

Supplementary Materials: Comparative Proteomic and Physiological Analysis Reveals the Variation Mechanisms of Leaf Coloration and Carbon Fixation in a Xantha Mutant of *Ginkgo biloba* L.

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Table S1. Peptide sequences of the proteins identified by MASCOT. Matched peptides are shown in red.

Spot 0561 (A4-1.mht)				
MATAVSTVGA	ATRAPLNLNG	SSAGASVPTS	GFLGSSLKKH	TNVRFPSSSR
TTSMTVKAAE	NEEKNTDKWA	HLAKDFSDDQ	LDIRRGKGMV	DSLFAQAPADA
GTHVPIQSSF	EYESQGLRKY	DIDNMLGDLY	IAPAFMDKL	VHITKNFLNL
PNIKIPLILG	VWGGKGQGKS	FQCELVFAKL	GINPIMMSAG	ELESGNAGEP
AKLIRQRYRE	AADLIAKGKM	CALFINDLEP	GAGRMGGTTQ	YTVNNQMVNA
TLLNIADNPT	NVQLPGMYNK	QDNARVPIIV	TGNDFSTLYA	PLIRDGRMEK
FYWAPTREDR	IGVCTGIFKT	DKVPAEHVVK	LVDAPFGQSI	DFFGALRARV
YDDEVKRWVN	SVGVDNVGKK	LVNSKDGPPV	FEQPEMTLQK	LMEYGNMLVQ
EQENVKRVQL	ADQYMSSAAL	GDANKDAIDR	GTFFGKAAQQ	VSLPVAQGCT
DPEAKNYDPT	ARSDDGSCTY	NL		
Spot 2132 (A9-1.mht)				
MAPQAYPTAG	QTTTVCVTGA	AGFMASWLVK	RLLEKGYIVH	ATVRDPENKA
KVSHLLNLPG	ATDRLKLFRA	ELCEDGSFDA	AVAGCNGVFH	VATPTEFMPK
DPENDLIKPA	IEGTNLVLKS	CTKVDSIKRV	VVTSSAATVS	INNSSEQNQY
IDESCWTDVN	FLTSQKPPGW	AYPVSKTLAE	QAALKYAEH	SLDVVTVIPV
LVVGPAVTPT	VPSSVELALS	LITGDEFKMG	ALKGMQFVSG	SISLVHIDDV
CSAQIFLMEK	PSAQGRYICF	PVNTGIPQLA	EFLSKRYPQY	KVPTKFDDVP
ATPKLTISSQ	KLLDCGFSFK	YGIEDIYDQA	IEYMKTKGLL	TC
Spot 7023 (A10-1.mht)				
YKVTKGMAEK	YGDLRVLDTP	IAENSFTGMG	VGAAMTGLRP	VIEGMNMGFL
LLAFNQISNN	CGMLHYTSGG	QFTIPVVIRG	PGGVGRQLGA	EHSQRLESYF
QSVPLQMVVA	CSTPYNAKGL	MKAAIRSENP	VILFEHVLLY	NLKEKIPDEE
YVCCLEEAEM	VRPGADVTL	TYSRMRYHVM	QAAKTLVNKG	YDPEIHIRS
LKPFDLHTIG	NSIKKTHRVL	IVEECMRTGG	IGASLRAAII	ENFWDYLDAP
IMCLSSQDVP	TPYAGTLEDW	TVVQPPQIVS	AVEQICQ	
Spot 0218 (A16-1.mht)				
METSITCYTR	GAFLPNISSS	HSMSFVSPSS	ISPSFNSKIL	KSSSLFGESL
RTVPKSSLKV	SKSKNALPVT	KCEIGESLEE	FLIKATPDKG	LRALLISMGE
ALRTIAFKVR	TASCGGTACV	NSFGDEQLAV	DMLANNLLFE	ALRYSHFCKY
ACSEEVPELQ	DMGGPVEGGF	SVAFDPLDGS	SIVDTNFTVG	TIFGVWPGDK
LTGVTGR DQV	AAAMGIYGPR	TTYVLALKDV	PGTHEFLLLD	EGKWQHVKET
TEIGEGKLFS	PGNLRATFDN	PEYNKLIDYY	VKEYTYLRYT	GGRVPDVNQI
IVKEKGIFTN	VLSPSAKAKL	RLLFEVAPLG	FLIEKAGGFS	SDGHQSVLEK
VLENLDDRTQ	VAYGSK NEII	RFEETLYGSS	RLKGAVPVGA	AA
Spot 0846 (A20-1.mht)				
MAGKGDGPAI	GIDLGTTYSC	VGWVQHDRV	IIANDQGNRT	TPSYVAFTDT
ERLIGDAAKN	QVAMNPINTV	FDAKRLIGRR	FSDASVQSDA	KLWPFKVIPIG
PGDKPMIGVQ	YRGEDKQFSA	EEISSMVLNK	MKETAEAYLG	TTIK NAVVTV
PAYFNDSQRQ	ATKDAGVISG	LNVMRIINEP	TAAAIAYGLD	KKSTSVGEKN
VLIFDLGGGT	FDVSLLTIEE	GIFEVKATAG	DTHLGGEDFD	NRMVNHVFQE
FKRKNNKKDIS	GNPRALRRRL	TACERAKRTL	SSTAQTITIEI	DSLFEIGIDFY
TTITR ARFEE	LNMDLFRKCM	EPVEKCLRDA	KMDKSTVHDV	VLVGGSTRIP

RVQQLQDFF	NGKELCKSIN	PDEAVAYGAA	VQAAILTGEG	NEKVQDLLLL
DVTPLSQGLE	TAGGVMTVLI	PRNTTIPTKK	EQVFSTYSDN	QPGVLIQVYE
GERARTKDNN	LLGKFELSGI	PPAPRGVPQI	TVCFDIDANG	ILNVAEDKT
TGQKNKITIT	NDKGRLSKED	IEKMQEAEK	YKAEDDEHKK	KVDAKNSLEN
YAYNMRNTIK	DDKIASKLPE	ADKKKIEDAI	DGAITWLDNN	QLAEAEDEFDD
KMKELEGICN	PIIAKMYQGA	GAEMPGGMDE	DTPASTAGGS	SGPGPKIEEV
D				
Spot 0322 (A23-1.mht)				
MASASVVKCM	SAPQYGIQRT	SMAGFSASSV	HGVKLGSMHA	ESARSHRVLM
TAMLPPKAKA	VEKVKTQFDP	RETHVQVTHS	MPPQKMEIFK	SLEEWAENNI
LVHLKPVERS	WQPQDFLPDP	ASEGFMDEVK	ELRNRAQEIP	DDYFVCLVGD
MITEEALPTY	QTMLNTLDGV	RDDTGASPTS	WAVWTRAUTA	EENRHGDLN
KYLYLSGRVD	MRQIEKTIQY	LIGSGMDPRT	ENSPYLGFBY	TSFQERATFI
SHGNTARHAK	DYGDLKLAQI	CGTIASDEKR	HETAYTKIVE	KLFEVDPDST
VLAFFEDMMRK	KISMPAHLMY	DGQDDNLFHH	FSAVAQRLGV	YTAKDYADIL
EFLVKRWVNE	KIEGLSSEGR	KAQEFVCKLA	PRIRRLEERA	QQRAKQGEII
PFSWIFNREV	SM			
Spot 2646 (C2-1.mht)				
MATAVSTVGA	ATRAPLNLNG	SSAGASVPTS	GFLGSSLKHH	TNVRFPSSSR
TTSMTVKAAE	NEEKNTDKWA	HLAKDFSDDQ	LDIRRGKGMV	DSLQAPADA
GTHVPIQSSF	EYESQGLRKY	DIDNMLGDLY	IAPAFMDKLV	VHITKNFLNL
PNIKIPLILG	VWGGKGQGKS	FQCELVFAKL	GINPIMMSAG	ELESGNAGEP
AKLIRQRYRE	AADLIAKGKM	CALFINDLEP	GAGRMGGTTQ	YTVNNQMVNA
TLLNIADNPT	NVQLPGMYNK	QDNARVPIIV	TGNDFSTLYA	PLIRDGRMEK
FYWAPTREDR	IGVCTGIFKT	DKVPAEHVVK	LVDAPFGQSI	DFFGALRARV
YDDEVKRWVN	SVGVDNVGKK	LVNSKDGPPV	FEQPEMTLQK	LMEYGNMLVQ
EQENVKRVQL	ADQYMSSAAL	GDANKDAIDR	GTFFGKAAQQ	VSLPVAQGCT
DPEAKNYDPT	ARSDDGSCTY	NL		
Spot 3841 (C5-1.mht)				
MASITASHHF	VSRQTSOLDT	KSTLSQIGLR	NHTLTHNGLR	AVNKLDGLQS
RTNTKVTPKM	ASRTETKRPG	CSATIVCGKG	MNLIFVGTEV	GPWSKTGGLG
DVLGGLPPAL	AARGHRVMTI	SPRYDQYKDA	WDTSVAVEVK	VGDSIEIVRF
FHCYKRGVDR	VFVDHPMFLE	KVWGKTGSKI	YGPKAGLDYL	DNELRFSLLC
QAALEAPKVL	NLNSSNYFSG	PYGEDVLFA	NDWHTALIPC	YLKSMYQSRG
IYLNKAVAF	IHNIAQQGRF	SFSDFPLLNL	PDEFGRSDFD	IDGYEKPVKG
RKINWMKAGI	LESHRVVTVS	PYYAQELVSA	VDKGVELDSV	LRKTCITGIV
NGMDTQEWNP	ATDKYTDVKY	DITTVMDAKP	LLKEALQAAV	GLPVDKKIPL
IGFIGRLEEQ	KGSIDLVAI	HKFIGLDVQI	VVLGTGKKEF	EQEIEQLEVL
YPGKVKGVAK	FNVPLAHMIT	AGADFMLVPS	RFEPGLIQL	HAMRYGTVP
CASTGGLVDT	VKEGYTGPHM	GAFNVECDVV	DPADVLIKIVT	TVARALAVYG
TLAFAEMIKN	CMSEELSWKE	PAKKWETLLL	GLGASGSEPG	VEGEEIAPLA
KENVATP				
Spot 2651 (C7-1.mht)				
MATAVSTVGA	ATRAPLNLNG	SSAGASVPTS	GFLGSSLKHH	TNVRFPSSSR
TTSMTVKAAE	NEEKNTDKWA	HLAKDFSDDQ	LDIRRGKGMV	DSLQAPADA
GTHVPIQSSF	EYESQGLRKY	DIDNMLGDLY	IAPAFMDKLV	VHITKNFLNL
PNIKIPLILG	VWGGKGQGKS	FQCELVFAKL	GINPIMMSAG	ELESGNAGEP

AKLIRQRYRE	AADLIAKGKM	CALFINDLEP	GAGRMGGTTQ	YTVNNQMVNA
TLLNIADNPT	NVQLPGMYNK	QDNARVPPIV	TGNDFSTLYA	PLIRDGRMEK
FYWAPTREDR	IGVCTGIFKT	DKVPAEHVVK	LVDAFPGQSI	DFFGALRARV
YDDEVKRWVN	SVGVDNVGKK	LVNSKDGPV	FEQPEMTLQK	LMEYGNMLVQ
EQENVKRVQL	ADQYMSSAAL	GDANKDAIDR	GTFFGKAAQQ	VSLPVAQGCT
DPEAKNYDPT	ARSDDGSCTY	NL		
Spot 2130 (C15-1.mht)				
MAKEGTKVPR	IKLGSQGLEV	SAQGLGCMGM	SAFYGPPKPE	PDMIQLIHHA
INSGITLLDT	SDVYGPHNT	ILLGKALKGG	TRERVVLATK	FGIVLGDEKK
AEGKRAVHGD	PAYVRAACEA	SLK RLDIDCI	DLYYQHRVDT	RVPIEITVGE
LKKLVEEGKL	KYIGLSEASA	STIRRAHAVH	PITAVQLEWS	LWSRDVEEEI
IPTCR ELGIG	IVAYSPLGRG	FLSSGPKLLE	DMSNEDYRKY	LPRFQAENLE
NNKNLYERIC	EMAVRKGCTP	SQLALAWVHH	QGNDVCPPIG	TTKIENLNQN
MKPCPSS				
Spot 1327 (C17-1.mht)				
MLRLQRILRQ	AKPASRVLAL	NLSRQYAKDV	KFGADARALM	LQGVDLLADA
VAVTMGPKGR	TVIEQSWGS	PKVTKDGVTV	AKAIELKDKY	KNIGAKLVQD
VANNTNEEAG	DGTTTATVLA	RSIAKEGFKE	ISKGANPIEI	RRGVMMLAVDA
VIAELKKQSK	PVTTPEEIAQ	VATISANGDQ	EIGKIISDAM	KKVGRKGVIT
VKDGTKLHDE	LEIEGMKFD	RGYISPYFIN	TAKGQKCEFQ	DAYLLLSEKK
ISNVQPIVPA	LEIANAHRKP	LVIIAEDVDG	EALSTLVNLR	LKVGLQVVAV
KAPGFGDNRK	NQLKDMAVSS	GGVVFGEGL	TLNLEDIQPH	DFGKVGEVIV
TKDDTMLLKG	KGDKALIEKR	IQEIHDQLET	TNSEYEKEKL	NERLAKLSDG
VAVLKVGGS	DVEVNEKKDR	VTDALNATRA	AVEEGIVLGG	GCALLRCIPA
LDSINPVNED	QKIGKLLC			
Spot 0740 (C18-1.mht)				
MTMITPSSNT	THYRESWYAC	RYRSGIPGST	HASVASRRVL	SSLRSSSSGR
SAAKLGNRNP	RLPSPSPARH	AAPCSYLLGR	VAEYATSSPA	SSAAPSSAPA
KDEGKKTIDY	GGKGAIGRVC	QVIGAIVDVR	FEDQEGLPPI	MTSLEVQDHP
TRLVLEVSHH	LGQNVVRTIA	MDGTEGLVRG	RKVLNTGAPI	TVPVGRATLG
RIMNVLGEP	DERGEIKTEH	YLPPIHRDAPA	LVDLATGQEI	LATGIK VVDL
LAPYQRGGKI	GLFGGAGVGK	TVLIMELINN	VAK AHGGFSV	FAGVGERTRE
GNDLYREMIE	SGVIKLGEKQ	SESKCALVYG	QMNEPPGARA	RVGLTGLTVA
EYFRDAEQD	VLLFIDNIFR	FTQANSEVSA	LLGRIPSAVG	YQPTLASDLG
ALQERITTTK	KGSITSVQAI	YVPADDLTDP	APATTFAHLD	ATTVLSR QIS
ELGIYPAVDP	LDSTSRMLSP	HILGEEHYNT	ARGVQKVLQN	YKNLQDIIAI
LGMDELSEDD	KLTVARARKI	QRFLSQPFHV	AEIFTGAPGK	YVDLKENINS
FQGLLDGKYD	DLSEQSFYMV	GGIDEVVAKA	EKIAKESAA	
Spot 2649 (C20-1.mht)				
MRTNPLVLGV	SALVEKNVGR	IAQIIGPVLD	VSFPPGNMPN	IYNSLIVKGQ
GTAGQEIQVT	CEVQQLLGNH	KVRVAMSAT	DGLTRGMR VI	DTGAPLSVPV
GGATLGRIFN	VLGEPVDNLG	PVDARITSPI	HRSAFAFTL	DTKLSIFETG
IKVVDLLAPY	RRGGKIGLFG	GAGVGKTVLI	MELINNIAKA	HGGVSVFGGV
GERTREGNDL	YMEMKESGVI	DEQNISESKV	ALVYGMNEP	PGARMRVGLT
ALTMAEYFRD	VNEQDVLSEI	DNIFR FVQAG	SEVSALLGRM	PSAVGYQPTL
ATEMGSQER	ITSTKRGST	SIQAVYVPAD	DLTDPAPATT	FAHLDTATTVP
SRGLAAKGIY	PAVDPLDSTS	TMLQPWIVGE	EHYETAQGVK	QTLQRYKELQ

DIIAIPGLDE	LSEEDRLIVA	RARKIERFLS	QPFFVAEVFT	GFPGBKVGLM
ETIRGFQMIL	SGELEQSFYL	VGNIDEATAK	AMNSKTES	
Spot 1051 (C22-1.mht)				
MGKSYPTVSE	EYKAAIEKCR	RKLRLIADK	NCAPIMVRLA	WHGAGTYDVK
TNTGGPFGTI	RYSAE LAHGA	N NGLI IAVRL	LEPIKAQFPI	ISYADLYQLA
GVVAVEITGG	PDISFHPGRK	DKLEHEAPEE	GRLPDATKGS	DHLRDVFGHM
GLSDKDIVAL	SGAHTLGRCH	KERSGFEGPW	TANPLIFDNS	YFTELVTGEK
EGLLQLPSDK	ALLIDPKFAV	YVHKYAQDED	AFFADYAESH	QKLSLGFAE
A				
Spot 3514 (D3-1.mht)				
MRTNPLVLGV	SALVEKNVGR	IAQIIGPVL	VSFPPGNMPN	IYNSLIVKGQ
GTAGQEIQVT	CEVQQLGNH	KVRVAMSAT	DGLTRGMRVI	DTGAPLSVPV
GGATLGRIFN	VLGEPVDNLG	PVDARITSPI	HRSAPAFTEL	DTKLSIFETG
IKVVDLLAPY	RRGGKIGLFG	GAGVGKTVLI	MELINNIKA	HGGVSVFGGV
GERTREGNDL	YMEMKESGVI	DEQNISESKV	ALVYGQMNEP	PGARMRVGLT
ALTMAEYFRD	VNEQDVLSFI	DNIFRFVQAG	SEVSALLGRM	PSAVGYQPTL
ATEMGSQER	ITSTKRSIT	SIQAVYVPAD	DLTDPAPATT	FAHLDTTVP
SRGLAAKGIY	PAVDPLDSTS	TMLQPWIVGE	EHYETAQGVK	QTLQRYKELQ
DIIAIPGLDE	LSEEDRLIVA	RARKIERFLS	QPFFVAEVFT	GFPGBKVGLM
ETIRGFQMIL	SGELEQSFYL	VGNIDEATAK	AMNSKTES	
Spot 2339 (D4-1.mht)				
MADAEDIQPL	VCDNGTGMVK	AGLAGDDAPR	AVFPSIVGRP	RHTGVMVGMG
QKDAYVGDEA	QSKRGITLK	YPIEHGIVSN	WDDMEKIWHH	TFYNELRVAP
EEHPILLTEA	PLNPKANREK	MTQIMFETFT	LHVPAMYVAI	QAVLSLYASG
RTTGIVLDG	DGVSHTVPIY	EGYALPHAIL	RLDRAGRDLT	DSLMLKILTR
GYSVTTPAER	EIAADIKEKL	AYVRLDYEQE	LETAKSSSV	EKSYELPDGQ
VITIGAERFR	CPEVMFQPSL	IGMEAPGIHE	TTYNSIMKCD	VDIRKDLYGN
IVLSGGSTMF	PGIRRPMSKE	DHRAAPSSMK	IKVVAPPERK	YSVWIGGSIL
ASLSTFQQVW	ISRAEYEEG	PAIVHRKCF		
Spot 5144 (D9-1.mht)				
MATAVSTVGA	ATRAPLNNG	SSAGASVPTS	GFLGSSLKHH	TNVRFPSSSR
TTSMTVKAEE	NEEKNTDKWA	HLAKDFSDDQ	LDIRRGKGMV	DSLQAPADA
GTHVPIQSS	EYESQGLRKY	DIDNMLGDFY	IAPAFMDKLV	VHITKNFLNL
PNIKIPLILG	VWGGKGQGKS	FQCELVFAKL	GINPIMMSAG	ELESGNAGEP
AKLIRQRYRE	AADLIAKGKM	CALFINDLEP	GAGRMGGTTQ	YTVNNQMVNA
TLMNIADNPT	NVQLPGMYNK	QDNARVPIIV	TGNDFSTLYA	PLIRDGRMEK
FYWAPTREDR	IGVCTGIFKT	DKVPAEHVVK	LVD AFPGQSI	DFFGALRARV
YHDEVKRWVN	SVGVDNVGKK	LVNSKDGPPV	FEQPEMTLQK	LMEYGNMLVQ
EQENVKRVQL	ADQYMSSAAL	GDANKDAIDR	GTFFG	
Spot 0641 (D10-1.mht)				
MASTFTATSS	IGSMVAPNGH	KSDKKLISKL	SSSFGRRRQS	VCPRPRRSS
AIVCAAKELH	FNKDGTIRR	LQAGVNKLAD	LVGVTLGPKG	RNVVLESKYG
SPRIVNDGVT	VAREVELEDP	VENIGAKLVR	QAAAKTNDLA	GDGTTTSVVL
AQGFAEGVK	VVAAGANPVL	ITRGIEKTAK	ALVTELKKMS	KEVEDSELAD
VAAVSAGNND	EIGNMIAEAM	SKVGRKGVVT	LEEGK SAENN	LYVVEGMQFD
RGYISPYFVT	DSEKMSVEFD	NCKLLLVDKK	ITNARDLVGV	LEDAIRGGYP
ILIAEDIEQ	EALATLVVNK	LRGTLKIAAL	RAPGFGERKS	QYLDIAILT

GATVIREEVG	LSLDKAGKEV	LGNASKVVLT	KETSTIVGDG	STQDAVKKRV
TQIKNLIEQA	EQDYEKEKLN	ERIAKLSGGV	AVIQVGAQTE	TELKEKKLRV
EDALNATKAA	VEEGIVVGGG	CTLLRLASKV	DAIKATLDND	EEKVGADIVK
RALSYPKLKI	AKNAGVNGSV	VSEKVLSDND	VKFGYNAATG	KYEDLMAAGI
IDPTKVVRCC	LEHAASVAKT	FLMSDCVVVE	IKEPEPVPVG	NPMDNSGYGY
Spot 8221 (D13-1.mht)				
MGDAEEIQPL	VCDNGSGMVK	AGFAGDDAPR	AVFPSIVGRP	RHTGVMVGMG
QKDAYVGDEA	QSKRGILTLK	YPIDHGIVTN	WDDMEKIWHH	TFYNELRVAP
EEHPVLLTEA	PLNPKANREK	MTQIMFETFN	VPAMYVAIQA	VLSLYASGRT
TGIVLDSGDG	VTHTVPIYEG	YALPHAILRL	DLAGRDLTDA	LMKILTERGY
TFTTTAEREI	VRDMKEKLAY	VSLDFEQEME	TAKTSSSLEK	SYELPDGQVI
TIGAERFRCA	EVLFPQSLIG	MEAAGIHETT	YNSIMKCDVD	IRKDLYGNIIV
LSGGSTMFPG	IADRMSKEIT	SLAPSSMKIK	VVAPPERKYS	VWIGGSILAS
LSTFQQMWIS	KSEYEESGPS	IVHRKCF		
Spot 0223 (D18-1.mht)				
MATAVSTVGA	VNSVPLSLHG	SSSGAPPTS	AFFGSNLKKV	NPSLTHGRVQ
TGSFKVMAVD	LDETKQTKTD	RWQLHKDTS	DQQDIVRGKG	LVDPLFQAPM
GDGTHEAVLN	SYEISQGLR	DYGMENKMDG	FYIAPEFMDK	LVVHITKNYM
DLPNIKVPLI	LGIWGGKGQG	KTFQCELVFR	KMGINPIMMS	AGELESGNAG
EPAKLIRQRY	REAADIIAKG	KMCCLFINDL	DAGAGRMGGT	TQYTVNNQMV
NATLMNIADN	PTNVQLPGMY	NKQENARVPI	IVTGNDFSTL	YAPLIRDGRM
EKFYWAPTRS	DRIGVCTGIF	MTDNVAVQDI	VKLVDAPFGQ	SIDFFGALRA
RVYDDEVKRW	ISDIGVDKVG	KRLVNSAEGA	PTFEQPKMTL	EKLMDYGNML
VQEQUENVKRV	QLADKYLSEA	ALGDANVDAI	KTGKF	
Spot 3940 (D20-1.mht)				
MARALVQSTS	IPSSVAGERT	TKFNGSGGTK	RAVTMLCNAQ	SSSLTLRDFT
GLRGCNAIDT	LVRSGETLQS	KVAAATYVRR	PRGCRFVPKA	MFERFTEKAI
KVIMLAQEEA	RRLGHNFVGT	EQILLGLIGE	GTGIAAKVLK	SMGINLKDAR
VEVEKIIGRG	SGFVAVEIPF	TPRAKRVLEL	SLEEARQLGH	NYIGSEHLLL
GLLREGEVGA	ARVLENLGAD	PSNIRTQVIR	MVGESNEAVG	ASVGGGTSGQ
KMPTLEEYGT	NLTKLAEEGK	LDPVVGRQPQ	IERVTQILGR	RTKNNPCLIG
EPGVGKTAIA	EGLAQRIANG	DVPETIEGKK	VITLDMGLLV	AGTKYRGEFE
ERLKKLMEEI	KQSDIILFI	DEVHTLIGAG	AAEGAIDAAN	ILKPALARGE
LQCIGATTLD	EYRKHIEKDP	ALERRFQPVK	VPEPTVDETI	QILKGLRERY
EIHHLKRLTYD	EDLVAAAQLS	YQYISDRFLP	DKAIDLIDEA	GSRVRLRHAQ
LPEEAKELEK	ELRQITKEKN	EAVRGQDFEK	AGELRDREMD	LKAQITALID
KNKEVSKAES	EAADTGPLVT	EADIQHIVSS	WTGIPVEKVS	TDESDRLLKM
EETLHTRIIG	QDEAVKAISR	AIRRARVGLK	NPNRPIASFI	FSGPTGVGKS
ELAKALAAYY	FGSEEAMIRL	DMSEFMERHT	VSKLIGSPPG	YVGYTEGGQL
TEAVRRRPYT	VVLFDEIEKA	HPDVFNMMLQ	ILEDGRLTDS	KGRTVDFKNT
LLIMTSNVGS	SVIEKGGRR	GFDLDLDEKD	SSYNRIKSLV	TEELKQYFRP
EFLNRLDEMI	VFRQLTKLEV	KEIADIMLKE	VFERLKVKEI	ELQVTERFRD
RVVDEGYNPS	YGARPLRRAI	MRLLEDSEMAE	KMLANEIKEG	DSVIVDVS
GNVTVLNGSS	GTPSDPAPEP	IPV		
Spot 2627 (E3-1.mht)				
MATAVSTVGA	ATRAPLNLNG	SSAGASVPTS	GFLGSSLKKH	TNVRFPSSSR
TTSMTVKAAE	NEEKNTDKWA	HLAKDFSDDQ	LDIRRGKGMV	DSLFGAPADA

GTHVPIQSSF	EYESQGLRKY	DIDNMLGDLY	IAPAFMDKLV	VHITKNFLNL
PNIKIPLILG	VWGGKGQGKS	FQCELVFAKL	GINPIMMSAG	ELESGNAGEP
AKLIRQRYRE	AADLIAKGKM	CALFINDLEP	GAGRMGGTTQ	YTVNNQMVNA
TLLNIADNPT	NVQLPGMYNK	QDNARVPIIV	TGNDFSTLYA	PLIRDGRMEK
FYWAPTREDR	IGVCTGIFKT	DKVPAEHVVK	LVDAPFGQSI	DFFGALRARV
YDDEVKRWVN	SVGVDNVGKK	LVNSKDGPPV	FEQPEMTLQK	LMEYGNMLVQ
EQENVKRVQL	ADQYMSSAAL	GDANKDAIDR	GTFFGKAAQQ	VSLPVAQGCT
DPEAKNYDPT	ARSDDGSCTY	NL		
Spot 2848 (E7-1.mht)				
MASSTAQIHA	LGATQFATGR	SRTVFFGQRV	SCRTVPFGLK	LKKSRRGNAGG
TRLRIVAEKV	VGIDLGTNS	AVAVMEGGKP	TIVTNAEGQR	TTPSVVAYTK
NGDRLVGQIA	KRQAVVNPEN	TFFSVKRFIG	RKMSEVDEES	KQVSYNVIRD
ENGNVKLDCP	AIGKQFAAEE	ISAQVLRKLV	DDASKFLNDN	VSKAVVTVPA
YFNDSQRTAT	KDAGRIAGLE	VLRINEPTA	ASLAYGFERK	NNETILVFDL
GGGTFDVSVL	EVGDGVFEVL	STSGDTHLGG	DDFDKRVVDW	LASNFKKDEG
IDLLKDKQAL	QRLTETAeka	KMELSSLTQT	NISLPFITAT	ADGPKHIETT
LTRAKFEELC	SDLLDRLKTP	VQNSLRDAKL	SFSDIDEVIL	VGGSTRIPAV
QEVVKKLTGK	DPNVSVNPDE	VVALGAAVQA	GVLAGDVSDI	VLLDVTPLSL
GLETLGGVMT	KIIPRNTTLP	TSKSEVFSTA	ADGQTSVEIN	VLQGEREFVR
DCKSLGSFRL	DGIPPAPRGV	PQIEVKFDID	ANGILSVA AV	DKGTGKKQDI
TITGASTLPN	DEVDRMVKEA	ERFAQEDKEK	RDAIDTKNQA	YSVVYQTEKQ
LKDLGDKIPG	SVKEKVEAKL	GELKDAISGG	STQAMKDAMA	ALNQEVMQIG
QSLYNQPGAA	PGAGPAPGGS	AEPSESSSSS	GKGPDCGDVID	ADFTDSN
Spot 0642 (E11-1.mht)				
MAKIVAFDEE	SRRAIERGVN	ALADAVRVTL	GPRGRNVLIE	KKFGVPDIVS
DGITVAKAIE	LGDPLENTGA	RLIQEVA AKT	NDVAGDGTTT	AAVLAQAMIQ
EGLKNVAAGA	NPVALRRGID	KTVQYLVEKI	ESLAKPVEGS	AIEQVATVSA
GNDKEVGEMI	ALAMDKVTKD	GVITVEESKS	LTTELEVVEG	MQIDRGYISP
YFITDSERMT	VELDNARVLI	TDKKISAIQD	IVSVLEKVAR	SGQPLLIIE
DIDGEALATL	VVNKARGVLN	VAAIKAPGFG	ERRKAMLQDI	AILTGGQLIS
EEIGLNLETA	TVEMLGATK	VTINKDSTTI	VSGSGHQGEI	QQRVEQLRKQ
LAETDSEYDQ	EKLQERIAKL	AGGVAVIKVG	AATETELKSR	KLRIEDALNA
TKAAVDEGIV	PGGGTTLIHL	VKKVEQLAAT	FSIEEEKLGA	KIVARALEAP
LRQIANN SGV	EGSVIVEQVR	NSDSNIGYNA	LTGNFEDLIV	AGILDPKVVV
RSSLQNAGSI	AGMVITTEVL	VVEKPEPKPA	MPDMDGMGGM	GGMGGMGGMG
GMGGMGMM				
Spot 2133 (E19-1.mht)				
MFIESFKVES	PNVRYGAGEI	ESEYRYDTTE	LVHESHDGAS	KWVVRPKSVN
YHFKTNTTVP	KLGVM LVGWG	GNNGSTLMAG	VIANREGISW	ATKDKVQQAN
YFGSLTQAST	IRVGSYN GEE	IYAPFKSLLP	MVNPDDL VFG	GWDISSMNLA
DAMTRTKVLD	IDLQKQLRPY	MESIVPLPGI	YDPDFIAANQ	GSRANNVIKG
TKKEQMEQII	KDIREFKEKN	KVDKVVVLWT	ANTERYSNVS	VGLNDTMENL
LASVDKNEAE	ISPSTLYAIA	CVMEGV PFIN	GSPQNTFVPG	LIDLAIKNNC
LIGGDDFKSG	QTKMKSVLVD	FLVGAGIKPT	SIVSYNHLGN	NDGMNLSAPQ
TFRSKEISKS	NVVDDMVSSS	AILYKPGEHP	DRVVVIKYVP	YVGDSKRAMD
EYTSEIFMGG	KSTIVLHNTC	EDSLA APII	LDLVLLAELS	TRIQLKAEGE
DKFHSFHPVA	TILSYLTKAP	LVPPGTPVVN	ALAKQRAMLE	NIMRACVGLA

PENNMILEYK				
Spot 2134 (E22-1.mht)				
MPMVTIRPDE	ISSIIRKQIE	QYNQEVEVAN	IGTVLRVGDG	IARIHGLDEV
MAGELVEFVD	GTVGIAPNLE	SNDVGVVLMG	DGLMIQEGSS	VRATGKIAQI
PVSDAYLGRV	VNALAQPIDG	RGQISASESR	LISSAPGII	LRRSVYEPLQ
TGLIAIDSMI	PIGRGQRELI	IGDRQTGKTA	VATDTIINQK	GQDVICVYVA
IGQKASSVAQ	VVNTSQERGA	MEYTIVVAET	ADSPATLQYL	APYTGAALAE
YFMYQEHTP	IYDDPSKQA	RAYRQMSLLL	RRPPGREAYP	GDVFYLLHSRL
LERAACKLSSQ	LGEGSMTALP	IVETQAGDVS	AYIPTNVISI	TDGQIFLSAD
LFNAGIQPAI	DVGISVSRVG	SAAQIKAMKQ	VAGKLELELA	QFAELEAFAQ
FASDLKATQ	NQLARGQRLR	ELLKQSQSAP	LTVEEQIATI	YTGANGLYLDI
SEIVQVRKFL	VQLREYLLTN	KPQFGEIIRS	TRTFTEQAEA	LLKEAIKEHI
EIFLTSRTEE	NI			
Spot 3719 (E23-1.mht)				
MAGKGDGPAI	GIDLGTITYSC	VGVDQHDRVE	IIANDQGNRT	TPSYVAFTDT
ERLIGDAAKN	QVAMNPINTV	FDAKRLIGRR	FSDASVQSDA	KLWPFKVIPG
PGDKPMIGVQ	YRGEDKQFSA	EEISSMVLNK	MKETAEAYLG	TTIKNAVVTV
PAYFNDSSQRQ	ATKDAGVISG	LNVMRIINEP	TAAAIAYGLD	KKSTSVGEKN
VLIFDLGGGT	FDVSLLTIEE	GIFEVKATAG	DTHLGGEDFD	NRMVNHVFQE
FKRKNKKDIS	GNPRALRRLR	TACERAKRTL	SSTAQTITIEI	DSLFEIGIDFY
TTITRARFEE	LNMDLFRKCM	EPVEKCLRDA	KMDKSTVHDV	VLVGGSTRIP
RVQQLQDFF	NGKELCKSIN	PDEAVAYGAA	VQAAILTGEG	NEKVQDLLLL
DVTPLSQGLE	TAGGVMTVLI	PRNTTIPTKK	EQVFSTYSDN	QPGVLIQVYE
GERARTKDNN	LLGKFELSGI	PPAPRGVPQI	TVCFDIDANG	ILNVSAEDKT
TGQKNKITIT	NDKGRLSKED	IEKMQVEAEK	YKAEDEEHKK	KVDAKNSLEN
YAYNMRNTIK	DDKIASKLPE	ADKKKIEDAI	DGAITWLDNN	QLAEADEFD
KMKELEGICN	PIIAKMYQGA	GAEMPGGMDE	DTPASTAGGS	SGPGPKIEEV
D				
Spot 1119 (E24-1.mht)				
MSADGDAKRS	VPLKDYRNIG	IMAHIDAGKT	TTTERILYYT	GRNYKIGEVH
EGTATMDWME	QEGERGITIT	SAATTTFWNK	HRINIIDTPG	HVDFTLEVER
ALRVLDGAIC	LFDSVAGVEP	QSETVWRQAD	KYGVPRICFV	NKMMDRLGANF
YRTRDMIVTN	LGAKPLVIQL	PIGSEDNFKG	VIDLVRNKAI	VWSGEELGAK
FDIVDIPEDL	QEQAQDYRAQ	MIENIVEFDD	QAMENYLEGI	EPDEETIKKL
IRKGTISASF	VPVMCGSAFK	NKGVQPLD	VVDYLPSPLD	LPAMKGSDE
NPEATIERLA	SDDEPFAGLA	FKIMSDPFVG	SLTFVRVYAG	KLGAAGSYVLN
ANKGKKERIG	RLLEMHANSR	DDVKVALAGD	IIALAGLKDT	ITGETLCDPD
NPIVLERMDF	PDPVIKVAIE	PKTKADVDM	ATGLIKLAQE	DPSFHFSDRE
EINQTVIEGM	GELHLEIIVD	RLKREKVEA	NVGAPQVNYR	ESISKISEVK
YVHKKQSGGQ	GQFADITVRF	EPMDPGSGYE	FKSEIKGAV	PREYIPGVMK
GLEECMSNGV	LAGFPVVDVR	AVLTDGSYHD	VDSSVLAFLQ	AARGAFREGI
RKAGPRMLEP	IMKVEVVTPE	EHLGDVIGDL	NSRRGQINSF	GDKPGGLKVV
DSLVPPLAEMF	QYVSTLRGMT	KGRASYTMQL	AMFDVVPQHI	QNQLATKEQE
VAA				
Spot 2522 (F1-1.mht)				
MSPQTETKAS	VGFKAGVKEY	KLTYTPEYQ	TKDTEILAAF	RVTPQPGVPP
EEAGAAVAAE	SSTGTWTTVV	TDGLTSLDRY	KGRCYRIERV	VGEKDQYIAY

VAYPLDLFEE	GSVTNMFTSI	VGNVFGFKAL	RALRLEDLRI	PPAYVK TFQG
PPHGIQVERD	KLNKYGRPLL	GCTIKPKLGL	SAKNYGRAVY	ECLRGGLDFT
KDDENVNSQP	FMRWRDRFLF	CAEAIYKAQT	ETGEIKGHYL	NATAGTCEEM
IKRAVFAREL	GVPIVMHDYL	TGGFTANTSL	AHYCRDNGLL	LHIHRAMHAV
IDRQKNHGIH	FRVLAKALRM	SGGDHIHSGT	VVGKLEGERD	ITLGFVDLLR
DDFVEQDRSR	GIYFTQDWVS	LPGVLPVASC	GIHVWHMPAL	TEIFGDDSVL
QFGGGTLGHP	WGNAPGAVAN	RLALEACVQA	RNEGRDLAQE	GNEIIREACK
WSPELAAACQ	VWKEIVFNFA	AVDVLDK		
Spot 6152 (F2-1.mht)				
MAAAVTAAVS	LPYSNSTSLP	IRTSIVAPER	LVFKKVSLLN	VSISGRVGTI
RAQVTTEAPA	KVVKHSKKQD	ENIVVNKFKP	KEPYVGRCLL	NTK ITGDDAP
GETWHMVST	EGEVPYREGQ	SIGIVPDGID	KNGKPHKLRL	YSIASSAIGD
FGDSKTVSLC	VKRLVYTND	GEVVKGVCSN	FLCDLKPGSE	VKITGPVGKE
MLMPKDPNAT	VIMLGTGTGI	APFRSFLWKM	FFEKHEDYQF	NGLAWLFLGV
PTSSSLYKE	EFEKMKEKAP	ENFRDLFAVS	REQVNDKGEK	MYIQTRMAQY
AEELWELLKK	DNTFVYMCGL	KGMEKGIDDI	MVSLAAKDGI	DWIEYKRTLK
KAEQWNVEVY				
Spot 6151 (F3-1.mht)				
MAAAVTAAVS	LPYSNSTSLP	IRTSIVAPER	LVFKKVSLLN	VSISGRVGTI
RAQVTTEAPA	KVVKHSKKQD	ENIVVNKFKP	KEPYVGRCLL	NTK ITGDDAP
GETWHMVST	EGEVPYREGQ	SIGIVPDGID	KNGKPHKLRL	YSIASSAIGD
FGDSKTVSLC	VKRLVYTND	GEVVKGVCSN	FLCDLKPGSE	VKITGPVGKE
MLMPKDPNAT	VIMLGTGTGI	APFRSFLWKM	FFEKHEDYQF	NGLAWLFLGV
PTSSSLYKE	EFEKMKEKAP	ENFRDLFAVS	REQVNDKGEK	MYIQTRMAQY
AEELWELLKK	DNTFVYMCGL	KGMEKGIDDI	MVSLAAKDGI	DWIEYKRTLK
KAEQWNVEVY				
Spot 2135 (F4-1.mht)				
PTTTPSTTHP	RRFTVRAARG	KFERKKPHVN	IGTIGHVDHG	KTTLTAALTM
ALASMGNSAP	KKYDEIDAAP	EER ARGITIN	TATVEYETEN	RHYAHVDCPG
HADYVKNMIT	GAAQMDGAIL	VVSGADGPMP	QTKEHILLAK	QVGVPNMVVF
LNKQDQVDDE	ELLELVELEV	RELLSSYEFP	GDEIPIISGS	ALLALEALMA
NPSIKRGENQ	WVDKIYQLMD	NVDEYIPIQ	RQTELPFLMA	IEDVFSITGR
GTVATGRVER	GTVKVGEIVD	IVGLKDTRNT	TVTGVEMFQK	ILDEAMAGDN
VGLLLRGIQK	IDIQRGMVLA	KPGTITPHTK	FEALVYVLKK	EEGGR HSPFF
AGYRPQFYMR	TTDVTGKVTV	IMSDKGEESK	MVMPGDRVNM	VVELIMPVAC
EQGMRFAIRE	GGKTVGAGVI	QKILE		
Spot 2047 (F5-1.mht)				
MSPKTETKAS	AGFKAGVKDY	RLTYTPEYP	TKDTDILAAF	RVTPQPGVPP
EEAGAAVAEE	SSTGTWTTVW	TDGLTSLDRY	KGRCYDIEPV	PGEENQYIVY
VAYPLDLFEE	GSVTNLFTSI	VGNVFGFKAL	RALRLEDLRI	PPAYSKTFQG
PPHGIQVERD	KLNKYGRPLL	GCTIKPKLGL	SAKNYGRAVY	ECLRGGLDFT
KDDENVNSQP	FMRWRDRFCF	CAEALFKAQA	ETGEIKGHYL	NATAGTCEEM
MKRAVFAREL	GVPIVMHDYL	TGGFTANTSL	AHYCRDNGLL	LHIHRAMHAV
IDRQKNHGMH	FRVLAKALRM	SGGDHIHAGT	VVGKLEGERE	VTLGFVDLLR
DDFIEKDRSR	GIYFTQDWVS	MPGVIPVASC	GIHVWHMPAL	TEIFGDDSVL
QFGGGTLGHP	WGNAPGAVAN	RVALEACVEA	RNEGRDLARE	GNEVIREASK
WSPELAAACE	VWKEIIFEFE	TIDTL		

Spot 1024 (F14-1.mht)				
SVGFKAGVKE	YKLTYTPEY	ETKDTXILAA	FRVTPQPGVP	PEEAGAAVAA
ESSTGTWTTV	WTDGLTSLDR	YKGRCYHIEP	VPGEEDKYIA	YVAYPLDLFE
EGSVTNMFTS	IVGNVFGFKA	LRALRLEDLR	IPPAYIKTFQ	GPPHGIQVER
DKLNKYGRPL	LGCTIKPKLG	LSAKNYGRAV	YECLRGGLDF	TKDDENVNSQ
PFMRWRDRFL	FCAEAIYKAQ	AETGEIKGHY	LNATAGTCEE	MIKRAVFARE
LGVPIVMHDY	LTGGFTANTS	LAHYCRDNGL	LLHIHRAMHA	VIDRQKNHGI
HFRVLAKALR	MSGGDHIHSG	TVVGKLEGER	DITLGFVDLL	RDDFIEKDRS
RGIYFTQDWV	SLPGVLPVAS	GGIHVWHMPA	LTEIFGDDSV	LQFGGGTLGH
PWGNAPGAVA	NRVALEACVQ	ARNEGRDLAA	EGNEIVREAS	KWSPELAAAC
EVWKEITFHF	KAVDTLD			
Spot 2042 (F21-1.mht)				
MSDEEHHFES	KADAGASKTF	PQQAGTIRKN	GYIVIKNRPC	KVMEVSTSKT
GXHGHAACHF	VGIDIFNGKK	LEDIVPSSHN	CDVPHVNRTD	YQLIDISEDG
FVSLLTETGN	TKDDLRLPTD	ENLLSQIKDG	FAEGKDLVVS	VMSAMGEERI
CSLKDIGPKN				
Spot 3026 (G1-1.mht)				
MAMASTFSLT	NTTITPFLSP	TSPPKISSFR	FSNSRSLPLP	TLSTASSSPT
TISHAPNDYK	DAPIELRYPA	FPSVLDINQI	RNILPHRFPF	LLVDRVIEYN
PGVSAVAIKN	VTINDNFFPG	HPPERPIMPG	VLMVEAMAQV	GGLVMLQPEV
GGARENFFFA	GIDKVRFRKP	VIAGDTLVMR	MTLIKQKRF	GIKMEGKAY
VGGEVVCEGE	FLMATGSGGE			
Spot 2137 (G7-1.mht)				
MALTTKPHHL	QRSFLSPSRV	SGERYLESAP	SCLRFRRSGV	QCSVVAKECR
VKGVKARQII	DSRGNPTVEV	DLITDDLYRS	AVPSGASTGI	YEALELRDGD
KSVYGGKGV	QAIKNINELV	APKLIGVDVR	NQADVDAFML	ELDGTNPKSK
LGANAILGVS	LSVCRAAGGA	KGVPYKHIQ	ETSGTKELVM	PVPAFNVING
GSHAGNSLAM	QEFMILPVGA	TSFSEAFQMG	SEVYHTLKGI	IKTKYQDAC
NVGDEGGFAP	NVQDNREGLV	LLIDAIEKAG	YTGKIKIGMD	VAASEFFMKD
GRYDLNFKKQ	PNDGAHVLSA	ESLADLYREF	IKDFPIVSIE	DPFDQDDWSS
WASLQSSVDI	QLVGDDLLVT	NPKRIAEAIK	KQSCNALLLK	VNQIGTVTES
IQAALDSKAA	GWGVMVSHRS	GETEDNFIAD	LSVGLASGQI	KTGAPCRSER
LSKYNQLLRI	EEELGNVRYA	GEAFRSP		
Spot 9708 (G8-1.mht)				
MYKLSSIQCV	APFTISLCTL	SFSSSSLRFS	VRATSSRAMA	SHIVGYPRMG
PKRELKFALE	SFWDGKSSAD	DLQKVAADLR	SAIWKQMADA	GIKYIPSNFT
SYDQVLDTT	AMLGAVPSRY	NWNGGEIGFD	VYFSMARGNS	SVPAMEMTKW
FDTNYHYIVP	ELGPDVKFSY	ASHKVVDYK	EAKVLGINTV	PVLVGPVSYL
LLSKPAKGVE	KSFSLSLID	KILPVYREV	AELKAAGATW	IQFDEPTLVK
DLNAHQLQAF	THAYAELESS	LSGLNVLIT	YFADVPAEAY	KTLSLTKAVT
AYGFDIVRGT	KTLDLIKQGF	PSGKFLFAGV	VDGRNIWANN	FASSLNTLQA
LGDIVGNDKV	VVSTSCSLH	TAVDLVNETK	LDQEIWSLA	FAAQKVVEVN
ALAKALSGQK	DEVFFSANAA	ALASRKSSPR	VINEAVQKAA	AALKGSDHRR
ATNVSARLDA	QQKKNLSVL	PTTTIGSFQ	TADLRRVRRE	FKANKISEED
YIRFIKEEY	NVVKLQEELD	IDVLVHGEPE	RNDMVEYFGE	QLSGFAFTAN
GWVQSYGSR	VKPPHYGDV	SRPKPMTVFW	SSTAQSLTKR	PMKGMLTGPV
TILNWSFVRD	DQPRFETCYQ	IALAIKDEVE	DLEKAGITVI	QIDEAALREG

LPLRKSEEF	YLNWAVHSFR	ITNCGVEDTT	QIHTHMCYSN	FNDIIHSIID
MDADVITIE	SRSDEKLLSV	FREGVKYAG	IGPGVYDIHS	PRIPPTEEIA
DRINKMLAVL	ESSILWVNP	CGLKTRKYTE	VKPALTNMVA	AAKLIRNQL
Spot 2628 (G13-1.mht)				
NYAAKDIKFG	VEARALMLKG	VEELADAVKV	TMGPKGRNVV	LEQSFGAPKV
TKDGVTVAKS	IEFRDKVKNI	GASLVKQVAN	ATNDAAGDGT	TCATVLTRAI
FTEGCKSVAA	GMNAMDLRRG	ISMAVDSVVT	NLKSARMIS	TSEEIAQVGT
ISANGEREIG	ELIAKAMEKV	GKEGVITIAD	GKTLYNELEV	VEGMKLDGRY
ISPYFITNPK	NQKCELEDPL	VLIHEKKISN	LNSIVKILEL	ALKKQRPLLI
VAEDVESEAL	ATLIINKLRA	GKVKCAIKAP	GFGENRKANL	QDLAILTGGE
VITEELGLNL	DKVGVETLGT	CKRVTISKDD	TVILDGAGDK	KAIEERCEQL
RSSIELSTSD	YDKEKLQERL	AKISGGVAVL	KIGGASEAEV	SEKKDRVTDA
LNATKAAVEE	GIVPGGGAAL	LYASKELDKL	ATANFDQKIG	VQIIQNALKM
PVSTIASNAG	VEGAVVVGKL	LEQDNPD LGY	DAAKGEYVDM	IKAGIIDPLK
VIRTUALVDAA	SVSSLMTTTE	AVVVELPKDE	KETPGMGGM	GGMDY
Spot 2216 (G15-1.mht)				
SVGFKAGVKE	YKLTYYTPEY	ETKDTXILAA	FRVTPQPGVP	PEEAGAAVAA
ESSTGTWTTV	WTDGLTSLDR	YKGRCYHIEP	VPGEEDKYIA	YVAYPLDLFE
EGSVTNMFTS	IVGNVFGFKA	LRALRLEDLR	IPPAYIKTFQ	GPPHGIQVER
DKLNKYGRPL	LGCTIKPKLG	LSAKNYGRAV	YECLRGGLDF	TKDDENVNSQ
PFMRWRDRFL	FCAEAIYKAQ	AETGEIKGHY	LNATAGTCEE	MIKRAVFARE
LGVPIVMHDY	LTGGFTANTS	LAHYCRDNGL	LLHIHRAMHA	VIDRQKNHGI
HFRVLAKALR	MSGGDHIHSG	TVVGKLEGER	DITLGFVDLL	RDDFIEKDRS
RGIYFTQDWV	SLPGVLPVAS	GGIHVWHMPA	LTEIFGDDSV	LQFGGGTLGH
PWGNAPGAVA	NRVALEACVQ	ARNEGRDLAA	EGNEIVREAS	KWSPELAAAC
EVWKEITFHF	KAVDTL			
Spot 0129 (G20-1.mht)				
MADAKSTIAK	DVTELIGNTP	LVYLN RVVDG	CVARVAAKLE	MMEPCSSVKD
RIGYSMISDA	ENKGLITPGE	SVLIEPTSGN	TGIGLAFIAA	AKGYRLICM
PASMSLERRT	ILRAFGAELV	LTDPARGMKG	AVQKAEEIKA	KTPNSYILQQ
FENPANPKIH	YETTGPFIWR	GSGGKIDALV	SGIGTG GTVT	GAGKYLKEQN
PNIKLYGVEP	VESAILSGGK	PGPHKIQGIG	AGFIPGVLDV	NLLDEVIQVS
SEESIETAKL	LALKEGLLVG	ISSGAAAAAA	IRIAKRPENA	GKLIVAVFPS
FGERYLSTVL	FESVKRETEN	MVFEP		
Spot 1227 (H6-1.mht)				
MKSKKCLAI	LILSTICMTG	CWDKIEINER	AFASVLGVDA	GKDIGKEKQL
KEISDSASFT	GSKFDKIKVT	YAFDPISKLG	PEKGGTAVDN	TMSVDAYSMQ
DSINEVINKS	SRTLSFGHLK	LIVLNTSILD	YSNTFKEVID	YLQRQPAISR
TIYIVFSEDK	SEEILKFKPN	MEKSIENYII	GILENNKKS	TSSPLTLNEF
LEKTSQNNNT	LMPVINIDKE	NKDLKISKVA	VIKNDKIKGY	ISTKQANSIQ
LINKRFKGGT	RTIIRDG SPL	DYSIENNERK	ISIRDKKLS	IDINLNLEGQ
IKGYNIDKQI	SSSERNIKEI	EGNLNKAITQ	DMKEVIRISQ	AEYNTDILDI
GEFIHKYHPK	LWKETKGNWN	ELYKTVDINV	SVDTKVRRIG	GK
Spot 2128 (H8-1.mht)				
MSSFINHHFY	PSVCTSKHAL	PINPTSPFYL	GIPNFRQKSR	FMHLTPRCFS
RQIDPLDKQK	KRSFSVKECA	ISLALAAALI	SGVPSLSWER	HAEALTSPVL
PDLAVLISGP	PIKDPEALLR	YALPIDNKAI	REVQKPLEDI	TESLRVLGLK

ALDSVERNLIK	QASRALKNGK	SLIAGLAES	KKDRGVELLD	KLEAGMGELQ
QIVENRNRREG	VAPKQRELLQ	YVGSVEEDMV	DGFPYEVPEE	YQTMPLLKGR
AVVEMKVKVK	DNPNDVNCVF	RIVLDGYNAP	VTAGNFLDLV	ERHFYDGMET
QRRDGFVVQT	GDPEGPAEGF	IDPSTEKPRT	IPLEIMVEGE	KVPVYGSTLE
ELGLYKAQTK	LPFNAFGTMA	MAREEFENNS	GSSQIFWLLK	ESELTPSNAN
ILDGRYAVFG	YVTDNQDYLA	DLKVGDVIES	VQAVSGVDNL	VNPTYKIAQ
Spot 2218 (I16-1.mht)				
MTQAKLRYAV	VTGANKGIGL	ETVNQLASNG	VKVVLARDE	DRGHEAIERL
KECGLSDFVX	HQLDVTDSAS	IVSLVEFVKT	QFGRDLILVN	NAGISGVNPY
ETEGSTINWK	ELAQTCEMAE	KCLTTNYYGA	KETTEAFPL	LQLSNSPRIV
NVSSQAGLLK	VLKEFIKDFK	EGSLKKKGWP	TFLSAYMVS	AAMNSYTRIL
AKKHQNF CIN	CVC PGFVKTD	INRNTGFLSV	DQGAASVVRN	AVVTGANKGI
GFGICKQLVS	NGITVVLAR	DEKRGLEAVE	KLKEFGVSDQ	VVFHQLDVT
PKSIESLANF	IKTQFGKLDI	LVNNAGIHGA	YVDRDALAAA	GSSEKVANVD
WRKISTENFE	AAEAGIRTNY	YGVKLMCEAL	IPLLELSGTP	RIVNVSSSMG
KLEKIPNAWA	RGALSDAESL	TEEKVDEVLN	QFLKDFKEGS	LETKGWPHAF
SAYIVSKAAL	TAYTRILAKK	YPSFCINAVC	PGFVKTDLNY	NTGYLSVDEG
AESVRLALL	PNGGPSGLFF	SRSEVAPF		
Spot 3024 (I19-1.mht)				
MASTTSLPTT	PSQLCSGKSG	IFSSSQALLV	KPVKRQMMGK	SKGLRIACQA
TSISADRVDP	MGKRQLMNLL	LLGAISLPTA	GMLIPYTYFF	VPPGSGSSAG
GTVAKDAVGN	DVIAENWLKA	HGPGDRTLQ	GLKGGPTYLA	VEKDRTLATF
AINAVCTHLG	CVVPWNQAEN	KFICPCHGSR	YNDQGRVVVRG	PAPLSLALAH
CDIDDGKVVFF	VPWVETDFRT	GDAPWWA		
Spot 1052 (I21-1.mht)				
MASTQCFLHH	QYAITTPTRT	LSQRQVVTTK	PNHIVCKAQK	QDDVVDAVVS
RRLALSVLIG	AAAVGSKVSP	ADAAYGEAAN	VFGKAKTNTD	YLPYNGDGFK
LLVPAKWNP	KEREPGQVL	RYEDNFDATS	NVSVLVQTTD	KKSIDYGS
EEFLSKVDYL	LGKQAFGQT	DSEGGFDTNA	VAVANILESS	APVIGGKQYY
NISVLTRTAD	GDEGGKHQLI	TATVKDGKLY	ICKAQAGDKR	WFKGARKFVE
DTASSFSVA				
Spot 0137 (I24-1.mht)				
MAGSSSLSTL	SLCTQSPSPS	PVASGRLVAP	AVLGFAGAPR	FPTLRAAPRR
LTARAVAGDA	EDEXGKEPAA	DQGGAAAABA	EAPADVPTVS	EVAELKAKLK
EALYGTERRGL	RASSETRAEV	VELITQLEAR	NPTAPTEAL	TLLNGKWILA
YTSFSQLFPL	LGSGSLPQLV	KVEEISQTID	SENFTVQNCI	KFSGPLATTS
VSTNAKFEVR	SPKRVQIKFD	EGIIIGTPQLT	DSIVLPEKFE	LFGQNIDLTP
LKGIFSSIEN	AASSVARTIS	GQPPLKIPIR	TDNAESWLLT	TYLDELRLIS
RGDGSSIFVL	FKEGSTLLY			
Spot 0021 (J14-1.mht)				
MAASVSTVGA	VNRAILNLNG	SGAGASAPTS	AFFGTSLKKA	VASRVPNKSV
TNGSFKIVAA	EKEIEESQQT	NKDRWKGLAY	DISDDQQDIT	RGKGMVDPLF
QAPMDAGTHY	AVMSSYEYLS	TGLRQLDNIK	DGFYIAPAFL	DKLVVHITKN
FMTLPNIKVP	LILGIWGGKG	QGKSQFQCELV	FAKMGINPIM	MSAGELESGN
AGEPAKLIRQ	RYREAADLIA	KGKMCALFIN	DLDAGAGRLG	GTTQYTVNNQ
MVNATLMNIA	DNPTNVQLPG	MYNKEENARV	PIIVTGNDFFS	TLYAPLIRDG
RMEKFWYAPT	RDDRVRGVCKG	IFRTDGVPEE	DITKLVDTFP	GQSIDFFGAL

RARVYDDEV	KWISGVGVDA	TGKKLVNSKE	GPPTFDQPKM	SLDKLLQYGN
MLVQEQENVK	RVQLADKYL	EAALGNANED	AIKSGSFFK	
Spot 4015 (J16-1.mht)				
MACSATSTSF	ISSIAAAKSM	ATPLSKTLTL	PNSFSGTRKS	IQSPVLRIS
LTRGSHSAKS	FVVKASSELP	LVGNVAPDFE	AEAVFDQEFI	KVKLSEYIGN
KYVVLFFYPL	DFTFVCPTEI	TAFSDRYEEF	KQINTEVLGV	SVDSVFSHLA
WVQTDKRSKG	LGDLKYPLIS	DVTKSISKSY	GVLPDQGV	LRGLFIIDKE
GVIQHSTINN	LAIGRSVDET	KRTLQALQYV	QENPDEVCPA	GWKPGDKSMK
PDPRQSKDYF	AAL			
Spot 1028 (J21-1.mht)				
MAPIAVGDTI	PEGTLYSFDE	NDQLQQVSVH	SLAAGKKVII	FGVPGAFTPT
CSLKHVPGYV	EKAEEELKSKG	VAEVICISVN	DPFVMKAWAK	TFPENKHVKF
LADGSATYTH	ALGLELNLSD	KGLGVRSRRF	AILVEDLKVK	AANIESRGEF
TCSNADDVLK	AL			
Spot 4115 (K1-1.mht)				
STLLSDEVLL	NLTDATGKDR	IIAEYIWIGG	SGMDIRSKAR	TLPGPVTDP
KLPKWNYDGS	STGQAAGEDS	EVILYPQAIF	KDPFRKGNNI	LVMCDAYTPA
GDPIPTNKRH	NAAKIFSHPD	VAKEEPWYGI	EQEYTLMQKD	VNWPIGWVPG
GYPGPQGPYY	CGVGADKAIG	RDIVDAHAKA	CLYAGIGISG	INGEVMPPGW
EFQVGPVEGI	SSGDQVWVAR	YLLERITEIS	GVIVSFDPKP	VPGDWNGAGA
HCNYSTKTMR	NDGGLEVIKK	AIGKLQLKHK	EHIAAYGEGN	ERRLTGKHET
ADINTFSWGV	ANRGASVRVG	RDTEKEGKGY	FEDRRPASNM	DPYVVTSMIA
ETTLIGEPTL	EAEALAAQKL	SLNV		
Spot 1122 (K2-1.mht)				
MASTSSLTSL	QALLARAISH	HVSTQSSDRL	SLSTPSLPAF	SGLKSTSSSI
PRATSSRRSR	RNSSIPTARR	LQTPTRAAAV	ETLDVTTDTS	LVEKSVNTIR
FLAIDAVEKA	NSGHPGLPMG	CAPMGHILYD	EIMKYNPKNP	YWFNRDRFVL
SAGHGCMQLQY	ALLHLAGYDS	VKEEDLKSFR	QWGSKTPGHP	ENFETPGVEV
TTGPLGQGIA	NAVGLALAEK	HLAARFNKPD	NEIVDHYTYA	ILGDGCQMEG
IANEACSLAG	HWGLGKLI	YDDNHISIDG	DTEIAFTESV	DKRFEALGWH
VIWVKNGNTG	YDEIRAAIKE	AKAVTDKPTM	IKVTTTIGYG	SPNKANSYSV
HGSALGAKEV	DATRKNLWGP	FEFPHVPEDV	KNHWSRHIPG	GAAFEAEWNA
KFAEYEEKYK	EEAAELKSII	KGELPAGWEK	ALPTYTPESP	ADATRNLQA
NLNALAKVLP	GLLGGSADLA	SSNMTLKMF	GDFQKDTPEE	RNVRFVREH
GMGAICNGIA	LHSPGLIPYC	ATFFVFTDYM	RAAMRISALS	EAGVIYVMT
DSIGLGEDGP	THQPIEHLAS	FRAMPNLMF	RPADGNETAG	AYRIAVLNRK
RPSVLALSQR	KLPQLPGTSI	EGVEKGGYTI	SDNSSGNKPD	VILIGTSEL
EIAAKAAEEL	RREGKAVRVV	SFVSWELFDE	QSDAYKESVL	PAAVTARVSI
EAGSTFGWQK	IVGGKGKAIG	IDRFGASAPA	GKIYKEYGIT	AEAVIAAAKE
LC				
Spot 6117 (K3-1.mht)				
MSINFVSIIA	KPKITITNTP	FLVSSPLLFF	SNKTKTKPSI	LTAFSSMSYD
KELAAAKKAA	SLAARLCQKV	QKAILQSDVQ	SKSDKSPVTV	ADYGSQALVS
YVLQRELPE	LFSLVAEEDS	EDLLKDGGE	TLERITKLVN	DILATDGSYS
DSTLSTEDIV	KAIDCGKSEG	GSRGRHWVLD	PIDGTKGFLR	GDQYAIALAL
LDEGTVVLGV	LACPNLPITS	IAGGGSHHSL	PGEVGCLFFS	VAGGGTYMHS
LDSSSAVKVQ	VSSIDNPEEA	SFFESYEAHA	SMHDLSSIA	KKLGVKAPPV

RIDSQAKYGA	LSR GDGV YL	RFPHKGYREK	IWDHAAGYIV	VAEAGGVVTD
AAGNPLDFSK	GR YLDLDT GI	IVTNQKL MP S	LL KAV RESIE	EKISSL
Spot 5019 (K4-1.mht)				
MAQASTAASL	LEWVKKDKRR	MLHV VYRVGD	LDRTIKFYTE	CLGMKLLRKR
DIPEERYANA	FLGYGPEDSH	FVIELTYNYG	VDSYDIGTGF	GHFGIALEDV
AKTVELIKAK	GGKVTREPGP	VK GGST VIAF	IEDPD GYKFE	LLER GPTPEP
LCQVMLRVGD	LDRSINFYEK	AFGM ELLRKR	DNPEYKYTIA	MMGYGPEDKN
AVLELTNYNG	VTEYDKGNAY	AQIAIGTDDV	YRTAEAVKLF	GGKVTREPGP
LPGISTKITA	CLDPDGW KTV	FVDN IDFLKE	LE	
Spot 6020 (K8-1.mht)				
MATKEGKAIG	IDLGTTYSCV	GVWQNDRVEI	IPNDQGN RTT	PSYVA FTDTE
RLIG DAAKNQ	VAMNPQNTVF	DAKRLIGRRF	SDSSVQNDMK	LWPFKVGGSF
CDKPMIVVNY	KGEEKKFSAE	EISSMLVKM	REVAEAFGLH	AVK NAV VTVP
AYFN DSQRQA	TKDAGAISGL	NVLRIINEPT	AAAIAYGLDK	KASRKGEQNV
LIFDLGGGTF	DVSILTIEEG	IFEVKATAGD	THLGGEDFDN	RMVNHVFSEF
KRKNKKDISG	NARALRRLRT	ACERAKRTLS	STAQTIEID	SLYEGIDFYA
TITR ARFEEM	NMDL FRKCME	PVEKCLRDAK	IDKSQVHEVV	LVGGSTRIPK
VHQLLQDFFN	GKELCKSINP	DEAVAYGAAV	QAAILSGQGD	EKVQDLLLLD
VTPLSLGLET	AGGVMTVLIP	RNTTIPTKKE	QIFSTYSDNQ	PGVLIQVFEG
ERART KDNN L	LGK FELTGIP	PAPR GVQVN	VCFDIDANGI	LNVSADKTA
GVKNKITITN	DKGRLSKEEI	EKMVKDAERY	KAEDEEVKKK	VEAK NS LENY
AYNM RNTIKD	EKIGGKSPD	EKQKIEKAVE	DAIQWLEGNG	MAEVDEFEDK
QKELEGICNP	IIAKMYQGAA	GPGGDVPMGA	DMPAAGAGPK	IEEVD
Spot 2116 (K10-1.mht)				
METFLFTSES	VNEGHPDKLC	DQVSDAILDA	CLEQDPESKV	ACETCTKTNM
VMVFGEITTK	ASVNYEKIVR	DTCKGIGFVS	PDVGLDADNC	KVLV NIEQQS
PDIA QGVHGH	MTK KPEEIGA	GDQGHMFGYA	TDETPELMPL	THVLATKLGA
RLTEVRKNKT	CPWLRPDGKT	QVTVEYKNDG	GAMIPRVHT	VLISTQHDET
VTNEQISKEL	KEHVIKPVIP	AKYLDDK TIF	HLNP SGRFVI	GGPH GDAGLT
GRK IIDTYG	GWGAHGGGAF	SGKDPKTVDR	SGAYIVRQAA	KSVVASGLAR
RCIVQVSYAI	GVPEPLSVFV	DTYQTGKIPD	KDILALIEK	FDFRPGMIAI
HLDLMRGGNF	RYQ KTA AYGH	FGRE DPDFTW	ETVKILKPNA	
Spot 1118 (K11-1.mht)				
MATLQLSDYC	NPVVALKPSL	KSFFIKTDHR	NCCGASRVRV	VPRACLQKPS
LTRRHLLAET	AAISVAPLIL	GIEPPAKSEE	PLLSEWERYV	LPIDPGVVLL
DIAFVPDDL	HGFLGTRQT	IMETKDGGNT	WVPR SIP SAE	DEDF NYRFNS
ISFKGKEGWI	VGKPSILLYT	SDAGESWERI	PLSAQLPGDI	VYIKATGEKS
AEMVTDEGAI	YVTSNRGYNW	RAAVQETVSA	TLNR TV SSGI	SGAS YTGTF
NTVN RSPDGS	YVAVSSRGNF	YLTWEPGQPY	WQPHNRAVAR	RIQNMGWR AD
GGLW LLVRGG	GLYLSKGTGI	SEDFEEIPVQ	SRFGILDVG	YR SKEE AWAA
GGSG VLLRTT	NGGKTWTRDK	AADNIAANLY	SVK FIDD TKG	FVLG NDGVLL
RFLG				
Spot 1025 (K14-1.mht)				
MGSSGIDWKL	PDHPKLPKGK	VIGLIVLDGW	GEANADQYNC	IHVAETPVMD
SLKKGAPERW	RLVRAHGTA	GLPTEDDMGN	SEVGHNALGA	GRIFAQGAKL
VDAALASGKI	FEGEGFKYVK	ESFETNTLHL	IGLMSDGGVH	SRLDQLLLLL
KGASEQGAKK	IRVHILTDGR	DVLGDSSVGF	AEILENDLAK	LREKGVDAQI

ASGGGRMYVT	MDRYENDWSV	VKRGWDAQVL	GEAPYKFKNA	VEAIKTLRAE
PNANDQYLPP	FVIVDDSGKP	VGPIVDGDAV	VTFNFRADRM	VMIAKALEYA
DFDKFDRVRV	PKIRYAGMLQ	YDGELKLPSH	YLVEPPEIDR	TSGEYLTYNG
VRTFACSETV	KFGHVTFFWN	GNRSGYFNDK	MEEYVEIPSD	SGITFNVQPK
MKAVEIAEKA	RDAILSGKFE	QVRVNLPNGD	MVGHTGDIEA	TIVACKAADE
AVKIILDAIE	KVGGIYVVTA	DHGNAEDMVK	RNKTGQPLLD	KSGNIQILTS
HTLQPVPIAI	GGPGLAPGVR	FRKDLP SGGL	ANVAATVMNL	HGFQAPSDYE
PSLIEVVDN				
Spot 4014 (K16-1.mht)				
MSSWNSPYD	TSSYGAGSGG	GGGGGRSSS	PPRGAGDKKE	TKTKDYQSYT
SNNNNNGSDD	DKDKNKHKIT	SSHKHKDDEK	DRNNHSKDSH	GGGNSSNYNK
DSYGGNSGNP	NNYYGSSTGV	VAGSGSYGG	GGGYGGGNTS	YGGSLSYGKD
GGYGGNSPY	GGGSSIIISG	AAPIPHNNFG	GGGTGWPVPP	PPQDGGSGAA
PVFIRAEVK	VIYHHTPPGH	GSSSSSYSPS	PKYESEGDRR	RSGGAGSGSG
SNSGGGGGGF	FGPAFHAVGG	YIDRKFGLDK	D	
Spot 5015 (K21-1.mht)				
ATKKAVAVLK	GTSNVEGVVT	LTQEDDGPTT	VNVRLTGLTE	GLHGFHLHEY
GDTTNGCIST	GAHFNPNKLT	HGAPEDDIRH	AGDLGNIIAN	ADGVAEATIV
DTQIPLSGPN	SVVGRALVVH	ELEDDLKGG	HELSLTTGNA	GGRLACG
Spot 0038 (K22-1.mht)				
MAIQSGVSSI	LTYSVPVHRT	PFCKSIKTSI	FANPKISLLY	SSTILDPKMR
PISRNERLTT	FASPEALTVE	DKTSEETEEPI	SDDIIEKVEV	AVKQVEKPRL
VLKFIWMEKN	IGLALDQVIP	GHGTIPLSPY	FFWPRKDAWE	ELKTTLESKP
WISQKMIIL	LNQATDIINL	WQSGGNLTT		
Spot 2129 (K24-1.mht)				
MASHAALAPS	RIPASTRLAS	KASQQYSFLT	QCSFKRLDVA	DFSGLRSSNS
VTFTREASFH	DVIAAQLTTK	PTGAAPVRGE	TVAKLKVAIN	GFGRIGRNFL
RCWHGRKDSP	LDVVVVND SG	GVKSATHLLK	YDSILGTFKA	DVKIIDNETF
SIDGKPIKVV	SNRDPLKLPW	AELGIDIVIE	GTGVFVDGPG	AGKHIQAGAK
KVIITAPAKG	SDIPTYVVG	NEKDYGHDVA	NIISNASCTT	NCLAPFVKVL
DEELGIVKGT	MTTHSYTGD	QRLLDASHRD	LRRARAAALN	IVPTSTGA AK
AVSLVLPQLK	GKLNIALRV	PTPNVSVVDL	VVNIEKVGVT	AEDVNNAFRK
AAAGPLKGV	DVCDIPLVSV	DFRCSDFSST	IDSSLTMVMG	GDMVKVVAWY
DNEWGYSQRV	VDLADLVANK	WPGLEGSVAS	GDPLEDFCKD	NPADEECKLY
E				
Spot 5032 (L1-1.mht)				
KAGVGFKAGV	KGYKVTTYTP	EYDPKDTDIL	AAFRVTPQPG	VPPEEAGAAV
AAESSTGTWT	TVWTDGLTNL	DRYKGRCYHI	EPVAGEENQF	IAYVAYPLDL
FEEGAVTNMF	TSIVGNVFGF	KALRALRLED	LRIPPAYVK	FQGPPHGIQV
ERDKLNKYGR	PLLGCTIKPK	LGLSAINPGR	AVYECLRGGL	DFTKDDENVN
SQPFMRWXDR	FLFCAEALYK	AQAETGEIKG	HYLNLTAGTC	EEMIKRAVFA
RELGVPIMH	DYLTGGFTAN	TSLSHYCRDN	GLLLHIHRAM	HAVIDRQKNH
GIHFRVLAKX	LRMSGGDHIH	SGTVVGKLEG	ERXITLGLVD	LLRDDYIEKD
RSRGIYFTQD	WVSLPGVLPV	ASGGIHVWHM	PALTEIFGDD	SVLQFGGGTL
GHPWENAPGA	VANRVALEAC	VQARNEGRDL	AAEGNEIIRE	ACKWSPELAA
ACEVWKEIKF	EFEAMDTL			
Spot 2045 (L3-1.mht)				

MGASTAQIHG	LGAPSFAAAS	MRKSNNVSSR	SVFFGQKLGN	SSAFPAAAF
NLRNSTRRN	SSVRPLRIVN	EKVVGIDLGT	TNSAVAAMEG	GKPTIVTNAE
GQRTTPSVVA	YTKNGDRLVG	QIAKRQAVVN	PENTFFSVKR	FIGRKMSEVD
EESKQVSYRV	VRDENGNVKL	ECPAIGKQFA	AAEISAQVLR	KLVD DASKFL
NDKVTKAVVT	VPAYFNDSQR	TATKDAGRIA	GLEVLRIINE	PTAASLAYGF
EKKSNETILV	FDLGGGTFDV	SVLEVGDGVF	EVLSTSGDTH	LGGDDFDKRI
VDWLAANFKR	DEGIDLLKDK	QALQRLTETA	EKAKMELSSL	TQANISLPFI
TATADGPKHI	ETTITRAKFE	ELCSDLLDRL	KTPVENSLRD	AKLSFKDIDE
VILVGGSTRI	PAVQELVKKM	TGKEPNVTVN	PDEVVALGAA	VQAGVLAGDV
SDIVLLDVSP	LSLGLETGG	VMTKIIPRNT	TLPTSKSEVF	STAADGQTSV
EINVLQGERE	FVRDNKSLGS	FRLDGIPPAP	RGVPQIEVKF	DIDANGILSV
TAIDKGTGKK	QDITITGAST	LPSDEVERMV	SEADKFAKED	KEKRDAIDTK
NQADSVVYQT	EKQLKELGDK	VPGPVKEKVE	SKLGELKEAI	SGGSTEAIKE
AMAALNQEVN	QLGQSLYNQP	GAGAAPGPGA	SSESGPSEST	GKGPEGDVID
ADFSDSK				
Spot 3023 (L4-1.mht)				
MSIFEYNGSA	IVAMVGKNCF	AIASDRRLGV	NLQTVATDFQ	RIYKIHDKVF
VGLSGLGTD	QTLYQRLVFR	HKLYQLREER	DMKPETFASL	VSAILYEKRF
GPYFCQPVIA	GLGDDDKPFI	CTMDFIGAKE	LAKDFV VAGS	ASESLYGACE
ALFKPDMEPE	ELFEVVSQAL	LASVDRDCLS	GWGGHIYIVT	PDEIREKILK
GRMD				
Spot 3056 (L5-1.mht)				
MASATAPTTL	SLLKTTASSS	STTRARASLL	PVSGLRPTTL	RRLGFAAADP
AFSHHVASKI	RSFGSGKASR	AVVSMAKKSV	GDLTAADLKG	KKVFVRADLN
VPLDDNQKIT	DDTRIRAAIP	TVKHLIQNGA	KVILSSH LGR	PKGVT PKFSL
APLVPR LSEL	LGIQVVKADD	CIGPEVEKLV	ASLPEGGVLL	LENVRFYKEE
EKNEPEFAKK	LASLADLYVN	DAFGTAHRAH	ASTEGVTKFL	KPSVAGFLLQ
KELDYL VGAV	SSPKRPFAAI	VGGSKVSSKI	GVIESLLEKC	DILLGGGMI
FTFYKAQGLS	VGSSLVEEDK	LDLATSLLAK	AKLKGV SLLL	PTDVVIADKF
APDANSK VVA	ASAIPDGWMG	LDVGPESVKT	FNEALET TKT	VIWNGPMGVF
EFDKFAVGTE	AIKKLAELS	GKGVTTIIGG	GDSVAAVEKV	GVAEVM SHIS
TGGGASLELL	EGKELPGVLA	LDEATPVAV		
Spot 0040 (L6-1.mht)				
GLDIAVRLLE	PIKEQFPILS	YADFYQLAGV	VAVEITGGPD	VPFHPGRPDK
KESPPEGRLP	DATKGN DHLR	AVFGHMG LSD	KDIVALSGAH	TLGRCHKERS
GFEGPWTTNP	LIFDNSYFKE	LLSGEKEGLI	QLPSDKALLE	DPVFRPLVEK
YAA				
Spot 4029 (L12-1.mht)				
MQNMSLIASL	SSTTSQ L TSL	PSLPSS T SPL	SRKFPLTFRE	KNRTPITPHK
LPFSARPTTT	RVVLVKSQAT	APASSEAVAV	TPVSSEMKAW	VYGEYGGVDV
LKLD SNVTVP	DVKEDQVLIK	VVAAALNPVD	AKRRQ GK FKA	TDSPLPTVPG
YDVAGVVVKV	GSQVKDFKVG	DEVYGDVNEK	ALEGPKQFGS	LAEYTA VEK
LLASKPKNLD	FAQAAALPLA	IETAYEGLER	TGFSPGKSIL	VLNGSGGVGS
LVIQLAKQVF	GASRVAATSS	TRNL DLLKSL	GADLAIDYTK	ENFEDLPEKF
DVVYDAIGQC	DRAVKAVKEG	GSVVALTGAV	TPPGFRFVVT	SNGAVLRKLN
PYLESKVKP	IVDPKGPF SF	DKLAEAFSYL	ETNRATGKVV	IHIP
Spot 3047 (L15-1.mht)				

KSAENNLVV	EGMQFDRGYI	SPYFVTDSEK	MSVEYENCKL	LLVDKKITNA
RDMITVLEDA	IRGGYPILII	AEDIEQEALA	TLVVN	
Spot 4026 (L20-1.mht)				
MAAIPHTNPS	ITTKPPSSPP	RPTFLARFTF	PITSTSHKRH	RLHISNVLS
SKPTITHSPL	PTESFISRYA	PDQPRKGADV	LVEALEREGV	TDVFAYPGGA
SMEIHQALTR	STTIRNVLP	HEQGGVFAAE	GYARASGLPG	VCIATSGPGA
TNLVSLGADA	LLDSVPMVAI	TGQVPRRMIG	TDAFQETPIV	EVTRSITKH
YLVLDVEDIP	RIVREAFYLA	SSGRPGPVL	DVPKDIQQQL	VVPKWDEPIR
LPGYLSRLPK	TENNGQLEHI	VRLVSEAKRP	VLYVGGGCLN	SGDELRRFVE
LTGIPVASTL	MGLGAYPASS	DLSLHMLGMH	GTVYANYAVD	KSDLLAFGV
RFDDRVTGKL	EAFASRAKIV	HIDIDSAEIG	KNKQPHVSIC	GDIKVALQGL
NKILEVKNSV	TNLDNFWNRK	ELDEQVKVYP	LSFKTFGEAI	PPQYAIQVLD
ELTGGNAIIS	TGVGQHQMWA	AQFYKYNKPR	QWLTSGGLGA	MGFGLPAAIG
AAVARPDVAV	VDIDGDSFI	MSVQELATIR	VENLPVKILL	LNNQHLGMVV
QLEDRFYKAN	RAHTYLGNSP	KESEIFPNML	KFAEACDIPA	ARVTRKADLR
AAIQKMLDTP	GPYLLDVIVP	HQEHVLPMP	AGGGFMDVIT	EGDGRMKY
Spot 2046 (M3-1.mht)				
MAAATSSIAP	SLSCPSRSS	SKTLWSSKAR	TLALPNIGFL	SSSSKSLRSL
TATVAGNGAT	GSSLAARMVS	SSAVKAPVSL	DFETSVFKKE	KVSLAGYEEY
IVRGGRLDFK	HLPDAFKGIK	QIGVIGWSQ	GPAQAQNLRD	SLVEAKSDIV
VKIGLRKGSR	SFEARAAGF	TEESGTLGDI	WETIAGSDLV	LLLISDAAQA
DNYEKIFSHM	KPNSILGLSH	GFLGLHLQSS	GLDFPKNISV	VAVCPKGMGP
SVRRLYVQGK	EINGAGINAS	FAVHQDVDGR	AADVRLGWSV	ALGSPFTFAT
TLEQEYRSDI	FGERGILLGA	VHGIVESLFR	RYTENGMSD	LAYKNTVECI
TGTISRTIST	QGMLAVYNSL	SEEGKKDFET	AYSASFYPC	EILYECYEDV
QSGSEIRSVV	LAGRRFYEKE	GLPAFPMGNI	DQTRMWKVGE	RVRKSRPAGD
LGPLYPFTAG	VYVALMMAQI	EILRKKGHSY	SEIINESVIE	SVDSLNPFMH
ARGVSEFMDN	CSTTARLGSR	KWAPRFDYIL	TQQALVAVDS	GAAINRDLIS
NFFSDPVHGA	IEVCAQLRPT	VDISVPADVD	FVRPELRQSS	N
Spot 5033 (M4-1.mht)				
MATAALLRSL	RRREFATSSI	SAYRTLASNT	KPSWCPSLVG	AKWAGLARPF
SSKPAGNEII	GIDLGTTNSC	VAVMEGKNPK	VIENSEGART	TPSVVAFNQK
GELLVGTPAK	RQAVTNPTNT	LSGTRKLRIG	RFDDPQTQKE	MKMVPYKIVR
GSNGDAWVEA	NGQQYSPTQI	GAFILTKMKE	TAEAYLGKSI	NKAVITVPAY
FNDARQRAIK	DAGAIAGLDV	QRIINEPTAA	ALSYGMNSKE	GLVAVFDLGG
GTFDVSILEI	SNGVFEVKAT	NGDTFLGGED	FDNALLEFLV	SEFKRTEGID
LSKDKLALQR	LREAAEKAKI	ELSSTSQTDI	NLPFITADAS	GAKHLNITLT
RSKFETLVNH	LIERTRNPCK	NCLKDAGVSL	KDDEVLLVG	GMTRVPKVQE
IVSEIFGKSP	SKGVNPDEAV	AMGAALQGGI	LRGDVKELL	LDVTPLARGI
ETLGGIFTRL	INRNTTIPTK	KSQVFSTAAD	NQTQVGKIVL	QGEREMASDN
KLLGEFDLVG	IPPAPKGYCP	QIEVIFDIDA	NGMVTVSADK	KATSKEQQIT
IRSSGGLSED	EIDKMVREAE	MHAQRIKNAR	HLLISGIVQS	TTIYSIEKSL
SEYKEKVPKE	VVTEIETAIS	DLRAAMGTEN	IDDIKAKLDA	ANKAVSKIGE
HMAGGSSGGA	SGGGGAQGGD	QPPEAEYEEV	KK	
Spot 0041 (M6-1.mht)				
MALLQNPFLV	QRLPSHTGIA	HARSKGGLSK	FRAAPSTVAL	FELKPPPYSF
DALEPHMSKR	TFEFHWGKHH	RAYVDNLNKQ	IEGTELEGYT	LGDVIKATYS

NGEPQPAFNN	AAQAWNHEFF	WECMSPGGGK	KPGGEILKLI	EKDFGSYDEF
LKEFKQAAAT	QFGSGAWLV	LKDKKLVVEK	SPNAINPLIW	GHTPLLIDV
WEHAYYLDYQ	NRRPDYISVF	MNELVSWDGV	NARLDRANA	
Spot 2048 (M8-1.mht)				
MAQILAPSTQ	WQMRMTKNPA	NASPFTTKMW	GSLFLKQKTK	GTAKFSTKFR
VCASKSESST	VNRLDDLNM	DIRPYTDKII	AEYVWIGGTG	IDLRKSRTI
SKPVEHPSEL	PKWNYDGSST	GQAPGEDSEV	ILYPQAIFKD	PFRGGNNILV
ICDSYTPAGE	PIPTNKRHRA	AEIFGNKKVI	DEVPWFGIEQ	EYTLLQPNVK
WPLGWPVGAY	PGPQGPYYCA	AGADKSFGRD	ISDAHYKACL	YAGINISGTN
GEVMPGQWEY	QVGPSVGIEA	GDHIWCSRYI	LERITEQAGV	VLTLDPKPIE
GDWNGAGCHT	NYSTKSMRED	GGYELIKKAI	LNLSLRHKEH	ISAYGEGNER
RLTGKHETAN	INTFSWGVAN	RGCSVRVGRD	TEKQKGKYLE	DRRPASNMDP
YIVTSLLAET	TILWEPTLEA	EALAAQKLAL	KV	
Spot 3939 (M10-1.mht)				
MARALVQSTS	IPSSVAGERT	TKFNGSGKTK	RAVTMLCNAQ	SSSLTLRDFT
GLRGCNAIDT	LVRSGETLQS	KVAAATYVRR	PRGCRFVPAK	MFERFTEKAI
KVIMLAQEEA	RRLGHNFGVT	EQILLGLIGE	GTGIAAKVLK	SMGINLKDAR
VEVEKIIGRG	SGFVAVEIPF	TPRAKRVLEL	SLEEARQLGH	NYIGSEHLLL
GLLREGEQVA	ARVLENLGAD	PSNIRTQVIR	MVGESNEAVG	ASVGGGTSQ
KMPTLEEYGT	NLTKLAEKGK	LDPVVGRRPQ	IERTVQILGR	RTKNNPCLIG
EPGVGKTAIA	EGLAQRIANG	DVPETIEGKK	VITLDMGLLV	AGTKYRGEFE
ERLKKLMEEI	KQSDEILFI	DEVHTLIGAG	AAEGAIDAAN	ILKPALARGE
LQCIGATTLD	EYRKHIEKDP	ALERRFQPVK	VPEPTVDETI	QILKGLRERY
EIHHLKRYTD	EDLVAAAQLS	YQYISDRFLP	DKAIDLIDEA	GSRVRLRHAQ
LPEEAKELEK	ELRQITKEKN	EAVRGQDFEK	AGELRDREMD	LKAQITALID
KNKEVSKAES	EAADTGPLVT	EADIQHIVSS	WTGIPVEKVS	TDESDRLKLM
EETLHTRIIG	QDEAVKAISR	AIRRARVGLK	NPNRPIASFI	FSGPTGVGKS
ELAKALAAAY	FGSEEAMIRL	DMSEFMERHT	VSKLIGSPPG	YVGYTEGGQL
TEAVRRRPYT	VVLFDIEIEKA	HPDVFNMMLQ	ILEDGRLTDS	KGRTVDFKNT
LLIMTSNVGS	SVIEKGGRRI	GFDLDELDEK	SSYNRIKSLV	TEELKQYFRP
EFLNRLDEMI	VFRQLTKLEV	KEIADIMLKE	VFERLKVKEI	ELQVTERFRD
RVVDEGYNPS	YGARPLRAI	MRLLEDMAE	KMLANEIKEG	DSVIVDVS
GNVTVLNGSS	GTPSDPAPEP	IPV		
Spot 1054 (M11-1.mht)				
QDPDSKVACE	TCTKTNMVMV	FGEITTKGNI	DYEKIVRDT	RNIGFVSDDV
GLDADNCKVL	VNIEQQSPDI	AQGVHGHLLTK	RPEEIGAGDQ	GHMFGYATDE
TPELMPLSHV	LATKLGARLT	EVKRDGTCPW	LRPDGKTQVT	IEYYNENGAM
VPIRVHTVLI	STQHDETVTN	DKIAADLKEH	VIRPVIPEKY	LDEKTIHFLN
PSGRFVIGGP	HGDAGLTGRK	IIDTYGGWG	AHGGGAFSGK	DPTKVDRSGA
YIVRQAASI	VASGLARRCI	VQVSYAIGVP	EPLSVFVDY	GTGKIPDKEI
LKIVKESFDF	RPGMIAIHLD	LKRGNGRFL	KTAAYGHFGR	DDADFTWEV
KPLKWEKPD				
Spot 2239 (M12-1.mht)				
MAGAAAAS	GISIRPVAAP	KISRAPRSRS	VVRAAVSIDE	KAYTVQKSEE
IFNAAKELMP	GGVNSPVRAF	KSVGGQPIVF	DSVKGSHMWD	VDGNEYIDYV
GSWGPAAIGH	ADDKVNAALI	ETLKKGTSG	APCALENVLA	QMVISAVPSI
EMVRFVNSGT	EACMGALRLV	RAFTGREKIL	KFEGCYHGA	DSFLVKAGSG

VATLGLPDSP	GVPKGATVGT	LTAPYNDADA	VKKLFEDNKG	EIAAVFLEPV
VGNAGFIPPQ	PAFLNALREV	TKQDGALLVF	DEVMTGFRLA	YGGAQEYFGI
TPDVTTLGKI	IGGGLPVGAY	GGRKDIMEMV	APAGPMYQAG	TLSGNPLAMT
AGIHTLKRLM	EPGTYEYLDK	VTGELVRGIL	DVGAKTGHEM	CGGHIRGMFG
FFFAGGPVHN	FDDAKKSDTA	KFGRFHRGML	GEGVYLAPSQ	FEAGFTSLAH
TTQDIEKTVE	AAEKVLRWI			
Spot 3055 (M15-1.mht)				
MAASSACLLG	NGLSVYTTKQ	RFQKLGLDRT	SKVTVVKASL	DEKKHEGRRG
FFKLLLGNA	AGVGLLASGN	ANADEQQQGV	SSSRMSYSRF	LEYLDKGRVE
KVDLYENGTI	AIVEAVSPEL	GNRIQVRVQ	LPGLSQELLQ	KLRAKNIDFA
AHNAQEDQGS	PILNLIGNLA	FPVILIGGLF	LLSRRSSGGM	GGPGGPGFPL
QIGQSKAKFQ	MEPNTGVTFD	DVAGVDEAKQ	DFMEVVEFLK	KPERFTAVGA
RIPKGVLLVG	PPGTGKTLLA	KAIAGEAGVP	FFSISGSEFV	EMFVGVGASR
VRDLFKKAKE	NAPCIVFVDE	IDAVGRQRGT	GIGGGNDERE	QTLNQLLTEM
DGFEGNTGVI	VVAATNRADI	LDSALLRPGR	FDRQVSVDVP	DVKGRTDILK
VHSGNKKFES	GVSLEVIAMR	TPGFSGADLA	NLLNEAAILA	GRRGKTAISS
KEIDDSIDRI	VAGMEGTVMT	DGKSKSLVAY	HEVGHAICGT	LTPGHDAVQK
VTLIPRGQAR	GLTWFISSDD	PTLISKQQLF	ARIVGGLGGR	AAEEVIFGES
EVTTGAVSDL	QQITGLAKQM	VTTFGMSEIG	PWSLMDSSEQ	SDVIMRMMAR
NSMSEKLAND	IDTAVKTLSD	KAYEIALSQI	RNNREAMDKI	VEILLEKETM
SGDEFRAILS	EF			
Spot 2240 (M16-1.mht)				
KYFNHFSKRK	CIITQSTLTK	KPNSDNFKNA	QSKAALAALL	FSSITPHAIA
LDDAAPIASP	PQVMEVEAPN	PNTSNPLPFS	QNLVLNAPKT	QASPVSDLPE
STQWRYSEFL	NAVKKGKVER	VRFSKDGSA	QLTAVDGRRA	NVIVPNDPDL
IDILAMNGVD	ISVSEGECCN	GLFSVIGNLL	FPFIAFAGLF	FLFRRSQGGP
GGPGGLGGPM	DFGRSKSKFQ	EVPETGVTF	DVAGADQAKL	ELQEVVDFLK
NPDKYTALGA	KIPKGCLLVG	PPGTGKTLLA	RAVAGEAGVP	FFSCAASEFV
ELFVGVGASR	VRHLFENAKS	KAPCIVFIDE	IDAVGRQRGA	GLGGGNDERE
QTINQLLTEM	DGFSGNSGVI	VLAATNRPDV	LDSALLRPGK	FDRQVTVDRP
DVAGRVRILQ	VHSRGKALAK	DVDFDKIARR	TPGFTGADLQ	NLMNEAAILA
ARRDLKEISK	DEISDALERI	IAGPEKKNV	VSDEKKKLVA	YHEAGHALVG
ALMPEYDPVA	KISIIPRGQA	GGLTFFAPSE	ERLESGLYSR	SYLENQMAVA
LGGRVAEEVI	FGEDNVTGA	SNDFMQVSRV	ARQMVERLGF	SKKIGQVAIG
GGGGNPFLGQ	QMSTQKDYSM	ATADVVDSEV	RELVEKAYER	AKQIITTHID
ILHKLAQLLI	EK			
Spot 4022 (M17-1.mht)				
MASMASIGSL	KVPSSPSTAT	TSSNSNNHSR	RSVVKRLAFS	SSQLSGDKIF
SKAVTGDRRS	ERRPIVVSQ	AVSDSKNSQT	CLDPEASRSV	LGIIILGGGAG
TRLYLPTKKR	AKPAVPLGAN	YRLIDIPVSN	CLNSNISKIY	VLTQFNASASL
NRHLSRAYAS	NMGGYKNEGF	VEVLAAQQSP	ENPNWFQGT	DAVRQYLWLF
EEHNVLEFLV	LAGDHLYRMD	YERFIQAHRE	TDADITVAAL	PMDEKRATAF
GLMKIDEAGR	IIEFSEKPKG	EQLKAMKVD	TILGLDDERA	KEMPYIASMG
IYVISKDVML	NLLRDKFPGA	NDFGSEVIPG	ATSIGMRVQA	YLYDGYWEDI
GTIEAFYNAN	LGITKKPIPD	FSFYDRSAPI	YTQPRYLPPS	KMLDADVTDS
VIGEGCVIKN	CKIHHSVVGL	RSCISEGAI	EDTLLMGADY	YETDADRRFL
AAKGSVPIGI	GKNSHIKRAI	IDKDARIGDN	VKIVNSDSVQ	EAARETDGYF

IKSGIVTIK	DALIPSGTII			
Spot 0039 (M20-1.mht)				
MAAEVPVRAP	AAAARSARSR	PAAAAAVVSA	SSASRLLLGY	RPFHAPRFAA
GRAAVAGPVA	GLRPRSRRPR	LSVVAMAGSD	RQVPLHDYRN	IGIMAHIDAG
KTTTTTERILY	YTGRNYKIGE	VHEGTATMDW	MEQEQRGIT	ITSAATTAFW
NKHRINIIDT	PGHVDFTLEV	ERALRVLDGA	ICLFDSVAGV	EPQSETVWRQ
ADKYGVPRIC	FVNKMDRLGA	NFFRTRDMIV	ANLGAKPLVI	QLPIGSEDNF
QGVIDLVRMK	AIVWTGEELG	AKFEYKDIPD	DLQELAQDYR	VQMLETHIEL
DDEVMENYLE	GTEPDEETVK	KLIRKGTISA	SFVPVLCGSA	FKNKGVQPLL
DAVVDYLPSP	LDLPSMKGTD	PEDPEIIFER	QPSDDEPFSG	LAFKIMTDPF
VGSLTFVRIY	SGKLVAGSYV	LNANKDKKER	IGRLLEMHAN	SKEDIPVAVT
GDIVALAGLK	DTITGETLCD	PDKPVVLERM	EFDPDVIKVA	IEPKTKADAD
KMANGLIKLA	QEDPSFHFSR	DEETNQTVIE	GMGELHLDII	VDRLKREFKV
EANVGAPQVN	YRESISKVAE	IQYVHKKQSG	GSGQFADIIV	RFEPLEAGSG
YEFKSEIKGG	AVPKEYVPGV	MKGLEESLPN	GVLAGYPVVD	FRAVLVDGSY
HDVDSSVLAF	QIAARGAFRE	GMRKAGPRLL	EPIMRVEVIT	PEEHLGDVIG
DLNSRRGQVN	SFGDKPGGLK	VVDAFVPLAE	MFQYVSTLRG	MTKGRASYTM
QLAKFDVVPQ	HIQNQLSTKT	EEATA		
Spot 3048 (M21-1.mht)				
MSLLSDLINL	NLSDTTEKVI	AEYIWIGGSG	LDLRSKARTL	PGPVKNPSEL
PKWNYDGSST	GQAPGQDSEV	IYPQAIFKD	PFRRGNNILV	ICDAYTPAGE
PIPTNKRHNA	AKIFSNPDVV	AEEPWYGIEQ	EYTLLQKEVN	WPVGWPVGGF
PGPQGPYYCG	VGADKAFRD	IVDAHAKACV	YAGINISGIN	GEVMPGQWEF
QVGPAVGISA	GDELWVARYI	LERITEVAGV	VLSFDPKPIK	GDWNGAGAHT
NYSTKTMRND	GGYEEIKSAI	QKLGRHKEH	IAAYGEGNER	RLTGRHETAD
INTFLWGVAN	RGASIRVGRD	TEKAGKGYFE	DRRPASNMDP	YVVTSMIADT
TILWKP				
Spot 4031 (N1-1.mht)				
MAASSACLLG	NGLSVYTTKQ	RFQKLGLDRT	SKVTVVKASL	DEKKHEGRRG
FFKLLLGNA	AGVGLLASGN	ANADEQQQGV	SSSRMSYSRF	LEYLDKGRVE
KVDLYENGTI	AIVEAVSPEL	GNRIQVRVRQ	LPGLSQELLQ	KLRAKNIDFA
AHNAQEDQGS	PILNLIGNLA	FPVILIGGLF	LLSRRSSGGM	GGPGGPGFPL
QIGQSKAKFQ	MEPNTGVTFD	DVAGVDEAKQ	DFMEVVEFLK	KPERFTAVGA
RIPKGVLLVG	PPGTGKTLLA	KAIAGEAGVP	FFSISGSEFV	EMFVGVGASR
VRDLFKKAKE	NAPCIVFVDE	IDAVGRQRGT	GIGGGNDERE	QTLNQLLTEM
DGFEGNTGVI	VVAATNRADI	LDSALLRPGR	FDRQVSVDVP	DVKGRTDILK
VHSGNKKFES	GVSLEVIAMR	TPGFSGADLA	NLLNEAAILA	GRRGKTAISS
KEIDDSIDRI	VAGMEGTVMT	DGKSKSLVAY	HEVGHAICGT	LTPGHDAVQK
VTLIPRGQAR	GLTWFISSDD	PTLISKQQLF	ARIVGGLGGR	AAEEVIFGES
EVTTGAVSDL	QQITGLAKQM	VTTFGMSEIG	PWSLMDSSEQ	SDVIMRMMAR
NSMSEKLAND	IDTAVKTLSD	KAYEIALSQI	RNNREAMDKI	VEILLEKETM
SGDEFRAILS	EFTEIPPENR	VASSTSTSTP	TPASV	
Spot 3049 (N4-1.mht)				
MATVTASSNF	VSRTSLFNNH	GASSCSDVAQ	ITLKGQSLTH	CGLRSFNMVD
NLQRRSQAKP	VSAKSSKRSS	KVKTAGKIVC	EKGMSVIFIG	AEVGPWSKTG
GLGDVLGGLP	PALAARGHRV	MTICPRYDQY	KDAWDTCVVV	QIKVGDKVEN
VRFFHCYKRG	VDRVFDHPI	FLAKVVGKTG	SKIYGPITGV	DYNDNQLRFS

LLCQAALEAP	QVLNLSKY	FSGPYGEDVV	FVANDWHTAL	LPCYLKSMYQ
SRGVYMNKAV	VFCIHNIAYQ	GRFAFDDYSL	LNLPISEKSS	FDFMDGYEKP
VKGRKINWMK	AAILEAHRVL	TVSPYYAQEL	ISGVDRGVEL	HKYLRMKTVS
GIINGMDVQE	WNPSTDYID	IKYDITTVTD	AKPLIKEALQ	AAVGLPVDRD
VPVIGFIGRL	EEQKGSILV	EAISKFMGLN	VQMVILGTGK	KKMEAQILEL
EEKFPGKAVG	VAKFNVPLAH	MITAGADFII	VPSRFEPCL	IQLHAMRYGT
VPIVASTGGL	VDTVKGDTG	FHIGRFNVKC	EVVDPDDVIA	TAKAVTRAVA
VYGTSAMQEM	VKNCMDQDFS	WKGPARLWEK	VLLSLNVAGS	EAGTEGEEIA
PLAKENVATP				
Spot 3050 (N6-1.mht)				
MASTAATAAL	SIKSTGGAA	VTRSSRASFG	HIPSTSVSAR	RLGFSAVVDS
RFSVHVASKV	HSVRGKGARG	VITMAKKSVC	DLNSVDLKGK	KVFVRADLNV
PLDDNQNTD	DTRIRAAIPT	IKFLIENGAK	VILSTHLGRP	KGVTPKFSLA
PLVPRLSELL	GIEVVKADDC	IGPEVETLVA	SLPEGGVLLL	ENVRFYKEEE
KNEPDFAKKL	ASLADLYVND	AFGTAHRAHA	STEGVTKFLK	PSVAGFLLQK
ELDYLVGAVS	NPKRPFAAIV	GGSKVSSKIG	VIESLLEKCD	ILLGGGMIF
TFYKAQGLSV	GSSLVEEDKL	ELATTLLAKA	KARGVSLLLP	TDVVIADKFA
PDANSKIVPA	SAIPDGWMGL	DIGPDSVKTF	NEALDTTQTV	IWNGPMGVFE
FEKFAKGTEA	VANKLAELSK	KGVTTIIGGG	DSVAAVEKVG	VAGVMISHIT
GGGASLELLE	GKVLPGVVAL	DEATPVTV		
Spot 3051 (N12-1.mht)				
MATITASHFV	SHVCGGATSG	ESKVGLGQLA	LRSQAVTHNG	LRPVNKIDML
QLRTSARNLA	KMEGKMRVEW	QAGTIVCKQQ	GMNLVFGVCE	EGPWCKTGGL
GDVLGGLPPA	LAARGHRVMT	VCPRYDQYKD	AWETCVVVEP	QVGDRIEPVR
FFHSYKRGVD	RVFVDHPMFL	EKVWGKTGSM	LYGPKAGKDY	KDNQLRFSL
CQAALEAPRV	LNLNSSKYFS	GPYGEDVVFV	ANDWHTALLP	CYLKTMYSQR
GIYMNKAVAF	CIHNIAYQGR	FAFSDFSLLN	LPDEYKGSFD	FIDGYDKPVK
GRKINWMKAG	IREADRVFTV	SPNYAKELVS	CVSKGVELDN	HIRDCGITGI
CNGMDTQEWN	PATDKYLAVK	YDITVMQAK	PLLKEALQAA	VGLPVDRNIP
LIGFIGRLEE	QKGSILYAA	ISKFISMDVQ	ILILGTGKKK	FEQQIEQLEV
MYPDKARGVA	KFNVPLAHMI	TAGADFMLIP	SRFEPCLIQ	LHAMRYGTTC
ICASTGGLVD	TVKEGYTGFH	MGAFNVDCE	VPEDVLKVI	TTVGRALAIY
GTLAFTEMIK	NCMSQELSWK	GPAKNWETVL	LSLGVAGSEP	GVEGEEIAPL
AKENVATP				
Spot 1048 (N13-1.mht)				
MGSTGEIKYG	AYTYENLERE	PYWPSEKLRI	SITGAGGFIA	SHIARRLKNE
GHYIIASDWK	KNEHMTEDMF	CHEFHLADLR	VMDNCLKVTK	NVDHVFNLAA
DMGGMGFIQS	NHSVIFYNNT	MISFNMVGAA	RINDVKRFFY	ASSACIYPEF
KQLETNVSLK	ESDARPAEPQ	DAYGLEKLAT	EELCKHYTKD	FGIECRIGRF
HNIYGPFGAW	KGGREKAPAA	FCRKTLTATD	KFEMWGDGLQ	TRSFTFIDEC
VEGVLRLTKS	DFREPVNIGS	DEMVS MNEMA	EIVLSFEDKK	LPIQHIPPGE
GVRGRNSDNT	LIKEKLGWAP	TMRLKDGLRI	TYFWIKEQIE	KEKAQGADLS
VYGSSKVVGT	QAPVQLGSLR	AADGKE		
Spot 5031 (N17-1.mht)				
MATIKAVKAR	QIFDSRGNPT	VEVDVILSDG	SFHRAAVPSC	ASTGVYEALE
LRDGGSDYLG	KGVLKAVENV	NSIAPALLG	KDPTKQTEID	NFMVQQLDGT
VNEWGWCKQK	LGANAILAVS	LAVCKAGAAV	KKIPLYKHIA	NLAGNKTLVL

PVPSFN Ving	GSHAGNKLAM	QEFMILPVGA	SSFKEAMKMG	VEVYHHLKAV
IKKKYGQDAT	NVGDEGGFAP	NIQENQEGLE	LLKTAIAKAG	YTGKVVIGMD
VAASEFYDNK	DKTYDLNFKE	ENNDGSQKIS	GDSLKNVYKS	YVTDYPIVSI
EDPFDQDDWE	HYAKLTAEVG	QQVQIVGDDL	LVTNPKRVEK	AIKEKACNAL
LLKVNQIGSV	TESIEAVRMS	KQAGWGVMA	HRSGETEDTF	IADLSVGLAT
GQIKTGAPCR	SERLAKYNQL	LR IEEELGSA	AVYAGAKFRA	PVEPY
Spot 1049 (N18-1.mht)				
MAKPISIEVW	NPSGKYRVVS	TKSMPGTRWI	RLLTDNDCRL	EICTEKKTIL
SVDDILALIG	DHCHGVIGQL	TEDWGEVLFS	ALKRAGGTAF	SNMAVGYNV
DVDAANRNGI	AIGNTPGVL	ETTAELAASL	SVAAARRIVE	ADQFMRAGLY
DGWLPHLFVG	NLLKGQTVGV	IGAGRIGSAY	ARMMIEGFKM	NLIYYDLYQS
TRLEKFVTAY	GQFLKANGEQ	GVTWKRAGSM	EEVLREADVI	SLHPVLDKTT
YHLINPERLA	MMKKEAVLVN	ASR GPVIDEA	ALVEHLKANP	MFRVGLDVFE
DEPYMKPGLA	EMKNAVVPVPH	IASASKWTRE	GMATLAALNV	LGKIKGYPVW
GNPNAVEPFL	DENATPPPAC	PSIVNAKQLG	LPSSKL	

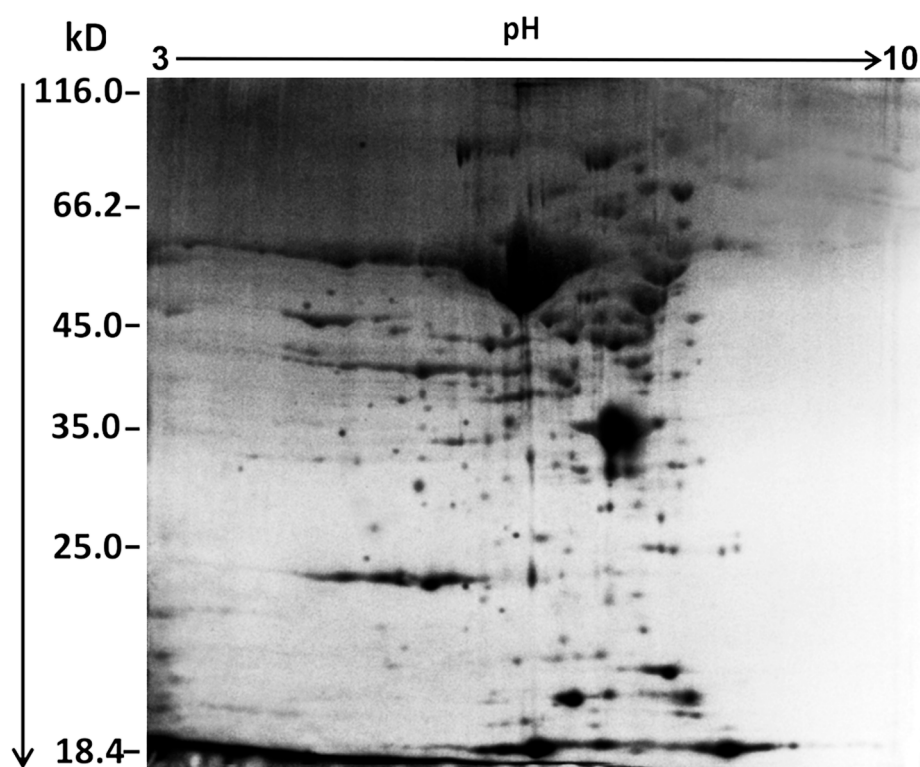


Figure S1. 2-DE profile of total proteins with IPG strips of pH 3–10 in *G. biloba*.