

Secuencias y Traducción de MaizC8.fna

La secuencia de ADN es:

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Secuencia inversa:

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Secuencia inversa complementaria:

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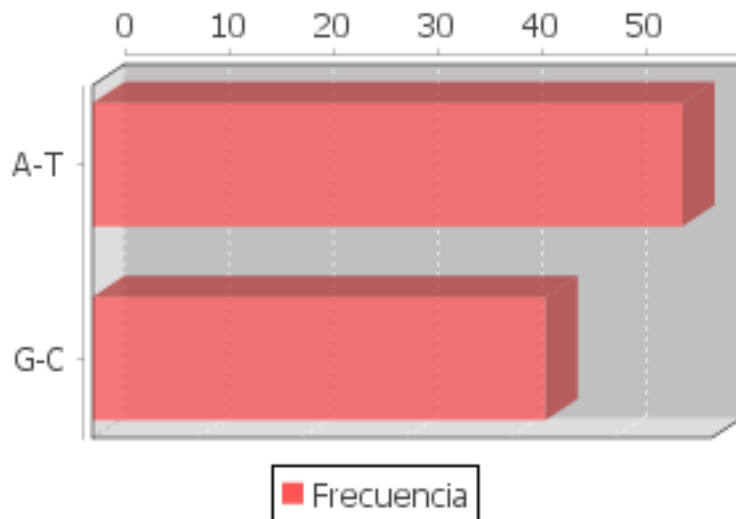
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Porcentajes:

- Secuencia:
 - A: 27.678165%
 - C: 22.423967%
 - T: 28.881071%
 - G: 21.016796%
- Secuencia inversa complementaria:
 - A: 28.881071%
 - C: 21.016796%
 - T: 27.678165%
 - G: 22.423967%
- Porcentajes agrupados por nucleótidos complementarios:
 - A-T: 56.559235%
 - G-C: 43.440765%

Diagrama de barras:



La traducción de esta secuencia se muestra a continuación:

Marco de lectura 1:

Secuencia:

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DFILCYINRM  LLCLVLEKSM  QQRGKEKLPR  TPPFCDADFH  SPLL*LLPAC
EASKVR*G*M  FA*I*YRACC  MHV*CSASSA  GLSFDLVASC  DSGRAQAKER
ADRASLAMVV  LPPYSCCIYA  LSFLTGRAVL  VAPHGCDTGV  ETRELMHVYI
CRL*ISHTR*  *IMKYSYQFV  FFFLLV*KQI  *PAPSCYCCT  GWSGTRACVH
ESVYECVR*Q  GRERERERYK  KELPCQLFSF  SLASSSPSPV  SQGLHPMCYL
SLILIVLSLS  LSLSSHITN  SPCVCVSTGV  LADFIT*VAH  QETISRGKPN
RNIFQ*SPRT  EFALPN****  EELRCRLVHI  FVT*WVINNV  KSCLF*SNRN
QIPH*KLIPT  YSNLLPLVIY  RKPLPLPFAL  HFLNQTASKF  ATHCNLFLSE
HLLLLIGHEL  *IEKNHSERV  HKKRPTFSSV  PGEDQRSCAT  GPPEKLRER
SLVNLFMLVP  SSKYRLTKEK  AAS*HDCLFI  *IDIGSMGLL  LRSLFCTRSP
PI**KRVP*S  RAGLILARKP  QVCL*RVNLI  VLVSIMDFLR  GILMDRA*LL
SATRSSALEL  VMDPNPLVW  NIVFSK*KPL  VYERMKRCFR  SCGIRSPRTL
MKGK*EFFVR  YLTK*DCPVP  IEPITKIPDR  AKRNEKGFP*  DGK*KRLAPH
EVWE*VIV**  *ARNIRLSAK  ENLLNS*FIR  SLLAMSTRYH  K*MDLGCSIL
**PRSFFAKE  K*SLWVRLNR  IGSIPNSEN*  DS*SLSVSLS  IRGSGEVFS*
SSPNICHLRI  FSITDNELSL  FDREREKKIK  THN***GSNA  NKSQ*LT*VY
TQS*ASHDYD  RMFGSEEHVA  MHAYTVSVSS  HPWL*GT*SV  QEHASKT*WK

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PFSVRS*LCA CVCVCARDWC LCGGLCGLRT DC*MPNGTAA WAAAADLSCT
CIGAVLGSLH EE*RTLAWFR SEWLRPG*KP S*RHGVLSGV FVLCPVCTVQ
CVLSILPLLR PLVCLLDKTC MPTVLFPPNH VNSCDQLREQ RTGHPTPHYS
RMLVRLHLFG DESDREVACL LHCKELSWIL GP*LSSWNTQ RHLVTH*CDI
ISCLI*CWSF FFWLAA*YIT ADCLFIGYFT HTI*FRVINN KVKIITNYFC
LYIYN*YVMN NAN*LEHSSP LTSLVYY*TL KKSSNKQYKI NVSEV**QRV
I*VFIHVKA CHSFFLFLNI FSISREEDLC KFELVEPIHP VTFFYQKKKR
HLWMLQSGGK GCK*L*CRGQ RSECKAANKQ TCGSNGNLNV LHFLCFFNNT
SILLACV*FS LLVYGFLPSF FTL*D*FDNL ILIFLRIIRI S*RNEVVKLA
HVGVCCKMFT *IILAV*LNR CAIYSCVLFP *R*KEV*AP* LIGAVNTHEQ
EH*LQLFLRI ILTD*RCQYI YIYV*TSYIY HIYNDSAQDS R*RRNHCS*R
WHGASTGFGP MYSTVRLCLL NFFAFYCTVQ VIQNLQTACI IRPSYCCRPL
ISV*KC*TSF LHNISRPSI ASNGTGF*II LC*LN*TVLK QFPVLC THSY
VHVVIPNVLN *ASVRANS DS GHIIIIILQCE VHH*EVQEGQ Q*LLQLWHSC
RSQCPGKNHA NPFQSQSIS*A ESWM*LE*SI HKSS*LVSL* EILNASLVNI
LSLLLLRRAS DSEQDLQRQE IQSRKYGHLH NGYSVESCVS Y*DCLLDRCL
TALCQLGTVK SFSQTKQNM* YAIARKQEAP TN*ICVTIKF SIYPLLR**
MHCPELDSK APRFSIH*AE PPMDYTPYYY ARSTH*V*PG SIRYSTNINL
VYLPTLAL*Q TLEVSFLVST *NKRKLRTLA W*SDDNKGLL ILWIKY*CVF
IE*TCMVI** QNYLNLWMFG QSHSHIKI** SIYGVQSYGL PECFLFYV*S
SYQSLAQ TAN CISP SLYILG FLWALLCSR F KNHVS IHMGK S*EMHAYRSC
TKVFSIHI*L FIPQIKFRND *ELHCATKLV ISHACCEIVY HE*LLPVQTS
LNILWHVSFY FLYYFLARTV THPNKQKLYL LTGYIHTCKL AVLPAVLQA
ATDDPQLAKR KHVNSTNSIW MYMFCDFIN SKKRVVYAA* LV*MV**EHS
GRFHPHHGPQ GS*TNGGQAG ESHNQD*S*K GMQH*LWYRY IKHFIGRVHA
CATFFYQPV* MHITIAP*IS ENLNQQPPPP PPPPTTKNP TVLKVG LIE*
MVEMPAAAGY RIYEELHN*F *LCVELLMSN *HGLSCMQNE LLYAEVDYMQ
KRVSVVQRPS AR*FFCFPDS LLTNLAL TDM WHEFYFQEMD LQTDNMYLRS
KVC*RSSSHL TV*VSQSMRA VCLVLKPRTH *ILPIARMLQ IAESNETGQP
AMHMTMGAPP TSEYDHMAPF DSRNFLQVSM PQHYSHQLQP TTLQLG*SQT
ALQLTIVSAP HYCTHGHTCN HPHLVQESYH SCTYIWTALL ASKGIPSH*H
Y*LYMCTPFI VSKSCIYTLV VLQMMKSALY LAAPGPQSR* ITHAVISCAK
SRSQVTLRTF A*LLIIVISA TVRVYIFVSA TTVCVHLYV* I*LLHLLLLY
PPARPYHQKR GFYIAYLYIY DLCALYRLKR VCWPLF*

Las longitudes exactas de los fragmentos son:

Fragmento	Posición	Longitud	Secuencia
F001	[0000,0014]	015	IRSGHHCSSSSSSCCC
F002	[0016,0117]	102	LHHLT YFPLSLPQLPLIPHPPLLPSLGWPD LFPADRE ALPTPPPPPPPHHAQH DGKYLPPAALSCFAASSSLETN ITDQLASFLFPLSLSLSLIYVFCTICVAV
F003	[0119,0119]	001	E
F004	[0122,0130]	009	DLGCYAARI
F005	[0132,0149]	018	LERQLEHTYTHGSLVSGL
F006	[0151,0182]	032	FFLGAWGWCGGKKKTRHKREEAWKLILMRPDA

F007	[0184,0229]	046	EEFLLYRKVPPIESQEDRPQASTARAAILHHLPSFLLY WKLEFLALC
F008	[0231,0239]	009	LIIFPSSPD
F009	[0241,0336]	096	SELRAVVQGGAGGGGADGLRRQAGAGERQDRDQHR EHDEPAGDLLQAPQRPAQEGVRALGALRRRGRARRLL QPRPPLRVROQQVMMHISVRVS
F010	[0338,0339]	002	LD
F011	[0341,0443]	103	ILVVHYTPRGRAGQLFAPSDWSQLEPEPARRSHLNF RQKKQELASEDEGWAAIFLVADFILCYINRMLLCV LEKSMQQRGKEKLPRTPPFCDA DFHSPLL
F012	[0445,0455]	011	LLPACEASKVR
F013	[0457,0457]	001	G
F014	[0459,0461]	003	MFA
F015	[0463,0463]	001	I
F016	[0465,0472]	008	YRACCMHV
F017	[0474,0552]	079	CSASSAGLSFDLVASCDSGRAQAKERADRASLAMVVL PPYSCCIYALSFLTGRAVLVAPHGCDTG VETRELMHV YICRL
F018	[0554,0558]	005	ISHTR
F019	[0561,0575]	015	IMKYSYQFVFFFLLV
F020	[0577,0579]	003	KQI
F021	[0581,0607]	027	PAPSCYCCTGWSGTRACVHESVYECVR
F022	[0609,0685]	077	QGRERERERYKKELPCQLFSFSLASSSPSVPSQGLHP MCYLSLILIVLSLSLSLSSHITNSPCVCVSTGVLAD FIT
F023	[0687,0704]	018	VAHQETISRGKPNRNIFQ
F024	[0706,0715]	010	SPRTEFALPN
F025	[0720,0732]	013	EELRCRLVHIFVT
F026	[0734,0744]	011	WVINNVKSCLF
F027	[0746,0753]	008	SNRNQIPH
F028	[0755,0809]	055	KLIPTYSNLLPLVIYRKPLPLPFALHFLNQ TASKFAT HCNLF LSEHLLLLLIGHEL
F029	[0811,0872]	062	IEKNHSE RVHKKRPTFSSVPGEDQRSCATGPPEK LKR ERSLVNLFMLVPSSKYRLTKEKAAS
F030	[0874,0879]	006	HDCLFI
F031	[0881,0901]	021	IDIGSMGLLLRSLFCTRSPPI
F032	[0904,0907]	004	KRVP
F033	[0909,0923]	015	SRAGLILARKPQVCL
F034	[0925,0946]	022	RVNLIVLVSIMDFLRGILMDRA
F035	[0948,0975]	028	LLSATRSSALELVVMDPNPLVWNIVFSK
F036	[0977,1003]	027	KPLVYERMKRCFRSCGIRSPRTL MKGK
F037	[1005,1013]	009	EFFVRYLTK
F038	[1015,1038]	024	DCPVPIEPITKIPDRAKRNEKGFP
F039	[1040,1042]	003	DGK
F040	[1044,1053]	010	KRLAPHEVWE
F041	[1055,1057]	003	VIV
F042	[1061,1075]	015	ARNIRLSAKENLLNS
F043	[1077,1090]	014	FIRSLAMSTRYHK
F044	[1092,1099]	008	MDLGCSIL
F045	[1102,1110]	009	PRSFFAKEK

F046	[1112,1128]	017	SLWVRLNRIGSIPNSEN
F047	[1130,1131]	002	DS
F048	[1133,1148]	016	SLSVSLSIRGSGEVFS
F049	[1150,1182]	033	SSPNICHLRIFSITDNELSLFDREREKKIKTHN
F050	[1186,1194]	009	GSNANKSQL
F051	[1196,1202]	007	LTVYTQS
F052	[1204,1233]	030	ASHDYDRMFGSEEHVAMHAYTVSVSSHPWL
F053	[1235,1236]	002	GT
F054	[1238,1246]	009	SVQEHASKT
F055	[1248,1255]	008	WKPF SVRS
F056	[1257,1281]	025	LCACVCVCARDWCLCGGLCGLRTDC
F057	[1283,1311]	029	MPNGTAAWAAAADLSCTCIGAVLGS LHEE
F058	[1313,1326]	014	RTLAWFRSEWLRPG
F059	[1328,1330]	003	KPS
F060	[1332,1431]	100	RHGVLSGVFVLCPVCTVQCVLSILPLLRLVCLLDKT CMPTVLFPPNHVNSCDQLREQRTGHPTPHYSRMLVRL HLFGDESDREVACLLHCKELSWILGP
F061	[1433,1445]	013	LSSWNTQRHLVTH
F062	[1447,1454]	008	CDIISCLI
F063	[1456,1465]	010	CWSFFFWLAA
F064	[1467,1482]	016	YITADCLFIGYFTHTI
F065	[1484,1504]	021	FRVINNKVKIITNYFCLYIYN
F066	[1506,1512]	007	YVMNNAN
F067	[1514,1526]	013	LEHSSPLTSLVYY
F068	[1528,1544]	017	TLKKSSNKQYKINVSEV
F069	[1547,1550]	004	QRVI
F070	[1552,1612]	061	VFIHVKHACHSFFLFLNIFSI SREEDLCKFELVEPIH PVTFFYQKKRHLWMLQSGGKGCK
F071	[1614,1614]	001	L
F072	[1616,1656]	041	CRGQRSECKAANKQTCGSNGLNLVLHFLCFFNNTSIL LACV
F073	[1658,1672]	015	FSLLVYGFLPSFFTL
F074	[1674,1674]	001	D
F075	[1676,1690]	015	FDNLILIFLRIIRIS
F076	[1692,1709]	018	RNEVVKLAHVGVCGKMFT
F077	[1711,1715]	005	IILAV
F078	[1717,1729]	013	LNRC AIYSCVLP
F079	[1731,1731]	001	R
F080	[1733,1735]	003	KEV
F081	[1737,1738]	002	AP
F082	[1740,1751]	012	LIGAVNTHEQEH
F083	[1753,1763]	011	LQLFLRIILTD
F084	[1765,1773]	009	RCQYIYIYV
F085	[1775,1790]	016	TSYIYHIYNDSAQDSR
F086	[1792,1797]	006	RRNHCS
F087	[1799,1852]	054	RWHGASTGF GPMYSTVRLCLLNFFAFYCTVQVIQNLQ TACIIRPSYCCRPLISV
F088	[1854,1855]	002	KC
F089	[1857,1876]	020	TSFLHNISSRPSIASNGTGF

F090	[1878,1881]	004	IILC
F091	[1883,1884]	002	LN
F092	[1886,1909]	024	TVLKQFPVLCTHSYVHVVIPNVLN
F093	[1911,1932]	022	ASVRANSDSGHIIIILQCEVHH
F094	[1934,1940]	007	EVQEGQQ
F095	[1942,1967]	026	LLQLWHSCRSQCPCGNHANPFGQSI
F096	[1969,1973]	005	AESWM
F097	[1975,1976]	002	LE
F098	[1978,1983]	006	SIHKSS
F099	[1985,1988]	004	LVSL
F100	[1990,2040]	051	EILNASLVNLSLRRASDSEQDLQRQEIQSRKYG HLHNGYSVESCVSY
F101	[2042,2068]	027	DCLLDRCLTALCQLGTVKSFSTKQNM
F102	[2070,2081]	012	YAIARKQEAPTN
F103	[2083,2097]	015	ICVTIKFSIYPLLR
F104	[2100,2116]	017	MHCPPELDSKAPRFSIH
F105	[2118,2134]	017	AEPMDYTPYYYARSTH
F106	[2136,2136]	001	V
F107	[2138,2157]	020	PGSIRYSTNINLVYLPTLAL
F108	[2159,2169]	011	QTLEVSFLVST
F109	[2171,2180]	010	NKRKLRTLAW
F110	[2182,2195]	014	SDDNKGLLILWIKY
F111	[2197,2201]	005	CVFIE
F112	[2203,2207]	005	TCMVI
F113	[2210,2227]	018	QNYLNLWMFGQSHSHIKI
F114	[2230,2247]	018	SIYGVQSYGLPECFLFYV
F115	[2249,2290]	042	SSYQSLAQTANCISPSLYILGFLWALLCSRFKNHVSI HMGKS
F116	[2292,2307]	016	EMHAYRSCTKVFSIHI
F117	[2309,2319]	011	LFIPQIKFRND
F118	[2321,2341]	021	ELHCATKLVISHACCEIVYHE
F119	[2343,2438]	096	LLPVQTSNLNWHVSFYFLYYFLARTVTHPNKQKLYL LTGYIHTCKLAVLPAGVLQAATDDPQLAKRKHVNSTN SIWYMFCCDFINSKRVVYAA
F120	[2440,2441]	002	LV
F121	[2443,2444]	002	MV
F122	[2447,2461]	015	EHSGRFHPHGPQGS
F123	[2463,2475]	013	TNGGQAGESHNQD
F124	[2477,2477]	001	S
F125	[2479,2483]	005	KGMQH
F126	[2485,2508]	024	LWYRYIKHFGRVHACATFFYQPV
F127	[2510,2516]	007	MHITIAP
F128	[2518,2548]	031	ISENLNQPPPPPPPTTKKNPTVLKVGLIE
F129	[2550,2567]	018	MVEMPAAAGYRIYEELHN
F130	[2569,2569]	001	F
F131	[2571,2579]	009	LCVELLSMN
F132	[2581,2611]	031	HGLSCMQNELLYAEVDYMQKRVSVVQRPSAR
F133	[2613,2652]	040	FFCFPDSSLTNLALTDMWHEFYFQEMDLQTDNMYLRS KVC

F134	[2654,2661]	008	RSSSHLTV
F135	[2663,2679]	017	VSQSMRAVCLVLKPRTH
F136	[2681,2745]	065	ILPIARMLQIAESNETGQPAMHMTMGAPPTSEYDHMA PFDSRNFLQVSMPOHYSHQLQPTTLQLG
F137	[2747,2797]	051	SQTALQLTIVSAPHYCTHGHTCNHPLHVQESYHSCTY IWTALLASKGIPSH
F138	[2799,2800]	002	HY
F139	[2802,2838]	037	LYMCTPFIVSKSCIYTLVVLQMMKSALYLAAPGPQSR
F140	[2840,2860]	021	ITHAVISCAKSRSQVTLRTFA
F141	[2862,2888]	027	LLIIVISATVRVYIFVSATTVCVHLYV
F142	[2890,2890]	001	I
F143	[2892,2935]	044	LLHLLLLYPARPYPYHQKRGFIYAYLYIDLCALYRLK RVCWPLF

Marco de lectura 2:

Secuencia:

SGQATTAAAA AAAAANCITS HTFPSPFLSS L*YLTLLSSL LWAGRISSLQ
 IERHCQH HHHH HHHTMLNMMV NICLLLPYLA LLLAPPWKLT *RIS*LASFF
 PSLSLSLSMS FAPSA*QCRS SRILVAMLQG SS*RG*NIH THMALWCLVS
 DFFWVRGGGA GEKKRHATRE KRHGN*F*CA QMPRRNFYI ERS*LAKKI
 DHRPAQLAPL YSITFLPSSF TGNWNFLRFV S*LYFLLLQT DLSCGPSSKV
 KEQVAAAPTG SGDRQGQGRG KIEIKRIENT TNRQVTFCKR RNGLLKAYE
 LSVLCDAEVA LVVFSSRGRL YEYANNR**C IYLYAYLS*I RS*SYTTHRA
 GGRVSLHRP IGPNWSQSQL VAPILISRGR RSKN*LARTR DGEPPSFLWL
 TSFSVISTAC CCVSFLRRAC NKGKKNCHE HLLSAMRISI PLCSSSCLPV
 RQAR*GEARC LHRSTELAV CMCSVHPQP AFPSILLRAV TLGERKQRE
 LIELLWPWS CLPILAVFMP FPFSPAVLC* *LLTGVTQVW RQGS*CMYIY
 AGCRSHTPGD R**NTPINLF FFFCLCRSRS SQLLVIVVP VGLVQEHA
 KACMSV*GNK EERERERDIK RNCHANSSVS LLHHRLLLFL AKGFIPCATS
 LSYS*YSLSL SLSHRITSPI HHVCVCPREY LLISSPEWHT KRLFQEGNQT
 ETFFSEVPEQ NLLCQTNNNK KN*GAVWFTY L*RNG*LITL NHVCFSP
 RYHTKN*YQP IQICYH**SI VNRYHCHLRY IF*TKQHLSS LHTAIFFCRS
 TFYF**AMNY R*RRIILSES IRSDPLFHRF RGKTKDLARP VRQKNSKEKE
 VSLISSCSFQ VRSTV*PKKK PLPDTIASLY R*I*DLWGY LEVYFVQDPL
 LSDRKGSHP EPVLSWLANP KFVYEELI*L Y*FL*WISYV EY*WIGPSC*
 VLQDLVH*NS WLWTRIL*YG TLSFPSKNP* YMKE*KGAFV LVE*EALVP*
 *KENRNFSLG I*PNRIVQFL *NLSLKYPYIG LSGTKRVFHE MVNEND*PHT
 RFGNK*LSDN EQGIYVFLK RIY*THNSLD PC*QCQLGII SKWISVVQSF
 DNQGHSLKLR NDHYGSDSIE LDPFQIARIR ILDPSSQLFQ FEDPERCFHS
 HLRIFAISEY FRLLTMSCHC LIEREKKKSK HTINSKVVMQ IRASYS*PST
 RRAELMTMI VCLGVKNTWP CMHILCLCHL IPGYRVREAC RSMQAKPDGN
 PSPFAHSSVP VCVCVRVGTGA FVAACADCGQ TAKCPMARPH GQQQRTCPAP
 ALAQFLGVYT RSKERWRGFG QSG*GLGKSQ ARGMECSLVC LCCVLCALCS
 ACSPSCLCCV HSFACWIKHA CPLYCSHPIM *IPVTSCVNN ALATQHRRTTR

GC**GFISLV MSPIER*LAC CTARSSLGFS VLN*VLGTRS ATL*RTDVTS
 YRA*FDVGAF FFGLLLNTLL PIVYLSGILR TPFSFELSTI RSKL*QTTSV
 YIYITNM**I TQTS*NIVPP SHRWYTTEL* KKVVINNTKL MYLKCSNRE*
 YKYSYM*SMH AILFFFF*IF FRSLEKKIYV NSN*LNLSTL LLSFTK KKKKG
 TYGCSNPGGK DVNNCDAEAK DLNAKQQINK HVEVTVLI*F FISYVFLTQ
 AFY*HASSFL CLYMDFCRHF LPFRTSLTTS F*FFLE**ES LEEMKLSN*P
 TWECVGKCSH R*YWPCS*ID VPYIPVCFFP NDERKYKPLS *LVLSIRMNK
 NINCSYFYAL Y*LTEDVNTY IYMSRHHIYI IYTTTVHKIL GKEETTVDAG
 GTVLAQASDQ CILLFACVS* ISLPFTVLFR SYRTCLHAL FGLATVADP*
 SQCENVEHHF YITYHPAHR* LAMERDFESS YASLIKLF*N SFQFCVHTVT
 YMW*YLMFLI KQACVLTPTV GISSLYCSVK STIERYKKAN SDSSNSGTVA
 EVNAQVKITP ILSVNQFPEL NPGCDWSSQF INLAS*SVYE KSLTQAWSTF
 SLYCYYAVPL TLSKISRDKK FRAESTGICT MDTLLSPACH TRIVFWTDAS
 QLYVSWGL*N LLAKPNKTCS TQ*LANKKLR QIKSVSQSSS LYIPSCGTDK
 CTVRQN*IQK HPDSAYTELN HRWIILRIIM QGQLIESDPA VLDTVPTSI*
 YIFQL*RFSR LWKSVSLSPH EIKEN*ELLH GDLMIKVS* FYGLSIDVYL
 LNKHAWLSDD KIT*TYGCLD SHTHT*RYSE AYMVCNRMAY LNVFYFMYEV
 HIRASRLQT ASLPLYIYLV FYGHYYVVL KIMLVFIWAN PKKCMHTDHV
 QRYLVYIYNY LYHKLNLEMI RNFTVLPN** FHMHVVR*YI MNNSSQFKQV
 *TFSGMFLFI FYTTFLQEQL LIPISRSSIC *LVTSIPVNL QYYQQESSKL
 RQMIHSLQNA NT*ILQIQYG CFCFVLTSLT VKSVWYMQPN LFRWSSRNIV
 GDSIHTMGLR DLKQMEGKLE KAIKIRARK VCSINCGTDI *NIL*AEYMH
 VQPSFTSQFK CILL*LHRFQ RT*TNNPPPP PPPQQQKKIL QY*K*AL*NK
 W*KCLPLQVI ESMRNYIIDF DFVLNC**AI NMVFLACRMS CYTLKLTICK
 KGLV*FSDPL HASSFVSPTV Y*PTSLLLTC GMNFIFRRWI CRLTTCT*GA
 RYVNAVVAIS PSESLRACVQ SAWSLNHAHT ESFPLHGCCR SLRVMKRGSR
 RCT*RWERRR RASTTTWPLS TRETFCK*AC LSTTPISCNL QPSSSGNPKQ
 PFS*QLSQLH TTAHTVTHAI IHIWCRSLTT VAHTYGLHY* LAREYQVISI
 INCICVHRL YLNPVYTHWW CCR**NQRYT WRRPAPNRDR SRMQLYHVPN
 RDLK*LYVRL LNY**L*LVQ LLGYIYL*VP PLCACICTCE FSCCIYYYCT
 LRPGHIIRNA GLFTHTYIYM ICVLYID*KE YVGLSSE

Las longitudes exactas de los fragmentos son:

Fragmento	Posición	Longitud	Secuencia
F001	[0000,0030]	031	SGQATTAAAAAAAANCITSHTFPSPFLSSL
F002	[0032,0089]	058	YLTLLSSLLWAGRISSLQIERHCQH HHHHHHTMLNMM VNICLLLPYLALLLAPPWKLT
F003	[0091,0093]	003	RIS
F004	[0095,0114]	020	LASFFPSLSLSLSMSFAPSA
F005	[0116,0131]	016	QCRSSRILVAMLOGSS
F006	[0133,0135]	003	RGN
F007	[0137,0174]	038	NIHTHMALWCLVSDFFWVRGGGAGEKKRHATREKRHG N
F008	[0176,0176]	001	F
F009	[0178,0193]	016	CAQMPRRNFYIERSL

F010	[0195,0230]	036	KAKKIDHRPAQLAPLYSITFLPSSFTGNWNFLRFVS
F011	[0232,0326]	095	LYFLLLQTDLSCGPSSKVKEQVAAAPTGSGDRQGQGR GKIEIKRIENTTNRQVTFCKRRNGLLKKAYELSVLCD AEVALVVFSSRGRLYEYANNR
F012	[0329,0337]	009	CIYLYAYLS
F013	[0339,0341]	003	IRS
F014	[0343,0383]	041	SYTTHRAGGRVSCLRPIGPNWSQSQLVAPILISRGR RSKN
F015	[0385,0453]	069	LARTRDGEPPSFLWLTSFSVISTACCCVSFLRRACNK GGKKNCHEHLLSAMRISIPLCSSSCLPVRQAR
F016	[0455,0528]	074	GEARCLHRSSTELAVCMCSVHQPAPFPSILLRAVTL GERKQRRELIELLWPWWSCLPILAVFMPFPFSPAVLC
F017	[0531,0543]	013	LLTGVTVQVWRQGS
F018	[0545,0560]	016	CMYIYAGCRSHTPGDR
F019	[0563,0605]	043	NTPINLFFFFCLCRSRSSQLLLVIIVVPVGLVQEHASM KACMSV
F020	[0607,0653]	047	GNKEERERERDIKRNCHANSSVSLHHRLLLFLAKGF IPCATSLSYS
F021	[0655,0721]	067	YSLSLSLSHRITSPIHHVCVCPREYLLISSPEWHTKR LFOEGNQTTETFFSEVPEQNLLCQTNNNKKN
F022	[0723,0730]	008	GAVWFTYL
F023	[0732,0734]	003	RNG
F024	[0736,0755]	020	LITLNHVCFSPTVIRYHTKN
F025	[0757,0765]	009	YQPIQICYH
F026	[0768,0781]	014	SIVNRYHCHLRYIF
F027	[0783,0803]	021	TKQHLSSLHTAIFFCRSTFYF
F028	[0806,0810]	005	AMNYR
F029	[0812,0864]	053	RRIILSESIRSDPLFHRFRGKTKDLARPVRQKNSKEK EVSLISSCSFQVRSTV
F030	[0866,0880]	015	PKKKPLPDTIASLYR
F031	[0882,0882]	001	I
F032	[0884,0927]	044	DLWGYYLEVYFVQDPLLSDRKGSHDPEPVLSWLANPK FVYEELI
F033	[0929,0930]	002	LY
F034	[0932,0933]	002	FL
F035	[0935,0941]	007	WISYVEY
F036	[0943,0948]	006	WIGPSC
F037	[0950,0956]	007	VLQDLVH
F038	[0958,0966]	009	NSWLWTRIL
F039	[0968,0978]	011	YGTLSFPSKNP
F040	[0980,0983]	004	YMKE
F041	[0985,0992]	008	KGAFVLVE
F042	[0994,0998]	005	EALVP
F043	[1001,1010]	010	KENRNFSLGI
F044	[1012,1019]	008	PNRIVQFL
F045	[1021,1045]	025	NLSLKYPIGLSGTKRVFHEMVNEND
F046	[1047,1054]	008	PHTRFGNK
F047	[1056,1072]	017	LSDNEQGIYVFLLKRIY
F048	[1074,1081]	008	THNSLDPC

F049	[1083,1195]	113	QCQLGIISKWISVVQSFQDNQGHSLKRNNDHYGSDSIE LDPFQIARIRILDPSQSLFQFEDPERCFHSHLRIFAI SEYFRLLTMSCHCLIEREKKKSKHTINSKVVMQIRAS YS
F050	[1197,1322]	126	PSTRRAELMTMIVCLGVKNTWPCMHILCLCHLIPGY RVREACRSMQAKPDGNPSPFAHSSVPVCVCVRVTGAF VAACADCGQTAKCPMARPHGQQQRTCPAPALAQFLGV YTRSKERWRGFGQSG
F051	[1324,1379]	056	GLGKSQARGMECSLVCLCCVLCALCSACSPSCLCCVH SFACWIKHACPLYCSHPIM
F052	[1381,1401]	021	IPVTSCVNNALATQHRTRTGC
F053	[1404,1415]	012	GFISLVMSPIER
F054	[1417,1432]	016	LACCTARSSLGFSVLN
F055	[1434,1442]	009	VLGTRSATL
F056	[1444,1452]	009	RTDVTSYRA
F057	[1454,1493]	040	FDVGAFFFGLLLNTLLPIVYLSGILRTPFSFELSTIR SKL
F058	[1495,1506]	012	QTTSVYIYITNM
F059	[1509,1513]	005	ITQTS
F060	[1515,1528]	014	NIVPPSHRWYTTEL
F061	[1530,1548]	019	KKVVINNTKLMYLKCSNRE
F062	[1550,1555]	006	YKYSYM
F063	[1557,1566]	010	SMHAILFFFF
F064	[1568,1582]	015	IFFRSLEKKIYVNSN
F065	[1584,1637]	054	LNLSTLLLSFTKKKKGTYGCSNPGGKDVNNCDAEAKD LNAKQQINKHVEVTCLI
F066	[1639,1652]	014	FFISYVFLTTQAFY
F067	[1654,1680]	027	HASSFLCLYMDFCRHFLPFRSLTTSF
F068	[1682,1685]	004	FFLE
F069	[1688,1697]	010	ESLEEMKLSN
F070	[1699,1710]	012	PTWECVGKCSHR
F071	[1712,1716]	005	YWPCS
F072	[1718,1739]	022	IDVPYIPVCFFPNDERKYKPLS
F073	[1741,1760]	020	LVLSIRMNKNINCSYFYALY
F074	[1762,1818]	057	LTEDVNTYIYMSRHHIYIIYTTTVHKILGKEETTAD GGTVLAQASDQCILLFACVS
F075	[1820,1848]	029	ISLPFTVLFRSYRTCRLHALFGLATVADP
F076	[1850,1868]	019	SQCENVEHHFYITYHPAHR
F077	[1870,1887]	018	LAMERDFESSYASLIKLF
F078	[1889,1902]	014	NSFQFCVHTVTYMW
F079	[1904,1984]	081	YLMFLIKQACVLTPTVGISSLYCSVKSTIERYKKANS DSSNSGTVAEVNAQVKITPILSVNQFPELNPGCDWSS QFINLAS
F080	[1986,2057]	072	SVYEKSLTQAWSTFSLYCYAVPLTSLKISRDKKFRA ESTGICTMDTLLSPACHTRIVFWTDASQLYVSWGL
F081	[2059,2071]	013	NLLAKPNKTCSTQ
F082	[2073,2105]	033	LANKKLRQIKSVSQSSSLYIPSCGTDKCTVRQN
F083	[2107,2148]	042	IQKHPDSAYTELNHRWIIILRIIMQGQLIESDPAVLDT VPTSI
F084	[2150,2154]	005	YIFQL
F085	[2156,2174]	019	RFSRLWKSVSLSPEIKEN

F086	[2176 , 2188]	013	ELLHGDLMIKVS
F087	[2190 , 2212]	023	FYGLSIDVYLLNKHAWLSDDKIT
F088	[2214 , 2224]	011	TYGCLDSHTHT
F089	[2226 , 2327]	102	RYSEAYMVCNRMAYLNVFYFMYEVHIRASLRLQTASL PLYIYLVFYGHYYVVGLKIMLVFIWANPKKCMHTDHV QRYLVYIYNYLYHKLNLNLEMIRNFTVLPN
F090	[2330 , 2336]	007	FHMHVVR
F091	[2338 , 2349]	012	YIMNNSQFKQV
F092	[2351 , 2379]	029	TFSGMFLFIFYTTFQLQEQLLIPISRSSIC
F093	[2381 , 2411]	031	LVT SIPVNLOYYQQESSKLRQMIHSLQONANT
F094	[2413 , 2489]	077	ILQIQYGCICFVLTS LTVKSVWYMQPNLFRWSSRNIV GDSIHTMGLRDLKQMEGKLEKAIKIRARKVCSINCG TDI
F095	[2491 , 2493]	003	NIL
F096	[2495 , 2513]	019	AEYMHVQPSFTSQFKCILL
F097	[2515 , 2521]	007	LHRFORT
F098	[2523 , 2541]	019	TNNPPPPPPPPQQQKKILOY
F099	[2543 , 2543]	001	K
F100	[2545 , 2546]	002	AL
F101	[2548 , 2550]	003	NKW
F102	[2552 , 2575]	024	KCLPLQVIESMRNYIIDFDFVLNC
F103	[2578 , 2603]	026	AINMVFLACRMSCYTLKLTICKKGLV
F104	[2605 , 2620]	016	FSDPLHASSFVSPTVY
F105	[2622 , 2646]	025	PTSLLLTCGMNFIFRRWICRLTTCT
F106	[2648 , 2702]	055	GARYVNAVVAISPSESLRACVQSAWSLNHAHTESFPL HGCCRSLRVMKRGSRRCT
F107	[2704 , 2726]	023	RWERRRRASTTTWPLSTRETFCK
F108	[2728 , 2752]	025	ACLSTTPISCNLQPSSSGNPKQPF
F109	[2754 , 2788]	035	QLSQLHTTAHTVTHAI IHIWCRSLTTVAHTYGLHY
F110	[2790 , 2822]	033	LAREYQVISIINCICVHRLLYLNPVYTHWWCCR
F111	[2825 , 2853]	029	NQRYTWRRPAPNRDRSRMQLYHVPNRDLK
F112	[2855 , 2862]	008	LYVRLNY
F113	[2865 , 2865]	001	L
F114	[2867 , 2876]	010	LVQLLGYIYL
F115	[2878 , 2926]	049	VPPLCACICTCEFSCCIYYYCTLRPGHIIRNAGLFTH TYIYMICVLYID
F116	[2928 , 2936]	009	KEYVGLSSE

Marco de lectura 3:

Secuencia:

QVRPPLQQQQ QLLLLTASPH ILSPLPSSAP FNTSPSSPPF SGLAGSLPCR
SRGTANTTTT TTPCST*W* IFASCCLILL CC*LLPGN*H NGSAS*LPFS
PLSLSLYLCL LHHLRSSVGV VGSWLLCCKD LAREATRTYI HTWLSGVWSL
IFFGCVGVVR GKKKDTPQER RGMEINFDA P RCLGGISTI* KGPYRKPRRS
TTGQHSSRRY TPSPSFLPPL LEIGISCALL VNYISFFSRL I* AAGRPRRS

RSRWRRRRRA	PATGRGRGEA	RSRSSASRTR	RTGR*PSASA	ATACSRRRTS
SRCSATPRSR	SSSSPAAAAS	TSTPTTGDDA	YICTRILVRL	DPSRTLHTAR
AGGSAVCTVR	LVPIGARASS	SLPS*FLEAE	EARTS*RGRG	MGRHLSCG*
LHSLLYQPHA	AVSRS*EEHA	TKGERKIATN	TSFLRCGFPP	PFALAPACL*
GKQGEVRLDV	CIDLVQSLLY	ACVV*CILSR	PFLRSCCEL*	LWESASKGES
*SSFFGHGGP	ASLFLLYLCP	FLSHRPCCAS	SSSRV*HRCG	DKGADACIYM
QAVDLTHPVI	DNEILLSICF	FFFACVEADL	ASSFLLLLYR	LVWYKSMRP*
KRV*VCEVTR	KREREREI*K	GTAMPTLQFL	SCIIVSFCS*	PRASSHVLPL
SHTHSTLSLS	LSLIASHHQF	TMCVCVHGST	C*FHHLSGTP	RDYFKRETQK
KHFSVKSQNR	ICFAKLIIIR	RTKVPFGSHI	CNVMGN**R*	IMFVLVQP*S
DTTLKIDTNL	FKFVTTSNLS	*TVTIAICVT	FFEPNSI*VR	YTLQSFSGVA
PSTSNRP*TI	DREESF*ASP	*EATHFFIGS	GGRPKILRDR	SARKTQKRKK
SR*SLHARSK	FEVPFDQRKS	RFLTRLPLYI	DRYRIYGVIT	*KSILYKIPS
YLIEKGPMIP	SRSYLGSQTP	SLSMKS*SNC	ISFYNGFLTW	NTNG*GLVAK
CYKI*CTRTR	GYGPESFSME	HCLFQVKTPS	I*KNEKVLSE	LWNKKPSYLN
ERKIGIFR*V	FDQIGLSSSY	RTYH*NTR*G	*AERKGFMSR	W*MKTISPTR
GLGISDCLIM	SKEYTSFC*R	ESIKLIIH*I	LVSNNV*VS*	VNGSRLFNPL
ITKVILC*RE	MITMGQTQ*N	WIHSK*RELG	FLIPLSLSFN	SRIRRGVFIV
ISEYLPSPNI	FDY*Q*AVIV	**RERKKQN	TQLIVR**CK	*EPAIADRLH
AELSFS*L*S	YVWE*RTRGH	ACIYCVCVIS	SLAIGYVKRA	GACKQNLMET
LLRSLIALCL	CVCVCA*LVP	LWRPVRTADR	LLNAQWHGRM	GSSSGPVLHL
HWRSSWESTR	GVKNAGVVS	RVVKAWVKAK	LEAWSALWCV	CAVSCVHCAV
RALHPAFAAS	TRLPVG*NMH	AHCTVPTQSC	EFL*PAA*TT	HWPPNTALLE
DASKASSLW*	*VRSRGSLLA	ALQGALLDSR	SLIEFLEHAA	PPCDALM*HH
IVLNLMLELF	FLACCLIIHYC	RLFIYRVFYA	HHLVSSYQQ*	GQNYNKLLEF
IYI*LICDE*	RKLART*FPP	HIVGILLNSK	KK***TIQN*	CI*SVVTESD
ISIHTCKACM	PPFFSFSEYF	FDL*RRRSM*	IRTS*TYPPC	YFLLPKKKKA
PMDAPIRGER	M*IIVMQRPK	I*MQSSK*TN	MWK*RS*SSS	SFLMFF*QHK
HFISMRLVFS	ACIWIFAVIF	YPLGLV*QPH	FNFS*NNKNL	LKK*SCQTSP
RGSVWENVHI	DNIGRVAESM	CHIFLCAFSL	TMKGSISPLV	NWCCQYA*TR
TLTAAISTHY	ID*LKMSIHI	YICLDIIYIS	YIQRQCTRFS	VKKKPL*LTV
ARC*HRLRTN	VFYCSPVSLE	FLCLLLYCSG	HTEPADCMHY	SA*LLLQTLN
LSVKMLNIIF	T*HIIPPIDS	*QWNGILNHL	MLA*LNCSET	VSSFVYTQLR
TCGNT*CS*L	SKRAC*LRQW	AYHHYIAV*S	PPLRGTRRPT	VTPPTLAQLQ
KSMRP*KSRQ	SFRSINFLS*	ILDVTGVVNS	*I*LASQSMR	NP*RKLGQHS
LFTVTTPLC*	L*ARSPETRN	SEQKVRAFAQ	WILC*VLRVI	LGLSFGPMPH
SFMSVGDCEI	F*PNQTKHV	RNSSQTRSSD	KLNLCHNQVL	YISPLAVLIN
ALSARIRFKS	TQIQHTLS*T	TDGLYSVLLC	KVNSLSLTRQ	Y*IQYQHQFS
ISSNSSALAD	FGSQFPCLHM	K*KKTENSCM	VI***RSLD	FMD*VLMCIY
*INMHGYLMT	KLPELMDVWT	VTLTHKDIVK	HIWCAIVWLT	*MFSILCMKF
ISEPRSDCKL	HLSLSIYTW	FMGITM*SV*	KSC*YSYGQI	LRNACIPIMY
KGI*YTYIII	YTTN*I*K*L	GTSLCYQTS	FTCML*DSIS	*ITPSSNKS
KHSLACFFLF	SILLSCKNSY	SSQ*AEALFA	DWLHPYL*TC	STTSRSPPS
DR*STACKTQ	TRKFYKFNM	VYVLF*LH*Q	*KACGICSLT	CLDGLVGT*W
EIPSTPWASG	ILNKWRASWR	KP*SRLELER	YAALTVVQIY	KTFYRQSTCM
CNLLLPASLN	AYYYSSIDFR	EPEPTTPPPP	PPNNKKKSY	SIESRPYRIN
GRNACRCRLS	NL*GIT*LIL	TLC*TADEQL	TWSFLHAE*A	AIR*S*LYAK
KG*CSSATLC	TLVLLFPRQF	INQPRSY*HV	A*ILFSGDGS	AD*QHVPEEQ

GMLTQ**PSH RLSLSEHACS LPGP*TTHTL NPSHCTDAAD R**E**NGAAG
 DAHDDGSAAD ERVRPHGPFR LEKLSASEHA SALLPSAATY NPPARVIPNS
 PSVNNCLST LLHTRSHMQS STFGAGVLPQ LHIHMDCIIS *QGNTKSLAL
 LIVYVYTVYC I*ILYIHTGG AADDEISAIP GGARPPIEID HACSYIMCQI
 EISSNSTYVC LIINNCD*CN C*GIYICECH HCVRAFVRVN LAVASTTIVP
 SGQAISSETR VYLRILIYI* FVCFI*IEKS MLASLL

Las longitudes exactas de los fragmentos son:

Fragmento	Posición	Longitud	Secuencia
F001	[0000,0066]	67	QVRPPLQQQQQLLLLTASPHILSPLPSSAPFNTSPSS PPFSGLAGSLPCRSGTANTTTTTTTPCST
F002	[0068,0068]	01	W
F003	[0070,0081]	12	IFASCCLILLCC
F004	[0083,0087]	05	LLPGN
F005	[0089,0094]	06	HNGSAS
F006	[0096,0188]	93	LPFSPLSLSLYLCLLHHLRSSVGVGSWLLCCKDLAR EATRTYIHTWLSGVWSLIFFGCVGVVRGKKKDTPQER RGMEINFDAPRCLGGISTI
F007	[0190,0240]	51	KGPYRKPRRSTTGQHSSRRYTSPSPFLPPLLEIGISC ALLVNYISFFSRLI
F008	[0242,0283]	42	AAGRRPRSRSRWRRRRRAPATGRGRGEARSRSSASRT RRTGR
F009	[0285,0373]	89	PSASAATACSRRTSSRCSATPRSRSSSSPAAAASTS TPTTGDDAYICTRILVRLDPSRTLHTARAGGSVACTV RLVPIGARASSSLPS
F010	[0375,0384]	10	FLEAEEARTS
F011	[0386,0398]	13	RGRGMGSRHLSCG
F012	[0400,0414]	15	LHSLLYQPHAAVSRS
F013	[0416,0448]	33	EEHATKGERKIATNTSFLRCGFPPFPALAPACL
F014	[0450,0473]	24	GKQGEVRLDVCIDLVSLLYACVV
F015	[0475,0488]	14	CILSRPFLRSCCEL
F016	[0490,0499]	10	LWESASKGES
F017	[0501,0534]	34	SSFFGHGGPASLFLLYLCPFLSHRPCCASSSSRV
F018	[0536,0598]	63	HRCGDKGADACIYMQAVDLTHPVIDNEILLSICFFFF ACVEADLASSFLLLLYRLVWYKSMRP
F019	[0600,0602]	03	KRV
F020	[0604,0617]	14	VCEVTRKREREREI
F021	[0619,0638]	20	KGTAMPTLQFLSCIIVSFCS
F022	[0640,0680]	41	PRASSHVLPLSHTHSTLSLSLSLIASHHQFTMCVCVH GSTC
F023	[0682,0735]	54	FHHLSGTPRDYFKRETKQKHFSVKSQNRICFAKLI RRTKVPFGRSHICNVMGN
F024	[0738,0738]	01	R
F025	[0740,0747]	08	IMFVLVQP
F026	[0749,0769]	21	SDTTLKIDTNLFKFVTTSNLS
F027	[0771,0786]	16	TVTIAICVTTFEPNSI
F028	[0788,0806]	19	VRYTLQSFSVGAPSTSNRP

F029	[0808,0815]	08	TIDREESF
F030	[0817,0819]	03	ASP
F031	[0821,0851]	31	EATHFFIGSGGRPKILDRSARKTQKRKKS
F032	[0853,0889]	37	SLHARSKFEVPFDQRKSRFLTRLPLYIDRYRIYGVIT
F033	[0891,0925]	35	KSILYKIPSYLIEKGPMIPSRSYLGSQTPSLSMKS
F034	[0927,0943]	17	SNCISFYNGFLTWTNG
F035	[0945,0953]	09	GLVAKCYKI
F036	[0955,0980]	26	CTRTRGYGPESFSMEHCLFQVKTPSI
F037	[0982,1007]	26	KNEKVLSFLWNKKPSYLNERKIGIFR
F038	[1009,1023]	15	VFDQIGLSSSYRTYH
F039	[1025,1027]	03	NTR
F040	[1029,1029]	01	G
F041	[1031,1040]	10	AERKGFSMRW
F042	[1042,1067]	26	MKTISPTRGLGISDCLIMSKEYTSFC
F043	[1069,1077]	09	RESIKLIH
F044	[1079,1085]	07	ILVSNVN
F045	[1087,1088]	02	VS
F046	[1090,1106]	17	VNGSRLFNPLITKVILC
F047	[1108,1117]	10	REMITMGOTO
F048	[1119,1124]	06	NWIHSK
F049	[1126,1162]	37	RELGFLIPLSLSFNSRIRRGVFIVISEYLPSPNIFY
F050	[1164,1164]	01	Q
F051	[1166,1169]	04	AVIV
F052	[1172,1185]	14	RERKKNQNTQLIVR
F053	[1188,1189]	02	CK
F054	[1191,1205]	15	EPAIADRLHAELSFS
F055	[1207,1207]	01	L
F056	[1209,1213]	05	SYVWE
F057	[1215,1265]	51	RTRGHACIYCVCVVISSLAIGYVKRAGACKQNLMETLL RSLIALCLCVCVCA
F058	[1267,1365]	99	LVPLWRPVRTADRLLNAQWHGRMGSSSGPVLHLHWS SWESTRGVKNAGVVSVRVVKAWVKAKLEAWSALWCVC AVSCVHCAVRALHPAFAASTRLPVG
F059	[1367,1382]	16	NMHAHCTVPTQSCEFL
F060	[1384,1386]	03	PAA
F061	[1388,1408]	21	TTHWPPNTALLEDASKASSLW
F062	[1411,1446]	36	VRSRGSLAALQGALLDSRSLIEFLEHAAPPCDALM
F063	[1448,1488]	41	HHIVLNLMLLELFFLACCLIHYCRLFYRVFYAHLVS SYQQ
F064	[1490,1502]	13	GQNYNKLLLFYI
F065	[1504,1508]	05	LICDE
F066	[1510,1515]	06	RKLART
F067	[1517,1531]	15	FPPHIVGILLNSKKK
F068	[1535,1538]	04	TIQN
F069	[1540,1541]	02	CI
F070	[1543,1572]	30	SVVTESDISIHTCKACMPFFFSFSEYFFDL
F071	[1574,1578]	05	RRRSM
F072	[1580,1583]	04	IRTS
F073	[1585,1610]	26	TYPPCYFLLPKKKKAPMDAPIRGERM

F074	[1612,1620]	09	IIVMQRPKI
F075	[1622,1626]	05	MQSSK
F076	[1628,1632]	05	TNMWK
F077	[1634,1635]	02	RS
F078	[1637,1645]	09	SSSSFLMFF
F079	[1647,1675]	29	QHKHFISMRLVFSACIWIFAVIFYPLGLV
F080	[1677,1683]	07	QPHFNFS
F081	[1685,1692]	08	NNKNLLKK
F082	[1694,1746]	53	SCQTSPRGSVWENVHIDNIGRVAESMCHIFLCAFSLT MKGSISPLVNWCCQYA
F083	[1748,1761]	14	TRTLTAAISTHYID
F084	[1763,1795]	33	LKMSIHIYICLDIIYISYIQRQCTRFVKKKPL
F085	[1797,1802]	06	LTVARC
F086	[1804,1841]	38	HRLRTNVFYCSPVSLEFLCLLLYCSGHTEPADCMHYS A
F087	[1843,1860]	18	LLLQTLNLSVKMLNIIFT
F088	[1862,1869]	08	HIIPPIDS
F089	[1871,1882]	12	QWNGILNHLMLA
F090	[1884,1904]	21	LNCSETVSSFVYTQLRTCNT
F091	[1906,1907]	02	CS
F092	[1909,1914]	06	LSKRAC
F093	[1916,1927]	12	LRQWAYHHYIAV
F094	[1929,1954]	26	SPPLRGTRRPTVTPPTLAQLQKSMPR
F095	[1956,1968]	13	KSRQSFRSINFLS
F096	[1970,1979]	10	ILDVTGVVNS
F097	[1981,1981]	01	I
F098	[1983,1991]	09	LASQSMRNP
F099	[1993,2008]	16	RKLGQHSLFTVTTpcl
F100	[2010,2010]	01	L
F101	[2012,2033]	22	ARSPETRNSQKVRFAQWILC
F102	[2035,2060]	26	VLRVILGLSFGPMPHSFMSVGDCEIF
F103	[2062,2117]	56	PNQTKHVVRNSSQTRSSDKLNLCNQLVLYISPLAVLI NALSARIRFKSTQIQHTLS
F104	[2119,2140]	22	TTDGLYSVLLCKVNSLSLTRQY
F105	[2142,2170]	29	IQYQHQFSISSNSSALADFGSQFPCLHMK
F106	[2172,2181]	10	KKTENSCMVI
F107	[2186,2192]	07	RSLDFMD
F108	[2194,2199]	06	VLMCIY
F109	[2201,2239]	39	INMHGYLMTKLPELMDVWTVTLTHKDIVKHIWCAIVW LT
F110	[2241,2275]	35	MFSILCMKFISEPRSDCKLHLSLSIYTWFFMGITM
F111	[2277,2278]	02	SV
F112	[2280,2282]	03	KSC
F113	[2284,2302]	19	YSYGQILRNACIPIMYKGI
F114	[2304,2313]	10	YTYIIIYTTN
F115	[2315,2315]	01	I
F116	[2317,2317]	01	K
F117	[2319,2334]	16	LGTSLCYQTSDFTCML
F118	[2336,2339]	04	DSIS

F119	[2341,2372]	32	ITPPSSNKS KHS LACFFLFSILL SCKNSYSSQ
F120	[2374,2386]	13	AEALFADWLHPYL
F121	[2388,2401]	14	TCSTTSRSPPSCDR
F122	[2403,2424]	22	STACKTQTRKFYKFNM DVYVLF
F123	[2426,2427]	02	LH
F124	[2429,2429]	01	Q
F125	[2431,2447]	17	KACGICSLTCLDGLVGT
F126	[2449,2471]	23	WEIPSTPWASGILNKWRASWRKP
F127	[2473,2561]	89	SRLELERYAALT VVQIYKTFYRQSTCMCNLLLPASLN AYYYSSIDFREPEPTTPPPPPPNKKKSYSIESRPY RINGRNACRCRLSNL
F128	[2563,2565]	03	GIT
F129	[2567,2572]	06	LILTLC
F130	[2574,2587]	14	TADEQLTWSFLHAE
F131	[2589,2592]	04	AAIR
F132	[2594,2594]	01	S
F133	[2596,2601]	06	LYAKKG
F134	[2603,2626]	24	CSSATLCTLVLLFP RQFINQPRSY
F135	[2628,2630]	03	HVA
F136	[2632,2641]	10	ILFSGDGSAD
F137	[2643,2654]	12	QHVPEEQGMLTQ
F138	[2657,2673]	17	PSHRLSLSEHACSLPGP
F139	[2675,2690]	16	TTHTLNPSHCTDAADR
F140	[2692,2692]	01	E
F141	[2695,2789]	95	NGAAGDAHDDGSAADERV RPHGPFRLEKLSASEHASA LLPSAATYNPPARVIPNSPSVNNCLSSTLLHTRSHMQ SSTFGAGVLPQLHIHMDCIIS
F142	[2791,2810]	20	QGNTKSLALLIVYVTVYCI
F143	[2812,2866]	55	ILYIHTGGAADDEISAIPGGARPP IEIDHACSYIMCQ IEISSNSTYVCLIINNCD
F144	[2868,2870]	03	CNC
F145	[2872,2918]	47	GIYICECHHCVRAFVRVNLAVASTTIVPSGQAISSET RVYLRILIIYI
F146	[2920,2924]	05	FVCFI
F147	[2926,2935]	10	IEKSMLASLL

Marco de lectura -1:

Secuencia:

FRREANILFS IYIKHTNHIY ISMRK*TRVS DDMAWPEGTI VVDATAKFTR
TNARTQWWHS QIYIP*QLH* SQLLIKQTY VELLEISIIWH MI*LHA*SIS
IGGRAPPGIA LISSAAPPV CIYRI*IQ*T VYTYTINNAN DLVFPC*LIM
QSICMCNCGK TPAPNVDDCM CDRVCSSVEL RQLLTEGLFG ITRAGGL*VA
ADGSSAEACS LAESFSSRK G PCGRTRSSAA LPSSCASPAA PFHYSQRSAA
SVQWEGFSVC VV*GPGR LHA CSERLRR*DG YYCVNIPCSS GTCCQSADPS
PENKIHATCQ *ERGWLINCR GNKRTSVQRV AELH*PFFAY SQLQRIAAHS

ACKKDHVNCS	SAVQHKVKIN	YVIPHRFDNL	QRQAFLPFIL	*GLLSIL*DF
FLLLGSGGGG	GVVSGSGLKS	MEL**YAFKL	AGKRRLHMHV	LCL*NVLYIC
TTVNAAAYLSS	SNLDYGFLQL	ALHLFKIPEA	HGVDGISHYV	PTRPSKQVRL
HIPHAFC**	SQNKYTSIL	NL*NLRVCVL	QAVDHLSQLG	GLLLVVLQVY
RYGCNQSANR	ASAYWDE*LF	LQESSIENKK	KHARECLDLF	ELGGVIHDIL
SHNMHVKSLV	W*HSEVPNHF	*I*FVV*III	YVY*IPLYMI	GMHAFLRICP
YEY*HDF*TD	YIVMPIKNQV	YIERERCSLQ	SERGSMDNFI	HKIENIQVSH
TIAHHICFTI	SLCVSVTVQT	SISSGNFVIR	*PCMFIQ*IH	INT*SIKSRD
LYYHQITMQE	FSVFFYFMWR	QGN*LPKSAK	ALELEDILN*	CWYCI*YCRV
RLNELTLHNN	TEYNPSVVQL	SVC*IWVLLN	LILADSAFIS	TARGDI*RT*
L*HRFNLSEL	LVCELLRTTC	FVWFG*KISQ	SPTDIKL*GI	GPKDNPSMTR
RTQQSIHCAN	ARTFCSEFLV	SGDLAQSQRH	GVVTVKREC*	PSLR*GFLID
*LAS*IYELT	TPVTSRIQLR	KLIDRKDWRD	FYLGIDFCNC	ARVGGVTVGL
LVPLNGGLHT	AI***YAHCR	S*HARLLN*E	H*VLPHVRNC	VYTKLETVSE
QFN*ASIR*F	KIPFHC*LSM	GGMICYVKMM	FNIFTLRLRV	CNSS*AE*CM
QSAGSV*PEQ	YSKRQRNSRD	TGEQ*NTLVR	SLC*HRATVS	YSGFFFTENL
VHCRCIYDIY	MMSRHIYICI	DIFSQSI*CV	EIAAVNVLVH	AY*QHQLTKG
LILPFIVREK	AHRNIWHIDS	ATRPILSM*T	FSHTLPRGLV	*QLHFFKRFL
LF*EKLK*GC	QTSPKG*KMT	AKIHIQAEKT	RRMLIKCLCC	*KNIRNEELD
*DRYFHMFBVY	LLLCIQIFGL	CITIIYILSP	RIGASIGAFF	FFGKRK*QGG
*VQLVRIYID	LLL*RSKKYS	EKEKKNGMHA	LHV*ILISLS	VTTLQIH*FC
IVYYYFFLEF	SSIPTM*GGN	YVLASLRYSS	HISYIYINRS	SLL*F*PYC*
*LETKWCA*N	TR*INNRO*C	IKQQAKKKSS	NIKLSTI*CH	ISASQGGAAC
SKNSIKDRES	KRAPCSAASK	LPLDRTHHQR	DEALLASSSS	AVLGGQCVVH
AAGHRNSHDW	VGTVQWACMF	YPTGKRVDAA	KAGWRARTAQ	CTQDTAQTHQ
RALHASSLAF	TQALTTLTET	TPAFFTPRVD	SQELRQCRCR	TGPLLLPMRP
CHWAFSSLSA	VRTGRHKGTS	HAHTHTHRHR	AMSERRRVSI	RFCLHAPARF
TYPIARDEMT	QTQYMHAWPR	VLHSQTYDHS	HEKLSSACRR	SAIAGSYLHY
YLTINCVF*F	FFLSLYQTM	AHCQ*SKIFG	DGKYSEMTMK	TPLRILELKE
RLRGIKNPNS	RYLEWIQFY*	V*PIVIISL*	QRMTLVIKGL	NNRDPFTYDT
*LTLLTRI**	IMSLIDSL*Q	KDVYSLLIIR	QSLIPKPRVG	LIVFIYHLME
NPFRSA*PYR	VF***VL*EL	DNPIWSNT*R	KIPIFLSLRY	EGFLFHKNES
TFSFHILGV	FTWKRQCSIL	KDSGP*PRVL	VH*IL*HLAT	RPYPLVFHVR
NPL*KLIQLD	*LFIDKLGVC	EPR*DRLGIM	GPFSIR*EGI	LYKIDF*VIT
P*ILYLSI*R	GNRVRKRLFL	WSNGTSNLER	A*RD*RDFFL	F*VFLADRSR
KIFGLPPEPM	KKWVASYGLA	QNDSSLSIVH	GLLEVEGAPT	EKDCSV*RT*
MLFGSKNVTQ	MAMVTVYDRL	LVVTNLNRLV	SIFSVVSDYG	WTKTNMI*RY
*LPITLQICE	PNGTLVLLII	ISLAKQILFW	DFTEKCFCLV	SLLK*SLGVP
LR**NQQVLP	WTHTHMVNW*	CDAMRERERE	RVL*V*ERGS	TWDEALG*EQ
KETMMQERN*	RVGMAVPFYI	SLSLSLFLVT	SHTHTRFHGR	MLLYQTNRYN
NNKKELARSA	STQAKKKKQI	DRSISLSITG	CVRSTACIYI	HASAPLSPHL
CHTREELLAQ	HGR*ERKGHK	YSKNREAGPP	WPKKLDQLSP	LLALSQSHSS
QQDRRKGRLLR	MHYTTHAYSK	LCTRSMQTSS	LTSPCLPHRQ	AGARAKGNNG
PHRRKEVFVA	IFLSPFVACS	SQERDTAACG	*YNRE*SQPQ	ERWRLPIPRP
R*LVLASSAS	RN*DGSDELA	LAPIGTNRTV	QTADPPARAV	CSVRLGSNLT
KIRVQIYASS	PVVGVLVEAA	AAGEDDERDL	GVAEHRELVR	LLEQAVAALA
EGHLPVRRVL	DALDLDLASP	LPLPVAGARR	RRRHLLLDLG	RRPAAQISLE
KKEI*LTNKA	QEIPISSKGG	RKEGDGV*RR	ELCWPVVDLL	GFL*GPFYIV

EIPPRHLGAS KLISMPLLLSC GVSFFFFPRTT PTHPKKIRDQ TPESHVCMYV
 LVASLARSLO HSNQDPTTPT LLRRWCKRHR *RERERGEKG S*LADPLC*F
 PGRS*QQSKI RQQEANIYHH VEHGVVVVVV VLAVPLDLQG RDPASPEKGG
 EEEVLKGAE EGRGESM*GD AVSSSSCCCC CSGGLT*

Las longitudes exactas de los fragmentos son:

Fragmento	Posición	Longitud	Secuencia
F001	[0000,0024]	025	FRREANILFSIYIKHTNHIYISMRK
F002	[0026,0064]	039	TRVSDDMAWPEGTIVVDATAKFTRTNARTQWWHSQIY IP
F003	[0066,0068]	003	QLH
F004	[0070,0091]	022	SQLLIIKQTYVELLEISIWHMI
F005	[0093,0095]	003	LHA
F006	[0097,0124]	028	SISIGGRAPPGIALISSAAPPVCIYRI
F007	[0126,0127]	002	IQ
F008	[0129,0145]	017	TVYTYTINNANDLVFPC
F009	[0147,0196]	050	LIMQSICMCNCGKTPAPNVDDCMCDRVCSSELRLQLL TEGLFGITRAGGL
F010	[0198,0261]	064	VAADGSSAEACSLAESFSSRKGPCGRTRSSAALPSSC ASPAAPFHYSQRSAASVQWEGFSVCVV
F011	[0263,0276]	014	GPGR LHACSERLRR
F012	[0278,0309]	032	DGYVCVNIPCSSGTCQADPSPENKIHATCQ
F013	[0311,0333]	023	ERGWLINCRGNKRTSVQRVAELH
F014	[0335,0389]	055	PFFAYSQQLORIAAHSACKKDHVNCSSAVQHKVKINYV IPHRFDNLQRQAFLPFIL
F015	[0391,0396]	006	GLLSIL
F016	[0398,0422]	025	DFFLLLGGGGGGGVVGSGLKSMEL
F017	[0425,0442]	018	YAFKLAGKRRLMHVLCCL
F018	[0444,0507]	064	NVLYICTTVNAAYLSSSNLDYGFLQLALHLFKIPEAH GVDGISHYVPTRPSKQVRLHIPHAFYC
F019	[0510,0521]	012	SQNKTYTSILNL
F020	[0523,0566]	044	NLRVCVLQAVDHLSQLGGLLLVVLQVYRYGCNQSANR ASAYWDE
F021	[0568,0610]	043	LFLQESSIENKKKHARECLDLFELGGVIHDILSHNMH VKSLVW
F022	[0612,0619]	008	HSEVPNHF
F023	[0621,0621]	001	I
F024	[0623,0625]	003	FVV
F025	[0627,0632]	006	IIIIYVY
F026	[0634,0652]	019	IPLYMIGMHAFLRICPYEY
F027	[0654,0656]	003	HDF
F028	[0658,0729]	072	TDYIVMPIKNQVYIERERCSSLQSERGSDMNFHKKIEN IQVSHITIAHHICFTISLCVSVTVQTSISSGNFVIR
F029	[0731,0736]	006	PCMFIQ
F030	[0738,0742]	005	IHINT
F031	[0744,0772]	029	SIKSRDLYYHQITMQEFSVFFYFMWRQGN
F032	[0774,0788]	015	LPKSAKALELEDILN

F033	[0790,0794]	005	CWYCI
F034	[0796,0822]	027	YCRVRLNELTLHNNTTEYNPSVVQLSVC
F035	[0824,0845]	022	IWVLLNLILADSAFISTARGDI
F036	[0847,0848]	002	RT
F037	[0850,0850]	001	L
F038	[0852,0874]	023	HRFNLSELLVCELLRRTTCFVWFG
F039	[0876,0886]	011	KISQSPTDIKL
F040	[0888,0938]	051	GIGPKDNPSMTRRTQQSIHCANARTFCSEFLVSGDLA QSQRHGVVTVKREC
F041	[0940,0943]	004	PSLR
F042	[0945,0949]	005	GFLID
F043	[0951,0953]	003	LAS
F044	[0955,1011]	057	IYELTTPVTSRIQLRKLIDRKDWRDFYLGIDFCNCAR VGGVTVGLLVPLNGGLHTAI
F045	[1015,1020]	006	YAHCRS
F046	[1022,1027]	006	HARLLN
F047	[1029,1030]	002	EH
F048	[1032,1052]	021	VLPHVRNCVYTKLETVSEQFN
F049	[1054,1057]	004	ASIR
F050	[1059,1065]	007	FKIPFHC
F051	[1067,1093]	027	LSMGGMICYVKMMFNIFTLRLRVCNSS
F052	[1095,1096]	002	AE
F053	[1098,1105]	008	CMQSAGSV
F054	[1107,1123]	017	PEQYSKRQRNSRDTGEO
F055	[1125,1132]	008	NTLVRSLC
F056	[1134,1176]	043	HRATVSYSGFFFTENLVHCRCIYDIYMMSRHIYICID IFSQSI
F057	[1178,1191]	014	CVEIAAVNVLVHAY
F058	[1193,1227]	035	QHQLTKGLILPFIVREKAHRNIWHIDSATRPILSM
F059	[1229,1239]	011	TFSHTLPRGLV
F060	[1241,1251]	011	QLHFFKRFLLF
F061	[1253,1256]	004	EKLK
F062	[1258,1265]	008	GCQTSPKG
F063	[1267,1289]	023	KMTAKIHIQAEKTRRMLIKCLCC
F064	[1291,1299]	009	KNIRNEELD
F065	[1301,1345]	045	DRYFHMVYLLLCIQIFGLCITIIYILSPRIGASIGA FFFFGKRK
F066	[1347,1349]	003	QGG
F067	[1351,1362]	012	VQLVRIYIDLLL
F068	[1364,1382]	019	RSKKYSEKEKKNGMHALHV
F069	[1384,1396]	013	ILISLSVTTLQIH
F070	[1398,1415]	018	FCIVYYYFFLEFSSIPTM
F071	[1417,1442]	026	GGNYVLASLRYSSHISYIYINRSSLL
F072	[1444,1444]	001	F
F073	[1446,1448]	003	PYC
F074	[1451,1457]	007	LETKWCA
F075	[1459,1461]	003	NTR
F076	[1463,1467]	005	INNRO
F077	[1469,1486]	018	CIKQQAKKKSSNIKLSTI

F078	[1488,1757]	270	CHISASQGAACSKNSIKDRESKRAPCSAASKLPLDR THHQRDEALLASSSSAVLGGQCVVHAAGHRNSHDWVG TVQWACMFYPTGKRVDAAKAGWRARTAQCTQDTAQTH QALHASSLAFTQALTTLTETTPAFFTPRVDSQELRQ CRCRTGPLLLPMRPCHWAFSSLSAVRTGRHKGTSHAH THTHRHRAMSERRRVSIRFCLHAPARFTYPIARDEMT QTQYMHAWPRVLHSQTYDHSHEKLSSACRRSAIAGSY LHYILTINCVF
F079	[1759,1773]	015	FFFLSLYQTMTHCQ
F080	[1775,1818]	044	SKIFGDGKYSEMTMKTPLRILELKERLRGIKNPNSRY LEWIOFY
F081	[1820,1820]	001	V
F082	[1822,1828]	007	PIVIISL
F083	[1830,1849]	020	QRMTLVIKGLNNRDPFTYDT
F084	[1851,1857]	007	LTLLTRI
F085	[1860,1867]	008	IMSLIDSL
F086	[1869,1905]	037	QKDVYSLLIIRQSLIPKPRVGLIVFIYHLMENPFRSA
F087	[1907,1911]	005	PYRVF
F088	[1915,1916]	002	VL
F089	[1918,1927]	010	ELDNPIWSNT
F090	[1929,1974]	046	RKIPIFLSLRYEGFLFHKNSTFSFFHILGVFTWKRO CSILKDSGP
F091	[1976,1981]	006	PRVLVH
F092	[1983,1984]	002	IL
F093	[1986,2002]	017	HLATRPYPLVFHVRNPL
F094	[2004,2009]	006	KLIQLD
F095	[2011,2022]	012	LFIDKLGVCPR
F096	[2024,2035]	012	DRLGIMGPFSIR
F097	[2037,2045]	009	EGILYKIDF
F098	[2047,2050]	004	VITP
F099	[2052,2057]	006	ILYLSI
F100	[2059,2080]	022	RGNRVKRLFLWSNGTSNLERA
F101	[2082,2083]	002	RD
F102	[2085,2090]	006	RDFFLF
F103	[2092,2145]	054	VFLADRSRKIFGLPPEPMKKWVASYGLAQNDSSLSIV HGLLEVEGAPTEKDCSV
F104	[2147,2148]	002	RT
F105	[2150,2196]	047	MLFGSKNVTQMAMVTVYDRLLVVTNLNRLVSIFSVVS DYGWTKTNMI
F106	[2198,2199]	002	RY
F107	[2201,2243]	043	LPITLQICEPNGTLVLLIIISLAKQILFWDFTKCF LVSLLK
F108	[2245,2251]	007	SLGVPLR
F109	[2254,2268]	015	NQQVLPWTHTHMVNW
F110	[2270,2282]	013	CDAMRERERERVL
F111	[2284,2284]	001	V
F112	[2286,2296]	011	ERGSTWDEALG
F113	[2298,2308]	011	EQKETMMQERN
F114	[2310,2412]	103	RVGMAVPFYISLSLSLFLVTSHTHTRFHGRMLLYQTN RYNNNNKKELARSASTQAKKKKQIDRSISLSITGCVRS TACIYIHASAPLSPHLCHTREELLAQHGR

F115	[2414 , 2529]	116	ERKGHKYSKNREAGPPWPCKLDQLSPLLALSQSHSSQ QDRRKGRRLRMHYTTTHAYSKLCTRSMQTSSLTSPCLPH RQAGARAKGNGNPHRRKEVFVAIFLSPFVACSSQERD TAACG
F116	[2531 , 2534]	004	YNRE
F117	[2536 , 2550]	015	SQPQERWRLPIPRPR
F118	[2552 , 2561]	010	LVLASSASRN
F119	[2563 , 2703]	141	DGSDELALAPIGTNRTVQTADPPARAVCSVRLGSNLT KIRVQIYASSPVVGVVLEAAAAGEDDERDLGVAEHRE LVRLLAQAVAALAEGLHPVRRVLDALDLDLASPLPLP VAGARRRRRHLLLDLGRRPAAQISLEKKEI
F120	[2705 , 2726]	022	LTNKAQEIPISSKGGKKEGDGV
F121	[2728 , 2742]	015	RRELCWPVVDLLGFL
F122	[2744 , 2829]	086	GPFIYIVEIPPRHLGASKLISMPLLSGVSFFFFPRTTP THPKKIRDQTPESHVCMYVLVASLARSLQHSNQDPTT PTLLRRWCKRHR
F123	[2831 , 2840]	010	RERERGEKGS
F124	[2842 , 2847]	006	LADPLC
F125	[2849 , 2853]	005	FPGRS
F126	[2855 , 2916]	062	QQSKIRQQEANIYHHVEHGVVVVVVVLAVPLDLQGRD PASPEKGGEEGEVVKGAEEGRGESM
F127	[2918 , 2935]	018	GDAVSSSSCCCCCSGGLT

Marco de lectura -2:

Secuencia:

SEERPTYSFQ SI*STQIIYI *VCVNKPAFL MIWPGRRVQ* **MQQLNSHV
 QMAHSGGTH KYIYPNSCTN HNY**LSKRT *SYLRSRFGT *YNCMRDLR
 LGAGRRQV*R *FHHLQHHQC VYTGFYRNR CTHIQLIMLM TWYSLAS**C
 SPYVCATVVR LLHQMMMIAC VTVCAVVS* DNC*LKGCLG LPELEGCRLO
 LMGVVLRAH LQKVSVERG HVVVLARRR SHRHVHRLP RFITLSDLQH
 PCNGKDSVCA WFKDQADCTH ALRDSGEMA TTALTYLAPQ VHVVSLQIHL
 LKIKFMPHVS KSEVG**TVG ETKEACRGS LNYTNPFLHI VNFSV*QLIL
 HARKTMLIAH QQFNTKSKSI M*FLIDSITC SGRHFYHLFY KAYFQYCRIF
 FCCWGGGGGG GLLVQVL*NL WSYSNMHLNW LVKEGCTCMY SAYKMFYISV
 PQLMLHTFLA LILIMAFSSL PSICLRSLRP MVWMSPTMF LLDHLNKLGC
 IYHTLFTVNE VKTKHIHPY* ICRIYVFAFC KLWIIICRSLE DSCW*YCKFT
 GMDVTSQQIE LLLIGMSNCS CKKV*V*IKR NMPENV*TCL NWEELFMIYY
 LTTCM*NH*F GSTVKFLIIS KFNLYK*LY MYTKYLCT*S VCMHFLGFAH
 MNTNMIFKPT T**CP*KTKY I*RGRDAVCS LSEALI*TSY IK*KTR*AI
 RLHTIYASLY LYV*V*LSKH P*VQVILSSD NHACLFNKYT SILNP*NQET
 FIIIRSPCKS SQFSFISCGD KETDFQSLK R*SWKIY*ID VGTVSNTAGS
 DSMS*PCIII RSIIHRWFSS VYAESGCF*I *FWRTVHLSV PQEGIYRELD
 CDTDLICRSF LFASYCVLHV LFGLAKRFHS PQLT*SCEAS VQKTILV*HA
 GLNRVSIVQM PVLALNFLS LEILLRVRGT A**Q*RENV QACVKDFS*T
 D*LARFMN*L LQSHPGFSSG N*LTRIGVI FTWALTSATV PELEESLLAF
 LYLSMVDFTL QYNDDMPTVG VSTHACLIK IRYHYMYVT CTQNWKLQFN

SLIKLA*DDS KSRSIASYRW AG*YVM*K*C STFSH*D*GS ATVARPNNAC
SLQVLYDLNS TVKGKEIQET QANSRIHWSE ACASTVPPSA TVVSSLPRIL
CTVVVYMIYI *CLDIYIYVL TSSVSQYNA* K*LQLMFLFM RIDSTN*LRG
LYFLSSLGKK HTGIYGTSIQ LHGQYYLCEH FPTHSHVG*F DNFISSRDSY
YSKKN*NEVV KLVLKGKK*R QKSIYKQRKL DAC**NACVV KKT*EMKN*I
KTVTSTCLFI CCFAFRSLAS ASQLFTSFPP GLEHP*VPFF FLVKESNRVD
RFN*FEFT*I FFSRDRKNIQ KKKKRMACML YMYEYLYHSL LLHFRYINFRV
LFITTTFF*SS VVYQRCEGGT MF*LVCVIHH ILVIYI*TEV VCYNFDLIVD
NSKLNQVRKI PDK*TIGSNV LSSKPKKKAP TSN*ARYDVT SVRHKVALRV
PRTQLRTENP RELAVQQAS YLSIGLITKE MKPY*HPRVV RCWVASALFT
QLVTGIHMIG WEQYSGHACF IQQANEWTQQ RQDGEHALHS AHRTQHKHTR
EHSAMPLAWLL PRP*PL*PKP RQRSLLLV*T PKNCANAGAG QVRCCCPCGR
AIGHLAVCPQ SAQAATKAPV TRTHHTGTGTE L*ANGEGFPS GFACMLLHAS
RTL*PGMR*H RHSICMHGHV FFTPKHTIIV MRSSALRVDG QL*LALICIT
TLLLIVCFDF FFSLSIKQ*Q LIVSNRKYSE MANIRR*L*K HLSGSSN*KR
D*EGSRILIL AIWNGSNSIE SDP**SFLFS KE*PWLSKD* TTEIHLMLIP
S*HC*QGSNE L*V**ILFSR KTYIPCSLSD NHLFPNLVWG *SFSFTISWK
TLFVPLSPIG YFSDRFYRNW TILFGQIPNE KFLFSFH*GT RASYSTRTKA
PFHSFIY*GF LLGKDNVPY* RIRVHNHEF* CTRSCST*QL GPIH*YST*E
IHYRN*YN*I NSS*TNLGFA SQDKTGSGSW DPFLSDRRGS CTK*TSK**P
HRSYIYLYKE AIVSGSGFFF GQTVLRTWNE HEEINETSFS FEFFWRTGRA
RSLVFPRNR* KSGSLLMDSL RMILLYL*FM AY*K*KVLRQ KKIAVCSELR
CCLVQKM*RK WQW*RFTIDY *W*QI*IGWY QFLVWYLITV GLKQT*FNVI
NYPLRYKYVN QTAP*FLLLL LVWQSKFCSG TSLKNVSVWF PS*NSLLVCH
SGDEISKYSR GHTHTW*IGD VMR*ERERER EYVEYEREVA HGMKPLARNR
RRR*CKRETE ELAQQLFIS LSLSLSSLLP HTLIHAFMDA CSCTRPTGTT
ITRRSWDLDL LHKQKKKNKL IGVFHYLSPG V*DLQPAYIY MHQLPCLHTC
VTPVRSY*HS TAGEKGKGIN TARIGRQDHH GQRSSISLL CLRSRVTAR
NKIEGKAG*G CTTLMHTAS SVLDLCKHLA SPHLACLTGR QELEQRGMEI
RIAERRCSWQ FFFPPLLHAL LKNETQQHAV DITENEVSHK KDGGSPSLVL
AS*FLLLLPR EIKMGATSWL WLQLGPIGRC KQLTRPPARC VVYD*DLI*L
RYAYRYMHHS LLLAYS*RRP RLEKTTTSATS ASQSTESSYA FLSRPLRLQ
KVTCRFVVS MRLISILPLP CPCLSPPEVG AAATCSLTLD DGPQLRSVWR
RRKYN*LTKR KKFQFPVKEE GRKVMESGA SCAGLWSIFL AFYRDLSI**
KFLGLIWAHQ N*FPCLFSLV ACLFFSPAPP PRTQKKSETR HQRAMCVCMF
*LPL*LDPCS IATKILLLLH CYADGAKDID REREREGKKE AS*LIRYVSF
QGGASSKAR* GSRRQIFTIM LSMVWWWWW CWQCLSICRE EIRPAQRREE
RRVRY*RELK KEGKVCEVM QLAAAAAAAA AVVA*PD

Las longitudes exactas de los fragmentos son:

Fragmento	Posición	Longitud	Secuencia
F001	[0000,0011]	012	SEERPTYSFQSI
F002	[0013,0019]	007	STQIIYI
F003	[0021,0038]	018	VCVNKPAFLMIWPGRVQ
F004	[0042,0072]	031	MQQLNSHVQMHAHSGGTHKYIYPNSCTNHNY

F005	[0075,0079]	005	LSKRT
F006	[0081,0089]	009	SYLRSRFGT
F007	[0091,0107]	017	YNCMRDLSRLGAGRRQV
F008	[0109,0109]	001	R
F009	[0111,0146]	036	FHHLQHHQCvyTGFRYNKRCTHIQLIMLMTWYSLAS
F010	[0149,0178]	030	CSPYVCATVVRL LHQMWMIACTVCAVVWS
F011	[0180,0182]	003	DNC
F012	[0184,0314]	131	LKGCLGLPELEGCR LQLMGVVLRHAHLQKVS RVERGH VVVLARRRRSHRHVHRRLPRFITLSDLQHPCNGKDSV CAWFKDQADCTHALRDSGDGEMATTALTYLAPQVHVVS LQIHLLKIKFMPHVSKSEVG
F013	[0317,0344]	028	TVGETKELACRGSLNYTNPFLHIVNFSV
F014	[0346,0370]	025	QLILHARKTMLIAHQQFN TKSKSIM
F015	[0372,0416]	045	FLIDSITCSGRHFYHLFYKAYFQYCRIFFCWGGGGG GGLLVQVL
F016	[0418,0518]	101	NLWSYSNMHLNWL VKEGCTCMYSAYKMFYISVPQLML HTFLALILIMAFSSLPSICLRSLRPMVWME SPTMFL DHLNKLGC IYHTLFTVNEVKT KHIHPY
F017	[0520,0543]	024	ICRIYVFAFCKLWIICRSLEDSCW
F018	[0545,0574]	030	YCKFTGMDVTSQQIE LLLIGMSNC SCKKV
F019	[0576,0585]	010	KIKRNPENV
F020	[0587,0604]	018	TCLNWEELFMIYYLTTCM
F021	[0606,0607]	002	NH
F022	[0609,0626]	018	FGSTVKFLIISKFN LWYK
F023	[0628,0637]	010	LYMYTKYLCT
F024	[0639,0660]	022	SVCMHFLGFAHMNTNMIFKPTT
F025	[0663,0664]	002	CP
F026	[0666,0670]	005	KTKYI
F027	[0672,0685]	014	RGRDAVCSLSEALI
F028	[0687,0691]	005	TSYIK
F029	[0693,0696]	004	KTFR
F030	[0698,0712]	015	AIRLHTIYASLYLV
F031	[0714,0714]	001	V
F032	[0716,0720]	005	LSKHP
F033	[0722,0744]	023	VQVILSSDNHACL FNKYTSILNP
F034	[0746,0780]	035	NQETFIIIRSPCKSSQFSFISCGDKETDFQSL LKR
F035	[0782,0786]	005	SWKIY
F036	[0788,0803]	016	IDVGTVSNTAGSDSMS
F037	[0805,0827]	023	PCIIIRSIIHRWFSSVYAESGCF
F038	[0829,0829]	001	I
F039	[0831,0883]	053	FWRTVHLSVPQEG IYRELD CDTDLICRSFLFASYCVL HVLFLGLAKRFHSPQLT
F040	[0885,0896]	012	SCEASVQKTILV
F041	[0898,0930]	033	HAGLNRVSIVQMPVLSALNFLSLEILLRVRGTA
F042	[0933,0933]	001	Q
F043	[0935,0947]	013	RENVDQACVKDFS
F044	[0949,0950]	002	TD
F045	[0952,0957]	006	LARFMN
F046	[0959,0970]	012	LLQSHPGFSSGN

F047	[0972,1055]	084	LTERIGVIFTWALTSATVPELEESLLAFLYLSMVDFTLQYNDDMPTVGVSTHACLIKNIIRYYHMYVTVCTQNWKLFQNSLIKLA
F048	[1057,1071]	015	DDSKSRSIASRWAG
F049	[1073,1075]	003	YVM
F050	[1077,1077]	001	K
F051	[1079,1084]	006	CSTFSH
F052	[1086,1086]	001	D
F053	[1088,1159]	072	GSATVARPNNACSLQVLYDLNSTVKGKEIQETQANSRIHWSEACASTVPPSATVVSSLPRILCTVVVYMIYI
F054	[1161,1178]	018	CLDIYIYVLTSSVSQYNA
F055	[1180,1180]	001	K
F056	[1182,1195]	014	LQLMFLEMRIDSTN
F057	[1197,1237]	041	LRGLYFLSSLGKKHTGIYGTSIQLHGQYYLCEHFPTHSHVG
F058	[1239,1254]	016	FDNFISSRDSYYSKKN
F059	[1256,1267]	012	NEVVKLVLKGKK
F060	[1269,1282]	014	RQKSIYKQRKLDAC
F061	[1285,1292]	008	NACVVKKT
F062	[1294,1297]	004	EMKN
F063	[1299,1334]	036	IKTVTSTCLFICCFAFRSLASASQLFTSFPPGLEHP
F064	[1336,1352]	017	VPFFFFLVKESNRVDRFN
F065	[1354,1357]	004	FEFT
F066	[1359,1406]	048	IFFSRDRKNIQKKKKRMACMLYMYEYLYHSLLLHFRYINFVLFITTF
F067	[1408,1421]	014	SSVYQRCEGGTMF
F068	[1423,1435]	013	LVCVIHHILVIYI
F069	[1437,1462]	026	TEVVCYNFDLIVDNSKLNQVRKIPDK
F070	[1464,1482]	019	TIGSNVLSSKPKKKAPTSN
F071	[1484,1533]	050	ARYDVTSVRHKVALRVPRTQLRTENPRELLAVQQASYLSIGLITKEMKPY
F072	[1535,1612]	078	HPRVVRCWVASALFTQLVTGIHMIGWEQYSGHACFIQQANEWTQQRQDGEHALHSAHRTQHKHTREHSMPLAWLLPRP
F073	[1614,1615]	002	PL
F074	[1617,1627]	011	PKPRQRSLLLIV
F075	[1629,1680]	052	TPKNCANAGAGQVRCCCPCGRAIGHLAVCPQSAQAATKAPVTRTHTHGTGTEL
F076	[1682,1702]	021	ANGEFGPSGFACMLLHASRTL
F077	[1704,1707]	004	PGMR
F078	[1709,1741]	033	HRHSICMHGHVFFTPKHTIIVMRSSALRVDGQL
F079	[1743,1767]	025	LALICITTLILLIVCFDFFFSLSIKQ
F080	[1769,1785]	017	QLIVSNRKYSEMANIRR
F081	[1787,1787]	001	L
F082	[1789,1796]	008	KHLSGSSN
F083	[1798,1800]	003	KRD
F084	[1802,1822]	021	EGSRILILAIWNGSNSIESDP
F085	[1825,1831]	007	SFLFSKE
F086	[1833,1838]	006	PWLSKD
F087	[1840,1850]	011	TTEIHLMLMIPS

F088	[1852,1853]	002	HC
F089	[1855,1860]	006	QGSNEL
F090	[1862,1862]	001	V
F091	[1865,1889]	025	ILFSRKTYIPCSLSDNHLFPNLVWG
F092	[1891,1936]	046	SFSFTISWKTLFVPLSPIGYFSDRFYRNWTILFGQIP NEKFLFSFH
F093	[1938,1956]	019	GTRASYSTRTKAPFHSFIY
F094	[1958,1968]	011	GFLLGKDNVPY
F095	[1970,1978]	009	RIRVHNHEF
F096	[1980,1986]	007	CTRSCST
F097	[1988,1993]	006	QLGPIH
F098	[1995,1997]	003	YST
F099	[1999,2004]	006	EIHYRN
F100	[2006,2007]	002	YN
F101	[2009,2012]	004	INSS
F102	[2014,2042]	029	TNLGFASQDKTGSGSWDPFLSDRRGSCTK
F103	[2044,2046]	003	TSK
F104	[2049,2108]	060	PHRSYIYLYKEAIVSGSGFFFGQTVLRTWNEHEEINE TSFSFEFFWRTGRARSLVFPRNR
F105	[2110,2126]	017	KSGSLLMDSLRLMILLYL
F106	[2128,2131]	004	FMAY
F107	[2133,2133]	001	K
F108	[2135,2156]	022	KVLRQKKIAVCSELRCCLVQKM
F109	[2158,2162]	005	RKWQW
F110	[2164,2169]	006	RFTIDY
F111	[2171,2171]	001	W
F112	[2173,2174]	002	QI
F113	[2176,2194]	019	IGWYQFLVWYLITVGLKQT
F114	[2196,2213]	018	FNVINYPLRYKYVNQTAP
F115	[2215,2241]	027	FLLLLLVWQSKFCSGTSLKNVSVWFPS
F116	[2243,2265]	023	NSLLVCHSGDEISKYSRGHTHTW
F117	[2267,2272]	006	IGDVMR
F118	[2274,2302]	029	EREREREYYEYEREVAHGMKPLARNRRRR
F119	[2304,2380]	077	CKRETEELAWQFLFISLSLSLSSLLPHTLIHAFMDAC SCTRPTGTTITRRSWLDLLLHKQKKKNKLIGVFHYLS PGV
F120	[2382,2406]	025	DLQPAYIYMHQLPCLHTCVTPVRSY
F121	[2408,2457]	050	HSTAGEKKGKINTARIGRQDHHGQRSSISSLLCLRSP RVTARNKIEGKAG
F122	[2459,2551]	093	GCTTLHMHTASSVLDLCKHLASPHLACLTGRQELEQR GMEIRIAERRCSWQFFFPPLLHALLKNETQQHAVDIT ENEVSHKKDGGSPSLVLAS
F123	[2553,2593]	041	FLLLLPREIKMGATSWLWLQLGPGRCKQLTRPPARC VYVD
F124	[2595,2597]	003	DLI
F125	[2599,2615]	017	LRAYARYMHHLHLLAYS
F126	[2617,2704]	088	RRPRLEKTTTSATSASQSTESSYAFLSRPLRRLQKVTC RFVVFMSRLISILPLPCPLSPEPVGAAATCSLTLD GPQLRSVWRRRKYN

F127	[2706,2747]	042	LTKRKKFQFPVKEEGRKVMESGASCAGLWSIFLAFY RDLSI
F128	[2750,2760]	011	KFLLGIWAHQN
F129	[2762,2799]	038	FPCLFSLVACLFFSPAPPPRTQKKSETRHQRAMCVCM F
F130	[2801,2803]	003	LPL
F131	[2805,2841]	037	LDPCSIATKILLLLHCYADGAKDIDREREREGKKEAS
F132	[2843,2858]	016	LIRYVSFQGGASSKAR
F133	[2860,2904]	045	GSRRQIFTIMLSMVWWWWWCWQCLSICREEIRPAQR REERRVRY
F134	[2906,2933]	028	RELRKGEQKVCQMLAAAAAAAVVA
F135	[2935,2936]	002	PD

Marco de lectura -3:

Secuencia:

QKRGQHTLFN LYKAHKSYYI KYA*INPRF* *YGLAGGYNS SRCNS*IHTY
KCTHTVVALT NIYTLTVALI TIINN*ANVR RVT*DLDLAH DITACVIYLD
WGPAAARYSA DFIICSTTSV YIQDLDTING VHIYN**C** LGIPLLANNA
VHMYVQLW*D SCTKCG*LHV *PCVQ*CGAE TIVN*RAVWD YPSWRVVGCS
*WE*C*GMLT CRKFLESKGA MWSYSLVGGA PIVMCIAGCP VSLLSAICSI
RAMGRIQCVR GLRTRQTARM L*ETQTVRWL LLR*HTLLLR YMLSVCRSIS
*K*NSCHMSV RARLVNKLSG KQKN*RAEGR *TTLTLFCI* STSAYSSSFC
MQERPC*LLI SSSTQSQNQL CNSS*IR*PA AAGISTIYSI RPTFNTVGFF
FVVGGGGGGG GCWFRFSEIY GAIVICI*TG W*KKVAHACT LPIKCFIYLY
HS*CCIPF*L *S*LWLSPAC PPFV*DP*GP WCGWNLPLCS Y*TI*TS*AA
YTTRFLLLMK SKQNIYIHIE FVEFTCLRFA SCGSSVAAWR TPAGSTASLQ
VWM*PVSK*S FCLLG*VTVL ARK*YRK*KE TCQRMFRLV* TGRSYS*YTI
SQHACEITSL VAQ*SS*SFL NLICGINNYI CILNTFVHDR YACIS*DLPI
*ILT*FLNRL HSNAHKKPSI YREGEMQFAV *ARL*YELHT *NRKHSGKPY
DCTPYMLHYI FMCECDCPNI HKFR*FCHQI TMHVYSINTH QYLIHKIKRP
LLSSDHARV LSFLLFHVET RKLTSKVC*S ARVGRYTKLM LVLYLILPGQ
TQ*VDLA**Y GV*SIGGSAQ CMLNLGAFES NSGGQCIYQY RKRGYIENLI
VTQI*FVGAS CLRAIAYMF CLVWLKDFTV PN*HKAVRHR SKRQS*YDTQ
DSTEYPLCKC PYFLL*ISCL WRSCSESEAR RSNSKERMLT KLALRISHRL
TS*LDL*IDY SSHIQDSAQE ID*PKGLA*F LPGH*LLQLC QSWRSHCWPS
CTSQWWTSHC NIMMICPLSE LARTLA*LRT LGITTCT*LC VHKTGNCFRF
V*LS*HKMIQ NPVPLLAIDG RDDMLCKNDV QHFHTEIKGL QQ*LGRIMHA
VCRFCMT*TV Q*KAKKFKRH RRTVEYIGPK PVLAPCHRQL QWFLLYRESC
ALSLYI*YIY DV*TYIYMY* HLQSVNIMRR NSCS*CSCSC VLTAPIN*GA
YTSFHR*GKS TQEYMAHRFS YTANIIYVNI FPHTPTWASL TTSFLQEILI
ILRKIKMRLS N*S*RVKNDG KNPYTSREN* THANKMLVLL KKHKK*RTRL
RPLLPHVCLF AALHSDLWPL HHNYLHPFPP DWSIHRCLFF FW*KKVTGWI
GSTSSNLHRS SSLEIEKIFR KRKKEWHACF TCMNTYITLC YYTSDTLILY
CLLLLFVRVQ *YTNDVRGEL CSS*FALFIT Y*LYIYKQK* FVIILTLILLI

TRN*MVCVKY PINKQSAVMY *AASQKKKLQ HQIKHDMMSH QCVTRWRCVF
 QELN*GPRIQ ESSLQCSKQA TSRSDSSPKR *SLTSILE*C GVGWPVRCSR
 SWSQEFT*LG GNSTVGMHVL SNRQTSGRSK GRMESTHCTV HTGHSTNTPE
 STPCL*LGFY PGLNHSDRNH ASVLYSSCRL PRTAPMQVQD RSAAAAHAAV
 PLGI*QSVRS PHRPPQRHQS RAHTHTQAQS YERTEKGFHQ VLLACSCTLH
 VPYSQG*DDT DTVYACMATC SSLPNIRS*S *EAQLCV*TV SYSWLLFALL
 PYY*LCVLIF FSLSLSNND SLSVNIENIRR WQIFGDDYEN TSPDPRIERE
 TERDQES*FS LFGMDPILLS LTHSDHFSLA KNDLGYQRIE QPRSIYL*YL
 VDIANKDLMN YEFNRFSLAE RRIFLAHYQT ITYSQTSCGA NRFHLPSHGK
 PFSFRLALSG ILVIGSIGTG QSYLVKYLTK NSYFPFIKVR GLLIPQERKH
 LFILSYTRGF YLEKTMFHTK GFGSITTSSS ALDLVALSN* ALSISIPRKK
 SIIETNTIRL TLHRQTWGLR AKIRPARDHG TLFYQIGGDL VQNRLLSNNP
 IDPISIIYIKR QSCQEAAFSL VKRYFELGTS MKRLTRLLSL LSFSGGPVAQ
 DLWSSPGTDE KVGRFLWTRS E*FFSIYSSW PIRSRRCSDR KRLQCVANLD
 AVWFKKCNAN GNGNGLR*IT SGNKFE*VGI NF*CGI*LRL D*NKHDLTLL
 ITHYVTNM*T KRHLSSSYYY *FGKANSVLG LH*KMFLFGF PLEIVSWCAT
 QVMKSASTPV DTHTHGELVM *CDERERERE STMSMRER*H MG*SPWLGE
 GDDDAREKLK SWHGSSFLYL SLSLSLPCYL THSYTLSWTH ALVPDQPVQQ
 *QEGAG*ICF YTSKKKKTN* *EYFIIYHRV CEIYSLHIYT CISSLVSTPV
 SHP*GATSTA RPVRKERA*I QQE*GGRTTM AKEARSALSF ACALPESQLA
 TRSKERPAED ALHYTCIQQA LY*IIYANI*P HLTLLASQAG RS*SKGEWKS
 ASQKGGVRGN FSFPLCCMLF SRTRHSSMRL I*QRMKSATR KMAAPHPSSS
 LASSCFFCLE KLRWERRAGS GSNWDQSDGA NS*PARPRGV *CTTRI*SN*
 DTRTDICIIT CCWRTRRGGR GWRRRRARPR RRRAPRARTP S*AGRCGACR
 RSPAGSSCSR CA*SRSCLSL APACRRSPSA PPPAP*PWT TARSSDQSGE
 EGNIIIN*QSA RNSNFQ*RRK EGR*WSIAAR AVLACGRSSW LSIGTFLYSR
 NSS*ASGRIK INFHASSLLW RVFFFPHPHP HAPKKNQRPD TREPCVYVCS
 SCLSS*ILAA *QPRSYYSYT ATQMVQKT*I ERERERGRKR LAS*SVMLVS
 REELAAKQDK AAGGKYLPSL *AWCGGGGGG VGSASRSAGK RSGQPREGRR
 GG*GIKGS*G RERGKYVR*C S*QQQLLLLL QWWPDL

Las longitudes exactas de los fragmentos son:

Fragmento	Posición	Longitud	Secuencia
F001	[0000,0022]	023	QKRGQHTLFNLYKAHKSYYIYKYA
F002	[0024,0028]	005	INPRF
F003	[0031,0044]	014	YGLAGGYNSSRCNS
F004	[0046,0074]	029	IHTYKCTHTVVALTNIYTLTVALITIINN
F005	[0076,0082]	007	ANVRRVT
F006	[0084,0134]	051	DLDLAHDITACVIYLDWGPAGAARYSADFIICSTTSVY IQDLDTINGVHIYN
F007	[0137,0137]	001	C
F008	[0140,0157]	018	LGIPLLANNAVHMYVQLW
F009	[0159,0165]	007	DSCTKCG
F010	[0167,0169]	003	LHV
F011	[0171,0174]	004	PCVQ

F012	[0176,0183]	008	CGAETIVN
F013	[0185,0199]	015	RAVWDYPSWRVVGCS
F014	[0201,0202]	002	WE
F015	[0204,0204]	001	C
F016	[0206,0270]	065	GMLTCRKFLSKGAMWSYSLVGGAPIVMCIAGCPVSL LSAICSIRAMGRIQCVRGLRTRQTARML
F017	[0272,0282]	011	ETQTVRWLLLR
F018	[0284,0299]	016	HTLLLLRYMLSVCRSIS
F019	[0301,0301]	001	K
F020	[0303,0323]	021	NSCHMSVRARLVNKLSGKQKN
F021	[0325,0329]	005	RAEGR
F022	[0331,0338]	008	TTLTLFCI
F023	[0340,0355]	016	STSAYSSSFCMQERPC
F024	[0357,0373]	017	LLISSSTQSQNLNCS
F025	[0375,0376]	002	IR
F026	[0378,0426]	049	PAAAGISTIIYSIRPTFNTVGFFVVGSGGGGGGGCWFR FSEIYGAIVICI
F027	[0428,0430]	003	TGW
F028	[0432,0451]	020	KKVAHACTLPIKCFIYLYHS
F029	[0453,0457]	005	CCIPF
F030	[0459,0459]	001	L
F031	[0461,0461]	001	S
F032	[0463,0473]	011	LWLSPACPPFV
F033	[0475,0476]	002	DP
F034	[0478,0490]	013	GPWCGWNLPLCSY
F035	[0492,0493]	002	TI
F036	[0495,0496]	002	TS
F037	[0498,0552]	055	AAYTTRFLLLMKSKQNIYIHIEFVEFTCLRFASCGSS VAAWRTPAGSTASLQVWM
F038	[0554,0557]	004	PVSK
F039	[0559,0564]	006	SFCLLG
F040	[0566,0572]	007	VTVLARK
F041	[0574,0576]	003	YRK
F042	[0578,0588]	011	KETCQRMFRLV
F043	[0590,0595]	006	TGRSYS
F044	[0597,0612]	016	YTISQHACEITSLVAQ
F045	[0614,0615]	002	SS
F046	[0617,0644]	028	SFLNLICGINNYICILNTFVHdryACIS
F047	[0646,0649]	004	DLPI
F048	[0651,0653]	003	ILT
F049	[0655,0679]	025	FLNRLHSNAHKKPSIYREGEMQFAV
F050	[0681,0683]	003	ARL
F051	[0685,0689]	005	YELHT
F052	[0691,0723]	033	NRKHSGKPYDCTPYMLHYIFMCECDCPNIHKFR
F053	[0725,0777]	053	FCHQITMHVYSINTHQYLIHKIKRPLLSSDHARVLS FLLFHVETRKLTSKVC
F054	[0779,0801]	023	SARVGRYTKLMLVLYLILPGQTQ
F055	[0803,0806]	004	VDLA
F056	[0809,0811]	003	YGV

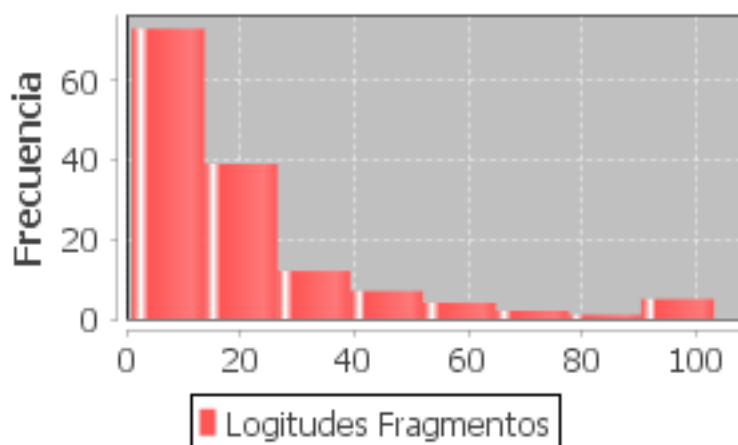
F057	[0813,0853]	041	SIGGSAQCMLNLGAFESNSGGQCIYQYRKRGYIENLI VTQI
F058	[0855,0881]	027	FVGASCLRAIAYYMFCLVWLKDFTVPN
F059	[0883,0894]	012	HKA VRHRSKRQS
F060	[0896,0914]	019	YDTQDSTEYPLCKCPYFLL
F061	[0916,0951]	036	ISCLWRSCSESEARRSNSKERMLTKLALRISHRLTS
F062	[0953,0955]	003	LDL
F063	[0957,0971]	015	IDYSSHIQDSAQEID
F064	[0973,0977]	005	PKGLA
F065	[0979,0983]	005	FLPGH
F066	[0985,1025]	041	LLQLCQSWRSHCWPSCTSQWWTSHCNIMMICPLSELA RTLA
F067	[1027,1036]	010	LRTLGITTTCT
F068	[1038,1050]	013	LCVHKTGNCFRTV
F069	[1052,1053]	002	LS
F070	[1055,1091]	037	HKMIQNPVPLLAIDGRDDMLCKNDVQHFHTEIKGLQQ
F071	[1093,1106]	014	LGRIMHAVCRFCMT
F072	[1108,1110]	003	TVQ
F073	[1112,1155]	044	KAKKFKRHRRTVEYIGPKPVLAPCHRQLQWFLLYRES CALSLYI
F074	[1157,1161]	005	YIYDV
F075	[1163,1168]	006	TYIYMY
F076	[1170,1183]	014	HLQSVNIMRRNSCS
F077	[1185,1196]	012	CSCSCVLTAPIN
F078	[1198,1205]	008	GAYTSFHR
F079	[1207,1260]	054	GKSTQEYMAHRFSYTANIIYVNIFPHTPTWASLTTSF LQEILIIILRKIKMRLSN
F080	[1262,1262]	001	S
F081	[1264,1278]	015	RVKNDGKNPYTSREN
F082	[1280,1294]	015	THANKMLVLLKKHKK
F083	[1296,1341]	046	RTRLRPLLPHVCLFAALHSDLWPLHHNYLHPFPDWS IHRCLFFFW
F084	[1343,1409]	067	KKVTGWIGSTSSNLHRSSSLEIEKIFRKRKKEWHACF TCMNTYITLCYTSDTLILYCLLLLLFFRVQ
F085	[1411,1422]	012	YTNDVRGELCSS
F086	[1424,1430]	007	FALFITY
F087	[1432,1438]	007	LYIYKQK
F088	[1440,1452]	013	FVIILTLLLITRN
F089	[1454,1469]	016	MVCVKYPINKQSAVMY
F090	[1471,1503]	033	AASQKKKLQHQIKHDMMSHQCVTRWRCVFQELN
F091	[1505,1529]	025	GPRIQESSLQCSKQATSRSDSSPKR
F092	[1531,1537]	007	SLTSILE
F093	[1539,1556]	018	CGVGWPVRCSRSWSQEFT
F094	[1558,1604]	047	LGGNSTVGMHVLSNRQTSGRSKGRMESTHCTVHTGHS TNTPESTPCL
F095	[1606,1653]	048	LGFYPGLNHSDRNHASVLYSSCRLPRTAPMQVQDRSA AAAHAAVPLGI
F096	[1655,1705]	051	QSVRSPHRPPQRHQSRATHHTQAQSYERTEKGFHQVL LACSC TLHVPYSQG
F097	[1707,1727]	021	DDTDTVYACMATCSSLPNIRS

F098	[1729,1729]	001	S
F099	[1731,1736]	006	EAQLCV
F100	[1738,1752]	015	TVSYSWLLFALLPYY
F101	[1754,1806]	053	LCVLIFFSLSLSNNDSSLSVIENTIRRWQIFGDDYENT SPDPRIEREETERDQES
F102	[1808,1846]	039	FSLFGMDPILLSLTHSDHFSLAKNDLGYQRIEQPRSI YL
F103	[1848,1988]	141	YLVDIANKDLMNYEFNRFSLAERRIFLAHYQTITYSQ TSCGANRFHLP SHGKPF SFR LALSGILVIGSIGTGQS YLVKYLTKN SYFPFIKVRGLLIPQERKHLFILSYTRG FYLEKTMFHTKGFGSITTSSSALDLVALSN
F104	[1990,2120]	131	ALSISIPRKKSIIETNTIRLT LHRQTWGLRAKIRPAR DHGTLFYQIGGDLVQNRLLSNNPIDPISIIYIKRQSCQ EAAFSLVKRYFELGTSMKRLTRLLSLLSFSGGPVAQD LWSSPGTDEKVGRFLWTRSE
F105	[2122,2166]	045	FFSIYSSWP IRSRRCSDRKRLQCVANLDAVWFKKCNA NGNGNGLR
F106	[2168,2175]	008	ITSGNKFE
F107	[2177,2181]	005	VGINF
F108	[2183,2185]	003	CGI
F109	[2187,2190]	004	LRLD
F110	[2192,2207]	016	NKHDLTLLITHYVTNM
F111	[2209,2219]	011	TKRHLSSSYYY
F112	[2221,2231]	011	FGKANSVLGLH
F113	[2233,2269]	037	KMFLFGFPLEIVSWCATQVMKSASTPVDTHTHGELVM
F114	[2271,2287]	017	CDERERERESTMSMRER
F115	[2289,2291]	003	HMG
F116	[2293,2349]	057	SPWLGTEGDDDAREKLSWHGSSFLYLSLSLSLPCYL THSYTL SWTHALVPDQPVOQ
F117	[2351,2355]	005	QEGAG
F118	[2357,2368]	012	ICFYTSKKKKTN
F119	[2371,2402]	032	EYFIIYHRVCEIYSLHIYTCISSLVSTPVSHP
F120	[2404,2417]	014	GATSTARPVRKERA
F121	[2419,2422]	004	IQQE
F122	[2424,2471]	048	GGRTTMAKEARSALSFACALPESQLATRSKERPAEDA LHYTCIQQALY
F123	[2473,2477]	005	IYANI
F124	[2479,2491]	013	PHLTLLASQAGRS
F125	[2493,2530]	038	SKGEWKSASQKGGVRGNFSFPLCCMLFSRTRHSSMRL I
F126	[2532,2581]	050	QRMKSATRKMAAPHPSSSLASSCFFCLEKLRWERRAG SGSNWDQSDGANS
F127	[2583,2589]	007	PARPRGV
F128	[2591,2595]	005	CTTRI
F129	[2597,2598]	002	SN
F130	[2600,2640]	041	DTRTDICIITCCWRTRRGGRGWRRRRRARPRRRRAPRA RTPS
F131	[2642,2661]	020	AGRCGACRRSPAGSSCSRCA
F132	[2663,2685]	023	SRSCLS PAPACRRSPSAPPPAP
F133	[2687,2705]	019	PWTTARSSDQSGEEGNIIN
F134	[2707,2715]	009	QSARNSNFQ

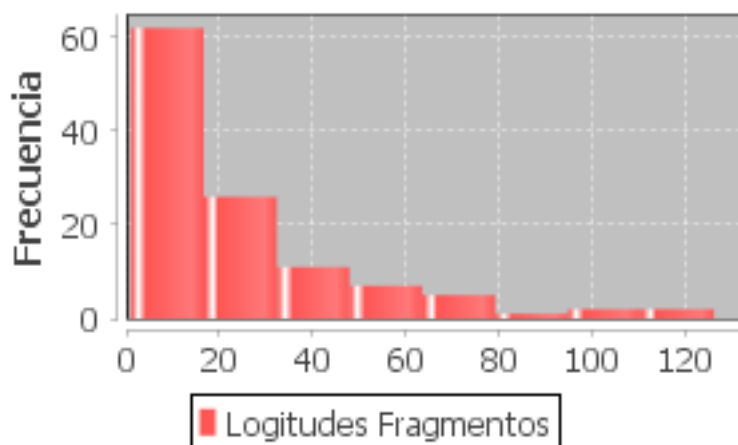
F135	[2717,2722]	006	RRKEGR
F136	[2724,2752]	029	WSIAARAVLACGRSSWLSIGTFLYSRNSS
F137	[2754,2804]	051	ASGRIKINFHASSLLWRVFFFPHPHPAPKKNQRPDT REPCVYVCSSCLSS
F138	[2806,2809]	004	ILAA
F139	[2811,2827]	017	QPRSYYSYTATQMVQKT
F140	[2829,2842]	014	IERERERGRKRLAS
F141	[2844,2869]	026	SVMLVSREEELAAKQDKAAGGKYLPSC
F142	[2871,2901]	031	AWCGGGGGGVGSASRSAGKRSGQPREGRRGG
F143	[2903,2907]	005	GIKGS
F144	[2909,2917]	009	GRERGRKYVR
F145	[2919,2920]	002	CS
F146	[2922,2935]	014	QQQLLLLLQWWPDL

Histogramas:

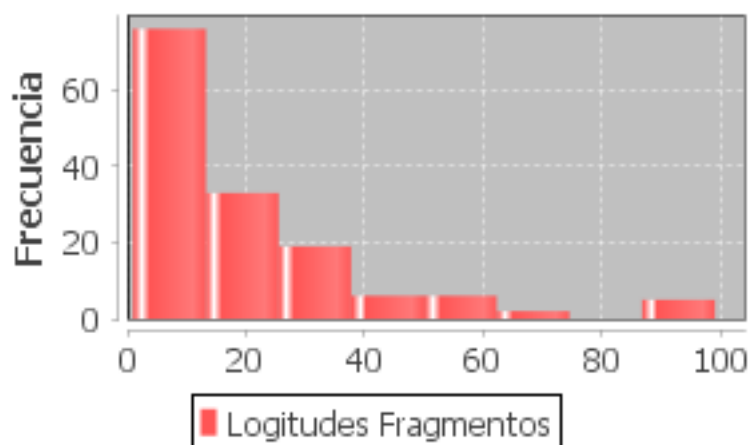
Histograma ML 1



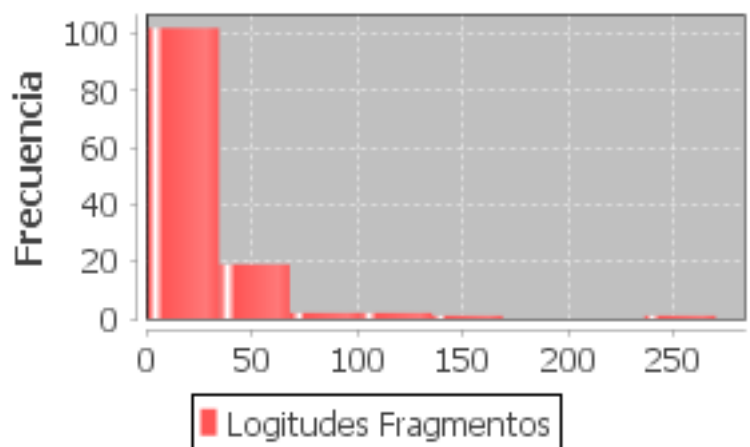
Histograma ML 2



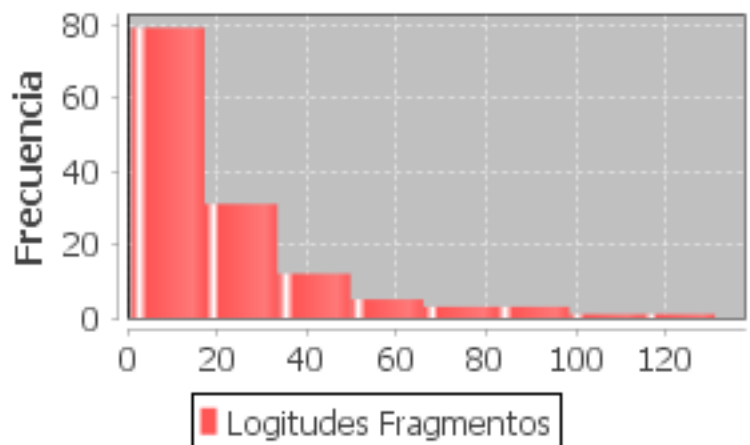
Histograma ML 3



Histograma ML -1



Histograma ML -2



Histograma ML -3

