

FIGURE 1A

1 CGGAGGAGGA CGCGAGCCCC UUGC GGGCGG UCAUCACAGC CCAGCCUCGG GGCUGCCACA
 61 GCGCGUUGCG CCUGUGCGCC CUCGGUCCCC GCGUCCACUG AGCGCCGCGC UCGGGGAUUG
 121 GGCCCGGCGG GCCGGCCCC GCGCCCUGGC CUCGUCACCU GCUGCGCUGC GUCCUGCUCC
 181 UCGGGUGCCU GCACCUCGGC CGUCCCGGCG CCCCUGGGGA CGCCGCCUC CCGGAACCCA
 241 ACGUCUUCU CAUCUUCAGC CAUGGACUGC AGGGCUGCCU GGAGGCCAG GCGGGGACAG
 301 UCAGAGUCAC CCCGGCUUGC AAUACCAGCC UCCCUGCCCA GCGCUGGAAG UGGGUCUCCC
 361 GAAACCGGCU AUUCAACCUG GGUACCAUGC AGUGCCUGGG CACAGGCUGG CCAGGCACCA
 421 ACACCACGGC CUCCCUGGGC AUGUAUGAGU GUGACCGGGA AGCACUGAAU CUUCGCUGGC
 481 AUUGUCGUAC ACUGGGUGAC CAGCUGUCCU UGCUCCUGGG GGCCCGCACC AGCAACAUAU
 541 CCAAGCCUGG CACCCUUGAG CGUGGUGACC AGACCCGCGC UGGCCAGUGG CGCAUCUACG
 601 GCAGCGAGGA GGACCUAUGU GCUCUGCCCU ACCACGAGGU CUACACCAUC CAGGGAAACU
 661 CCCACGGA AAA GCGUGCACC AUCCCUUCA AAUAUGACAA CCAGUGGUUC CACGGCUGCA
 721 CCAGCACGGG CCGCGAGGAU GGUCACCGU GGUGUGCCAC CACCCAGGAC UACGGCAAAG
 781 ACGAGCGCUG GGGCUUCUGC CCCAUCAAGA GUAACGACUG CGAGACCUUC UGGGACAAGG
 841 ACCAGCUGAC UGACAGCUGC UACCAGUUUA ACUUCAGUC CACGCUUGC UGGAGGGAGG
 901 CCUGGGCCAG CUGCGAGCAG CAGGGUGCGG AUCUGCUGAG CAUCACGGAG AUCCACGAGC
 961 AGACCUACAU CAACGGCCUC CUCACUGGGU ACAGCUCCAC CCUGUGGAUC GGCUGAAUG
 1021 ACUUGGACAC GAGCGGAGGC UGGCAGUGGU CGGACAACUC GCCCCUCAAG UACCUCAACU
 1081 GGGAGAGUGA CCAGCCGGAC AACCCAGUG AGGAGAACUG UGGAGUGAUC CGCACUGAGU
 1141 CCUCGGGCGG CUGGCAGAAC CGUGACUGCA GCAUCGCGCU GCCCUAUGUG UGCAAGAAGA
 1201 AGCCCAACGC CACGGCCGAG CCCACCCUC CAGACAGGUG GGCCAAUGUG AAGGUGGAGU
 1261 GCGAGCCGAG CUGGCAGCCC UUCAGGGCC ACUGCUACCG CCUGCAGGCC GAGAAGCGCA
 1321 GCUGGCAGGA GUCCAAGAAG GCAUGUCUAC GGGGCGGUGG CGACCUGGUC AGCAUCCACA
 1381 GCAUGGCGGA GCUGGAAUUC AUCACCAAGC AGAUCAAGCA AGAGGUGGAG GAGCUGUGGA
 1441 UCGGCCUCAA CGAUUUGAAA CUGCAGAUGA AUUUUGAGUG GUCUGACGGG AGCCUUGUGA
 1501 GCUUCACCCA CUGGCACCCC UUUGAGCCCA ACAACUUCG GACAGUCUG GAGGACUGUG
 1561 UCACCAUCUG GGGCCCGGAA GGCCGCUUGA ACGACAGUCC CUGUAACCAG UCCUUGCCAU
 1621 CCAUCUGCAA GAAGGCAGGC CAGCUGAGCC AGGGGGCCGC CGAGGAGGAC CAUGGCUGCC
 1681 GGAAGGGUUG GACGUGGCAC AGCCCAUCCU GCUACUGGCU GGGAGAAGAC CAAGUGACCU
 1741 ACAGUGAGGC CCGGCGCCUG UGCACUGACC AUGGCUUCA GCUGGUCACC AUCACCAACA
 1801 GGUUCGAGCA GGCCUUCGUC AGCAGCCUCA UCUACAACUG GGAGGGCGAG UACUUCUGGA
 1861 CGGCCUGCA GGACCUAAC AGCACCAGCU CCUUCUUCUG GCUCAGUGGG GAUGAAGUCA
 1921 UGUACACCCA CUGGAACCGG GACCAGCCG GGUACAGCCG UGGGGGCGC GUGGCGCUGG
 1981 CCACUGGCAG CGCCAUGGGG CUGUGGGAGG UGAAGAACUG UACCUCGUUC CGGGCCCGCU
 2041 ACAUCUGCCG GCAGAGCCUG GGCACUCCAG UGACGCGGA GCUGCCGGGG CCAGAUCCCA
 2101 CGCCAGCCU CACUGGCUCU UGUCCCCAGG GCUGGGCCUC GGACACCAA CUCCGGUAUU
 2161 GCUAUAAAGU GUUCAGCUA GAGCGGCGC AGGACAAGAA GAGCUGGGUC CAGGCCAGG
 2221 GGGCCUGCCA GGAGCUGGGG GCCCAGCUGC UGAGCCUGGC CAGCUACGAG GAGGAGCACU

FIGURE 1A cont.

2281 UUGUGGCCAA CAUGCUC AAC AAGAUUCUG GUGAAUCAGA ACCCGAGAUC CACGAGCAGC
 2341 ACUGGUUCUG GAUCGGCCUG AACCGUCGGG AUCCCAGAGG GGGUCAGAGU UGGCGCUGGA
 2401 GCGACGGCGU AGGGUUCUCU UACCACAAUU UCGACCGGAG CCGGCACGAC GACGACGACA
 2461 UCCGAGGCUG UGCGGUGCUG GACCUGGCCU CCCUGCAGUG GGUGGCCAUG CAGUGCGACA
 2521 CACAGCUGGA CUGGAUCUGC AAGAUCCCCA GAGGUACGGA CGUGCGGGAG CCCGACGACA
 2581 GCCCUCAAGG CCGACGGGAA UGGCUGCGCU UCCAGGAGGC CGAGUACAAG UUCUUUGAGC
 2641 ACCACUCCAC GUGGGCGCAG GCGCAGCGCA UCUGCACGUG GUUCCAGGCC GAGCUGACCU
 2701 CCGUGCACAG CCAGGCAGAG CUAGACUUC UGAGCCACAA CUUGCAGAAG UUCUCCCGG
 2761 CCCAGGAGCA GCACUGGUGG AUCGGCCUGC ACACCUCUGA GAGCGAUGGG CGCUUCAGAU
 2821 GGACAGAUGG UUCAUUAUA AACUUAUCU CCUGGGCACC AGGCAAACCU CGGCCUGUCG
 2881 GCAAGACAA GAAGUGCGUG UACAUGACAG CCAGCCGAGA GGACUGGGGG GACCAGAGGU
 2941 GCCUGACAGC CUUGCCCUAC AUCUGCAAGC GCAGCAACGU CACCAAAGAA ACGCAGCCCC
 3001 CAGACCUGCC AACUACAGCC CUGGGGGGCU GCCCCUCUGA CUGGAUCCAG UUCCUCAACA
 3061 AGUGUUUUA GGUCCAGGGC CAGGAACCCC AGAGCCGGGU GAAGUGGUCA GAGGCACAGU
 3121 UCUCUGUGA ACAGCAAGAG GCCCAGCUGG UCACCAUCAC AAACCCCUUA GAGCAAGCAU
 3181 UCAUCACAGC CAGCCUGCCC AAUGUGACCU UUGACCUUUG GAUUGGCCUC CAUGCCUCGC
 3241 AGAGGGACUU CCAGUGGGUG GAGCAGGAGC CUUUGAUGUA UGCCAACUGG GCACCUGGGG
 3301 AGCCUCUGG CCCUAGCCCU GCUCCAGUG GCAACAAACC GACCAGCUGU GCGGUGGUCC
 3361 UGCACAGCCC CUCAGCCAC UUCACUGGCC GCUGGGACGA UCGGAGCUGC ACGGAGGAGA
 3421 CCAUGGCUU CAUCUGCCAG AAGGGCACGG ACCCCUCCU GAGCCCGUCC CCAGCAGCGC
 3481 UGCCCCCGC CCCGGGCACU GAGCUCUCCU ACCUCAACGG CACCUUCCGG CUGCUUCAGA
 3541 AGCCGUGCG CUGGCACGAU GCCCUCUGC UGUGUGAGAG CCACAAUGCC AGCCUGGCCU
 3601 ACGUGCCGA CCCCACACC CAGGCCUUC UCACGCAGGC UGCCCGAGGG CUGCGCACGC
 3661 CGCUCUGGAU UGGGUGGCU GCGGAGGAG GCUCUCGGCG GUACUCCUGG GUCUCAGAGG
 3721 AGCCGUGAA CUACGUGGGC UGGCAGGAG GGGAGCCGA GCAGCCGGGG GGCUGUACCU
 3781 ACGUAGAUGU GGACGGGGCC UGGCGCACCA CCAGCUGUGA CACCAAGCUG CAGGGGGCUG
 3841 UGUGUGGGU UAGCAGUGGG CCCCUCUCC CCGAAGAAU AAGCUACCAU GGCAGCUGUC
 3901 CCCAGGGACU GGCAGACUCC GCGUGGAUUC CCUCCGGGA GCACUGCUAU UCUUCCACA
 3961 UGGAGCUGCU GCUGGGCCAC AAGGAGGCG GACAGCGCUG CCAGAGAGCG GGUGGGGCGG
 4021 UCCUGUCUUA CCUGGAUGAG AUGGAGAAUG UGUUUGUCUG GGAGCACCUG CAGAGCUAUG
 4081 AGGGCCAGAG UCGGGGCGCC UGGCUGGGCA UGAACUCAA CCCCAGGA GGCACUCUGG
 4141 UCUGGCAGGA CAACACAGCU GUGAACUACU CCAACUGGGG GCCCCGGGC UUGGGCCCCA
 4201 GCAUGCUGAG CCACAACAGC UGCUACUGGA UUCAGAGCAA CAGCGGGCUA UGGCGCCCCG
 4261 GCGCUUGCAC CAACAUCACC AUGGGUGUCG UCUGCAAGCU UCCUCGUGCU GAGCAGAGCA
 4321 GCUUCUCCCC AUCAGCGCUU CCAGAGAACC CAGCGGCCU GGUGGUGGUG CUGAUGGCGG
 4381 UGCUGCUGCU CCUGGCCUUG CUGACCGCAG CCUCAUCCU UUACCGGAGG CGCCAGAGCA
 4441 UCGAGCGCGG GGCCUUUGAG GGUGCCCGCU ACAGCCGCG CAGCUCCAGC CCCACCGAGG
 4501 CCACUGAGAA GAACAUCUG GUGUCAGACA UGGAAAUGAA UGAGCAACAA GAAUAGAGCC

FIGURE 1A cont.

4561 AGGCGCGUGG GCAGGGCCAG GCGGGGAGGA GCUGGGGAGC UGGGGCCCUG GGUCAGUCUG
 4621 GCCCCCACC AGCUGCCUGU CCAGUUGGCC UAUGGAAGGG UGCCCCUGGG AGUCGCUGUU
 4681 GGGAGCCGGA GCUGGGCAGA GCCUGGGCUG GUGGGGUGCC ACCCUCCCAC AAGGGCUGGG
 4741 CUGAGACCCA GCUGAGUGCA GCGUGGCGUU UCCCUUUCUG GGGGGGCCUG AGGUCUUGUC
 4801 ACCUGGUCCU GUGCCCCAC AGGAACCAGA GGUAGGAUGG GAGGGGAAC GAGAGCCUCU
 4861 UUCUCCCCAG AGCCCCGGC CCAGGCCUGU UGAUCCGCGC CCCAGGACCC CCUUCUUUGC
 4921 AGAGCCCAG GAGCCUCCCC UGUCCCCUCG GGCAGAUUCU UUGUGUCUCU CUUCCCACCU
 4981 GGCAGCCUCA GCUCUGUGCC CCUCACCCUG CUCCCUCUCG CCCCUCUCU CCCACCCCUU
 5041 CCUUCUGAGC CGGGCCCUGG GGAUUGGGGA GCCCUCUUGU UCCUGAUGAG GGUCAGCUGA
 5101 GGGGGCUGAG CAUCCAUCAC UCCUGUGCCU GCUGGGGUGG CUGUGGGGCG UGGCAGGAGG
 5161 GGCCUAGGUG GGUUGGGCCU GAGAACCAGG GCACGGGUGU GGUGUCUGCU GGGCUGGAGA
 5221 UAAGACUGGG GAGAGACACC CCAACCUCCT AGGGUGGGAG CUGGGCCGGG CUGGGAUGUC
 5281 AUCUCCUGCC GGGCGGGGA GGGCUCUGCC CCUGGAAGAG UCCCUGUGG GGACCAAAU
 5341 AAGUCCCCUA ACAUCUCCAG CUCCUGGCUC UGGUUUGGAG CAAGGGGAAG GGUUGCCAGA
 5401 GUCCUGGGGG CCCAGAGGA GCAGGAGUCU GGGAGGGCCC AGAGUUCACC CUCUAGUGGA
 5461 UCCAGGAGGA GCAGCACCCG AGCCUGGAG UGGCCCAGUA CCCUCCAAG AGGCCACAGU
 5521 CCCAGCCAGG ACAAAGUAUG CGGCCCAUCC UGGUGCGACA GCGUGGGACA AUGUGAACAU
 5581 GGACUCGAAG ACAUGGCCCC UUCUCUGUAG UGAUUUUUU AAAUGUGCCA UUAUUGUUUU
 5641 U

FIGURE 1B

1 MGPGRPAPAP WPRHLLRCVL LLGLHLGRP GAPGDAALPE PNVFLIFSHG LQGCLEAQQG
 61 QVRVTPACNT SLPAQRWKV SRNRLFNLGT MQCLGTGWPG TNTTASLGM ECDREALNLR
 121 WHCRTLGDL SLLLGARTSN ISKPGTLERG DQTRSGQWRI YGSEEDLCAL PYHEVYTIQG
 181 NSHGKPTIP FKYDNQWFHG CTSTGREDGH LWCATTQDYG KDERWGFCPI KSNDCEFTWD
 241 KDQLTDSCYQ FNFQSTLSWR EAWASCEQQG ADLLSITEIH EQTYINGLLT GYSSTLWIGL
 301 NDLDTSGGWQ WSDNSPLKYL NWESDQPDNP SEENCGVIRT ESSGGWQNRD CSIALPYVCK
 361 KKPNTAEPT PPDRWANVKV ECEPSWQFPQ GHYRLQAEK RSWQESKKAC LRGGGDLVSI
 421 HSMAELEFIT KQIKQEVEEL WIGLNDLKLQ MNFEWSDGSL VSFTWHHPFE PNNFRDSLED
 481 CVTIWGPEGR WNDSPCNQSL PSICKKAGQL SQGAAEDHG CRKGWTWHSP SCYWLGEDQV
 541 TYSEARRLCT DHGSQLVTIT NRFEQAFVSS LIYNWEGEYF WTALQDLNST GSFFWLSGDE
 601 VMYTHWNDRD PGYSRGGCVA LATGSAMGLW EVKNCTSFRA RYICRQSLGT PVTPELPGPD
 661 PTPSLTGSCP QGWASDTKL RYCYKVFSSER LQDKKSWVQA QGACQELGAQ LLSLASYYYY
 721 HFVANMLNKI FGESEPEIHE QHFWWIGLNR RDPRGGQSWR WSDGVGFSYH NFDRSRHDDD
 781 DIRGCAVLDL ASLQWVAMQC DTQLDWICKI PRGTDVREPD DSPQGRREWL RFQEAQYKFF
 841 EHHSTWAQQA RICTWFQAEI TSVHSQAELD FLSHNLQKFS RAQBQHHWWIG LHTSESDFGRF
 901 RWTGDSIINF ISWAPGKPRP VGKDKKCVYM TASREDWGDQ RCLTALPYIC KRSNVTKETQ
 961 PPDLPPTALG GCPDWDIQFL NKCFQVQGE PQSRVKWSEA QFSCEQQAQ LVTITNPLEQ

FIGURE 1B cont

1021 AFITASLPNV TFDLWIGLHA SQRDFQWVEQ EPLMYANWAP GEPSGSPSPAP SGNKPTSCAV
 1081 VLHSPSAHFT GRWDDRSCTE ETHGFICQKG TDPSLSPSPA ALPPAPGTEL SYLNGTFRLL
 1141 QKPLRWHDAL LLCESHNASL AYVPDPYTQA FLTQAARGLR TPLWIGLAGE EGSRRYSWVS
 1201 EEPLNYVGWQ DGEPPQPGGC TYVDVDGAWR TTSCDTKLQG AVCGVSSGPP PPRRISYHGS
 1261 CPQGLADSAW IPFREHCYSF HMELLGLHKE ARQRCQRAGG AVLSILDEME NVFVWEHLQS
 1321 YEGQSRGAWL GMNFNPKGGT LVWQDNTAVN YSNWGPPLG PSMLSHNSCY WIQSNSGLWR
 1381 PGACTNITMG VVCKLPRAEQ SSFSPSALPE NPAALVVVLM AVLLLLALLT AALILYRRRQ
 1441 SIERGAFEGA RYSRSSSSPT EATEKNILVS DMEENEQQE

FIGURE 1C

ATGGGGCCCCGGCCGGCCGGCCCGCCCGCCCTGGCCTCGTCACCTGCTGCGCTGCGTCCTG
 CTCCTCGGGTGCTGACCTCGGCCGTCCCGGCGCCCTGGGGACGCCGCCCTCCCGGAA
 CCCAACGTCTTCTCATCTTCAGCCATGGACTGCAGGGCTGCTGGAGGCCAGGGCGGG
 CAGGTCAGAGTACCCCGGCTTGAATACCAGCCTCCCTGCCAGCGCTGGAAGTGGGTC
 TCCCGAAACCGCTATTCAACCTGGGTACCATGCAGTGCCTGGGCACAGGCTGGCCAGGC
 ACCAACACCACGGCCTCCCTGGGCATGTATGAGTGTGACCGGAAGCACTGAATCTTCGC
 TGGCATTTGCTGACTGAGTGGGTGACAGCTGTCTTGTCTCTGGGGGCCCCGACCAGCAAC
 ATATCCAAGCCTGGCACCTTGAGCGTGGTGACAGACCCGAGTGGCCAGTGGCGCATC
 TACGGCAGCGAGGAGGACCTATGTGCTCTGCCCTACCACGAGGTCTACACCATCCAGGGA
 AACTCCACGAAAGCCGTGCACCATCCCCTTCAAATATGACAACAGTGGTTCACGGC
 TGCACCAGCACGGGCCGCGAGGATGGTCACCTGTGGTGTGCCACCACCCAGGACTACGGC
 AAAGACGAGCGCTGGGGCTTCTGCCCCATCAAGAGTAACGACTGCGAGACCTTCTGGGAC
 AAGGACCAGCTGACTGACAGCTGCTACCAGTTTAACTTCCAGTCCACGCTGTCTGGAGG
 GAGGCTGGGCCAGCTGCGAGCAGCAGGGTGGGATCTGCTGAGCATCACGGAGATCCAC
 GAGCAGACCTACATCAACGGCCTCCTCACTGGGTACAGCTCCACCTGTGGATCGGCTTG
 AATGACTTGGACACGAGCGGAGGCTGGCAGTGGTGGACAACTCGCCCTCAAGTACCTC
 AACTGGGAGAGTGACAGCCGGACAACCCCAAGTGAGGAGAACTGTGGAGTGATCCGCACT
 GAGTCTCGGGCGGCTGGCAGAACCGTGACTGCAGCATCGCGCTGCCCTATGTGTGCAAG
 AAGAAGCCCAACGCCACGGCCGAGCCACCCCTCCAGACAGGTGGGCCAATGTGAAGGTG
 GAGTGGAGCCGAGCTGGCAGCCCTTCCAGGGCCACTGTACCGCTGCAGGCCGAGAAG
 CGCAGCTGGCAGGAGTCCAAGAAGGCATGTCTACGGGGCGGTGGCGACCTGGTCAGCATC
 CACAGCATGGCGGAGCTGGAATTCATCACCAGCAGATCAAGCAAGAGGTGGAGGAGCTG
 TGGATCGGCCTCAACGATTTGAACTGCAGATGAATTTTGTGGTCTGACGGGAGCCTT
 GTGAGCTTCACCCACTGGCACCCCTTTGAGCCCAACAACCTCCGGGACAGTCTGGAGGAC
 TGTGTACCATCTGGGGCCCCGAAGGCCGCTGGAACGACAGTCCCTGTAACCAGTCTTG
 CCATCCATCTGCAAGAAGGCAGGCCAGCTGAGCCAGGGGGCCCGCAGGAGGACCATGGC
 TGCCCGGATTAAGGACGACGACGATAAGTGA

FIGURE 1D

MGPGRPAPAPWPRHLLRCVLLGLHLGRPGAPGDAALPEPNVFLIFSHGLQGCLEAQQG
 QVRVTPACNTSLPAQRWKVSRNRLFNLGTMQCLGTGWPNTTASLGMVECDREALNLR
 WHCRTLGDLSSLGARTSNISKPGTLERGDQTRSGQWRIYGSEEDLCALPYHEVYTIQG
 NSHGKPCITPFKYDNQWFHGCTSTGREDEHLWCATTQDYGKDERWGFPIKSNDCEFTWD
 KDQLTDSYQNFQSTLSWREAWASCEQQGADLLSITEIHEQTYINGLLTGYSSTLWIGL
 NDLDTSGGWQSDNSPLKYNWESDQPDNPSEENCGVIRTESSGGWQNRDCSIALPYVCK
 KKPNTAEPTPPDRWANVKVECEPSWQPFQGHYRLQAEKRSWQESKKACLRGGGDLVSI
 HSMAELEFITKQIKQEVLEELWIGLNDLKLQMNFEWSDGSLVSFTWHHPFEPNNFRDSLED
 CVTIWGPGRWNSPCNQSLPSICKKAGQLSQGAEEHDGCRDYKDDDDK

FIGURE 1E

TAATGTGAGTTAGCTACTCTTAGGCACCCCAGGCTTTACACTTTATGCTTCCGGCTCGTATGTTGTGTGG
 AATTGTGAGCGGATAACAATTTACACAGGAAACAGCTATGACCATGATTACGCCAAGCTTGCCAAATTC
 TATTTCAAGGAGACAGTCATAATGAAATACCTATTGCCTACGGCAGCCGCTGGATTGTTTACTCGCAG
 CAAGCGGCGCGCATGCCCAGGTGCAGCTGGTGCAGTCTGGGGGAGGCCTGGTCAAGCCTGGGGGGTCCCT
 GAGACTCTCCTGTGCAGCCTCTGGATTACCTTCAGTAGCTATAGCATGAACTGGGTCCGCCAGGCTCCA
 GGGAAGGGGCTGGAGTGGGTGGCCAACATAAAGCCAGATGGAAGTGAGAGACACTCTGTGGACTCTGTGA
 AGGGCCGATTACCATCTCCAGAGACAACCTCCAAGAACTCACTGTATCTGCAAATGAACAGCCTGAGAGC
 CGAGGACACGGCTGTTTATTACTGTGCGCGACCCGGGGCTGGGCGACTTGACTACTGGGGCCAGGGCACC
 CTGGTCACCGTCTCCTCAGGTGGAGGCGGTTTCAGGCGGAGGTGGCTCTGGCGGTGGCGGATCGAATTTTA
 TGCTGACTCAGGACGCTGCTGTGTCTGTGGCCTTGGGACAGACAGTCAGGATCACATGCCAAGGAGACAG
 CCTCAGAAGCTATTATGCAAGCTGGTACCAACAGAAGCCAGGACAGGCCCCCTGTACTTGTCTGTCTATGGT
 AAAAACAACCGACCCCTCAGGGATCCCAGACCGATTCTCTGGCTCCAGCTCAGGAAACACAGCTTCCCTTGA
 CCATCACTGGGGCTCAGGCGGAAGATGAGGCTGACTATTACTGTAACCTCCCGGACAGCAGTGGTAACCC
 CTGGGCGTTTCGGCGGAGGGACCAAGGTGACCGTCTTAGCTAGCGGCAAACCAATCCCAAACCCACTGCTG
 GGCCTGGATAGTACTACCATCACCATCACCATTAGGCGGCCGCTACTGTTGAAAGTTGTTTAGCAAAAC
 CTCATACAGAAAATTCATTTACTAACGTCTGGAAAGACGACAAAACCTTTAGATCGTTACGCTAACTATGA
 GGGCTTG

FIGURE 1F

M K Y L L P T A A A G L L L L A A S G A H A Q V Q L V Q S G G G L V K
 P G G S L R L S C A A S G F T F S S Y S M N W V R Q A P G K G L E W V
 A N I K P D G S E R H S V D S V K G R F T I S R D N S K N S L Y L Q M
 N S L R A E D T A V Y Y C A R P G A G R L D Y W G Q G T L V T V S S G
 G G G S G G G G S G G G G S N F M L T Q D A A V S V A L G Q T V R I T
 C Q G D S L R S Y Y A S W Y Q Q K P G Q A P V L V V Y G K N N R P S G
 I P D R F S G S S S G N T A S L T I T G A Q A E D E A D Y Y C N S R D
 S S G N P W A F G G G T K V T V L A S G K P I P N P L L G L D S T H H
 H H H H

FIGURE 1G

CDR3-H CARPGAGRLDYW

FIGURE 1H

CDR3-L CNSRDSSGNPWAF

FIGURE 1J

MGPGRPAPAPWPRHLLRCVLLLGCLHLGRPGAPGDAALPEPNVFLIFSHGLQGCLQAQGG
 QVRVTPACNTSLPAQRWKWVSRNRLFNLTGMQCLGTGWPGTNTTASLGMYECDREALNLR
 WHCRTLGDLQSLLLLGARTSNISKPGTLERGDQTRSGQWRIYGSEEDLCALPYHEVYTIQG
 NSHGKPCITPPKYDNQWPHGCTSTGREDGHLWCATTQDYGKDERWGFPCPIKSNDCEFTWD
 KDQLTDSQYQFNQSTLSWREAWASCEQQGADLLSITEIHEQTYINGLLTGYSSTLWIGL
 NDLDTSQGWQSDNSPLKYNWESDQPDNPSEENCQVIRTESSGGWQNRDCSIALPYVCK
 KKP NATAEPTPPDRWANVKVECEPSWQPFQGH CYRLQAEKR SWQESK KACL RGGGDLVSI
 HSM AELEF ITKQIKQEVEELWIGLNDLKLQMNFEWSDGSLVSFTHWHPFEPNNFRD SLED
 CVTIWGPEGRWNDS PCNQSLPSICKKAGQLSQGAEEEDHGCR

FIGURE 2A

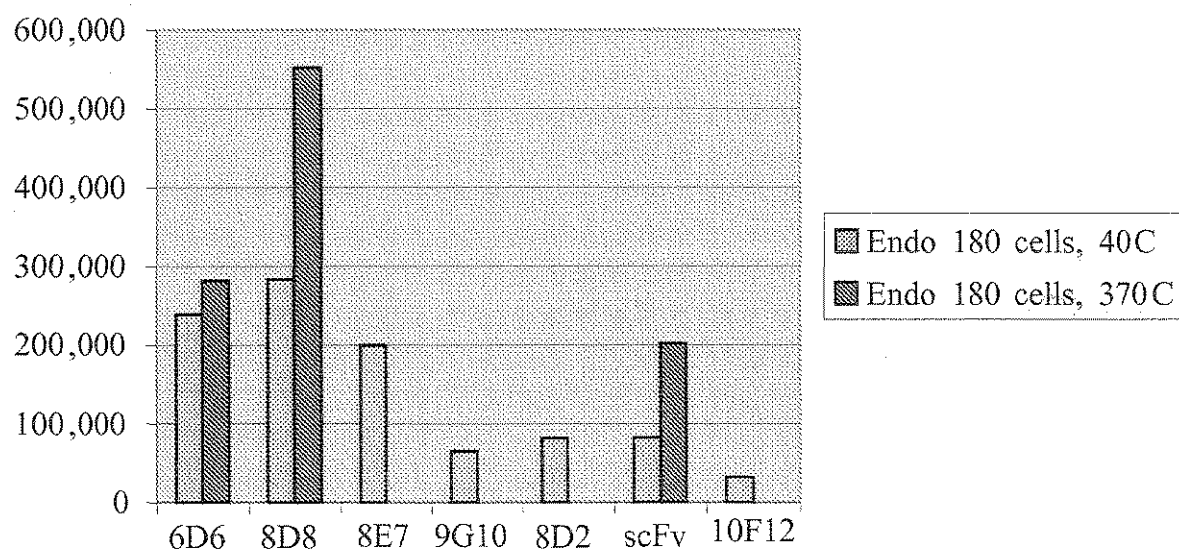


FIGURE 2B

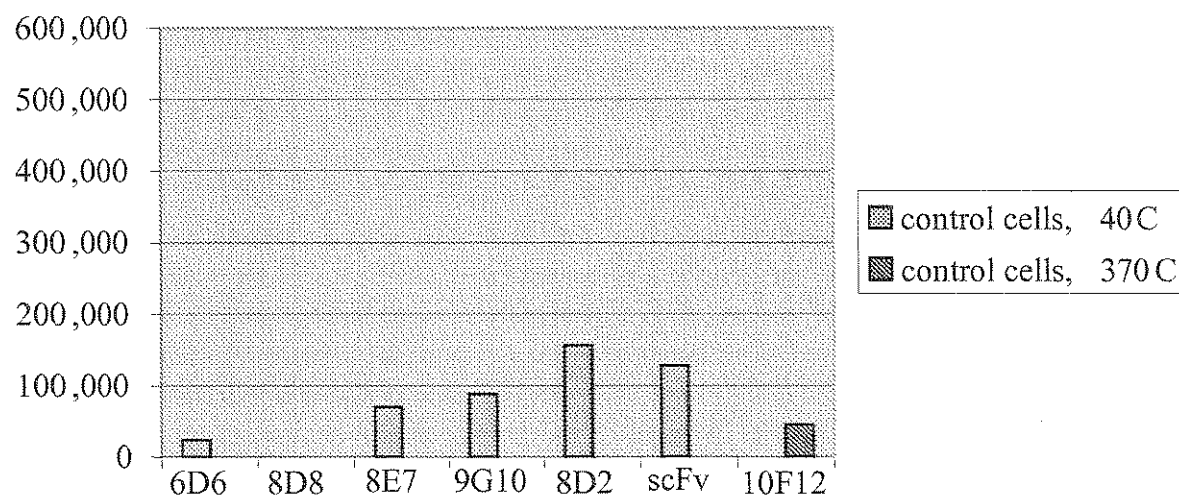


FIGURE 2C

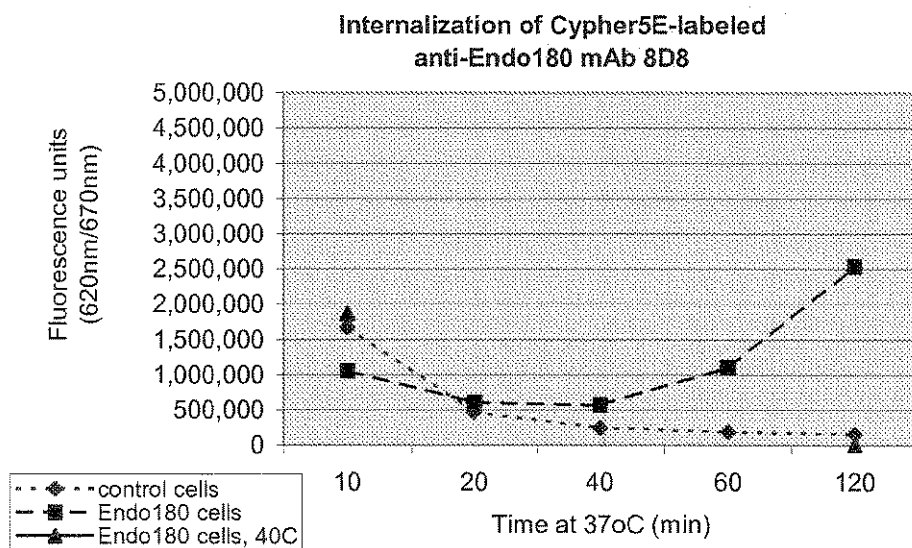


FIGURE 2D

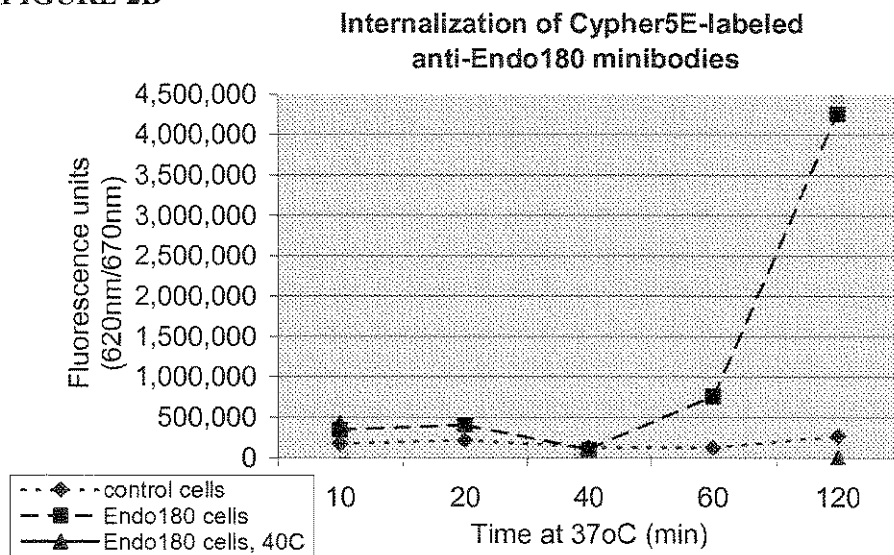


FIGURE 2E

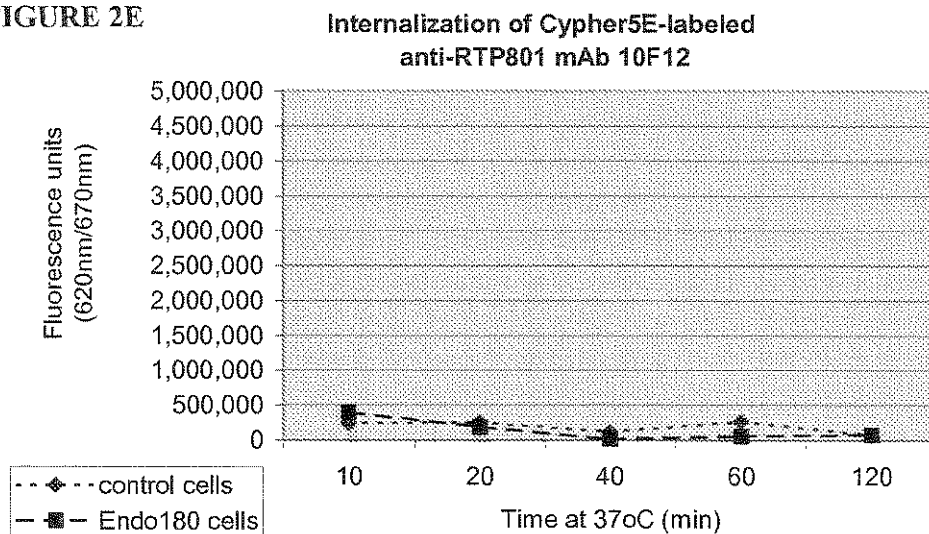


FIGURE 2F

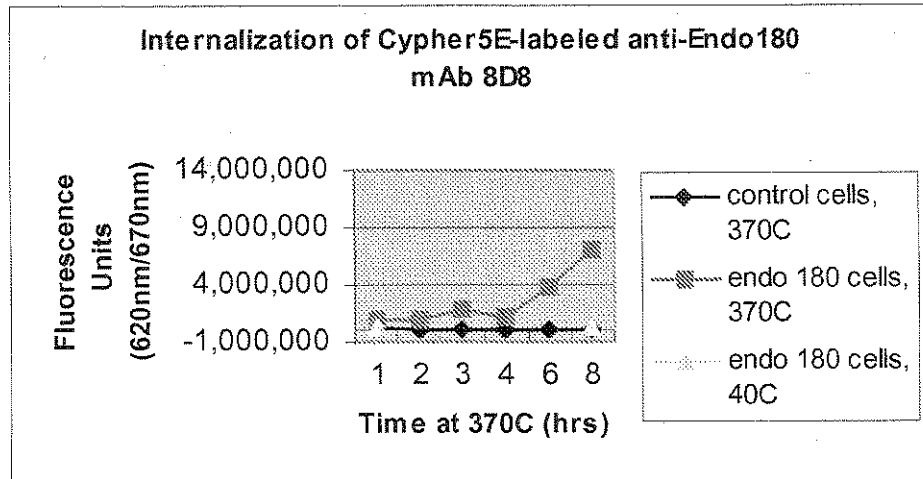


FIGURE 2G

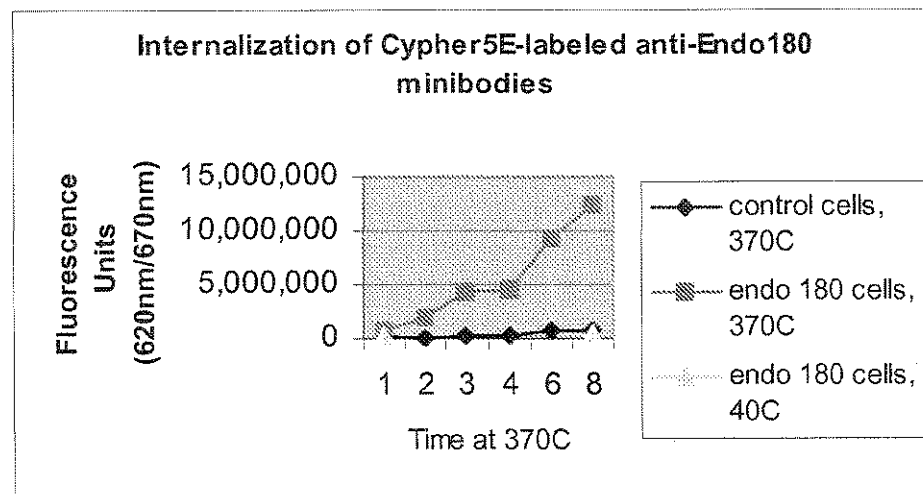


FIGURE 2H

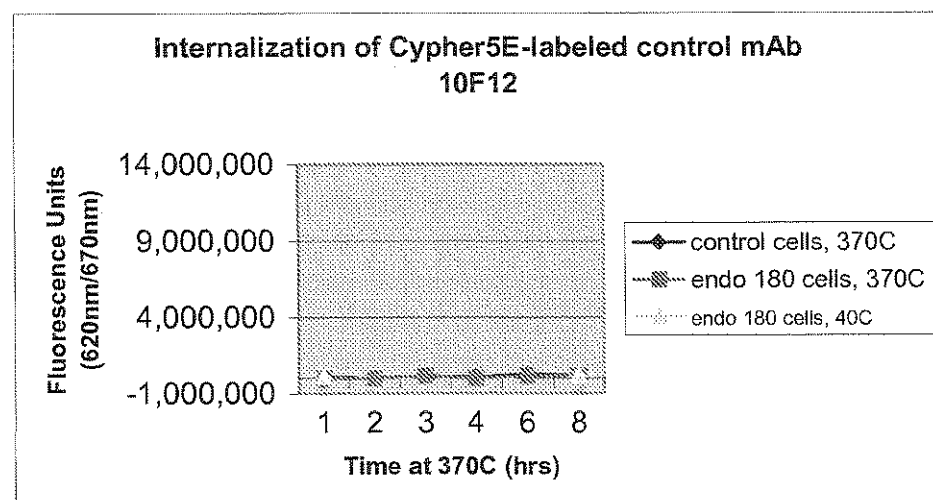
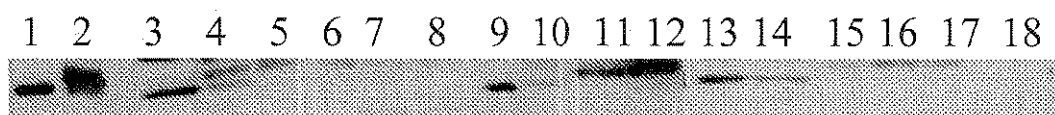
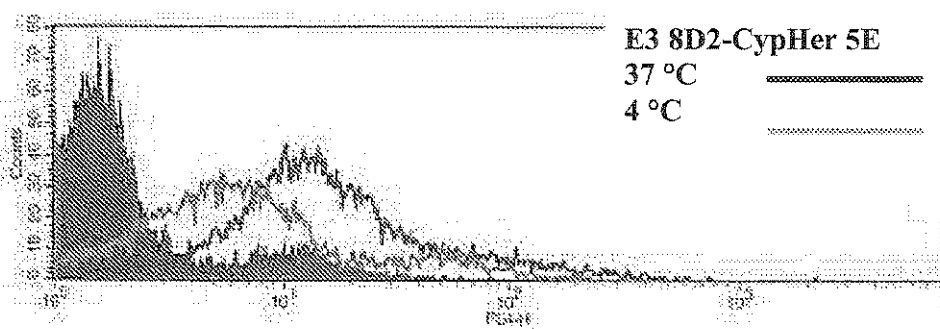


FIGURE 3:

1. E3 8D8-Biotin
2. NMIgG-Biotin
3. Mouse #26 injected with E3 8D8-Biotin, UUO kidney
4. Mouse #26 injected with E3 8D8-Biotin, Contra-lateral kidney
5. Mouse #38 injected with NMIgG-Biotin, UUO kidney
6. Mouse #38 injected with NMIgG-Biotin, Contra-lateral kidney
7. Mouse #50 injected with PBS, UUO kidney
8. Mouse #50 injected with PBS, Contra-lateral kidney
9. Mouse #33 injected with E3 8D8-Biotin, UUO kidney
10. Mouse #33 injected with E3 8D8-Biotin, Contra-lateral kidney
11. Mouse #40 injected with NMIgG-Biotin, UUO kidney
12. Mouse #40 injected with NMIgG-Biotin, Contra-lateral kidney
13. Mouse #27 injected with E3 8D8-Biotin, UUO kidney
14. Mouse #27 injected with E3 8D8-Biotin, Contra-lateral kidney
15. Mouse #36 injected with NMIgG-Biotin, UUO kidney
16. Mouse #36 injected with NMIgG-Biotin, Contra-lateral kidney
17. Mouse #37 injected with NMIgG-Biotin, UUO kidney
18. Mouse #37 injected with NMIgG-Biotin, Contra-lateral kidney

FIGURE 4A**FIGURE 4B**