

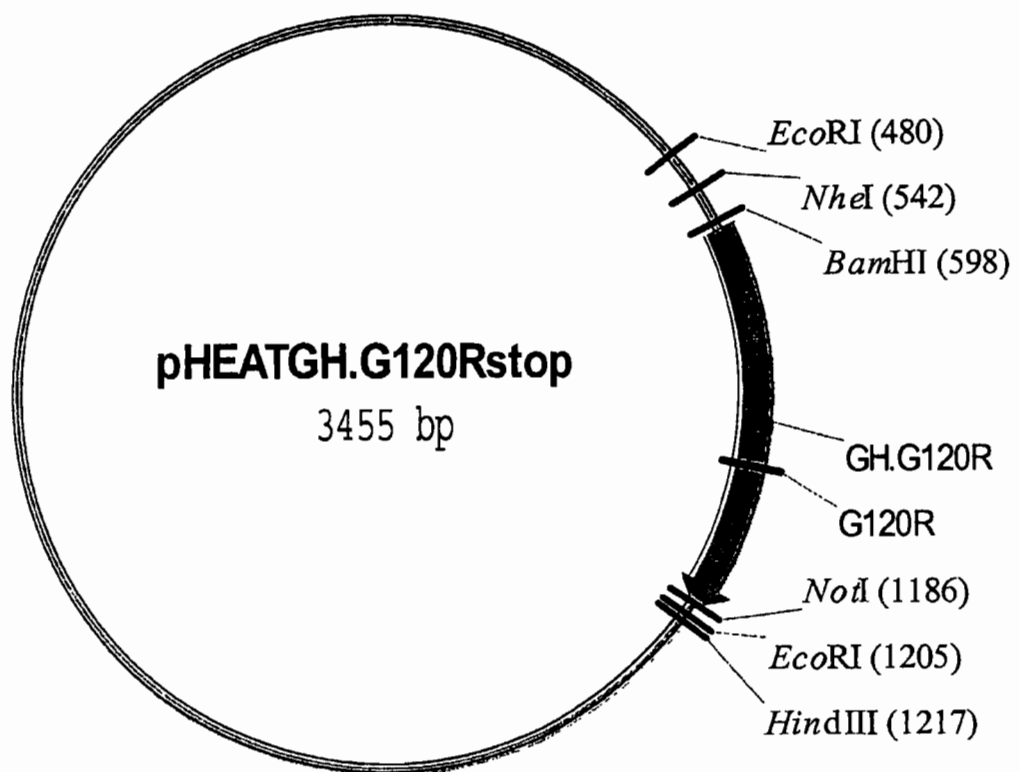


Figure 1

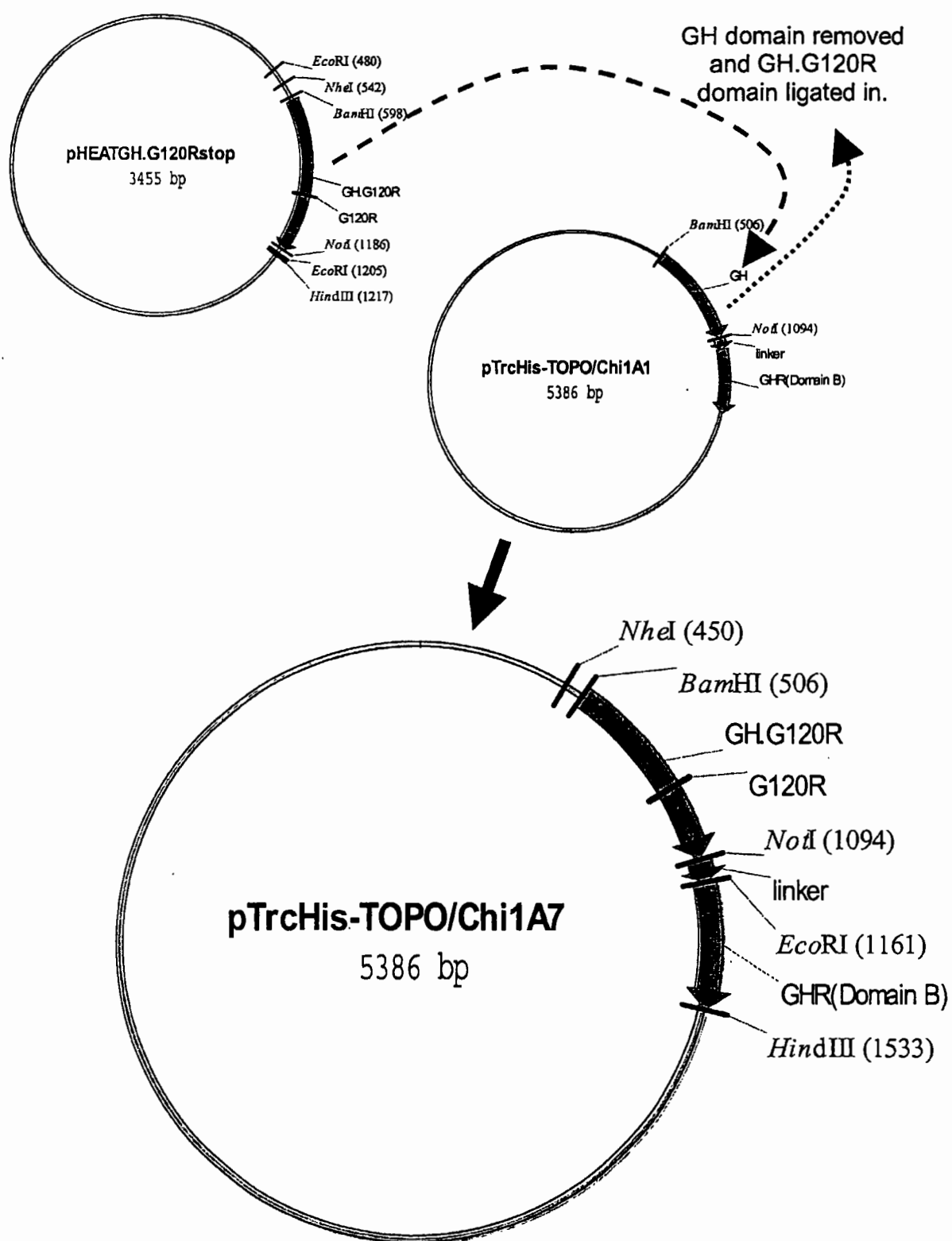


Figure 2

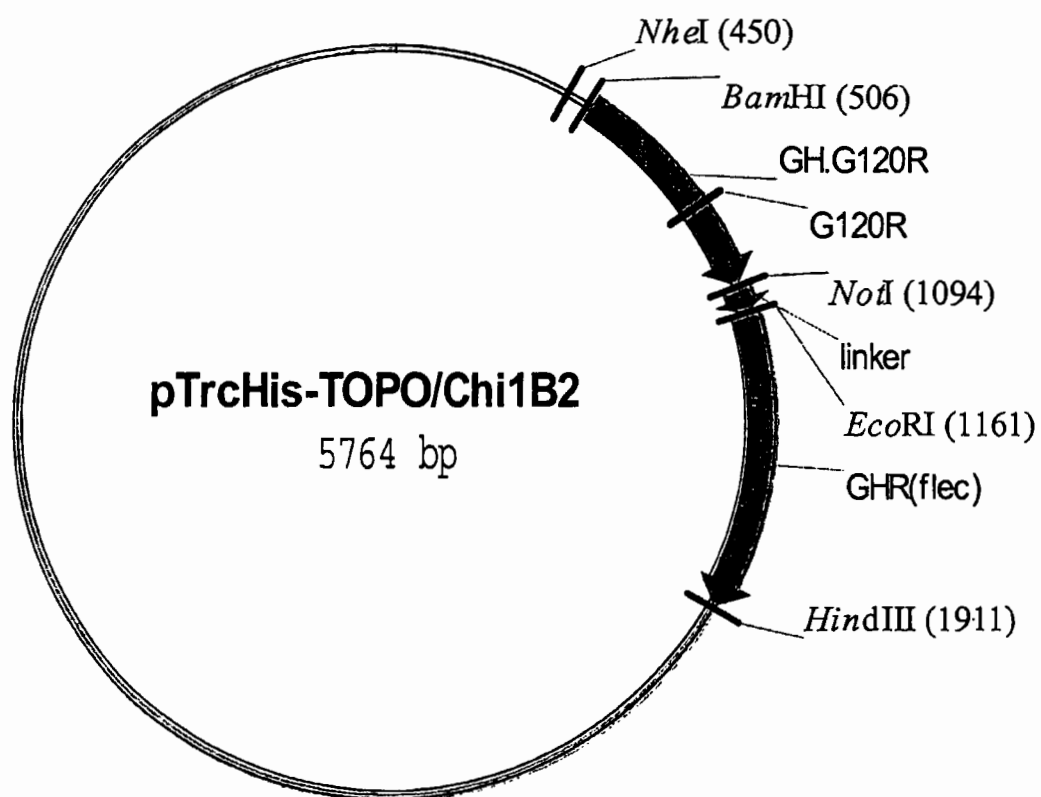


Figure 3

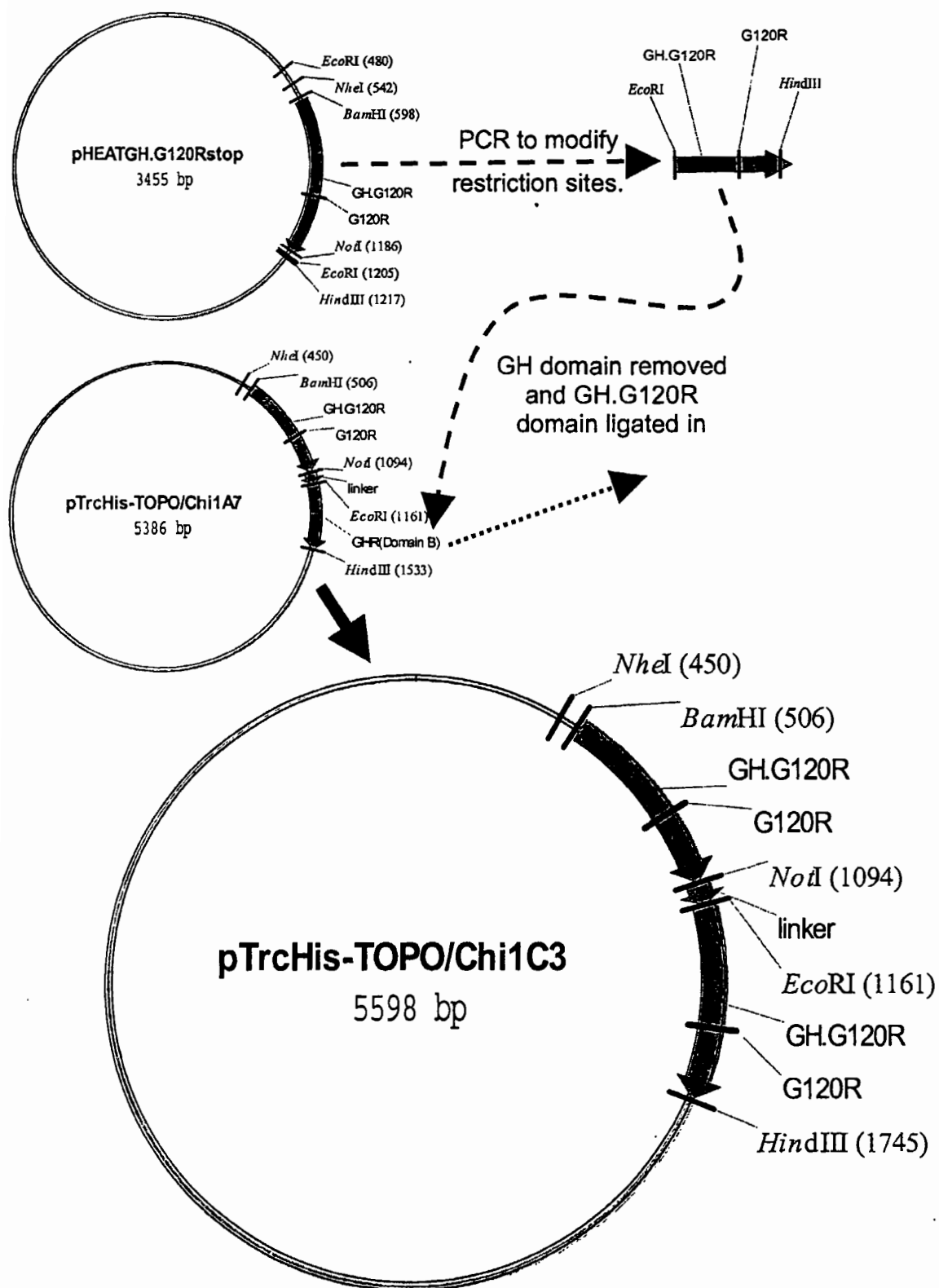


Figure 4

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start                                6 x His
atgpgggggtt ctcatcatca tcatcatcat ggtatggcta gcatgactgg
                                     BamHI
tggacagcaa atgggtcggg atctgtacga cgatgacgat aaggatccaa

ccctTTTCCC AACCATTCCC TTATCCAGGC TTTTGGACAA CGCTAGTCTC
CGCGCCCATC GTCTGCACCA GCTGGCCTTT GACACCTACC AGGAGTTTGA
AGAAGCCTAT ATCCCAAAGG AACAGAAGTA TTCATTCTTG CAGAACCCCC
AGACCTCCCT CTGTTTCTCA GAGTCTATTC CGACACCCTC CAACAGGGAG
GAAACACAAC AGAAATCCAA CCTAGAGCTG CTCCGCATCT CCCTGCTGCT
CATCCAGTCG TGGCTGGAGC CCGTGCAGTT CCTCAGGAGT GTCTTCGCCA
ACAGCCTGGT GTACGGCGCC TCTGACAGCA ACGTCTATGA CCTCCTAAAG
GACCTAGAGG AACGCATCCA AACGCTGATG GGGAGGCTGG AAGATGGCAG
CCCCCGGACT GGGCAGATCT TCAAGCAGAC CTACAGCAAG TTCGACACAA
ACTCACACAA CGATGACGCA CTA CTCAAGA ACTACGGGCT GCTCTACTGC
TTCAGGAAGG ACATGGACAA GGTGAGACA TTCCTGCGCA TCGTGCAGTG
                                     NotI   Stop Stop
CCGCTCTGTG GAGGGCAGCT GTGGCTTCgg cggccgctga taa

```

Figure 5

Start 6 x His
 atg^ggggggtt ct^{catcatca tcatcatcat} ggtatggcta gcatgactgg
 BamHI
 tggacagcaa atgggtcggg atctgtacga cgatgacgat aag^{gatccaa}

 ccctTTTCCC AACCATTCCC TTATCCAGGC TTTTGTGACAA CGCTAGTCTC
 CGCGCCCATC GTCTGCACCA GCTGGCCTTT GACACCTACC AGGAGTTTGA
 AGAAGCCTAT ATCCCAAAGG AACAGAAGTA TTCATTCTTG CAGAACCCCC
 AGACCTCCCT CTGTTTCTCA GAGTCTATTC CGACACCCTC CAACAGGGAG
 GAAACACAAC AGAAATCCAA CCTAGAGCTG CTCCGCATCT CCCTGCTGCT
 CATCCAGTCG TGGCTGGAGC CCGTGCAGTT CCTCAGGAGT GTCTTCGCCA
 ACAGCCTGGT GTACGGCGCC TCTGACAGCA ACGTCTATGA CCTCCTAAAG
 GACCTAGAGG AA^{CGC}ATCCA AACGCTGATG GGGAGGCTGG AAGATGGCAG
 CCCCCGGACT GGGCAGATCT TCAAGCAGAC CTACAGCAAG TTCGACACAA
 ACTCACACAA CGATGACGCA CTACTCAAGA ACTACGGGCT GCTCTACTGC
 TTCAGGAAGG ACATGGACAA GGTCGAGACA TTCCTGCGCA TCGTGCAGTG
 NotI
 CCGCTCTGTG GAGGGCAGCT GTGGCTTCG^G CGGCCGCGGT GGCGGAGGTA
 EcoRI
 GTGGTGGCGG AGGTAGCGGT GGCGGAGGTT CTGGTGGCGG AGGTTCC^{GAA}

 T^TC^GGAAATAG TGCAACCAGA TCCACCCATT GCCCTCAACT GGACTTTACT
 GAACGTCAGT TTAAGTGGGA TTCATGCAGA TATCCAAGTG AGATGGGAAG
 CACCACGCAA TGCAGATATT CAGAAAGGAT GGATGGTTCT GGAGTATGAA
 CTTCAATACA AAGAAGTAAA TGAAACTAAA TGGAAAATGA TGGACCCTAT
 ATTGACAACA TCAGTTCCAG TGTACTCATT GAAAGTGGAT AAGGAATATG
 AAGTGCGTGT GAGATCCAAA CAACGAAACT CTGGAAATTA TGGCGAGTTC
 AGTGAGGTGC TCTATGTAACT ACTTCCTCAG ATGAGCCAAT TTACATGTGA
 Stop Stop HindIII
 AGAAGATTTC TAC^{tgataaa agctt}

Figure 6

Start 6 x His
 atg^ggggggtt ct^{catcatca tcatcatcat} ggtatggcta gcatgactgg
 BamHI
 tggacagcaa atgggtcggg atctgtacga cgatgacgat aaggatccaa

 ccctTTTCCC AACCATTTCCC TTATCCAGGC TTTTGTGACAA CGCTAGTCTC
 CGCGCCCATC GTCTGCACCA GCTGGCCTTT GACACCTACC AGGAGTTTGA
 AGAAGCCTAT ATCCCAAAGG AACAGAAGTA TTCATTCTTG CAGAACCCCC
 AGACCTCCCT CTGTTTCTCA GAGTCTATTC CGACACCCTC CAACAGGGAG
 GAAACACAAC AGAAATCCAA CCTAGAGCTG CTCCGCATCT CCCTGCTGCT
 CATCCAGTCG TGGCTGGAGC CCGTGCAGTT CCTCAGGAGT GTCTTCGCCA
 ACAGCCTGGT GTACGGCGCC TCTGACAGCA ACGTCTATGA CCTCCTAAAG
 GACCTAGAGG AA^{CCC}ATCCA AACGCTGATG GGGAGGCTGG AAGATGGCAG
 CCCCCGGACT GGGCAGATCT TCAAGCAGAC CTACAGCAAG TTCGACACAA
 ACTCACACAA CGATGACGCA CTACTCAAGA ACTACGGGCT GCTCTACTGC
 TTCAGGAAGG ACATGGACAA GGTCGAGACA TTCCTGCGCA TCGTGCAGTG
 NotI
 CCGCTCTGTG GAGGGCAGCT GTGGCTTCGG^{CGGCCGCG}GGT GCGGGAGGTA
 EcoRI
 GTGGTGGCGG AGGTAGCGGT GGCGGAGGTT CTGGTGGCGG AGGTTTCGAA

 TTC^{TTTTCTG} GAAGTGAGGC CACAGCAGCT ATCCTTAGCA GAGCACCTG
 GAGTCTGCAA AGTGTTAATC CAGGCCTAAA GACAAATTCT TCTAAGGAGC
 CTAAATTCAC CAAGTGCCGT TCACCTGAGC GAGAGACTTT TTCATGCCAC
 TGGACAGATG AGGTTCATCA TGGTACAAAG AACCTAGGAC CCATACAGCT
 GTTCTATACC AGAAGGAACA CTCAAGAATG GACTCAAGAA TGGAAAGAAT
 GCCCTGATTA TGTTTCTGCT GGGGAAAACA GCTGTTACTT TAATTCATCG
 TTTACCTCCA TCTGGATACC TTATTGTATC AAGCTAACTA GCAATGGTGG
 TACAGTGGAT GAAAAGTGTT TCTCTGTTGA TGAAATAGTG CAACCAGATC
 CACCCATTGC CCTCAACTGG ACTTTACTGA ACGTCAGTTT AACTGGGATT
 CATGCAGATA TCCAAGTGAG ATGGGAAGCA CCACGCAATG CAGATATTCA
 GAAAGGATGG ATGGTTCTGG AGTATGAACT TCAATACAAA GAAGTAAATG
 AAATAAATG GAAAATGATG GACCTATAT TGACAACATC AGTTCCAGTG
 TACTCATTGA AAGTGGATAA GGAATATGAA GTGCGTGTGA GATCCAAACA
 ACGAAACTCT GGAAATTATG GCGAGTTCAG TGAGGTGCTC TATGTAACAC
 Stop Stop
 HindIII
 TTCCTCAGAT GAGCCAATTT ACATGTGAA GAAGATTTCTA Ctgataaaag

 ctt

Figure 7

Start 6 x His
 atg^{Start}gggggtt ctcatcatca tcatcatcat ggtatggcta gcatgactgg
BamHI
 tggacagcaa atgggtcggg atctgtacga cgatgacgat aaggatccaa

 ccctTTTCCC AACCATTTCCC TTATCCAGGC TTTTGTGACAA CGCTAGTCTC
 CGCGCCCATC GTCTGCACCA GCTGGCCTTT GACACCTACC AGGAGTTTGA
 AGAAGCCTAT ATCCCAAAGG AACAGAAGTA TTCATTCTTG CAGAACCCCC
 AGACCTCCCT CTGTTTCTCA GAGTCTATTC CGACACCCTC CAACAGGGAG
 GAAACACAAC AGAAATCCAA CCTAGAGCTG CTCCGCATCT CCCTGCTGCT
 CATCCAGTCG TGGCTGGAGC CCGTGCAGTT CCTCAGGAGT GTCTTCGCCA
 ACAGCCTGGT GTACGGCGCC TCTGACAGCA ACGTCTATGA CCTCCTAAAG
 GACCTAGAGG AACCGCATCCA AACGCTGATG GGGAGGCTGG AAGATGGCAG
 CCCCCGGACT GGGCAGATCT TCAAGCAGAC CTACAGCAAG TTCGACACAA
 ACTCACACAA CGATGACGCA CTACTCAAGA ACTACGGGCT GCTCTACTGC
 TTCAGGAAGG ACATGGACAA GGTCGAGACA TTCCTGCGCA TCGTGCAGTG
NotI
 CCGCTCTGTG GAGGGCAGCT GTGGCTTCGG CGGCCGGGGT GGCGGAGGTA
EcoRI
 GTGGTGGCGG AGGTAGCGGT GGCGGAGGTT CTGGTGGCGG AGGTTCCGAA

 TTCTTTCCCG AAGTGAGGCC ACAGCAGCTA TCCTTAGCAG AGCACCTGA
 ACCATTCCCT TATCCAGGCT TTTTGTGACAA GCTAGTCTCC GCGCCCATCG
 TCTGCACCAG CTGGCCTTTG ACACCTACCA GGAGTTTGAA GAAGCCTATA
 TCCCAAAGGA ACAGAAGTAT TCATTCTTGC AGAACCCCCA GACCTCCCTC
 TGTTTCTCAG AGTCTATTCC GACACCCTCC AACAGGGAGG AAACACAACA
 GAAATCCAAC CTAGAGCTGC TCCGCATCTC CCTGCTGCTC ATCCAGTCGT
 GGCTGGAGCC CGTGCAGTTC CTCAGGAGTG TCTTCGCCAA CAGCCTGGTG
 TACGGCGCCT CTGACAGCAA CGTCTATGAC CTCCTAAAGG ACCTAGAGGA
 AACCGCATCCA ACGCTGATGG GGAGGCTGGA AGATGGCAGC CCCCCGACTG
 GGCAGATCTT CAAGCAGACC TACAGCAAGT TCGACACAAA CTCACACAAC
 GATGACGCAC TACTCAAGAA CTACGGGCTG CTCTACTGCT TCAGGAAGGA
 CATGGACAAG GTCGAGACAT TCCTGCGCAT CGTGCAGTGC CGCTCTGTGG
Stop Stop HindIII
 AGGGCAGCTG TGGCTTctga taagaagctt

Figure 8

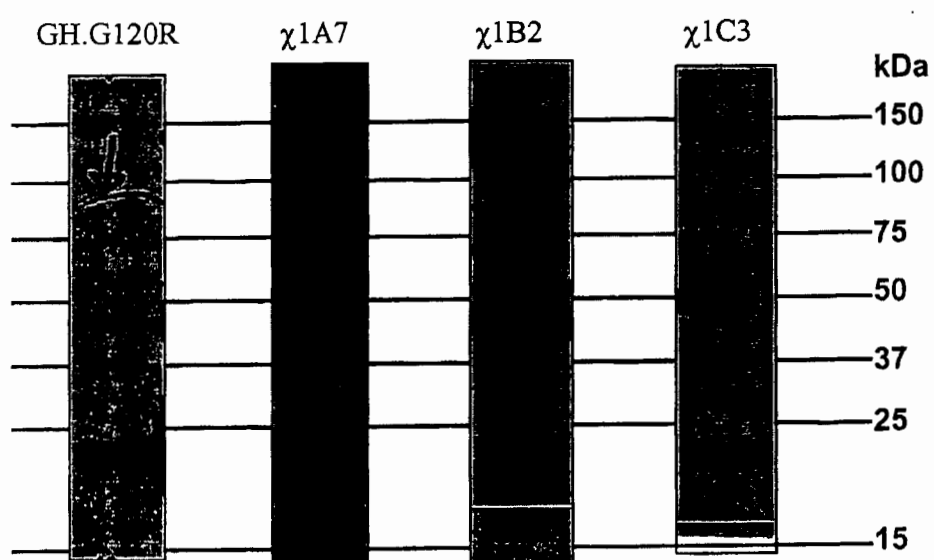


Figure 9

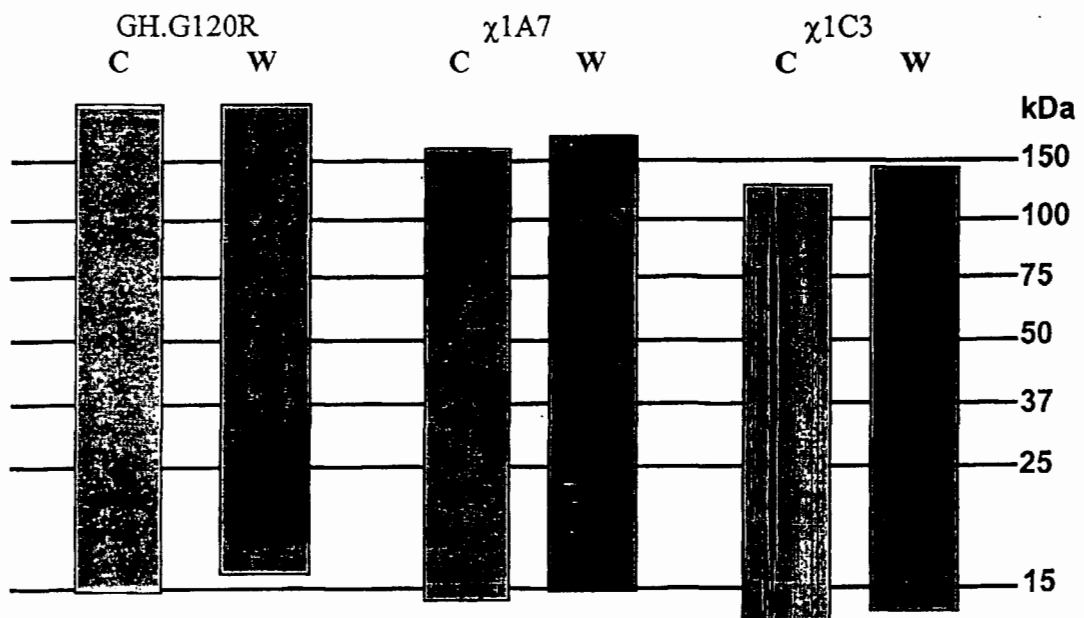


Figure 10

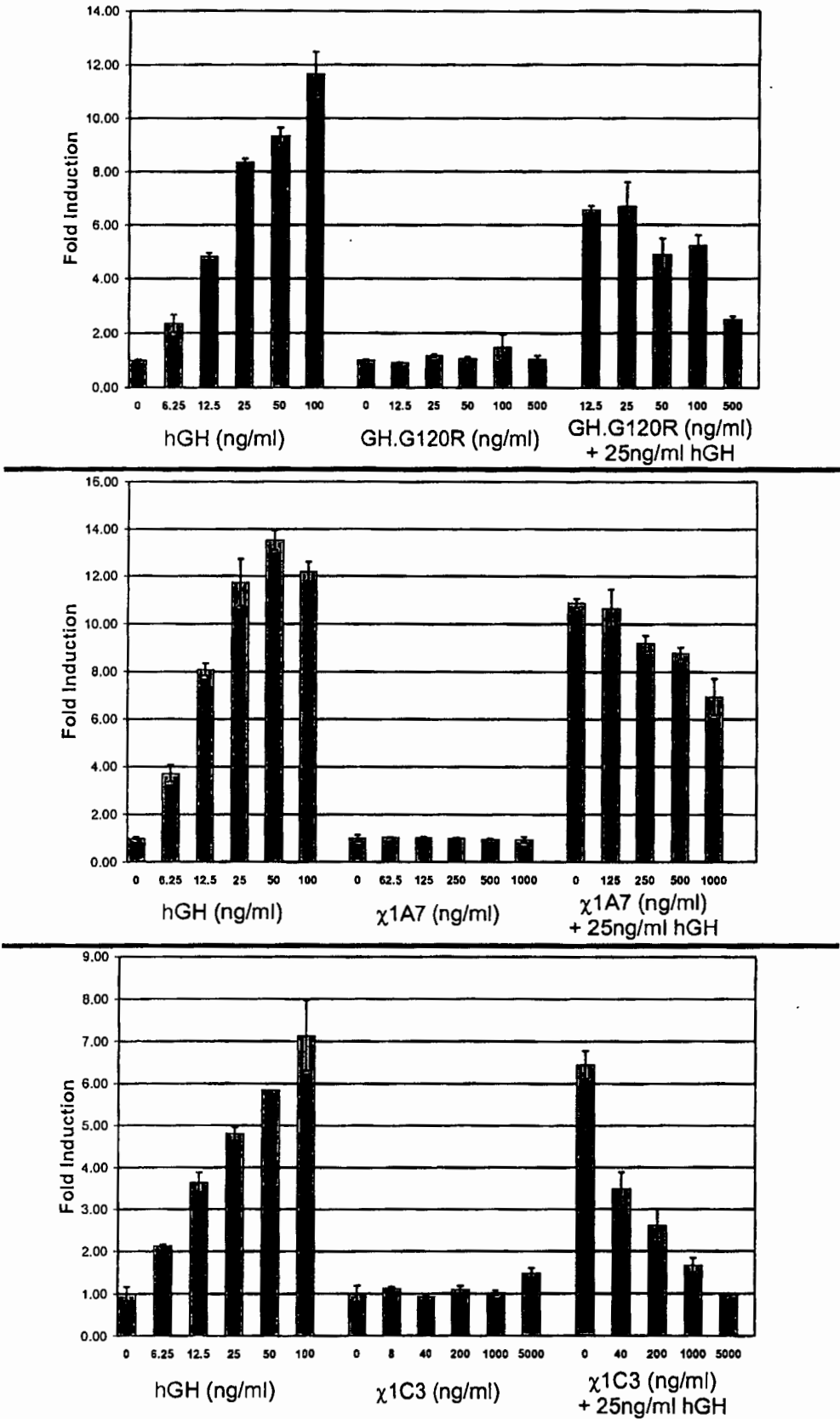


Figure 11

1 Phe Pro Thr Ile Pro Leu Ser Arg Leu Phe Asp Asn Ala Ser Leu
16 Arg Ala His Arg Leu His Gln Leu Ala Phe Asp Thr Tyr Gln Glu
31 Phe Glu Glu Ala Tyr Ile Pro Lys Glu Gln Lys Tyr Ser Phe Leu
46 Gln Asn Pro Gln Thr Ser Leu Cys Phe Ser Glu Ser Ile Pro Thr
61 Pro Ser Asn Arg Glu Glu Thr Gln Gln Lys Ser Asn Leu Glu Leu
76 Leu Arg Ile Ser Leu Leu Leu Ile Gln Ser Trp Leu Glu Pro Val
91 Gln Phe Leu Arg Ser Val Phe Ala Asn Ser Leu Val Tyr Gly Ala
106 Ser Asp Ser Asn Val Tyr Asp Leu Leu Lys Asp Leu Glu Glu Gly
121 Ile Gln Thr Leu Met Gly Arg Leu Glu Asp Gly Ser Pro Arg Thr
136 Gly Gln Ile Phe Lys Gln Thr Tyr Ser Lys Phe Asp Thr Asn Ser
151 His Asn Asp Asp Ala Leu Leu Lys Asn Tyr Gly Leu Leu Tyr Cys
166 Phe Arg Lys Asp Met Asp Lys Val Glu Thr Phe Leu Arg Ile Val
181 Gln Cys Arg Ser Val Glu Gly Ser Cys Gly Phe

Figure 12

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1   TTC CCA ACC ATT CCC TTA TCC AGG CTT TTT GAC AAC GCT AGT CTC
46  CGC GCC CAT CGT CTG CAC CAG CTG GCC TTT GAC ACC TAC CAG GAG
91  TTT GAA GAA GCC TAT ATC CCA AAG GAA CAG AAG TAT TCA TTC CTG
136 CAG AAC CCC CAG ACC TCC CTC TGT TTC TCA GAG TCT ATT CCG ACA
181 CCC TCC AAC AGG GAG GAA ACA CAA CAG AAA TCC AAC CTA GAG CTG
226 CTC CGC ATC TCC CTG CTG CTC ATC CAG TCG TGG CTG GAG CCC GTG
271 CAG TTC CTC AGG AGT GTC TTC GCC AAC AGC CTG GTG TAC GGC GCC
316 TCT GAC AGC AAC GTC TAT GAC CTC CTA AAG GAC CTA GAG GAA GGC
361 ATC CAA ACG CTG ATG GGG AGG CTG GAA GAT GGC AGC CCC CGG ACT
406 GGG CAG ATC TTC AAG CAG ACC TAC AGC AAG TTC GAC ACA AAC TCA
451 CAC AAC GAT GAC GCA CTA CTC AAG AAC TAC GGG CTG CTC TAC TGC
496 TTC AGG AAG GAC ATG GAC AAG GTC GAG ACA TTC CTG CGC ATC GTG
541 CAG TGC CGC TCT GTG GAG GGC AGC TGT GGC TTC
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Figure 13