

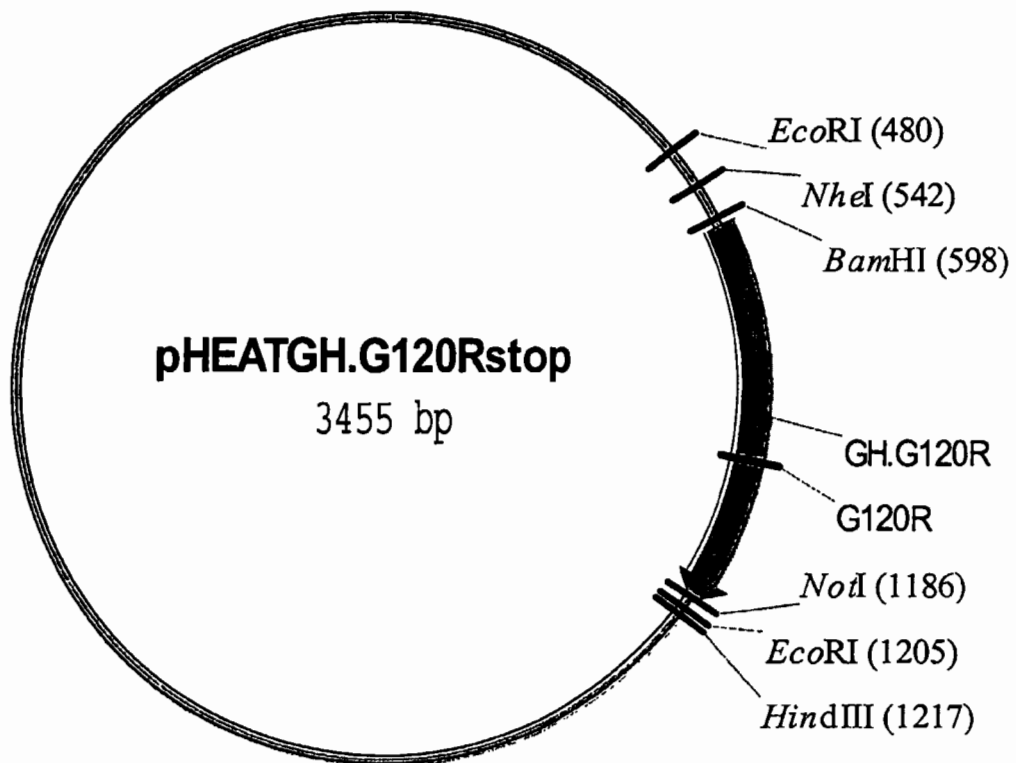


Figure 1

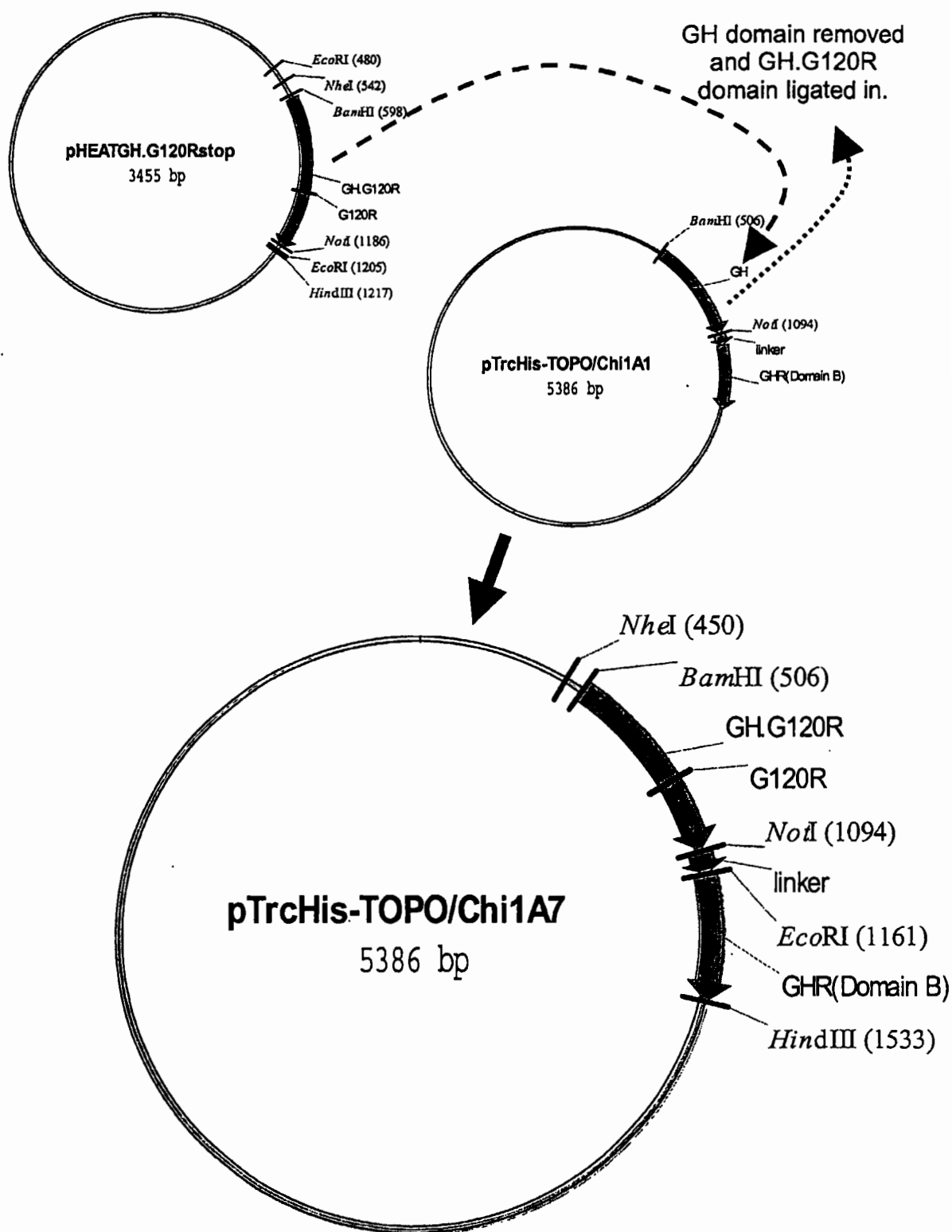


Figure 2

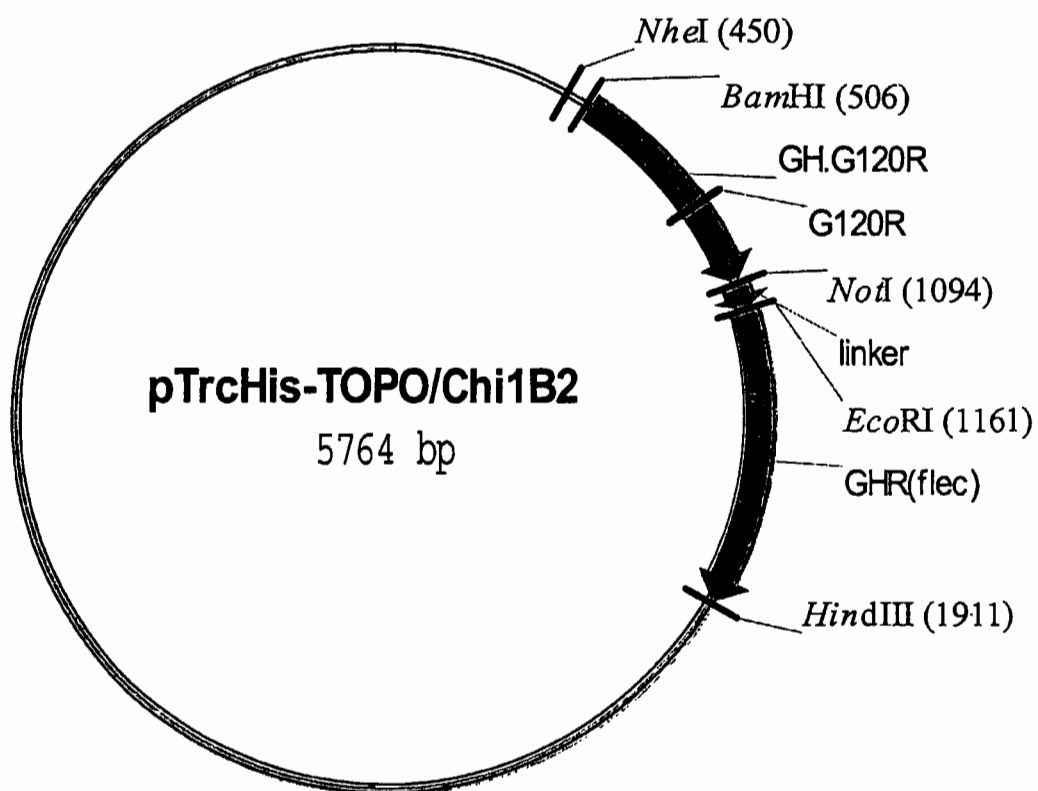


Figure 3

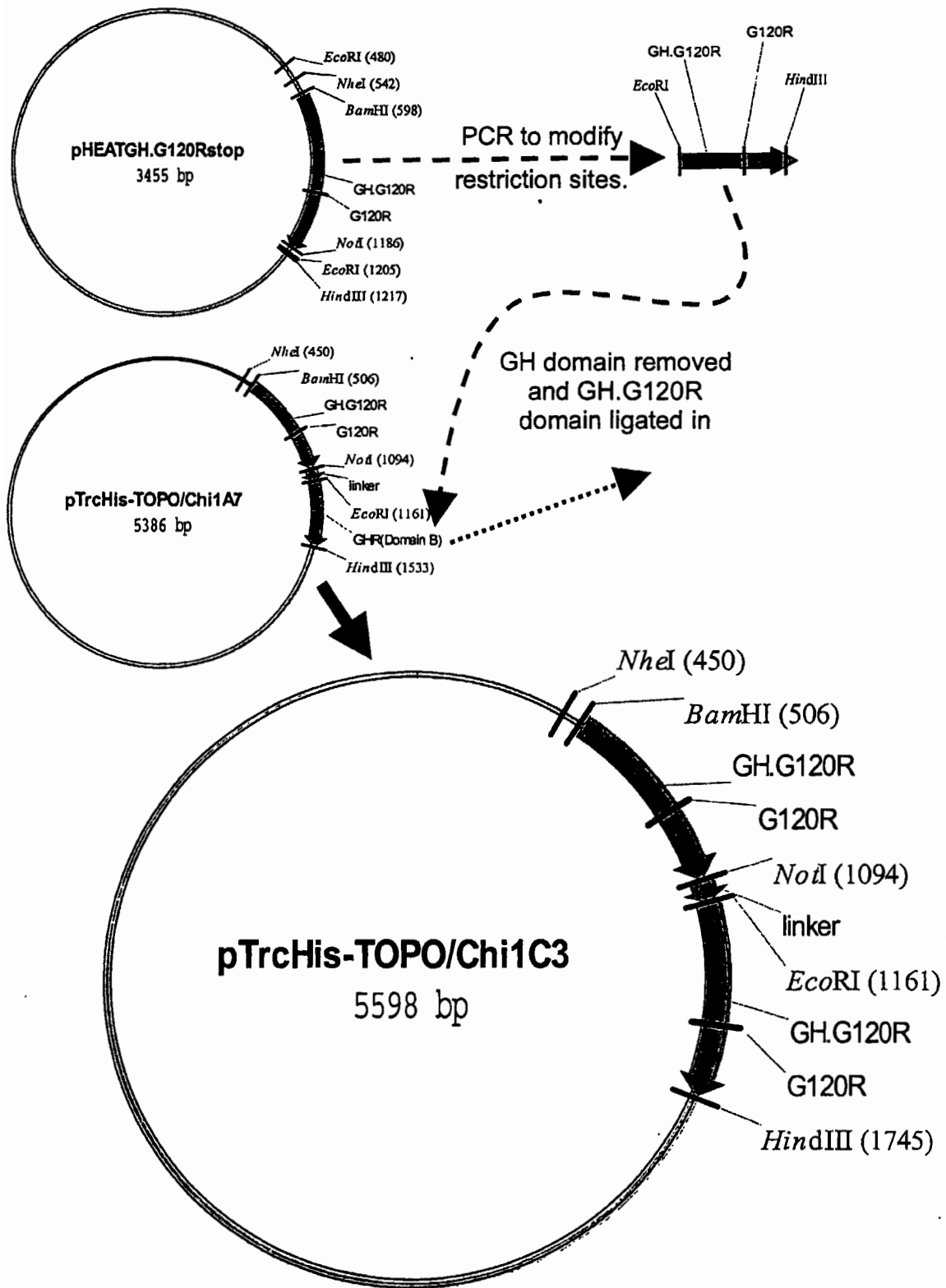


Figure 4

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

ccctTTTCCC AACCATTCCC TTATCCAGGC TTTTGTGACAA CGCTAGTCTC
CGCGCCCATC GTCTGCACCA GCTGGCCTTT GACACCTACC AGGAGTTTGA
AGAAGCCTAT ATCCCAAAGG AACAGAAGTA TTCATTCTCTG 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 CTACTCAAGA ACTACGGGCT GCTCTACTGC
TTCAGGAAGG ACATGGACAA GGTGAGAGCA TTCCTGCGCA TCGTGCAGTG
                                     NotI   Stop Stop
CCGCTCTGTG GAGGGCAGCT GTGGCTTCgg cggccgctga taa

```

Figure 5

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

 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 AAAGCATCCA AACGCTGATG GGGAGGCTGG AAGATGGCAG
 CCCCCGGACT GGGCAGATCT TCAAGCAGAC CTACAGCAAG TTCGACACAA
 ACTCACACAA CGATGACGCA CTACTCAAGA ACTACGGGCT GCTCTACTGC
 TTCAGGAAGG ACATGGACAA GGTGAGAGCA TTCCTGCGCA TCGTGCAGTG
 NotI
 CCGCTCTGTG GAGGGCAGCT GTGGCTTCGG CGGCCGGGGT GGCGGAGGTA
 EcoRI
 GTGGTGGCGG AGGTAGCGGT GGCGGAGGTT CTGGTGGCGG AGGTTCCGAA

 TTGAAATAG 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 TCTATGTAAC ACTTCCTCAG ATGAGCCAAT TTACATGTGA
 Stop Stop HindIII
 AGAAGATTTT TACTgataaa agctt

Figure 6

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

 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 AA^{CGC}ATCCA AACGCTGATG GGGAGGCTGG AAGATGGCAG
 CCCCCGACT GGGCAGATCT TCAAGCAGAC CTACAGCAAG TTCGACACAA
 ACTCACACAA CGATGACGCA CTACTCAAGA ACTACGGGCT GCTCTACTGC
 TTCAGGAAGG ACATGGACAA GGTCGAGACA TTCCTGCGCA TCGTGCAGTG
 NotI
 CCGCTCTGTG GAGGGCAGCT GTGGCTTCG^G CGGCCGCGGT GGCGGAGGTA
 EcoRI
 GTGGTGGCGG AGGTAGCGGT GCGCGAGGTT CTGGTGGCGG AGGTTCC^{GAA}

 TTC^{TTTTCTG} GAAGTGAGGC CACAGCAGCT ATCCTTAGCA GAGCACCTG
 GAGTCTGCAA AGTGTTAATC CAGGCCTAAA GACAAATTCT TCTAAGGAGC
 CTAAATTCAC CAAGTGCCGT TCACCTGAGC GAGAGACTTT TTCATGCCAC
 TGGACAGATG AGGTTTCATCA TGGTACAAAG AACCTAGGAC CCATACAGCT
 GTTCTATACC AGAAGGAACA CTCAAGAATG GACTCAAGAA TGGAAAGAAT
 GCCCTGATTA TGTTTCTGCT GGGGAAAACA GCTGTACTT 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 GACCCTATAT TGACAACATC AGTTCCAGTG
 TACTCATTGA AAGTGGATAA GGAATATGAA GTGCGTGTGA GATCCAAACA
 ACGAAACTCT GGAAATTATG GCGAGTTCAG TGAGGTGCTC TATGTAACAC
 Stop Stop
 HindIII
 TTCCTCAGAT GAGCCAATTT ACATGTGAA GAAGATTCTA C^{tgataaaag}
 ctt

Figure 7

Start 6 x His
 atgpgggggtt 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

 TTCTTTTCCCG 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
 ACGCATCCAA 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

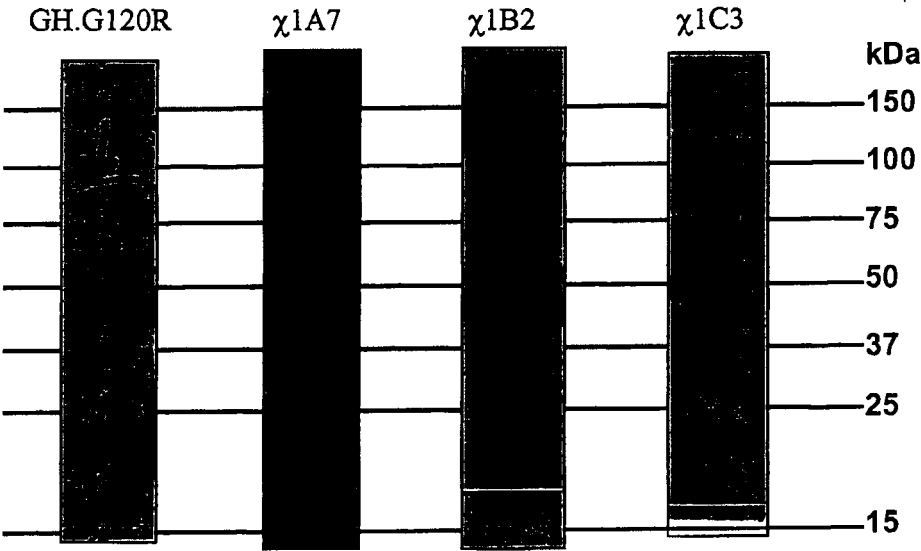


Figure 9

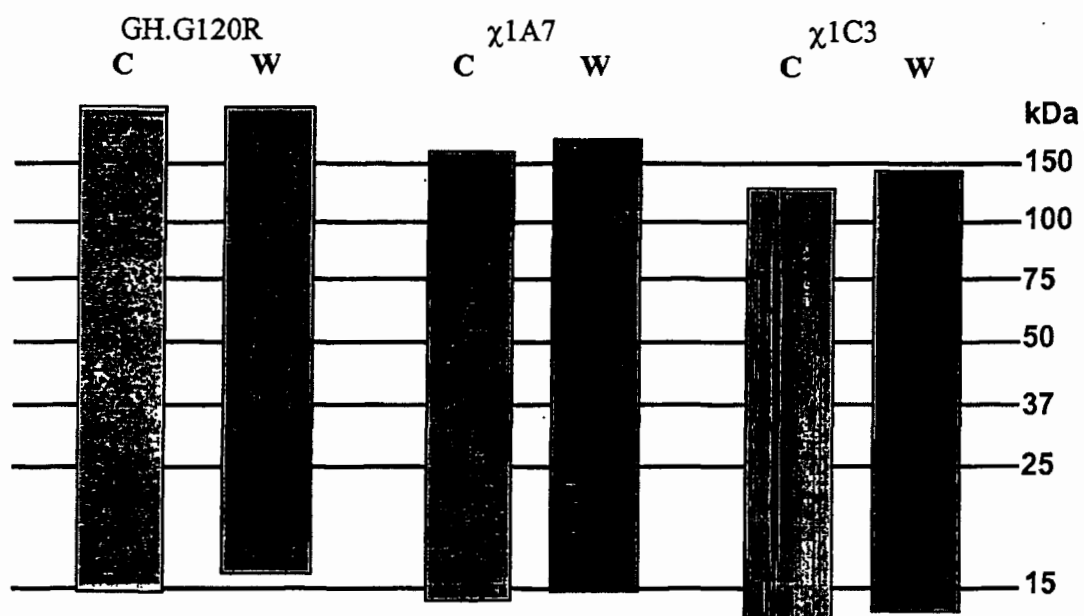


Figure 10

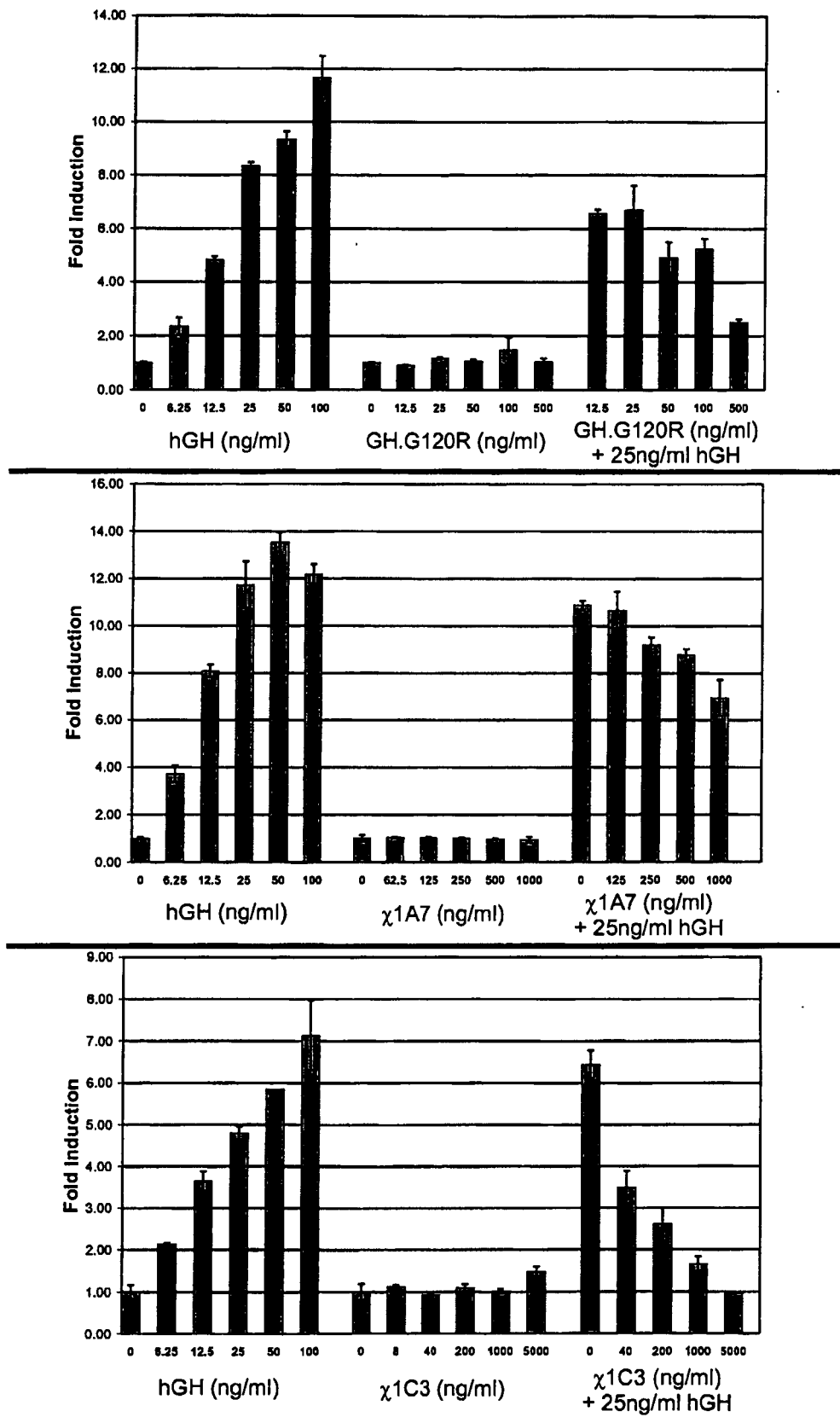


Figure 11

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