

FIGURE 1A

ATGAAGCTTTCCACCATCCTCTTCACAGCCTGCGCTACCCCTGGCTGCCGCCAGCAGGGAGCCT
CTCGACCCCGGACCCCGAGATGCCAGGCTCACCCCGGACGACCTCGAGCTGTGCCACCCAGTGTG
ACGTGCCCCCAACTCTCGATTGCACTGTGCCCCGACAAGGCCATCACCCAGGAGCAGTGCGAGG
CCCGAGGCTGTTGTTACATCCCCGCTAAGCAGGGCCTGCAGGGCGCTCAGATGGGCCAGCCCTGGT
GTTTCTTCCCCCTCTTACCCCTCTACAAGCTGGAGAACCTGTCCTCTTCGGAGATGGGCTACAC
CGCCACCTTGACCCGAACCAACCCACCTTTTCCCCAAGGACATCTGACCCCTGCGACTGGACGTG
ATGATGGAGACCGAGAACCGACTGCACCTTACCATCAAGGACCCCGCCAACCGACGATACGAGGT
GCCCCGGAGACCCCCACGTGCACCTCTCGAGCCCTTCCCCCTGTACTCTGTGGAGTTCTCTGAG
GAGCCCTTCGGCGTGATCGTGCAGACGACAGCTGGACGGCCGAGTGCTGCTGAACACCACCGTGGCC
CCCCTGTTCTTCGCCGACCAGTTCTGCACTGTCTACCTCTCTGCCCTCTCAGTACATCACCGGCCT
GGCCGAGCACCTGTCCCCCTGATGCTGTCCACCTCTTGGACTCGAATCACCCCTGTGGAAACCGAGA
CCTGGCCCCCACCCCGGTGCCAACCTGTACGGCTCTCACCCCTTCTACCTGGCCCTGGAGGACGGC
GGCTCTGCCACGGCGTGTTTCTGCTGAACCTCTAACGCCATGGACGTGGTGCTGCAGCCCTCTCCCG
CCCTGTCTTGGCGATCTACCGCGCGCATCCTGGACGTGTACATCTTCTGGGCCCTGAGCCCAAGTC
TGTGGTCCAGCAGTACCTGGACGTGGTCCGATAACCCCTTCATGCCCCCTACTGGGGCCTGGGCTTC
CACCTGTGTCGATGGGGCTACTCTTCTACCGCCATCACCCGACAGGTGGTGGAGAACATGACCCGA
GCCCCACTTCCCCCTGGACGTGCAATGGAACGACCTGGACTACATGGACTCTCGACGAGACTTCACC
TTCAACAAGGACGGCTTCCGAGACTTCCCCGCCATGGTCCAGGAGCTGCACCAGGGAGGACGACG
ATACATGATGATCGTGGACCCCGCCATCTCTTCTTCCGACCCGCCGATCTTACCGACCCTACGAC
GAGGGCCTGCGACGAGGCGTGTTTCATCACCAACGAGACCGGCCAGCCCTGATCGGCAAGGTGTG
GCCCCGGCTCTACCGCCTTCCCCGACTTCACCAACCCACCGCCCTGGCTTGGTGGGAGGACATGGT
GGCCGAGTTCACGACACAGGTGCCCTTCGACGGCATGTGGATCGACATGAACGAGCCCTCTAACTT
CATCCGAGGCTCTGAGGACGGCTGTCCCAACAACGAGCTGGAGAACCCCCCTACGTGCCCGGCGT
GGTGGGCGGAACCCCTGCAGGCCGCCACCATCTGTGCCTCTTCGCACCAGTTTCTGTCTACCCACTAC
AACCTGCACAACCTGTACGGACTGACCGAGGCCATTCGCTCTCACCGAGCCCTGGTGAAGGCCCGA
GGCACCCGACCCCTTCGTGATCTCTCGATCTACCTTCGCCGGCCACGGCCGATACGCCGGACACTGG
ACCGGCGATGTGTGGTCTCTTGGGAGCAGCTGGCCTCTTCTGTGCCCGAGATCCTGCAGTTCAACC
TGCTGGGCGTGCCCTGGTGGGCGCCGACGTGTGTGGCTTCTTGGGCAACACCTCTGAGGAGCTGT
GTGTTTCGATGGACCCAGCTCGGCGCCTTCTACCCTTTCATGCGAAACCACAACCTCCCTGCTGTCTCT
GCCCCAGGAGCCCTACTCGTTCTCTGAGCCCGCTCAGCAGGCCATGCGAAAGGCTCTGACCCTGCG
ATACGCCCTGCTGCCCCACCTGTACACCCCTGTTCACCAGGCCACCGTGGCTGGAGAGACCGTGGC
CCGACCCCTGTTTCTGGAGTTCCTTAAGGACTCTTCTACCTGGACCGTGGACCATCAGCTGCTGTGG
GGCGAGGCCCTCTCTGATCACCCCGTGTCTGCAGGCCCGCAAGGCTGAGGTGACCGGCTACTTCCCT
CTGGGCACCTGGTACGACCTGCAGACCGTGCTGTGGAGGCCCTGGGATCTCTGCCCCCTCTCCCG
CCGCTCCCCGAGAGCCCGCCATCCACTCTGAGGGCCAGTGGGTGACCCTGCCCCCTCCCTGGACA
CCATCAACGTGCACCTGCGAGCCGGCTACATCATCCCTCTGCAGGGACCCGGCCTGACCACCACCG
AGTCTCGACAGCAGCCCATGGCCCTGGCCGTGGCTCTGACCAAGGGCGGAGAGGCCCGAGGCGAG
CTGTTCTGGGACGATGGCGAGTCTCTGGAGGTGCTGGAGCGAGGCGCCTACACCCAGGTGATCTTT
CTGGCCCGAAACAACACCATCGTGAACGAGCTGGTGCGAGTGACCTCTGAGGGCGCTGGTCTGCAG
CTCCAGAAGGTGACCGTCTCTGGCGTGGCCACCGCTCCCCAGCAGGTCTGTCTAACGGCGTGCCC
GTGTCTAACTTCACCTACTCTCCCGACACCAAGGTGCTGGACATCTGTGTGTCTCTGCTGATGGGCG
AGCAGTTCCTGGTGTCTTGGTGTTAAC

FIGURE 1B

MKLSTILFTACATLAAAQQGASRPGPRDAQAHGPRPRAVPTQCDVPPNSRFDCAFDK
AITQEQCEARGCCYIPAKQGLQGAQMGPWCFFPPSYPSYKLENLSSEMGYTATLTRT
TPTFFPKDILTLRLDVMMETENRLHFTIKDPANRRYEVPLETPHVHSRAPSPLYSVEFSE
EPFGVIVRRQLDGRVLLNTTVAPLFFADQFLQLSTSLPSQYITGLAEHLSPLMLSTSWTR
ITLWNRDLAPTPGANLYGSHPPYLALEDGGSAGHVFLSNSNAMDVVLQPSPALSWRST
GGILDVYIFLGPEPKSVVQQYLDVVGYPFMPYPYWGLGFHLRCRWGYSSTAITRQVVENM
TRAHFPLDVQWNDLDYMDSRDFTFNKDGFRDFPAMVQELHQGGRRYMMIVDPAISS
SGPAGSYRPHYDEGLRRGVFITNETGQPLIGKVWPGSTAFFPDFTNPTALAWWEDMVAEF
HDQVPFDGMWIDMNEPSNFIRGSEDGCPNNELENPPYVPGVVGGLQAATICASSHQF
LSTHYNLHNLVGLTEAIAASHRALVKARGTRPFVISRSTFAGHGGRYAGHWTGDVWSSWE
QLASSVPEILQFNLLGVPLVGADVCGFLGNTSEELCVRWTQLGAFYPFMRNHNSLLSLP
QEPYSFSEPAQQAMRKALTLRYALLPHLYTLFHQAHVAGETVARPLFLEFPKDSSTWT
VDHQLLWGBALLITPVLQAGKAEVTGYFPPLGTWYDLQTPVEALGSLPPPPAAPREPAI
HSEGQWVTLPAPLDTINVHLRAGYIIPLOQGPGLTTTESRQQPMALAVALTGGGEARGEL
FWDDGESLEVLERGAYTQVIFLARNNTIVNELVRVTSEGAGLQLQKVTVLGVATAPQQ
VLSNGVPVSNFTYSPDTKVLDCVSLLMGEQFLVSWC*

FIGURE 2

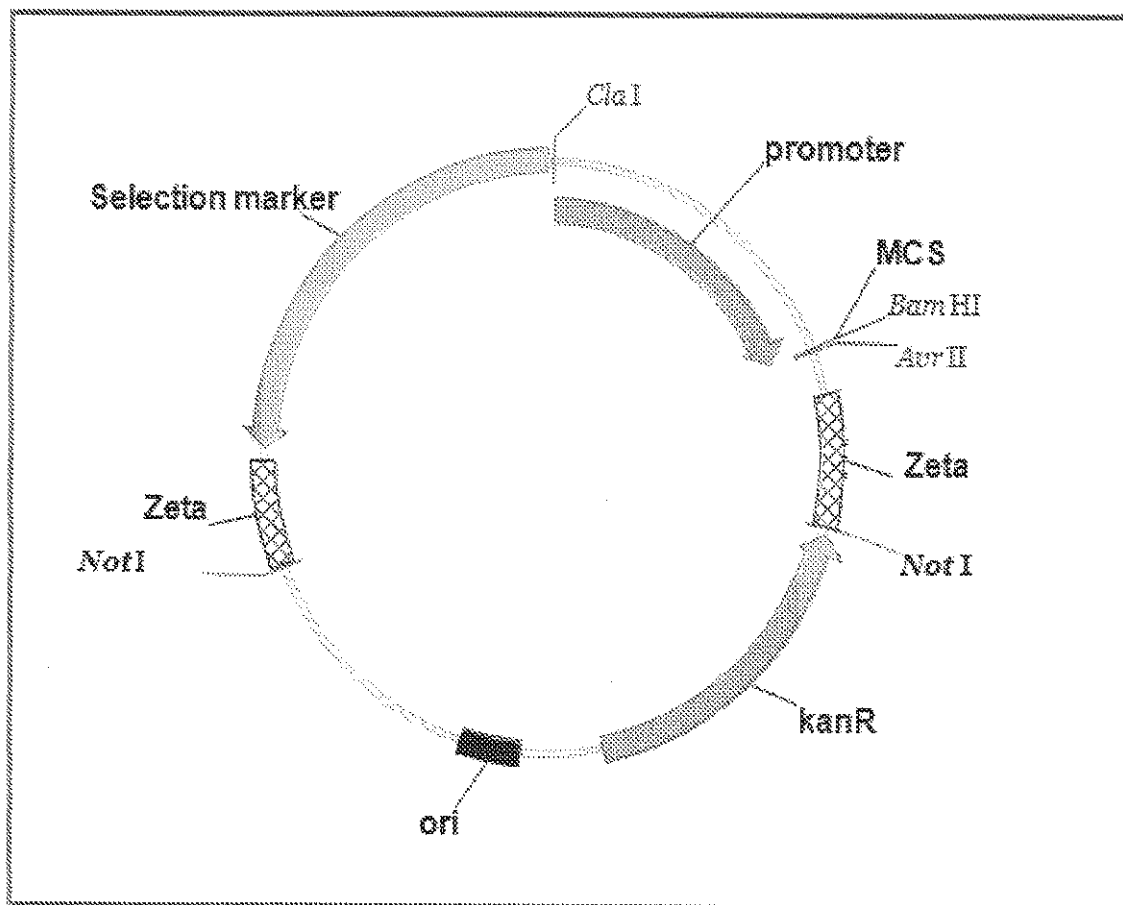


FIGURE 3A

[illegible]

FIGURE 3B

atgccatcatcaccatcaccatctattgcacttcaacacagagcctgtggcggaagcggggtgaacaacctgtttaccgaccgacttccagagticaccagcgacggcggaataccgggtctctcaacctgcagctttctacgagcgagaacgacttgatggcaagaacccatgtggcgatigaaacgtatgcgtttcagatctacgacggccactgttcaaaagacgcccctcaaaagaggcagatggccacttggaaacagcaaagaaggggtccgagtagcgaccttcttggggccacttactgttcaagatccaggtctgtgtgccccagagtggaagaagaactactacaaaaagggcgaccttgggtgggtgtcaatttgaatctcaactgtgaggggtctcgtgttcagcgagctctggagaaagctctatttgggttatccggcgaggaacgacgagagaatggccccattcccagacaacttggttcgacggaaagtggccataccctttacattgaggccagttgcaatggcatgttcggcaacgcaacgggaatcttccatccagccccccagcgacaacagatatctcagacttggatctgcagacctcgtgttcacaaactccgaggcccgacatctcttgggtatgttggatlatcgagatcgggcccgagggttccaggggattcgttgcaacgttggaaaggcactagatgtcgtacaagaatcatggatgcctttgatcctgaaaaaccagatgagagatcgccgagggcggaaaacttccaagggaatacctcggagatactacaaggcgctacaagcaacagctaccattcgtgatggcctagtttacgcactcggtaactgccacatcgataccgcgttggctatggcccttggctgagactcgtcgaaggcgaggttcgatcttgggtcttcaacttgagctcatcgacaagtacccccgagtagctgttgggttggcttcccaggccccagcagttcaagtgtgctcaagggaagactacccccgacttgtttgccaaagtacaaaagcaggctaaagaaggccgcttcccttcgtcggaggcgccctggaccgagttgacactaacctgcctctcggagagctctcctcgcgccagttcgttgggtcagcgattcttccctgaacactttggctcccttctgacactttctggctgcctgacactttcggatactctgtcaggttccctcagctgtgtcgtattgggtggcatggaccgtttcttgacccagaagttgtccttggaaataacatcaactcgttccccaaattcaacatttaattgggttggctctggatggctcgcaggttgcctctgtcatatgccaccaacaacacctacacttctatgtgccaacttgggtgacgtctcacgaactcagaacagaacaagaatcttgacaccactcgaactccccctcatgtctctatggccaccggagacggaggaggaggccccactgctgagatgtcggagaagctgcgtcgtatgccgagggtgttccaacaccgtcgggggaacttccctgttaatccaggggacaatctgtgaccgacttctacaatgagcttcttgatcagactaacaacggcaaggatctcgttaacctgggtcggggagctgtactttgagttccaccgtgggtacctacaccagtcaagcccagactaaaaaggggtaaccgagtgctcggagaacctgtctacacgatgtcaggttgggtggccactcggccagttatcgagactcatcttacaagtaccccttgcacagcttgagctctctctgggaggtatgtgtgtcttggcagttccatgatgttcttccggatcatgcatlgagatgggtctacaaggatgttaaaaagatccatggacgggttatgtatactgtctccaccctcattgataaagccgcttctgcttgggtcttctgggtcaccttccaaggaclocttcgactgcactcctgttgcctcacaacccatgcccttggcgcgaaccgaggtcgtcgtcttcccagccacattgggatgccaccgtgggagcttgcgtgaggggtgcgagatccaagaagactcgggcaatgccctcgtcatgatgtctgaaltcggacctgtgttcaccactcaatctgtagacttgttcaagtctgaagacgccctacatccttgagaatagccagggtcaaggltgacgatttgcgaaggatgttggtacctcaccagcatttacgacaaaagagaatgaccgtcgggtcctgtcggaaacagggttaaccgactggtatgttcgacgaccagccgttgcgttggcaggcttgggacactgaggtgttttcttggtaagaagcagttacattgggtccgagaatgtgactcgtcatctcgtctcttcttggccctcgtcgatcaactgtcgccttcaacttacgaattcaacaaatctgtgtcacaaccgagatttctctcgacgtcaactcgcctcgtgtaactttaaaccaccgtgcgcacttggcatgaaacttgaagtttctaagggttgaatttctgttggacgtccacagtgagictgttcgttacgagttcagtttgggtgttgaagcgccccactcattacaacacctcttgggacgttggccaagtttgaggatgtcgtccacaagtttgcggatctgtccgaactcgaactacggcgtgtccatcttgaatgactgcaagtatggatttgcaccccatgttaatctcatgcgactgtcgtcgtcgtcggggccctaaaggctcccagcgtcatgctgataatgggtcatcatgagttcaagtacggagctccttgcctcacaaggggaccccttgggtgtcacaactgttccggggccgttacaacttcaacaacctcttccgggtcaagttatgttgggtctctcgaagtttccaccaagcaggccctttctcacaaggccctgcgaatcttgggtctcagccagggttaagaggggccgaagttgaccgatctaagaagtcaccaatgtcatcttgcgagtttacgagggtctcggaggccgaactcaggggcaaacctcgttatcgacttgcacaacgttgggtctgtgaccaagacctgtgccttggagtactiocaaggagaaacaggttgttgcgaagagcgagggtgtcacttctgtagacatttctctacgtgttgggttggacctacaaggttgaagttgggttag

FIGURE 3C

MYSHFNNEPVAKRNVNNLFTDRLRQFTSDGEYRSLNLPAFYERERLDGKNHVAIETYAVSD
LRRPLFKDALKEADGHWKPAKKGSEYGPSWATHWFKIQVCVPEWKKNYKKGDLVVFNW
NLNCEGLVFSESGEALIGLSGEERREWPIPDNWFDGKCHTFYIEASCNGMFGNATGSSIQ
PPSDNRYFRLDSADLVVINSEARHLEVDFWIIGDAAREFPGDSWQRGKALDVANKIMDAF
DPENPDESIAEGRKLAKEYLGDTTKAYKQQLPFADGLVYALGNCHIDTAWLWPFATRRK
AGRSWASQLELIDKYPEYVFVASQAQQQFKWLKEDYPDLFAKIQKQAKKGRFLPVGGAWTE
CDTNLPSGESLLRQFLLGQREFLEHFGSLSDTFWLPDTFGYSAQVPQLCRLAGMDRFLTQ
KLSWNNINSFPNSTFNWVALDGSQVLCHMPPNNTYTSMANFGDVSRQTQKNKNDTTRNS
LMLYGHGDGGGGPTAEMLEKLRRRCRGVSNTVGELPPVIQGGSVTDFYNELLDQTNNGKDL
VTWVGELYFEFHRGTYTSQAQTKKGNRVSENLLHDVELLATLASIRDSSYKYPFAQLESL
WEDVCLCQFHDVLFSGSCIEMVYKDVKKIHGRVIDTASHLIDKAASALGLSGHPSKDSFDC
TPVALNTMPWSRTEVVAVPQPHWDATVELAEGVEIQEDSGNALVMMSESGPVVTTQSVDL
FKSEDAYILENSQVKVTICKDDGTLTSTYDKENDRRVLSGTGNRLVLFDDQPLSWQAWDT
EVFSLGKKQYIGAENVTRHSIVSSGPLRSTVAFTYEFNKS SVTTEISLDANSPLVTFNTR
ADWHETCKFLKVEFPVDVHSESASYESQFGVVKRPTHYNTSWDVAKFEVCCHKFAADLSEL
DYGVSILNDCKYGFATHGNLMRLSLLRAPKAPDAHADMGHHEFKYGVLAHKGPLGATTVR
AAYNFENNPLRVKYVGLSEVSTKQAFSLKGPANLVLSQVKRAEVDRSKKSTNVILRVYEAL
GGRTRGKLVIDLPNVVSVTKTCALEYSKEKQVVAKSEGVTSVDISLRAFEVATYKVELA

FIGURE 4

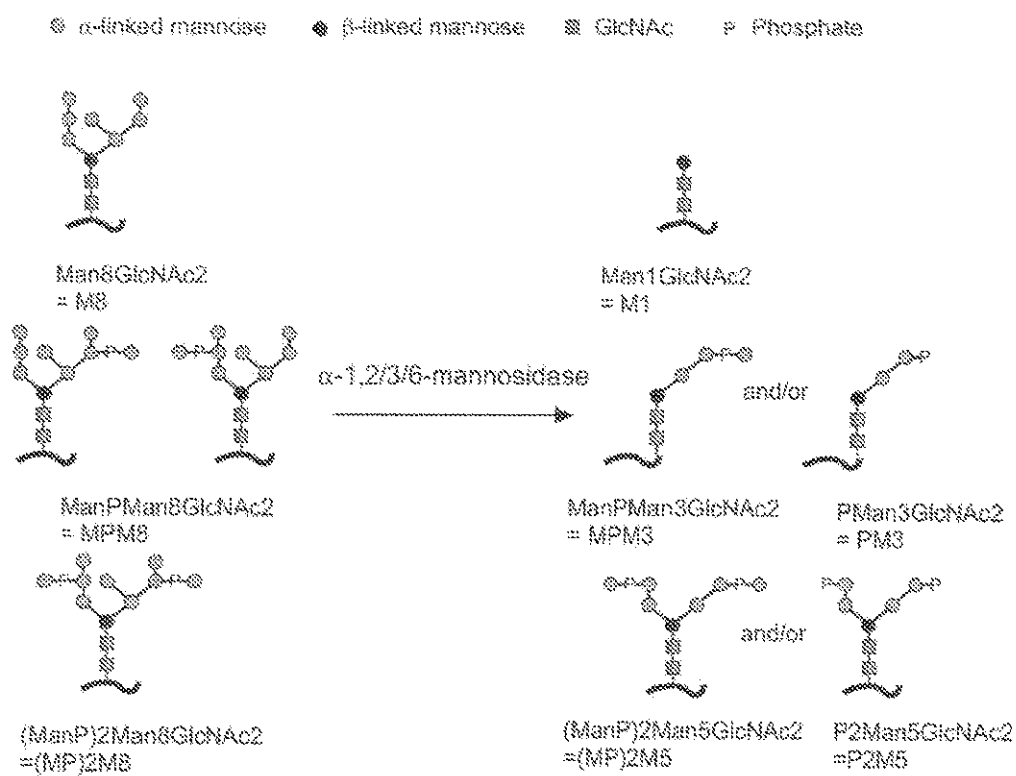
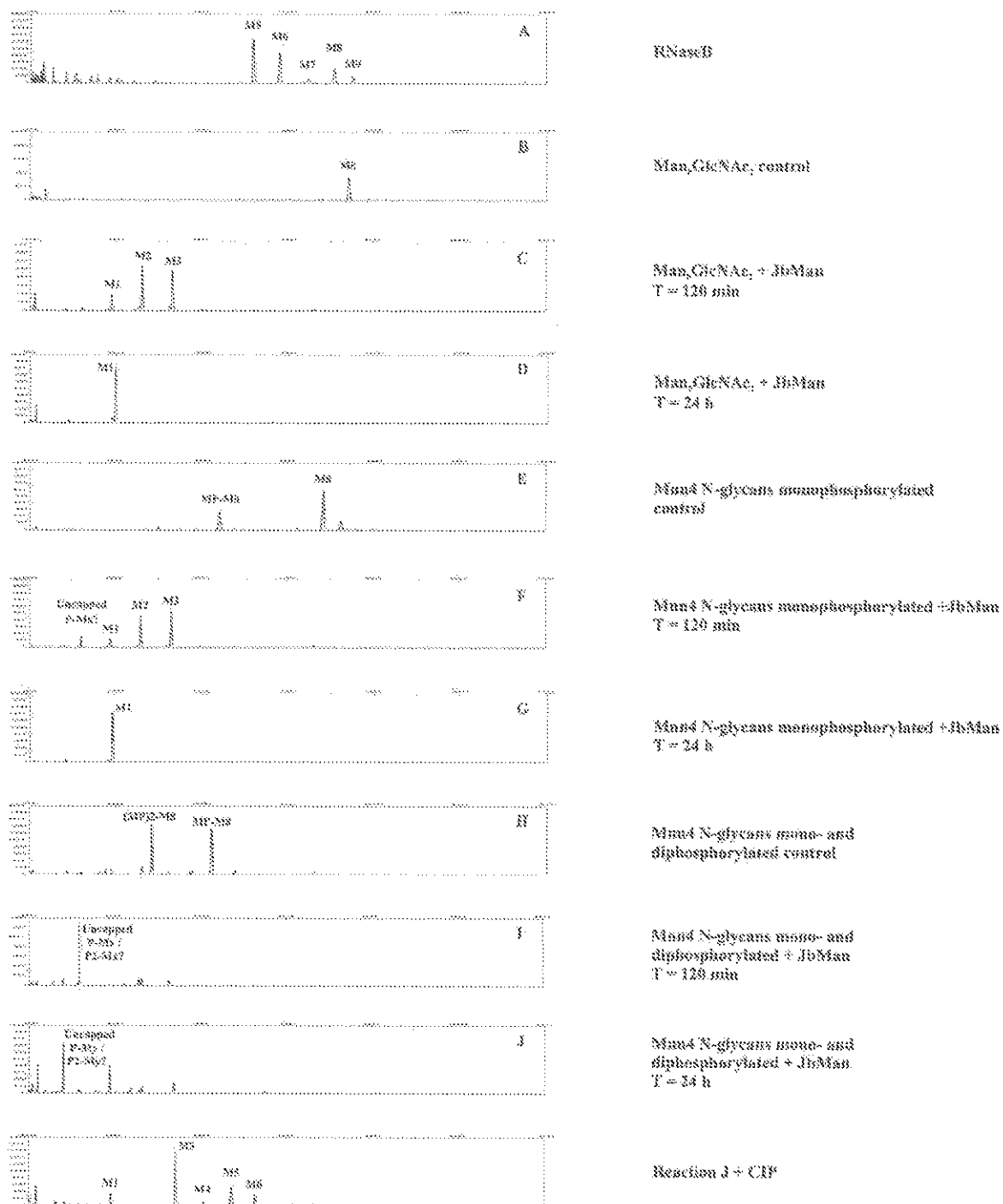
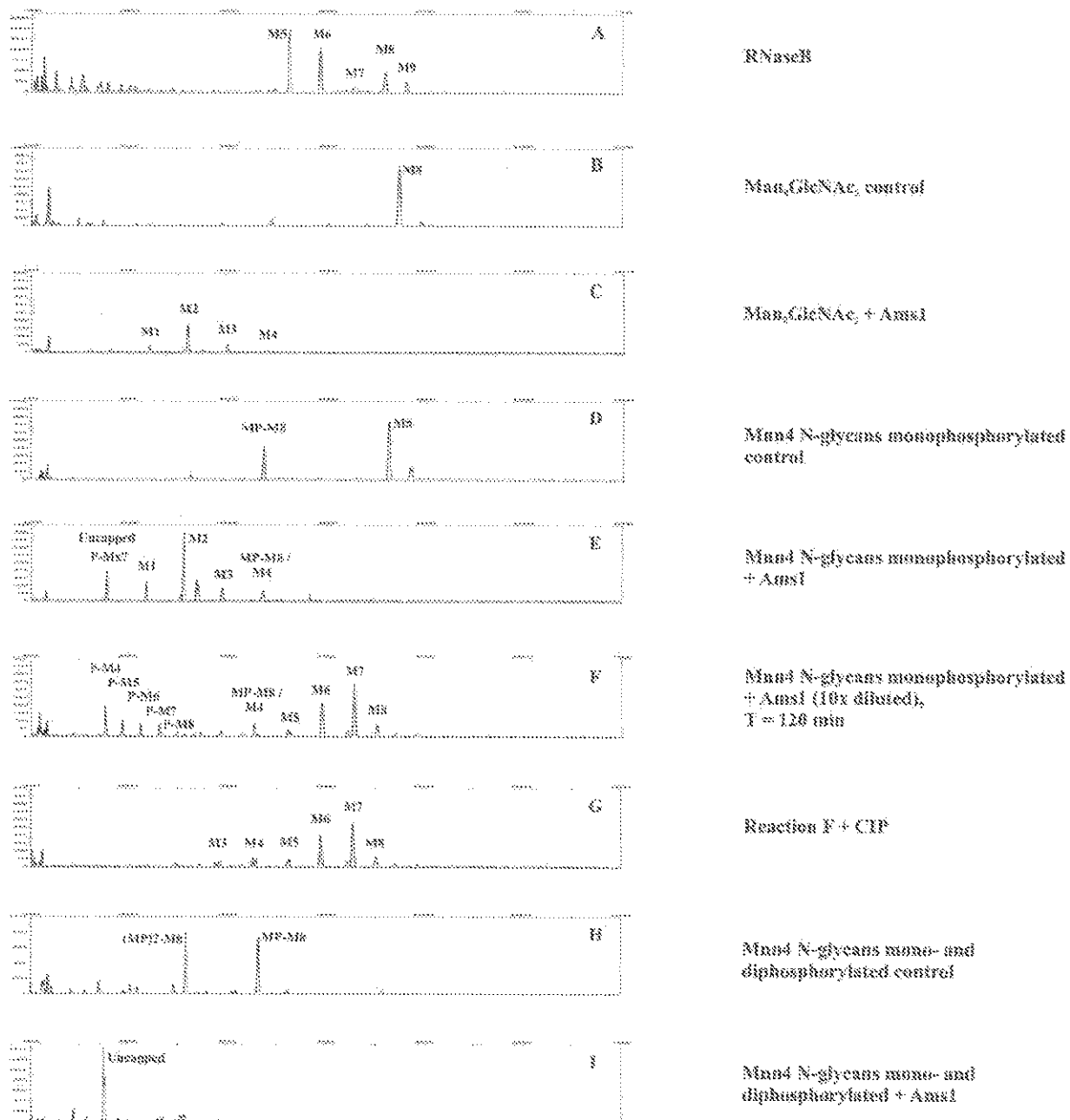


FIGURE 5



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FIGURE 6



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FIGURE 7

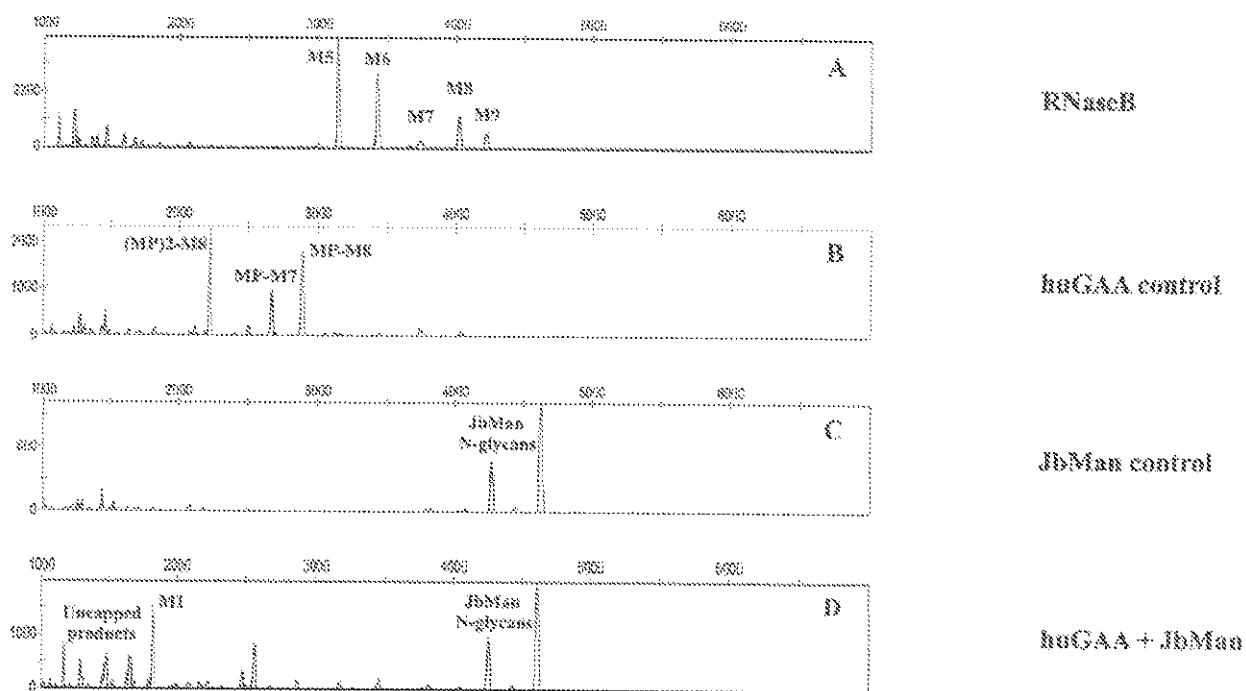


FIGURE 8A.

[illegible]

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FIGURE 8A (CONTINUED)

CCGATGAACCGGCAGAAGGTCCTCGCGTTAGCGCAGAACCGACCACCGTGCAGACCGGT
GATGGTGGTGCACCTGGATGCAACCGTTACCGTGACACTGGATGGCGCACGTCTGGCAGC
ACCGGCAGGTACAGATCTGGTTACCAGCGGTGCAGCAAGCGTTGTTGGTCTGCCGGATG
GTGTTACCGCAGCAGTTACCGTTGCAAGCCCGACCGCACTGACCGTTAGCCTGACCGGC
ACCGCATCAGCAGATGCACGTTTTTTTGTGCATCTGCGTGATGCAGCACTGGCCGATGG
TGTTGCAGCCGCAAGCCTGCAGGGTCAGGGTGTTAGCGTTCGTTCTCCGCTGCGTCTGA
GCGTTGCAAGCGCAGAACGTGATGCACTGGCAGCACTGGTTGATGATGCCGTTCTGGTT
CGTCATGGTAATTATAGCAGCGTTACCTTTGATCGTTTAGCACCGCTCTGACAAAAGCA
CAGGAAGCACTGGGCGACGAAGCAGCAACCAGCATTGCACTGCGTTTTTGAGCAGATCG
TCTGGGTGCAGCAGCAGATGCACTGGATCTGACCGGTGGTGGTTATCGTACCCTGGAAG
CAGAACAGAGCGAAGCATGGTCTGGTGGTGAAGTGAAGCCAATAGCAGCAGC
GGTAATCTGGGTGGTGTTCGTAGCGGTAGCTGGGTTCAGTATCGCGATATGACCTTTGA
AACCGCAGCCGGTGATACACCTCCGCGTTTTCTGACCGTTCGTTATGATACCAGCTTTG
CACCGACCGATACCCCGAGCACCGTTCGTGTTTCATGCCGGTGATGTTTTCTGGTCCGGTT
GTTGCAACCGTTGATCTGAAAGGCACCAGCGGTTGGGGTAAATATACCGAAGTTACCGC
AGAACTGGGTGATGTTACGGCCCTGGTTGATGCCAGGTTGTTACCTTTGAACTGCTGG
CACCGAGCGGTGCTAGCTGGGTGGTAATTTTGATTGGTTTCGCTTTAGCGCAGAAGAT
CCGGCAGCACCGGGTCAGCCTGGTGAAAGCCCGACCGTTACCATTTGAAGCCGAAGATTG
GACCGCAAGCAGCGGTGCTGGTCTGAAAAAGAAAGCAGCACCTGGACCAGCGGTCCGG
TGACCAATGTTGGTGGTACAGCAGATGGTGATTGGATTGCCTATGGTGAAGTTGATCTG
GGTGAAGTCCCGCTGGGCGAACTGAGCGTTCATTATGTGCATAATAGCAATCGCAGCGG
TAATAATAGCGCACTGAGCGTTTATCTGGATGCATTTGATCCGGCTAATCCGGGTGAAC
CGTTTTGTTACCGTTCGCTGCCGACCACCGGTAGCAGTTGGACCGCAGATGGCACAGCC
ACCGTTGTTCTGCCGAAACCGTGACGGGCACCCATGAAGTTTTTGTTCGTCTGAGCAC
CGAACCGTATGCAGATCATCCGTATGTTGCAAATCTGGATAGCCTGACCTTTGCACCGG
GTGGTCCGACCAGCGTTGTGGTTGAAAGCGAAGCCTGGACCAGCAATTCTGGTCTGGC
CTGAAAAATGAATCTTCTACCTGGACCTCTGGTCCGGTTACAAATGTGGGTGGCACCGC
TGATGGCGATTGGCTGGCATATGGCGAAATTGATCTGGGCAGCGCAGCACTGGATCAGC
TGTCTGTGCATTATGTTCAATAATTCTAATCGCTCTGGTCGTAATTCTGCACTGTCTGTG
TATCTGGATGCCTTTGATCCGGCAAATCCGGGTGAACCGTTTTGTGACAGTGCCGCTGGC
AAATACCGGTAGCTCTTGGACCACCGATGGTACTGCAGTTGTGGATCTGCCGTCTACCG
TTCGTGGTAAACATCAGGTTTGGGTTGCTCTGTCTACCGAAGCATATGCCGATCATCCG
TATGTGGCCAATCTGGATTCTATGCGCTTTTTTACCGATGCATATGATGTTGAAGTTCC
TCCGACCGATACAGCAGCACTGGCAGCCGTTGTTGATGCAGCAGGTACACCGGAAGCAG
AAATTGCACGTTATGGTCGTATTGATGCCCGTGTTTTTTACCGGTGAAGTGGCAGCAGCA
CGTAGCGTTCTGGCCGATGCCGGTGCAACACAGGCACAGGCAGATGAACGTGCTCGTCG
TCTGGGTCTGGCAACCGATCAGCTGGTTCCGGCAGAACGTGCTCGTCTGGAAAATCTGG
TTGCCAGCGCAGAAGCACTGACCGACGAAGGTTATTCTCCGGAAAGCTGGCAGGCATTT
CGTACCGCACTGGCTGCTGCAACCGGCACCGTGGATGATGCAGCAGCATCTGATGAAGC
ACTGCATGATGCACGTCTGGCGCTGCAGGGTGCAGTTGATGCACTGGAAGAACCGGCAG
ATGTTGTTCTGGTTGAAGTTGAAGTTTCTCCGCGTTGTCTGGCAGGTAAACCGTATGTT
GCCGTTCTGTCAGTTAATGTTTTCTGATGCAGCCGTTGATGTTGAAGTGGCAAGCTCTCT
GGGCACCCGTAGCTTTGTTGGTGTGGCACCGGGTGCGAGCGCATATCAGAGCTTTGCAG
CCCGTAGCGCAACCGGTGATCTGGATGTTACCGTGACCGCAACCGGTGCAGATGGTACT
CAGACCGTTGAACAGGTTGTGACCGTTCGAGCTGTAGCTAATAA

FIGURE 8B

ALAVVGLAPATAASAAPEPPSADYASLVDVFVGTGDFGNDMPAAQAPNGLAKVNPRTT
PGRNNTGYDYAQSKI SGFTHTNLDGVGGSGGGGDLVVP TSGSYTARPGTGTYAHFESH
DDEDAGPGFY SVGLGNVAGTDGAITGAPGTIEAEVAAATRS GVHRYAFPAGSTPSLVVD
LETNNTSRSSSVQVETRADGTVELSGQVTGYFYNAAYTLYYTARTLQPATVQTWGDDD
RLVDATAQDGVDTGAILTFDPADAGEIGLQVTLSPVSVEQARIDQQVELGDLSFDAIRD
RTRAEWNATLGRVAIDASTATDPTGELQRLFYTHLYRMFAMP MNATSTSGTYRGVDGAV
HAAQGFYYDSWATWDDFRKFSVIAYIDPALYRDMVQSLVYLFADAEATGTGGGLGGFV
HSVPTVRWERSSSVVVADAIKGFDFGFDRLDEAYPALQRLVGQYSADELRRGYVAGNPGA
SVQRGYDQYGLSVIADDELGLTEEAETLREQASWPIEKLTKPGAWTAADGTQVGLLT PRA
ADGSWQSADHAKFEAAGLYQGT LWQYHWYDAYDMDALVEAMGGHEAARLGMRHMFGEHA
PDDGKAMLHNSNANEIDLQAPYLFNYTGEPSLTQKWARAIYTKETWNR YIATGSSSAVPS
GGGEFTPLKTKVYRLDPRGMLPTMDNDAGTMSTM FVAAAVGLFPVTAGSSQFQVGS PF
FDSTTITYDDGSAFTVTADGVSEDAFYVQSATLDGATFGNTWVDYATVVG GADLAFRMG
EQPSDWGTD TAPAFSMSTATDEPAEGPRVSAEPTTVQTDG G GALDATVTLTLDGARLAA
PAGTDLVTSGAASVVG LPDGVTA AVTVASPTALT VSLTGTASADARFFVHLRDAALADG
VAAASLQGGQGVSVRSPLRLSVASAERDALAALVDDAVLVRHGNYS SVTFDRFSTALTKA
QEALGDEAATSIALRFAADRLGAAADALDLTG GGYRTLEAEQSEAWSGGELKNEANSSS
GNLGGVRSGSWVQYRDMTFETAAGDTPERFLT VRYDTSFAPTDTPSTVRVHAGDVSGPV
VATVDLKGTSWGWKYTEVTAE LGDVQALVDAQVVT FELLAPSGRSWVG NFDWFRFSAED
PAAPGQPGESPTVTIEAEDWTASSGRGLKKE SSTWTSGPVTNVGGTADGDW IAYGEVDL
GELPLGELSVHYVHNSNRSGNNSALSVYLD AFDPANPGE PFVTVPLPTTGSSWTADGTA
TVVLPETVQGTHEVFVRLSTEPYADHPYVANLDSLTFAPGGPTSVVVESEAWTSNSGRG
LKNESSTWTSGPVTNVGGTADGDW LAYGEIDLGSAALDQLSVHYVHNSNRSGRNSALSV
YLDAFDPANPGE PFVTVPLANTGSSWTTDGTAVVDLPSTVRGKHQVWVRLSTEAYADHP
YVANLDSMRFFTDAYDVEVPPTDTAALAAV VDAAGTPEAEIARYGRIDARVFTRELAAA
RSVLADAGATQAQADERARRLGLATDQLVPAERRRLENLVASAEALTDEGYSPESWQAF
RTALAAATGTLDDAAASDEALHDARLALQGA VDAALEEPADVVLVEVEVSPRCLAGKPYV
AVRAVNVSDAAVDVELASSLGTRSFVGVAPGASAYQSFAARSATGDLDVTVTATGADGT
QTVEQVVTVPSCS (SEQ ID NO: 7)

FIGURE 8C

APEPPSADYASLVDVVFVGTGEGDFGNDMPAAQAPNGLAKVNPRTTPGRNNTGYDYAQSKIISGF
THTNLDGVGSGGGGDLVVPVPTSGSYTARPGTGTYAHFFSHDDEDAGPGFYSVGLGNVAGTD
GAITGAPGTIEAEVAAATRSVGHRYAFPAGSTPSLVVDLETNNTSRRSSSVQVETRADGTVE
LSGQVTGYFYNAAYTLYYTARTLQPATVQVTWGDDRLVDATAQDGVDTGAILTFDPADAGEI
GLQVTLSPVSVEQARIDQQVELGDLSDAIRDRTRAENATLGRVAIDASTATDPTGELQRL
FYTHLYRMFAMPNATSTSGTYRGVDGAVHAAQGETTYDWSWATWDDERKFSVIAYIDPALYR
DMVQSLVYLFADAEATGTGGGLGGFVHSVPTVRWERSVSVVADAIKGFDFDRLDEAYPAL
QRLVGQYSADELRRGYVAGNPGASVQRGYDQYGLSVIADELGLTEEAETLREQASWPIEKLT
KPGAWTAADGTQVGLLTPRAADGSWQSADHAKFEAAGLYQGTWQYHWDAYDMDALVEAMG
GHEAARLGMRFHMFGEHAPDDGKAMLHSNANEIDLQAPYLENYTGEPSLTQKWARAIYTKETW
NRYIATGSSSAVPSGGGEFTPLKTKVYRLDPRGMLPTMDNDAGTMSTMVFVAAVGLFFPVTA
GSSQFQVGSPPFDSTTITYDDGSAFTVTADGVSEDAFYVQSATLDGATFGNTWVDYATVVG
ADLAFRMGEPQSDWGTDTAPAFSMSTATDEPAEGPRVSAEPTTVQTDGGGALDATVTTLTLDG
ARLAAPAGTDLVTSGAASVVGLPDGVTAAVTVASPTALTVSALTGTASADARFFVHLRDAALA
DGVAASLQGGQVSVRSPLRLSVASAERDALAALVDDAVLVVRHGNYSVTFDRFSTALTKAQ
EALGDEAATSIALRFAADRLGAAADALDLTGGGYRTLEAEQSEAWSGGELKNEANSSSGNLG
GVRSGSWVQYRDMTFETAAGDTPPRFLTTRYDTSFAPTDTPSTVRVHAGDVSGPVVATVDLK
GTSGWGKYTEVTAEELGDVQALVDAQVVTPELLAPSGRSWVGNEFDWFRFSAEDPAAPGQPGES
PTVTIEAEDWTASSGRGLKESSTWTSGPVTNVGGTADGDWIAYPEVDLGEPLGELSVHYV
HNSNRSGNNSALSVYLDADFDPANPGEFVTVPLPTTGSSWTADGTATVVLPETVQGTHEVFV
RLSTEPYADHPYVANLDSLTFAPGGPTSVVVESEAWTSNSGRGLKNESSTWTSGPVTNVGGT
ADGDWLAYGEIDLGSAALDQLSVHYVHNSNRSGRNSALSVYLDADFDPANPGEFVTVPLANT
GSSWTTDGTAVVDLPSTVRGKHQVWVRLSTEAYADHPYVANLDSMRFFTDAYDVEVPPTDTA
ALAAVVDAAGTPEAEIARYGRIDARVFTRELAAARSVLADAGATQAQADERARRLGLATDQL
VPAERRRLENLVASAEALTDEGYSPESWQAFRTALAAATGTLDDAAASDEALHDARLALQGA
VDALEEPADVVLVEVEVSPRCLAGKPYVAVRAVNVSDAAVDVELASSLGTRSFVGVAPGASA
YQSFAARSATGDLDDVTVTATGADGTQTVEQVVTVPSCS (SEQ ID NO:8)

FIGURE 9A

DsbA-6xHis-CcMan4 (107bp - 5494bp, direct) 5388bp from
pLSAHCCMan4

ATGAAAAAGATTTGGCTGGCGCTGGCTGGTTTAGTTTTAGCGTTTAGCGCATCGGCCGG
CCATCACCATCATCACCACGTGGGGCCCGGCTCGGACGAAGTGGATGCAGAACCGGGTG
ATTTTAGCAGCAGCTTTGAATCTGGCGATCCGGCAGCACTGCCGACCACCGTTGCAGAA
CGTGATGGTGCACCGTGGCAGGCAAATGTTGGTAGCTTTACCGCAGGTCTGCCTGGTAG
CGTTCTGGGTGAGCTGAAAGGTGTTACCGCAAGCGCACAGAATCTGCCGAATGAAGGTG
CAGCAAATCTGGCAGATGGTAGCAGCGGCACCAAATGGCTGGCATTTCGAAGCACCGGT
TGGGTTCGTTATGAATTTGCAGAACCGGTTAGCTTTGTTGCATATAACCATGACCAGCGG
TGATGATGCCGAGGTCTGATCCGAAAACCTGGACCGTTGAAGGTAGCAATGATGGTT
CTACCTGGGCAGCACTGGATCGTCGTACCGATGAAGATTTTCCGAATCGTCAGCAGACC
CGTACCTTTGAACTGGAAGCACCGACCGCAGCATATACCTATCTGCGTCTGAATGTTAC
CGCAAATAGCGGTGATAGCATTGTTGAGCTGGCAGGTTGGGATCTGAGCGCAGATCTGT
CTGCAGGTCCGAGCGCAGCACCGATGACCACCAAAGTTGGCACCGGTCCGCGTGTTAGC
TTTACCAATAAAGCCGGTGTGGTTTTAGCGGTCTGCATAGCCTGCGTTATGATGGTAG
CCATCTGGCCGATGGTGAAACCTATGCAACCAATGTGCTGTATGATGATGTTGATGTTG
TGGTTGGTGAAGATAACCGTCTGAGCTATACCATTTTCCGGAACCTGCTGGATGATCTG
CAGTATCCGAGCACCTATGCAGCAGTTGATGTTCTGTTTACCGATGGCACCTATCTGAG
CGATCTGGGTGCACGTGATGCACATGAAACCGTTGCAACCGCACAGGCACAGGGTGAAG
GTAAAATTCTGTATGCCGATCAGTGGAATAGCGTTCGTGTTGATCTGGGTGATGTTGCA
GAAGGTAAAACCGTTGATCAGGTTCTGCTGGGTTATGATAATCCGGGTGGTCATGCAGG
CACCAAATTTGCAGGTTGGCTGGATGATGTTGAAATTACCGCAGAACCGGCAACCATTG
ATGGTAGCTCACTGGCAAATTATGTTGATACCGTCTGTCGACCCCTGGCAACCGGTAGC
TTTAGCCGTGGTAATAATATTCCGGCAACCGCAACCCCGAATGGTTTTAATTTTGGAC
CCCGTATACCAATGCAAGCAGCCAGAGCTGGCTGTATGAATATCATAAAGCCAATAATG
CGAATAATAAACCAGTTCTGCAGGGTTTTGGTATTAGCCATGAACCGAGCCCGTGGATG
GGTGATCGTAATCAGCTGACCTTTCTGCCGAGCACCGCAAGCGGTACACCGGATGCAAC
CCTGAGCACCCGTGGTCTGGAATTTGATCATGCAGATGAAACCGCACGTCCCGGATTATT
ATGGTGTGACCTTTACCAATGGTAGCGCAATTGAAGCAACCCCGACCGATCATGGTGCA
GTTCTGCGTTTTAGCTATCCGGGTGCAAAAGGTCATGTTCTGGTGGATAAAGTTGATGG
TAGCAGTAAACTGACCTATGATCAGGCAACCGGCACCATTAGCGGTTGGGTTGAAAATG
GTAGCGGTCTGAGCGTTGGTCTGACCCGTATGTTTTGTTGCAGGCACCTTTGATCGTAGC
CCGACCGCAGTTGGCACAGCAGCAGGTAATCGTGCAGATGCACGTTTTGCAACCTTTGA
AACCAGCAGCGATAAAAACCGTGGAACCTGCGTGTTGCAACCAGCTTTATTAGCCTGGATC
AGGCACGTAAAAATCTGGATCTGGAAGTTACCGGTAAAACCTTTACCGAAGTTAAAGCA
GCAGCAGCACAGGCATGGAATGATCGTCTGGGTGTTATTGAAGTTGAAGGTGCAAGCGA
AGATCAGCTGGTTACCCCTGTATAGCAATCTGTATCGCCTGAATCTGTATCCGAATAGCC
AGTTTGAAAATACCGGCACCGCACAGGAACCGGTTTATCGTTACGCATCTCCGGTTAGC
GCAACCACCGGTAGCGCAACCGATACCCAGACCAATGCCAAAATTGTGGATGGCAAAT
TTATGTGAATAATGGCTTTTGGGATACCTATCGTACCGCATGGCCTGCATATAGCCTGC
TGTATCCGGAACCTGGCAGCAGAACTGGTTGATGGTTTTGTTTCAGCAGTATCGTGATGGT
GGTTGGATTGCACGTTGGAGCAGTCCGGGTATGCAGATCTGATGACCGGTACAAGCTC
TGATGTTGCATTTGCAGATGCCTATCTGAAAGGTAGCCTGCCGACCGGTACAGCACTGG
AAGCATATGATGCAGCACTGCGTAATGCAACCGTTGCACCTCCGAGCAATGCAGTTGGT

FIGURE 9A (CONTINUED)

CGTAAAGGTCTGCAGACAAGCCCGTTTCTGGGTTTTACACCGGAAAGCACCCATGAAAG
CGTTAGCTGGGGTCTGGAAGGTCTGGTTAATGATTTTGGCATTGGCAATATGGCTGCAG
CACTGGCAGAAGATCCGGCAACACCGGAAGAAGCTCGTGAAACCCTGCGTGAAGAAAGC
GCATATTTTCTGGAACGTGCCACCCATTATGTTGAACTGTTTGATCCGGAAGTGGATTT
TTTTGTTCCGCGTCATGAAGATGGTACATGGGCAGTTGATCCGGAACCTATGATCCGG
AAGCATGGGGTGGTGGTTATACCGAAACCAATGGCTGGAATTTTGCATTTTCATGCACCG
CAGGATGGTCAGGGTCTGGCAAATCTGTATGGTGGTAAACAGGGTCTGGAAGATAAACT
GGATGAATTTTTTAGCACACCGGAAAAAGGTGCAGGTAATGGTGGTATTCATGAACAGC
GTGAAGCACGTGATGTTCTGTATGGGTGAGTGGGGTATGAGCAATCAGGTTAGCCATCAT
ATTCCGTGGCTGTATGATGCAGCCGGTGCTCCGAGCAAAGCACAGGAAAAAGTTCGCGA
AGTTACCCGTCGTCTGTTTGGTGGTAGCGAAATTGGTCAGGGTTATCCGGGTGATGAAG
ATAATGGTGAAATGTCCTCCTGGTGGATTTTGAAGCCTGGGTTTTATCCGCTGCAG
GTTGGTAGCGATCAGTATGCAGTTGGTTCCTCCGCTGTTTGATAAAGCAACCGTTCATCT
GCCGGATGGTGATCTGGTTGTTAATGCCGAAAATAATAGCGTGGATAATGTGTATGTTT
AGAGCCTGGCAGTTGATGGTGAAGCACGTACCAGCACCGCTGAGCCAGGCAGATCTG
AGCGGTGGCACCCACCTGGATTTTGTATGGGTCCGGAACCGAGCGATTGGGGCACCCG
TGAAGATGATGCACCTCCGTCACTGACCGAAGGTGATGAACCTCCGACACCGGTTACAG
ATGCAACCAACCGCAGGCCTGGGCACCAACCGGTTGCCGATGGTGATGCCACCACTCT
GCAGCAGCCCTGACCGATAATACCAGCGGCACCCGTACCACCTTTGCAACCAACCAACCC
GAGCATTACATGGGCAGGTAATGGCATTCTGTCGACCGTTGGTAGCTATACCCTGACCT
CTGGTGCAAGCGGCACCGCAAGCCCGTCTGCATGGACCCTGGAAGGTTCTGATGATGGC
GAAACCTGGACCACACTGGATGAACGTAGCGGTGAACAGTTTCGTTGGGCACTGCAGAC
CCGTCCGTTTACCCTTGCCGAACCGACCGCATTTGCACGTTATCGTGTTACCCTTACCG
CAACCAGCGGTTCTGGTGCAGTGAAGCTGGCAGAAAGTTGAACTGCTGGCAGATCCGAAA
GAAAGCGGTGCAGAAAGAACTGACCCGTCTGCAGCACCGGATCGTGATGGCGTTACCGG
TCGTGAAGTTAGCGGTTCTTTTGCAACCCGTGACCGGTGTTGAAGGTGATGTTGCCGCAC
TGGATGTTACGGTTGCATTTGGTGATGGTAGCGAACCGGTTGCAGGTACACTGCCGTGCC
GGTGCAATTTGGTGGTTATGCAGTTGATGCAGCACATACCTGGACCGCACCGGGTGTGTTA
TCCGGTTACCGTGACCGTTAGCGGTGAAGGTATTGAAACCGTTAGCGCAAGCAGCTATG
TTAGCGTTAGCCTGCTGCGTGAAGGTTCTCTGCTGGCAGCATATGATAATGTGTGCATT
GGTGATGCAGGTACAACCGTTGGTTCTTGTGATGGTCAGGGCGTTTTTTTTTGATCGTGC
ACAGCTGGCAGCAAAAGGTTTTGTGCAGGGTGAACGTGCAACCGTTCCGGGTACAGATC
TGGCATTGATGTTCCGGCAGTTCCGGCTGGTCAGCCTGATAATGCAACCGGTGATGGT
CAGACCATTGAACTGGATGTTCCGGCTGATGCAGAACAGCTGAGCGTTATTGGCACCGG
CACCGAAAAAATCAGCAGGCAACCGGTACACTGACCTTTGATGATGGTTCTACCCAGC
CGATTGATCTGAGCTTTGGTGATTGGAGCGGTGCAGCACGTAATCCGGTGTGTTGGTAAT
ATCCCGTTGCAGTTACCGATAGCCGTCTGCGTGGTGGTCTCCGCAGACCGGTACACC
GGCAGCATTTTTTGCCACCGCACCGATTACCCTGCCGGAAGGTAAACGTCCGGTTAGCC
TGACCCTGCCGATCAGCCTGGTGAACGTGAGCCGTGATGGTCTGATTCATGTTGTTGCA
GTTGCACATGATGGCACCTTTGCAGAACATCCTGCACTGGAAGTGACCGCAGCAGAAGG
TGTTACCCCTGGCAGTTGGTCAGACCTCAGATGTTGCACTGGCACAGGTTGCCGGTGGTC
GTGAAGGTGCAGATCTGCGTGCCGCAGTTACCTGGGGTGATGGTTCTGATGTGGCAGCC
GGTGCCGTTACCGATGGTAGCGTTAGCGGTAGCCATGCATATACCGCAGCAGGCACCTA

FIGURE 9A (CONTINUED)

TACCGCATATGTTGTTGTGGATGATGGTTGGACCAGCCAGGTTGTTGAAGTTCCGGTGA
CCGTTACAGAAGCCGAACCGGCACTGGCCGTTGATGTCACCGTTAGCACCCGTTGCCTG
GCAGGTAAAGCATATGTTGCAGTGCGTGCAGAAAATGGTGAAGATGTTCCGCTGGCAAT
TCGTCTGGTTACCCCGTTTGGCACCAAAGAAGTTGCAGCAGTTGCTCCGGGAGCCAATG
CATATCAGAGCTTTGCAACCCGTGTTACCGCAGTTGAAGCAGGCACCGTTACCGTTGAA
GCCACCCGTGGCACCGGTGATGAAGAAGTTACCGCCAGCATTCAGGCAGATTATGCAGC
CGTTACCTGCGGTTAATAA

FIGURE 9B

MTRPLPPGRAVARSGSGRARPLGLVLAAALAVPLGVPLAAPAGALAAAPAAAAEPGDFS
SSFESGDPAALPTTVAERDGA PWQANVGSFTAGLPGSVLGQLKGV TASAQNLPNEGAAN
LADGSSGTKWLAFASTGWVRYEFAEPVSFVAYTMTSGDDAAGRDPKTTWTVEGSNDGSTW
AALDRRTDEDFPNRQQTRTFELEAPTAAYTYLRLNVTANS GDSIVQLAGWDL SADLSAG
PSAAPMTTKVGTGPRVSFTNKAGVGFSGLHSLRYDGSHLADGETYATNVLYDDVDVVVG
EDTRLSTYTFPELLDDLQYPSTYAAVDVLFPTDGT YLSDLGARDAHETVATAQAQEGEKI
LYADQWNSVRVDLGDVAEGKTV DQVLLGYDNFGGHAGTKFAGWLDDVEITAEPATIDGS
SLANYVDTRRGTLASGSFSRGNNIPATATPNGFNFWTPYTNASSQSWLYEYHKANNANN
KPV LQGFGISHEPSPWMGDRNQLTFLPSTASGTPDATLSTRGLEFDHADETARP DY YGV
TFTNGSAIEATPTDHGAVLRFSYPGAKGHVLVDKVDGSSKLT YDQATGTISGWVENGGSG
LSVGRTRMFVAGTFDRSPTAVGTAAGNRADARFATFETSSDKTVELRVATSFISLDQAR
KNLDLEVTGKTFTEVKAAAAQAWNDR LGVIEVEGASEDQLVTLYSNLYRLNLYPNSQFE
NTGTAQEPVYRYASPV SATTG SATDTQTNAKIVDGKIYVNNGFWDTYRTAWPAYSLLYP
ELAAELVDG GFVQQYRDGGWIARWSSPGYADLMTGTSSDVAFA DAYLKGSLPTGTALEAY
DAALRNATVAPPSNAVGRKGLQTS PFLGFTPESTHESVSWGLEGLVND FGI GNMAAALA
EDPATPEERRETLREESAYFLERATHYVELFDPEVDFFVPRHEDGTWAVDPETYDPEAW
GGGYTETNGWNFAFHAPQDGQGLANLYGGKQGLEDKLDEFFSTPEKGAGNGGIHEQREA
RDVRMGQWGMSNQVSHHIPWLYDAAGAPSKAQEKVREVTRRLFVGSEIGQGYPGDEDNG
EMSSWWIFASLG FYP LQVGS DQYAVGSPLEFDKATVHL PDGDLV VNAENNSVDNVYVQSL
AVDGEARTSTSLSQADLSGGTTLD FVMGPEPSDWGTGEDDAPPSLTEGDEPPTPVQDAT
TAGLGTTTVADGDATTSAAALTDNTSGTRTTTFATTTPSITWAGNGIRPTVGSYTLTSGA
SGTASPSAWTLEGSDDGETWTTLDERSGEQFRWALQTRPFTVAEPTAFARYRVTVTATS
GSGALSLAEVELLADPKESGA EELTLSAAPDRDGV TGREVSGSFATLTGVEGDVAALDV
QVAFGDGSEPVAGTLRAGAFGGYAVDAAHTWTAPGVYPVTVTVSGEGIETVSASSYVSV
SLLREGSLLAAYDNVCIGDAGTTVGSCDGQGVFFDRAQLAAKGFVQGERATVPGTDLAF
DVPAPVAGQPDNATGDGQTIELDVPADAEQLSVIGTGTEKNQQATGTLTFDDGSTQPID
LSFGDWSGAARNPVFGNIPVAVTDSRLRGGSPQTGT PAAFFATA PITLPEGKRPVSLTL
PDQPGELSRDGRIHVVAVAHDGTFAEHPALEVTA AEGVTLAVGQTS DVALAQVAGGREG
ADLRAAVTWGDGSDVAAGAVTDG SVSGSHAYTAAGTYTAYVVVDDGWT SQVVEVPVTVT
EAEPALAVDVTVSTRCLAGKAYVAVRAENGEDVPLAIRLVTPFGTKEVA AVAPGANAYQ
SFATRVTA VEAGTVTVEATRGTGDEEVTASIQADYAAVTCG

FIGURE 9B (CONTINUED)

MTRPLPPGRAVARSGSGRARPLGLVLAAALAVPLGVPLAAPAGALAAAPAAAAEPGDFS
SSFESGDPAALPTTVAERDGA PWQANVGSFTAGLP GSVLGQLKGV TASAQNLPNEGAAN
LADGSSG TKWLAFAS TGVRYEFAEPVSFVAYTMTSGDDAAGRDPKTWTVEGSNDGSTW
AALDRRTDEDFPNRQQTRTFELEAPTAAYTYLRLNVTANS GDSIVQLAGWDL SADSAG
PSAAPMTTKVGTGPRVSFTNKAGVGFSGLSLRYDGSHLADGETYATNVLYDDVDVVVG
EDTRLSTYTFPELLDDLQYPSTYAAVDVLFDTGTYLSDLGARDAHETVATAQAQGEKGI
LYADQWNSVRVDLGDVAEGKTV DQVLLGYDNPGGHAGTKFAGWLDDVEITAEPATIDGS
SLANYVDTRRGT LASGSFSRGNNIPATATPNGFNFWTPYTNASSQSWLYEYHKANNANN
KPV LQGFGISHEPSPWMGDRNQLTFLPSTASGTPD ATLS TRGLEFDHADETARPDYYGV
TFTNGSAIEATPTDHGAVLRFSYPGAKGHVLVDKVDGSSKLT YDQATGTISGWVENGSG
LSVGRTRMFVAGTFDRSPTAVGTAAGNRADARFATFETSSDKTVELRVATSFISLDQAR
KNLDLEVTGKTFTEVKAAAAQAWNDRLGVIEVEGASEDQLVTLYSNLYRLNLYPNSQFE
NTGTAQEPVYRYASPV SATTGSATDTQTNAKIVDGKIYVNNGFWD TYRTAWPAYSLLYP
ELAAELVDG FVQQYRDGGWIARWSSPGYADLMTGTSSDVAFA DAYLKGSLPTGTAL EAY
DAALRNATVAPPSNAVGRKGLQTS PFLGFTPESTHESVSWGLEGLVND FGI GNMAAALA
EDPATPEERRETLREESAYFLERATHYVELFDPEVDFFVPRHEDGTWAVDPETYDPEAW
GGGYTETNGWNFAFHAPQDGQGLANLYGGKQGLEDKLDEFFSTPEKGAGNGGIHEQREA
RDVRMGQWGM SNQVSHHIPWLYDAAGAPSKAQEKVREVTRRL FVGSEIGQGYPGDEDNG
EMSSWWIFASLG FYP LQVGS DQYAVGSPLFDKATVHL PDGDLVVNAENNSVDNVYVQSL
AVDGEARTSTSLSQADLSGGTTLDFVMGPEPSDWGTGEDDAPPSLTEGDEPPTPVQDAT
TAGLGTTTVADGDATTSAAALTDNTSGTRTTT FATTTPSITWAGNGIRPTVGSYTLTSGA
SGTASPSAWTLEGSDDGETWTTLDERSGEQFRWALQTRPFTVAEPTAFARYRVTVTATS
GSGALSLAEVELLADPKESGAEE LTLSAAPDRDGV TGREVSGSFATLTGVEGDVAALDV
QVAFGDGSEPVAGTLRAGAFGGYAVDAAHTWTAPGVYPVTVTVS GEG IETVSASSYVSV
SLLREGSLLAAYDNVCIGDAGTTVGSCDGQGVFFDRAQLAAKGFVQGERATVPGTDLAF
DVPAPVAGQPDNATGDGQTIELDV PADAEQLSVIGTGTEKNQQATGTLTFDDGSTQPID
LSFGDWSGAARNPVFGNIPVAVTD SRLRGSPQTGT PAAFFATAPITLPEGKRPVSLTL
PDQPGELSRDGR IHVVAVAH DGTFAEHPALEVTAAEGVTLAVGQTS DVALAQVAGGREG
ADLRAAVTWGDGSDVAAGAVTDG SVSGSHAYTAAGTYTAYVVVDDGWTSQVVEVPVTVT
EAEPALAVDVTVSTRCLAGKAYVAVRAENGEDVPLAIRLVTPFGTKEVA AVAPGANAYQ
SFATRVTAVEAGTVTVEATRGTGDEEVTASIQADYAAVTCG (SEQ ID NO:10)

FIGURE 10

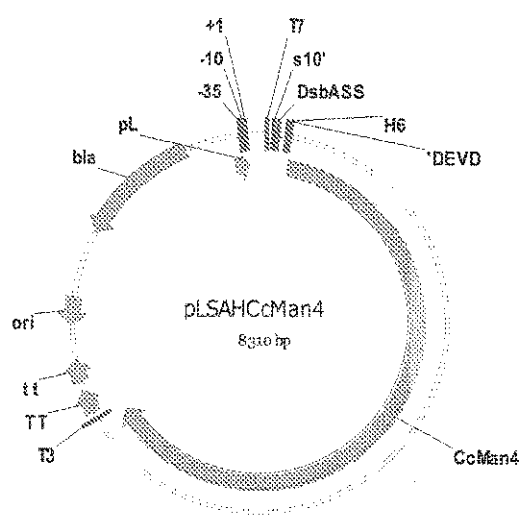
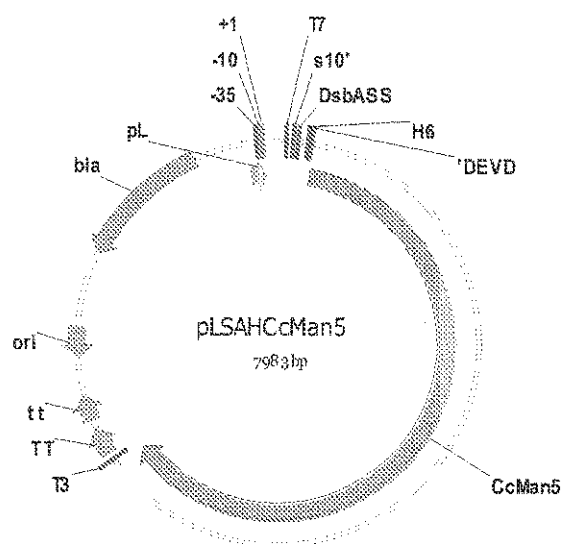


FIGURE 11

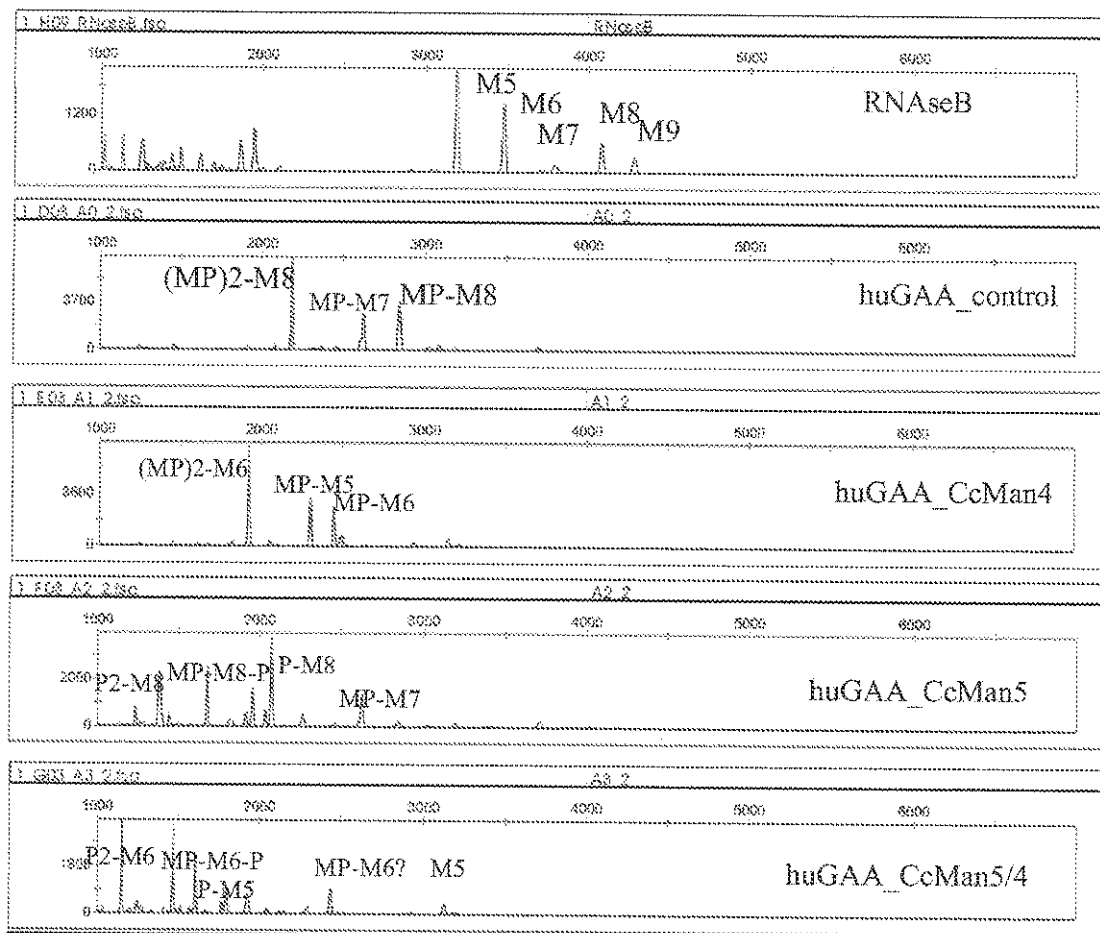


FIGURE 12

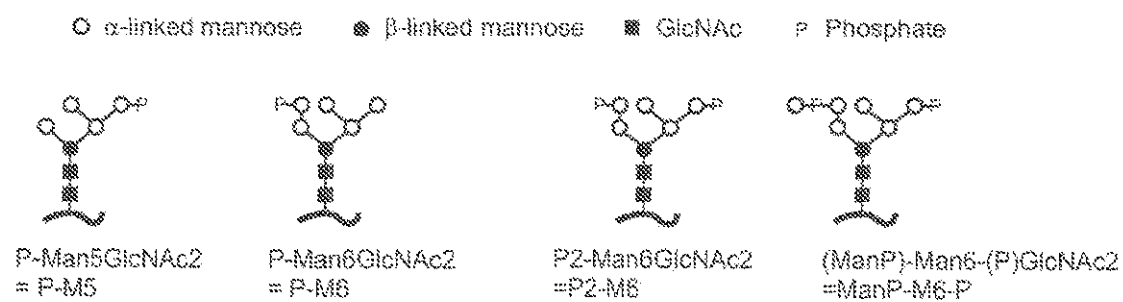


FIGURE 13

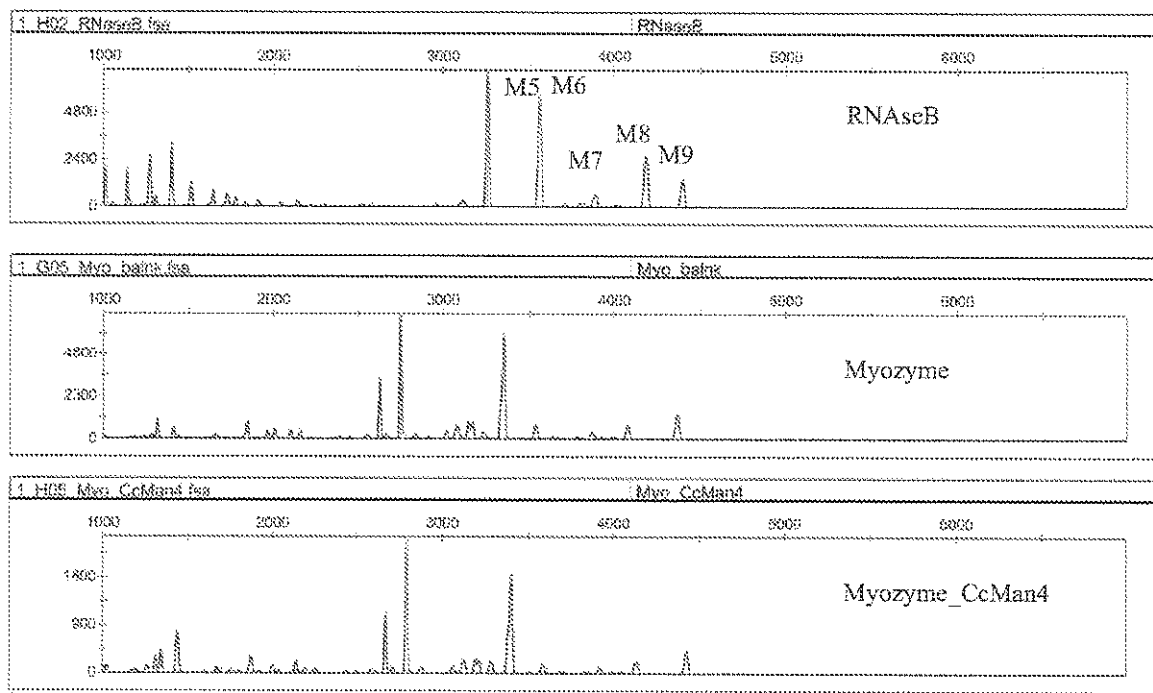


FIGURE 14

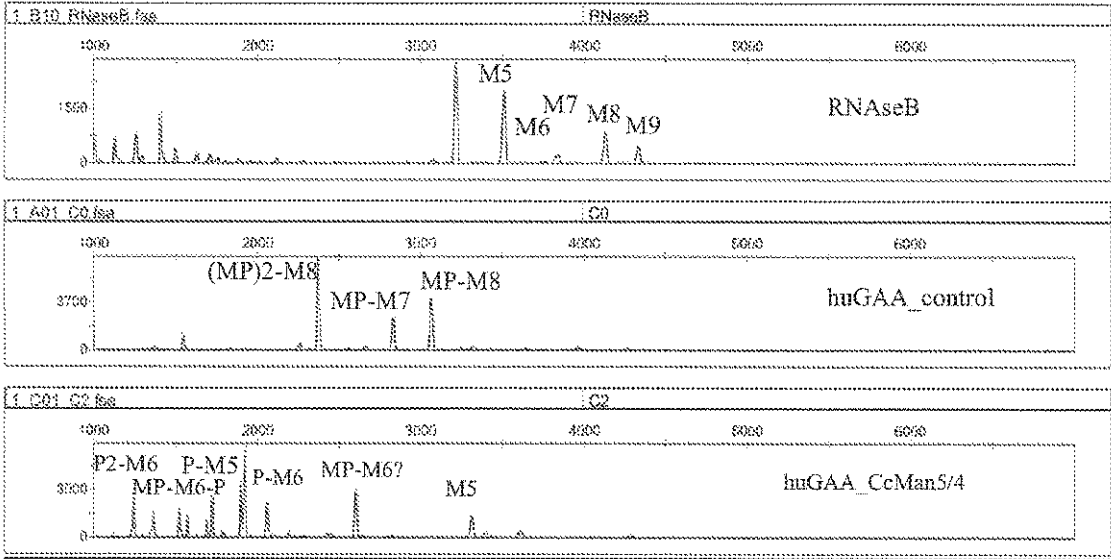


FIGURE 15

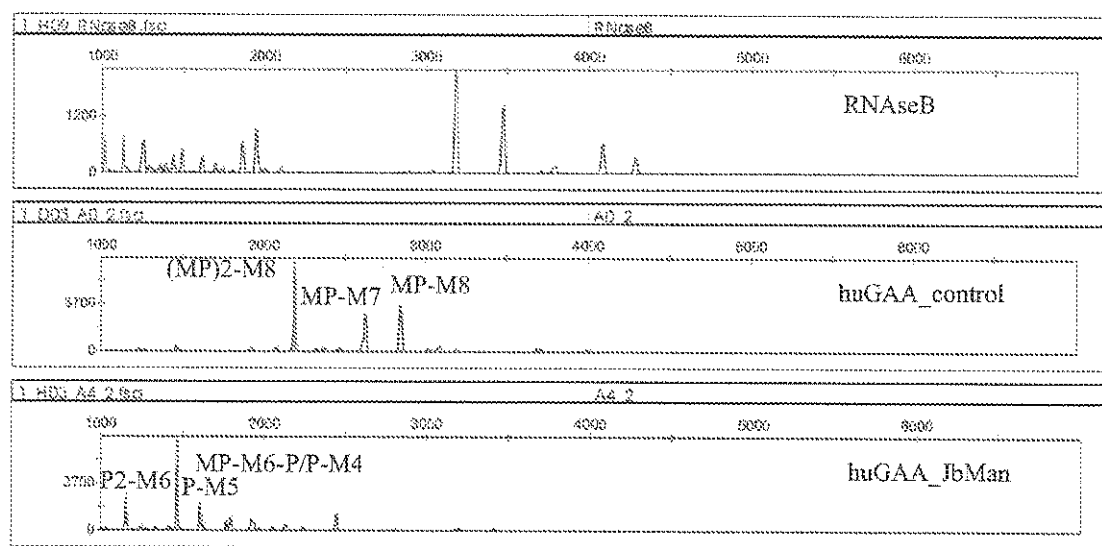


FIGURE 16

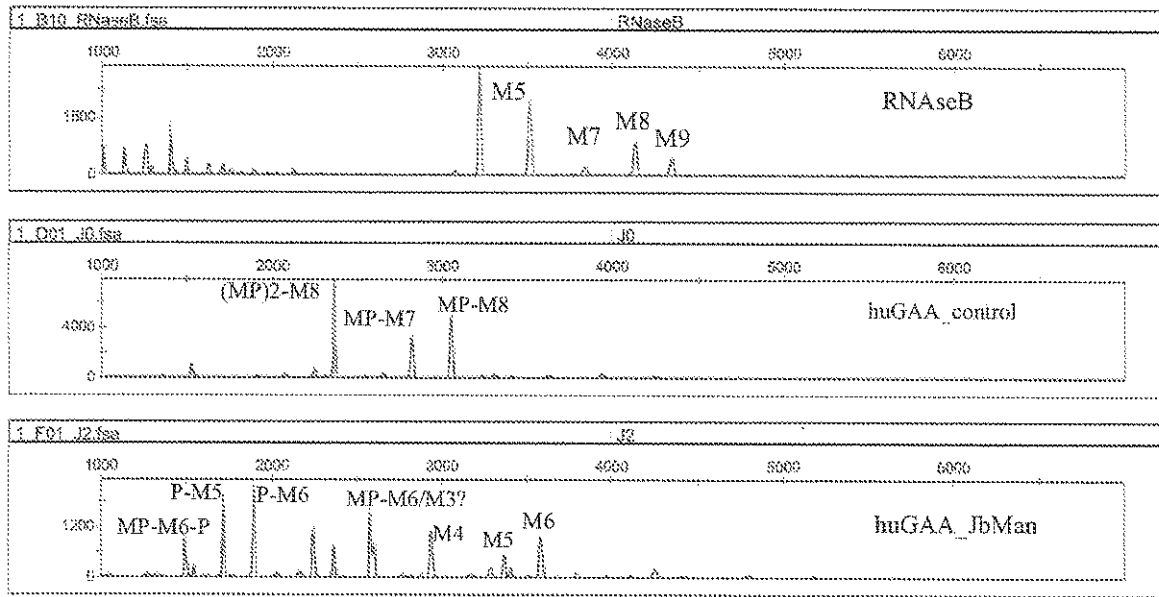


FIGURE 17

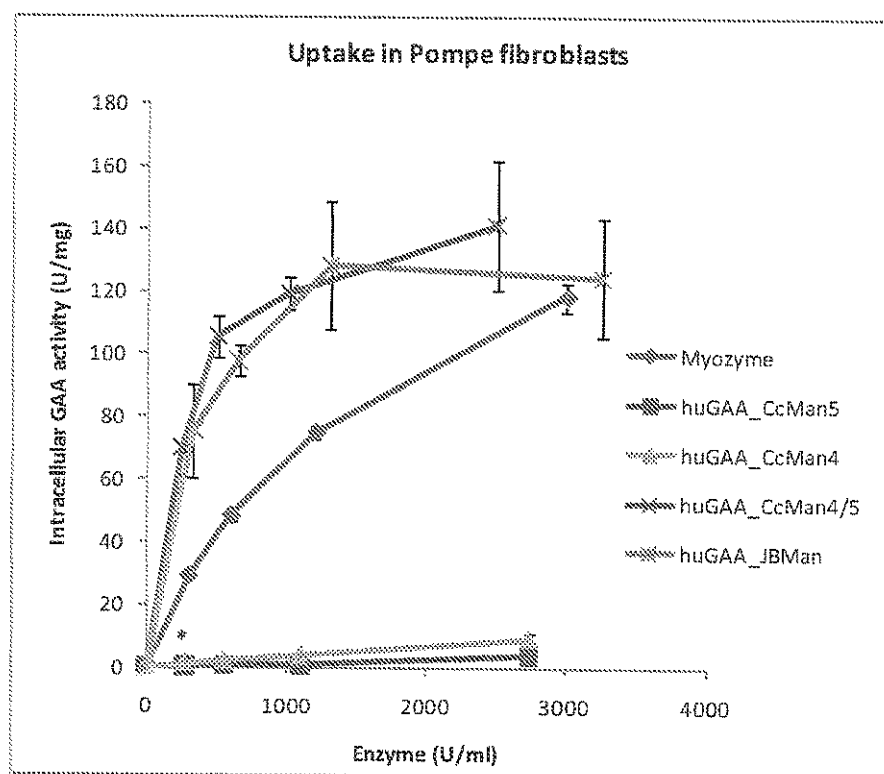


FIGURE 18

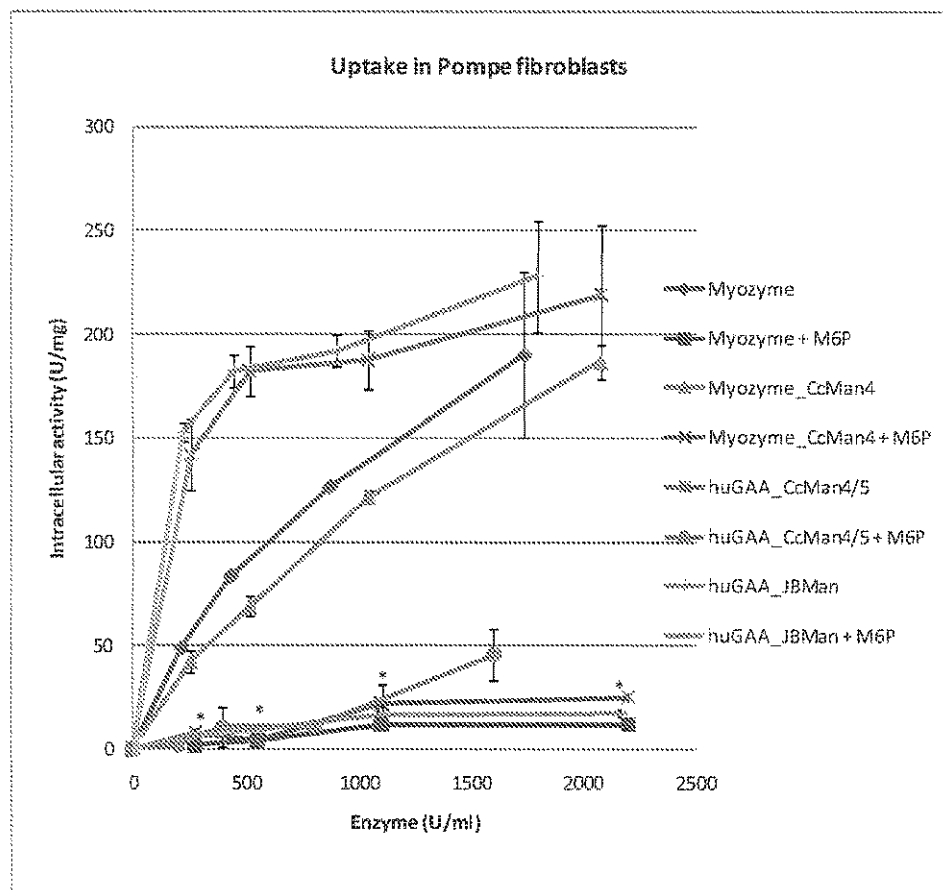


FIGURE 19

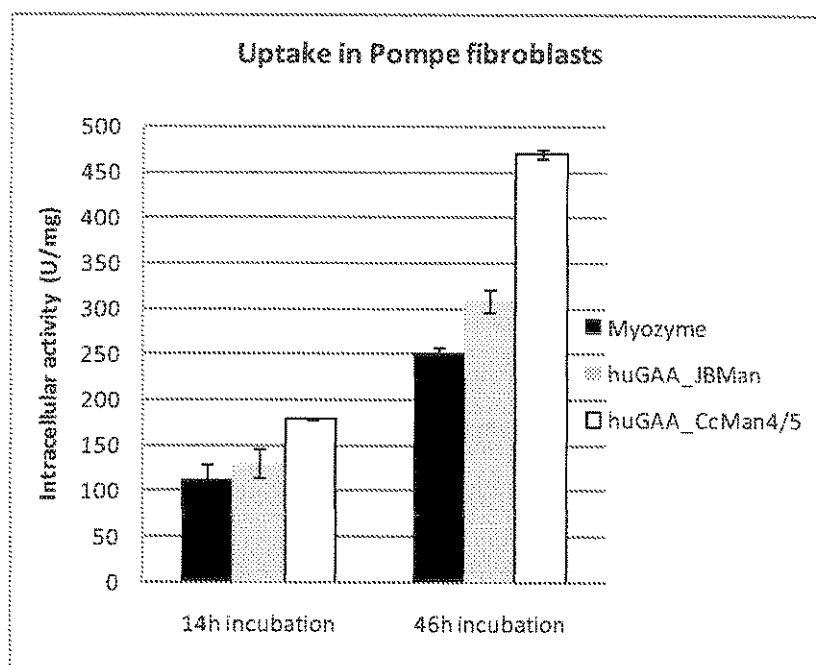
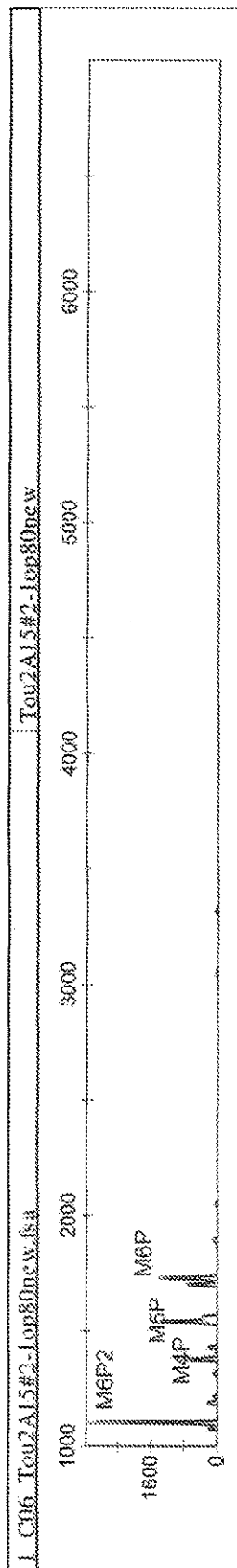


FIGURE 20



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FIGURE 21

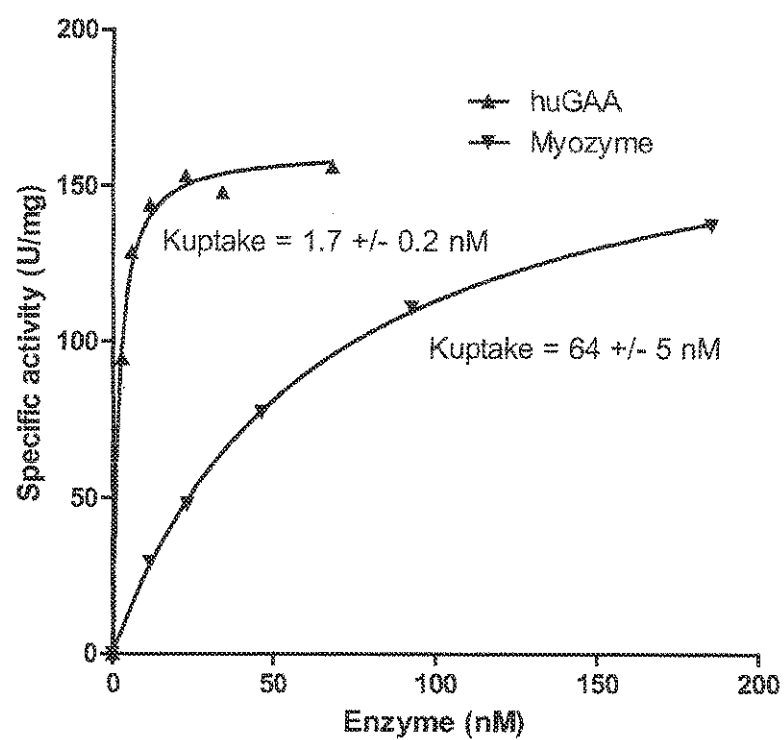


FIGURE 22

1 mhlpslsisl talaiaspsa ayphfgssqp vlhssedttq sradaikaaf shawdgylqy
61 afphdelhvp sngygdsrng wgasavdals tavimrnati vnqildhvgk idysktnttv
121 slfettiryl ggmlsgydll kgpvsdlvqn sskidvlltq sknladvlkf afdtpsgvpy
181 nnlnitsggn dgaktnglav tgtkalewtr lsdltgdtty adlsqkaesy llnpqpkxae
241 pfpqlvgdni nisngqftda qvswnggdds yyeylikmyv ydpkrfglyk drwvaqaqt
301 mghlashpss rpdltflasy nngtlglssq hltcfdggsf llggtvlnrt dfinfgldiv
361 sgchdtynst ltgigpesfs wdtsdipssq qsllyekagfy itsgayilrp eviesfyyaw
421 rvtggetyrd wiwsafsavn dycrtssgfs gltdvnaang gsrydnqesf lfaevmkysy
481 mafaedaawq vqpgsgnqfv fnteahpvrv sst