPTLG FTTLDSKIRS PSQVSSSHPT480
RELRTTGSTS GRQSSSTA AH GSSDILRATT SSTS KASSWT SESTAQQFSE PQHTQWVETS540
PSMKTERPPA STSVAAPITT SVPSVVGFT TLKTSSTKGI WLEETSADTL IGESTAGPTT600
HQFAVPTGIS MTGGSSTRGS QGTTHLLTRA TASSETSADL TLATNGVPVS VSPAVSKTAA660
GSSPPGGTKP SYTMVSSVIP ETSSLQSSAF REGTSLGLTP LNTRHPFSSP EPDSAGHTKI720
STSIPLLSSA SVLEDKVSAT STFSHHKATS SITTGTPEIS TKTKPSSAVL SSMTLSNAAT780
SPERVRNATS PLTHPSPSGE ETAGSVLTLS TSAETDSPN IHPTGTLTSE SSESPSTLSL840
PSVSGVKTTF SSSTPSTHLF TSGEETEETS NPSVSQPETS VSRVRTTLAS TSVPTPVFPT900
MDTWPTRSAQ FSSSHLVSEL RATSSTSVTN STGSALPKIS HLTGTATMSQ TNRDTFNDSA960
APQSTTWPET SPRFKTGLPS ATTTVSTSAT SLSATVMVSK FTSPATSSME ATSIREPSTT1020
ILTTETTNGP GSMMAVASTNI PIGKGYITEG RLDTSHLPIG TTASSETSMD FTMAKESVSM1080
SVSPSQSMDA AGSSTPGRTS QFVDTFSDDV YHLTSREITI PRDGTSSALT PQMTATHPPS1140
PDPGSARSTW LGILSSSPSS PTPKVMSST FSTQRVTTSM IMDTVETSRW NMPNLPSTTS1200
LTPSNIPTSG AIGKSTLVPL DTPSPATSLE ASEGGLPTLS TYPESTNTPS IHLGAHASSE1260
SPSTIKLTMA SVVKPGSYTP LTFPSIETHI HVSTARMAYS SGSSPEMTAP GETNTGSTWD1320
PTTYITTTDP KDTSSAQVST PHSVRTLRRT ENHPKTESAT PAAYSGSPKI SSSPNLTSPA1380
TKAWTITDTT EHSTQLHYTK LAEKSSGFET QSAPGPVSVV IPTSPTIGSS TLELTSDVPG1440
EPLVLAPSEQ TTITLPMATW LSTSLTEEMA STDLDISSPS SPMSTFAIFP PMSTPSHELSS1500
KSEADTSAIR NTDSTTLDQH LGIRSLGRTG DLTTVPITPL TTTWTSVIEH STQAQDTLSA1560
TMSPTHVTQS LKDQTSIPAS ASPSHLTEVY PELGTQGRSS SEATTFWKPS TDTLSREIET1620
GPTNIQSTPP MDNTTGGSSS SGVTLGIAHL PIGTSSPAET STNMALEERS STATVSMAGT1680
MGLLVTSAPG RSISQSLGRV SSVLSESTTE GVTDSKSGSS PRLNTQGNTA LSSSLEPSYA1740

EGSQMSTSIP LTSSPTTPDV EFIGGSTFWT KEVTTVMTSD ISKSSARTES SSATLMSTAL1800
GSTENTGKEK LRTASMDLPS PTPSMEVTPW ISLTLSNAPN TDSLDSLHG VHTSSAGTLA1860
TDRSLNTGVT RASRENGSD TSSKSLSMGN STHTSMTYTE KSEVSSSIHP RPETSAPGAE1920
TTLTSTPGNR AISLTLPFSS IPVEEVISTG ITSGPDINSA PMTHSPITPP TIVWTSTGTI1980
EQSTQPLHAV SSEKVSQTQ STPYVNSVAV SASPTHENSV SSGSSTSSPY SSASLES LDS2040
TISRRNAITS WLWDLTSLP TTTWPSTSLS EALSSGHSGV SNPSSTTEF PLFSAASTSA2100
AKQRNPETET HGPQNTAAST LNTDASSVTG LSETPVGASI SSEVPLPMI TSRSDVSGLT2160
SESTANPSLG TASSAGTKLT RTISLPTSES LVSRFMNKDP WTVSIPLGSH PTTNTETSIP2220
VNSAGPPGLS TVASDVIDTP SDGAESIPTV SFSPSPDTEV TTISHFPEKT THSFRTISSL2280
THELTSRVTP IPGDWMSSAM STKPTGASPS ITLGERRTIT SAAPTTSPIV LTASFTETST2340
VSLDNETTVK TSDILDARKT NELPSDSSSS SDLINTSIAS STMDVTKTAS ISPTSISGMT2400
ASSSPSLFSS DRPQVPTSTT ETNTATSPSV SSNTYSLDGG SNVGGTPSTL PPFTITHPVE2460
TSSALLAWSR PVRTEFTMVS TDTASGENPT SSNSVVTSPV APGTWTSVGS TTDLPAMGFL2520
KTSPAGEAHS LLASTIEPAT AFTPHLSAAV VTGSSATSEA SLLTTSESKA IHSSPQTPTT2580
PTSGANWETS ATPESLLVVT ETSDDTLTSK ILVTDILFS TVSTPPSKFP STGTLSGASF2640
PTLLPDTPAI PLTATEPTSS LATSFDSTPL VTIASDSLGT VPETTLTMSE TSNGDALVLK2700
TVSNPDRSIP GITIQGVTE PLHPSSTSPS KIVAPRNTTY EGSITVALST LPAGTTGSLV2760
FSQSSENSET TALVDSSAGL ERASVMPLTT GSQGMASGG IRSGSTHSTG TKTFSSLPLT2820
MNPGEVTAMS EITNRLTAT QSTAPKGIPV KPTSAESGLL TPVSASSSPS KAFASLTAP2880
PTWGIPQSTL TFEFSEVPSL DTKSASLPTP GQSLNTIPDS DASTASSLS KSPEKNPRAR2940
MMTSTKAISA SSFQSTGFTE TPEGASPSM AGHEPRVPTS GTGDPRYASE SMSYPDPSKA3000
SSAMTSTSLA SKLTTLFSTG QAARSGSSSS PISLSTEKET SFLSPTASTS RKTSFLGPS3060
MARQPNILVH LQTSALTSP TSTLNMSQEE PPELTSSQTI AEEEGTTAET QTLTFTPSET3120

PTSLLPVSSP TEPTARRKSS PETWASSISV PAKTSLVETT DGLVTTIKM SSQAAQGNST3180
WPAPAEETGS SPAGTSPGSP EMSTTLKIMS SKEPSISPEI RSTVRNSPWK TPETTVPMET3240
TVEPVTLQST ALGSGSTSIS HLPTGTTSP KSPTEMLAT ERVSLSPSP EAWTNLYSGT3300
PGGTRQSLAT MSSVSLESPT ARSITGTGQQ SSPELVSKTT GMEFSMWHGS TGGTTGDTHV3360
SLSTSSNILE DPVTSPNSVS SLTDKSKHKT ETWVSTTAIP STVLNNKIMA AEQQTSRSDV3420
EAYSSTSSWS DQTSGSDITL GASPDVTNTL YITSTAQTTS LVSLPSGDQG ITSLTNPSGG3480
KTSSASSVTS PSIGLETLRA NVSAVKSDIA PTAGHLSQTS SPAEVSILDV TTAPTPGIST3540
TITTMGTNSI STTTPNPEVG MSTMDSTPAT ERRTTSTEHP STWSSTAASD SWTVTDMTSN3600
LKVARSPGTI STMHTTSFLA SSTEELDSMST PHGRITVIGT SLVTPSSDAS AVKTETSTSE3660
RTLSPSDTTA STPISTFSRV QRMSISVPDI LSTSWTPSST EAEDVPVSMV STDHASTKTD3720
PNTPLSTFLF DSLSTLDWDT GRSLSATAT TSAPQGATTP QELTLETMIS PATSQLPFSI3780
GHITSAVTPA AMARSSGVTF SRPDPTSKKA EQTSTQLPTT TSAHPGQVPR SAATLDVIP3840
HTAKTPDATF QRQGQTALT EEARATSDSWN EKEKSTPSAP WITEMMNSVS EDITKEVTSS3900
SSVLRTLNTL DINLESGTTS SPSWKSSPYE RIAPSESTTD KEAHPSTNT VETTGWVTSS3960
EHASHSTIPA HSASSKLTSP VTTTSTREQA IVSMSTTWP ESTRARTEPN SFLTIELRDV4020
SPYMDTSSTT QTSIISPPGS TAITKGPRTE ITSSKRISS FLAQSMRSSD SPSEAITRLS4080
NFPAMTESGG MILAMQTSPP GATSLSAPTL DTSATASWTG TPLATTQRFT YSEKTLFSK4140
GPEDTSQPSP PSVEETSSSS SLVPIHATTS PSNILLTSQG HSPSSTPPVT SVFLSETSGL4200
GKTTDMSRIS LEPGTSLPN LSSTAGEALS TYEASRDTKA IHHSADTAVT NMEATSSEYS4260
PIPGHTKPSK ATSPLVTSHI MGDITSSTSV FGSSETTEIE TVSSVNQGLQ ERSTSQVASS4320
ATETSTVITH VSSGDATTHV TKTQATFSSG TSISSPHQFI TSTNTFTDVS TNPSTSLIMT4380
ESSGVTITTQ TGPTGAATQG PYLLDTSTMP YLTETPLAVT PDFMQSEKTT LISKGPKDVS4440
WTSPPSVAET SYPSSLTPFL VTTIPPATST LQGQHTSSPV SATSVLTSGL VKTTDMLNTS4500

MEPVTNSPQN LNNPSNEILA TLAATTDIET IHPSINKAVT NMGTASSAHV LHSTLPVSSE4560
PSTATSPMVP ASSMGDALAS ISIPGSETTD IEGEPTSSLT AGRKENSTLQ EMNSTTESNI4620
ILSNVSVGAI TEATKMEVPS FDATAFIPTA QSTKFPDIFS VASSRLNSP PMTISTHMTT4680
TQTGSSGATS KIPLALDTST LETSAGTPSV VTEGFAHSKI TTAMNNDVKD VSQTNPPFQD4740
EASSPSSQAP VLVTTLPSSV AFTPQWHSTS SPVSMSSVLT SSLVKTAGKV DTSLETVTSS4800
PQSMSNTLDD ISVTSAAATD IETTHPSINT VVTNVGTTGS AFESHSTVSA YPEPSKVTSP4860
NVTSTMEDT TISRSIPKSS KTTRTETETT SSLTPKLRET SISQEITSST ETSTVPYKEL4920
TGATTEVSRT DVTSSSSTSF PGPDQSTVSL DISTETNTRL STSPIMTESA EITITTQTGP4980
HGATSQDTFT MDPSNTTPQA GIHSAMTHGF SQLDVTTLMS RIPQDVSWTS PPSVDKTSSP5040
SSFLSSPAMT TPLISSITLP EDKLSSPMTS LLTSGLVKIT DILRTRLEPV TSSLPNFSST5100
SDKILATSKD SKDTKEIFPS INTEETNVKA NNSGHESHSP ALADSETPKA TTQMVITTTV5160
GDPAPSTSMP VHGSSETTNI KREPTYFLTP RLRETSTSQE SSFPTDTSFL LSKVPTGTIT5220
EVSSTGVNSS SKISTPDHDK STVPPDFTG EIPRVFTSSI KTKSAEMTIT TQASPPESAS5280
HSTLPLDTST TLSQGGTHST VTQGFYSEV TTLMGMGPGN VSWMTTPPVE ETSSVSSLMS5340
SPAMTSPSPV SSTSPQSIPS SPLPV TALPT SVLVTTTDVL GTTSPESVTS SPPNLSSITH5400
ERPATYKDTA HTEAAMHHST NTAVTNVGTS GSGHKSQSSV LADSETSKAT PLMSTTSTLG5460
DTSVSTSTPN ISQTNQIQTE PTASLSPRLR ESSTSEKTSS TTETNTAFSY VPTGAITQAS5520
RTEISSRSTS ISDLDRPTIA PDISTGMITR LFTSPIMTKS AEMTVTTQTT TPGATSQGIL5580
PWDTSTTLFQ GGTHSTVSQG FPHSEITTLR SRTPGDVSWM TTPPVEETSS GFSLMSPSMT5640
SPSPVSSTSP ESIPSSPLPV TALLTSVLVT TTNVLGTTSP EPTVSSPPNL SSPTQERLTT5700
YKDTAHTeam HASMHTNTAV ANVGTSISGH ESQSSVPADS HTSKATSPMG ITFAMGDTSV5760
STSTPAFFET RIQTESTSSL IPGLRDRTS EEINTVTETS TVLSEVPTTT TTEVSRTEVI5820
TSSRTTISGP DSKMSPYIS TETITRLSTF PFVTGSTEMA ITNQTGPIGT ISQATLTLDT5880

SSTASWEGTH SPVTQRFPHS EETTTMSRST KGVSWQSPPS VEETSSPSSP VLPAITSHS5940
SLYSAVSGSS PTSALPVTSL LTSGRRKTID MLDTHSELVT SSLPSASSFS GEILTSEAST6000
NTETIHFSEN TAETNMGTTN SMHKLHSSVS IHSQPSGHTP PKVTGSMMED AIVSTSTPGS6060
PETKNVDRDS TSPLTPELKE DSTALVMNST TESNTVFSSV SLDAATEVSR AEVTTYDPTF6120
MPASAQSTKS PDISPEASSS HSNPPLTIS THKTIATQTG PSGVTSLGQL TLDTSTIATS6180
AGTPSARTQD FVDSETTSVM NNDLNDVLKT SPFSAEEANS LSSQAPLLVT TSPSPVTSTL6240
QEHSTSSLVS VTSVPTPTLA KITDMDTNLE PVTRSPQNLN NTLATSEATT DTHTMHPSIN6300
TAVANVGTTSP NEFYFTVS PDSDPYKATS AVVITSTSGD SIVSTSMPRS SAMKKIESET6360
TFSLIFRLRE TSTSQKIGSS SDTSTVFDKA FTAATEVSR TELTSSSRTS IQGTEKPTMS6420
PDTSTRSVTM LSTFAGLTKS EERTIATQTG PHRATSQGT LWDTSITTSQ AGTHSAMTHG6480
FSQLDLSTLT SRVPEYISGT SPPSVEKTSS SSSLLSLPAI TSPSPVPTTL PESRPSSPVH6540
LTSLPTSGLV KTTDMLASVA SLPPNLGSTS HKIPTTSEDI KDTEKMYPST NIAVTNVGTT6600
TSEKESYSSV PAYSEPPKVT SPMVTSFNIR DTIVSTSMGP SSEITRIEME STFSLAHGLK6660
GTSTSQDPIV STEKSAVLHK LTTGATETSR TEVASSRRTS IPGPDHSTES PDISTEVIPS6720
LPISLGITES SNMTIITRTG PPLGSTSQGT FLDTPPTSS RAGTHSMATQ EFPHSEMTTV6780
MNKDPEILSW TIPPSIEKTS FSSSLMPSPA MTSPPVSSTL PKTIHTTSP MTSLLTPSLV6840
MTTDTLGTSP EPTTSSPPNL SSTSHEILT DEDTTAIEAM HPSTSTAATN VETTSSGHGS6900
QSSVLADSEK TKATAPMDTT STMGHHTVST SMSVSSETTK IKRESTYSLT PGLRETSISQ6960
NASFSTDTSI VLSEVPTGTT AEVSRTVTS SGRTSIPGPS QSTVLPEIST RTMTRLFASP7020
TMTESAEMTI PTQTGPSGST SQDTLTDTS TTKSQAKTHS TLTQRFPHSE MTTLMSRGP7080
DMSWQSSPSL ENPSSLPSLL SLPATTSPPP ISSTLPVTIS SSPLPVTSL TSSPVTTTDM7140
LHTSPELVTS SPPKLSHTSD ERLTTGKDTT NTEAVHPSTN TAASNVEIPS SGHESPSSAL7200
ADSETSKATS PMFITSTQED TTVAISTPHF LETSRIQKES ISSLSPKLRE TGSSVETSSA7260

IETSAVLSEV SIGATTEISR TEVTSSSRSTS ISGSAESTML PEISTTRKII KFPTSPILAE7320
SSEMTIKTQT SPPGSTSEST FTLDSTSTPS LVITHSTMTQ RLPHEITTL VSRGAGDVPR7380
PSSLPVEETS PPSSQLSLSA MISPPVSST LPASSHSSSA SVTSLTPGQ VKTTEVLDA7440
AEPETSSPPS LSSTSVEILA TSEVTTDEK IHPFSNTAVT KVGTSSSGHE SPSSVLPDSE7500
TTKATSAMGT ISIMGDTSVS TLTPALSNTR KIQSEPASSL TTRLRETSTS EETSLATEAN7560
TVLSKVSTGA TTEVSRTEAI SFSRTSMGSP EQSTMSQDIS IGTIPRISAS SVLTESAKMT7620
ITTQTGPSES TLESTLNLNT ATTPSWVETH SIVIQGFHP EMTTSMGRGP GGVSWPSPPF7680
VKETSPSSP LSLPAVTSPL PVSTTFLAHI PPSPLVTS LSGPATTTD ILGTSTEPGT7740
SSSSSLSTTS HERLTTYKDT AHTEAVHPST NTGGTNVATT SSGYKSQSSV LADSSPMCTT7800
STMGDTSVLT STPAFLETR IQTELASSL PGLRESSGSE GTSSGTMST VLSKVPTGAT7860
TEISKEDVTS IPGPAQSTIS PDISTRVSW FSTSPVMTES AEITMNTHTS PLGATTQGTS7920
TLDTSTTSL TMTHSTISQG FSHSQMSTLM RRGPEVSWM SPPLLEKTRP SFSLMSSPAT7980
TSPSPVSTL PESISSPLP VTSLLTSGLA KTTDMLHKSS EPVTNSPANL SSTSVAILAT8040
SEVTTDEKT HPSSNRTVTD VGTSSSGHES TSFVLADSQT SKVTSPMVIT STMEDTSVST8100
STPGFFETSR IQTEPTSSL LGLRKTSSSE GTSLATEMST VLSGVPTGAT AEVSRTEVTS8160
SSRTSISGFA QLTVPETST ETITRLPTSS IMTESAEMMI KTQDPPGST PESTHTVDIS8220
TTPNWWETHS TVTQRFSHSE MTLVSRSPG DMLWPSQSSV EETSSASSLL SLPATTSPSP8280
VSSTLVEDFP SASLPVTSLL NPGLVITDR MGISREPGTS STSNLSSTSH ERLTTLEDTV8340
DTEDMQPSTH TAVTNVRTSI SGHESQSSVL SDSETPKATS PMGTTYTMGE TSVSISTSD8400
FETSRIQIEP TSSLTSLGRE TSSSERISSA TEGSTVLSEV PSGATTEVSR TEVISSRGTS8460
MSGPDQFTIS PDISTEAITR LSTSPIMTES AESAITIETG SPGATSEGTL TLDTSTTTFW8520
SGTHSTASPG FSHSEMTTLM SRTPGDVPWP SLPSVEEASS VSSSLSPAM TSTFFSTLP8580
ESISSSPHPV TALLTLGPVK TTDMLRTSSE PETSSPPNLS STSAEILATS EVTKDREKIH8640

PSSNTPVVNV GTVIYKHLSP SSVLADLVTT KPTSPMATTS TLGNTSVSTS TPAFPETMMT8700
QPTSSLTSGL REISTSQETS SATERSASLS GMPTGATTKV SRTEALSLGR TSTPGPAQST8760
ISPEISTETI TRISTPLTTT GSAEMTITPK TGHSGASSQG TFTLDTSSRA SWPGTHSAAT8820
HRSPHSGMTT PMSRGPEDVS WPSRPSVEKT SPPSSLVSL AVTSPSPLYS TPSESSHSP8880
LRVTSLFTPV MMKTTDMLDT SLEPVTTSP SMNITSDESL ATSKATMETE AIQSENTAV8940
TQMGTISARQ EFYSSYPGLP EPSKVTSPVV TSSTIKDIVS TTIPASSEIT RIEMESTSTL9000
TPTPRETSTS QEIHSAKPS TVPYKALTS TIEDSMTQVM SSSRGPSPDQ STMSQDISTE9060
VITRLSTSPI KTESTEMTIT TQTGSPGATS RGTLTLDST TFMSGTHSTA SQGFHSQMT9120
ALMSRTPGDV PWLSHPSVEE ASSASFSLSS PVMTSSSPVS STLPDSIHSS SLPVTSLLTS9180
GLVKTELLG TSSEPETSS PNLSSSTAEI LAITEVTTDT EKLEMTNVVT SGYTHESPSS9240
VLADSVTTKA TSSMGITYPT GDTNVLSTP AFSDTSRIQT KSKLSLTPGL METSISEETS9300
SATEKSTVLS SVPTGATTEV SRTEAISSSR TSIPGPAQST MSSDTSMETI TRISTPLTRK9360
ESTDMAITPK TGPSGATSQG TFTLDSSSTA SWPGTHSATT QRFQSVVTT PMSRGPEDVS9420
WSPSLSVEKN SPPSSLVSSS SVTSPSPLYS TPSGSSHSP VPVTSLFTSI MMKATDMLDA9480
SLEPETTSAP NMNITSDESL AASKATTETE AIHVFENTAA SHVETTSATE ELYSSSPGFS9540
EPTKVISPVV TSSSIRDNMV STTMPGSSGI TRIEIESMSS LTPGLRETRT SQDITSSTET9600
STVLYKMPSG ATPEVSRTEV MPSSRTSIPG PAQSTMSLDI SDEVVTRLST SPIMTESAEI9660
TITTQTGYSL ATSQVTLPLG TSMFLSGTH STMSQGLSHS EMTNLMSRGP ESLSWTSPRF9720
VETTRSSSSL TSLPLTSSLS PVSSTLLDSS PSSPLPVTSL ILPGLVKTE VLDTSSEPKT9780
SSSPNLSSTS VEIPATSEIM TDTEKIHPSS NTAVAKVRTS SSVHESHSSV LADSETTITI9840
PSMGITSAVD DTTVFTSNPA FSETRRIPE PTFSLTPGFR ETSTSEETTS ITETSAVLYG9900
VPTSATTEVS MTEIMSSNRI HIPDSQSTM SPDIITEVIT RLSSSSMMSE STQMTITTQK9960
SSPGATAQST LTLATTTAPL ARTHSTVPPR FLHSEMTTLM SRSPENPSWK SSLFEKTSS10020

SSSLLSLPVT TSPSVSSTLP QSIPSSFSV TSLLTPGMVK TTDSTEPGT SLSPNLSGTS10080
VEILAASEVT TDTEKIHPS SMAVTNVGTT SSGHELYSSV SIHSEPSKAT YPVGTPSSMA10140
ETSISTMPA NFETTGEAE PFSHLTSGFR KTNMSLDTSS VTPTNTPSSP GSTHLLQSSK10200
TDFTS AKTS SPDWPPASQY TEIPVDIIP FNASPSITES TGITSFPESR FTMSVTESTH10260
HLSTDLLPSA ETISTGTVMP SLSEAMTSFA TTGVPRASG SGSPFSRTES GPGDATLSTI10320
AESLPSSTPV PFSSSTFTTT DSSTIPALHE ITSSSATPYR VDTSLGTESS TTEGRLVMVS10380
TLDTSQPGR TSSSPILDTR MTESVELGTV TSAYQVPSLS TRLTRTDGIM EHITKIPNEA10440
AHRGTIRPVK GPQTSTSPAS PKGLHTGGTK RMETTTTALK TTTTALKTTS RATLTTSVYT10500
PTLGTLTPLN ASMQMASTIP TEMMITTPYV FPDVPETTSS LATS LGAETS TALPRTTPSV10560
FNRESETTAS LVSRGAERS PVIQTLDVSS SEPDTTASWV IHPAETIPTV SKTTPNFFHS10620
ELDTVSSTAT SHGADVSSAI PTNISPELD ALTPLVTISG TDTSTTFPTL TKSPHETETR10680
TTWLTHPAET SSTIPRTIPN FSHHESDAP SIATSPGAET SSAIPIMTVS PGAEDLVTSQ10740
VTSSGTD RNM TIPTLTLS PG EPKTIASLVT HPEAQ TSSAI PTSTISPAVS RLVTSMVTS L10800
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SSSAVPTPTV STEVPGVVTP LVTSSRAVIS TTIPILTLP GEPETTPSMA TSHGEEASSA10920
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LPEVPGMVTS LVASSRAVTS TTLPTLTLP GEPETTPSMA TSHGAEASST VPTVSPEVPG11040
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LVTSSRAVTS TTIPILTSS SEPETTPSMA TSHGVEASSA VLTVSPEVPG MVTSLVTSSR11160
AVTSTTIPTL TISSDEPETT TSLVTHSEAK MISAIPTLAV SPTVQGLVTS LVTSSGSETS11220
AFSNLTVASS QPETIDSWVA HPGTEASSVV PTLTVSTGEP FTNISLVTHP AESSSTLPRT11280
TSRFSHSELD TMPSTVTSPE AESSSAISTT ISPGIPGVL TSLVTSSGRDI SATFPTVPES11340
PHESEATASW VTHPAVTSTT VPRTPPNYSH SEPDTTPSIA TSPGAEATSD FPTITVSPDV11400

PDMVTSQVTS SGTDT SITIP TLTLSSGEPE TTTSFITYSE THTSSAIPTL PVSPGASKML11460
TSLVISSGTD STTTFPTLTE TPYEPETTAI QLIHPAETNT MVPRTTPKFS HSKSDTTLPV11520
AITSPGPEAS SAVSTTTISP DMSDLVTSLV PSSGDTSTT FPTLSETPYE PETTATWLTH11580
PAETSTTVSG TIPNFSHRGS DTAPSMVTSP GVDTRSGVPT TTIPPSIPGV VTSQVTSSAT11640
DTSTAIPTLT PSPGEPETTA SSATHPGTQT GFTVPIRTVP SSEPDTMASW VTHPPQTSTP11700
VSRTTSSFSH SSPDATPVMA TSPRTEASSA VLTITSPGAP EMVTSQITSS GAATSTTVPT11760
LTHSPGMPET TALLSTHPRT ETSKTFPAST VFPQVSETTA SLTIRPGAET STALPTQTTS11820
SLFTLLVTGT SRVDLSPTAS PGVSAKTAPL STHPGTETST MIPTSTLSLG LLETTGLLAT11880
SSSAETSTST LTLTVSPAVS GLSSASITTD KPQTVTSWNT ETSPSVTSVG PPEFSRTVTG11940
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LFTPLTTPGM STLASESVTS RTSYNHRSWI STTSSYNRRY WTPATSTPVT STFSPGISTS12060
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FTHWIPVPTS STPGTSTVDL GSGTPSSLPS PTTAGPLLVP FTLNFTITNL KYEEDMHCPG12720
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GVDREQLYWE LSQLTNGIKE LGPYTLDRNS LYVNGFTHQT SAPNTSTPGT STVDLGTS¹²⁸⁴⁰
PSSLPSPTSA GPLLVPTLN FTITNLQYEE DMHHPGSRKF NTTERVLQGL LGPMFKNTSV¹²⁹⁰⁰
GLLYSGCRLT LLRPEKNGAA TGMDAICSHR LDPKSPGLNR EQLYWELSQL THGIKELGPY¹²⁹⁶⁰
TLDRNSLYVN GFTHRSSVAP TSTPGTSTVD LGTSGTPSSL PSPTTAVPLL VPFTLNFTIT¹³⁰²⁰
NLQYGEDMRH PGSRKFNTE RVLQGLLGPL FKNSSVGPLY SGCRLISLRS EKDGAATGVD¹³⁰⁸⁰
AICTHHLNPQ SPGLDREQLY WQLSQMTNGI KELGPYTLDR NSLYVNGFTH RSSGLTTSTP¹³¹⁴⁰
WTSTVDLGTS GTPSPVPSPT TTGPLLVPT LNFTITNLQY EENMGHPGSR KFNITESVLQ¹³²⁰⁰
GLLKPLFKST SVGPLYSGCR LTLRPEKDG VATRVDAICT HRPDPKIPGL DRQQLYWELS¹³²⁶⁰
QLTHSITELG PYTLDRDSLY VNGFTQRSSV PTTSTPGTFT VQPETSETPS SLPGPTATGP¹³³²⁰
VLLPFTLNFT ITNLQYEEDM RRPGRKFNTE TERVLQGLLM PLFKNTSVSS LYSGCRLTLL¹³³⁸⁰
RPEKDGAATR VDAVCTHRPD PKSPGLDRER LYWKLSQLTH GITELGPYTL DRHSLYVNGF¹³⁴⁴⁰
THQSSMTTTR TPDSTMHLLA TSRTPASLSG PMTASPLLVL FTINFTITNL RYEENMHHPG¹³⁵⁰⁰
SRKFNTTERV LQGLLRPVFK NTSVGPLYSG CRLTLRPPK DGAATKVDAL CTYRPDPKSP¹³⁵⁶⁰
GLDREQLYWE LSQTHSITE LGPYTLDRDS LYVNGFTQRS SVPTTSIPGT PTVDLGTS¹³⁶²⁰
PVSKPGPSAA SPLLVFTLN FTITNLRYEE NMQHPGSRKF NTTERVLQGL LRSLFKSTSV¹³⁶⁸⁰
GPLYSGCRLT LLRPEKDGTG TGVDICTHH PDPKSPRLDR EQLYWELSQL THNITELGPY¹³⁷⁴⁰
ALDNDSLFVN GFTHRSSVST TSTPGTPTVY LGASKTPASI FGPSAASHLL ILFTLNFTIT¹³⁸⁰⁰
NLRYEENMWP GSRKFNTTER VLQGLLRPLF KNTSVGPLYG GCRLTLRPE KDGEATGVDA¹³⁸⁶⁰
ICTHRPDPTG PGLDREQLYL ELSQLTHSIT ELGPYTLDRD SLVNGFTHR SSVPTTSTGV¹³⁹²⁰
VSEEPFTLNF TINNLRYMAD MGQPGSLKFN ITDNVMQHLL SPLFQRSSLG ARYTGCRVIA¹³⁹⁸⁰
LRSVKNGAET RVDLLCTYLQ PLSGPGLPIK QVFHELSSQT HGITRLGPYS LDKDSLVLNG¹⁴⁰⁴⁰
YNEPGPDEPP TTPKPATTFL PPLSEATTAM GYHLKTLTLN FTISNLQYSP DMGKGSATFN¹⁴¹⁰⁰
STEGVLQHLL RPLFQKSSMG PFYLGCLIS LRPEKDGAAT GVDTTCTYHP DPVGPGLDIQ¹⁴¹⁶⁰

QLYWELSQLT HGVTVLGFYV LDRDSLFIG YAPQNLSIRG EYQINFHIVN WNLSNPDPTS14220

SEYITLLRDI QDKVTTLTKG SQLHDTFRFC LVTNLTMDSV LVTVKALFSS NLDPSLVEQV14280

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