

SEQUENCE LISTING

<110> Prolor Biotech Inc.
 <120> LONG-ACTING GROWTH HORMONE AND METHODS OF PRODUCING SAME
 <130> P-9520-PC4
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 <151> 2009-03-11
 <150> 11/700,910
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 <150> 60/764,761
 <151> 2006-02-03
 <160> 26
 <170> PatentIn version 3.5
 <210> 1
 <211> 33
 <212> PRT
 <213> Homo sapiens
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Asp Pro Arg Phe Gln Asp Ser Ser Ser Ser Lys Ala Pro Pro Pro Ser
 1 5 10 15

Leu Pro Ser Pro Ser Arg Leu Pro Gly Pro Ser Asp Thr Pro Ile Leu
 20 25 30

Gln

<210> 2
 <211> 28
 <212> PRT

<213> Homo sapiens

<400> 2

Ser Ser Ser Ser Lys Ala Pro Pro Pro Ser Leu Pro Ser Pro Ser Arg
1 5 10 15

Leu Pro Gly Pro Ser Asp Thr Pro Ile Leu Pro Gln
20 25

<210> 3

<211> 26

<212> PRT

<213> Homo sapiens

<400> 3

Met Ala Thr Gly Ser Arg Thr Ser Leu Leu Leu Ala Phe Gly Leu Leu
1 5 10 15

Cys Leu Pro Trp Leu Gln Glu Gly Ser Ala
20 25

<210> 4

<211> 12

<212> PRT

<213> Homo sapiens

<400> 4

Ser Ser Ser Ser Lys Ala Pro Pro Pro Ser Leu Pro
1 5 10

<210> 5

<211> 217

<212> PRT

<213> Homo sapiens

<400> 5

Met Ala Thr Gly Ser Arg Thr Ser Leu Leu Leu Ala Phe Gly Leu Leu
1 5 10 15

Cys Leu Pro Trp Leu Gln Glu Gly Ser Ala Phe Pro Thr Ile Pro Leu
20 25 30

Ser Arg Leu Phe Asp Asn Ala Met Leu Arg Ala His Arg Leu His Gln
35 40 45

Leu Ala Phe Asp Thr Tyr Gln Glu Phe Glu Glu Ala Tyr Ile Pro Lys

50	55	60
Glu Gln Lys Tyr Ser Phe Leu Gln Asn Pro Gln Thr Ser Leu Cys Phe		
65	70	75 80
Ser Glu Ser Ile Pro Thr Pro Ser Asn Arg Glu Glu Thr Gln Gln Lys		
	85	90 95
Ser Asn Leu Glu Leu Leu Arg Ile Ser Leu Leu Leu Ile Gln Ser Trp		
	100	105 110
Leu Glu Pro Val Gln Phe Leu Arg Ser Val Phe Ala Asn Ser Leu Val		
	115	120 125
Tyr Gly Ala Ser Asp Ser Asn Val Tyr Asp Leu Leu Lys Asp Leu Glu		
	130	135 140
Glu Gly Ile Gln Thr Leu Met Gly Arg Leu Glu Asp Gly Ser Pro Arg		
145	150	155 160
Thr Gly Gln Ile Phe Lys Gln Thr Tyr Ser Lys Phe Asp Thr Asn Ser		
	165	170 175
His Asn Asp Asp Ala Leu Leu Lys Asn Tyr Gly Leu Leu Tyr Cys Phe		
	180	185 190
Arg Lys Asp Met Asp Lys Val Glu Thr Phe Leu Arg Ile Val Gln Cys		
	195	200 205
Arg Ser Val Glu Gly Ser Cys Gly Phe		
	210	215

<210> 6
 <211> 192
 <212> PRT
 <213> Homo sapiens

<400> 6

Met Phe Pro Thr Ile Pro Leu Ser Arg Leu Phe Asp Asn Ala Met Leu
1 5 10 15
Arg Ala His Arg Leu His Gln Leu Ala Phe Asp Thr Tyr Gln Glu Phe
20 25 30

Glu Glu Ala Tyr Ile Pro Lys Glu Gln Lys Tyr Ser Phe Leu Gln Asn
35 40 45

Pro Gln Thr Ser Leu Cys Phe Ser Glu Ser Ile Pro Thr Pro Ser Asn
50 55 60

Arg Glu Glu Thr Gln Gln Lys Ser Asn Leu Glu Leu Leu Arg Ile Ser
65 70 75 80

Leu Leu Leu Ile Gln Ser Trp Leu Glu Pro Val Gln Phe Leu Arg Ser
85 90 95

Val Phe Ala Asn Ser Leu Val Tyr Gly Ala Ser Asp Ser Asn Val Tyr
100 105 110

Asp Leu Leu Lys Asp Leu Glu Glu Gly Ile Gln Thr Leu Met Gly Arg
115 120 125

Leu Glu Asp Gly Ser Pro Arg Thr Gly Gln Ile Phe Lys Gln Thr Tyr
130 135 140

Ser Lys Phe Asp Thr Asn Ser His Asn Asp Asp Ala Leu Leu Lys Asn
145 150 155 160

Tyr Gly Leu Leu Tyr Cys Phe Arg Lys Asp Met Asp Lys Val Glu Thr
165 170 175

Phe Leu Arg Ile Val Gln Cys Arg Ser Val Glu Gly Ser Cys Gly Phe
180 185 190

<210> 7
<211> 25
<212> PRT
<213> Homo sapiens

<400> 7

Met Phe Pro Thr Ile Pro Leu Ser Arg Leu Phe Asp Asn Ala Met Leu
1 5 10 15

Arg Ala His Arg Leu His Gln Leu Ala
20 25

<210> 8
<211> 217
<212> PRT

<213> Homo sapiens

<400> 8

Met Ala Thr Gly Ser Arg Thr Ser Leu Leu Leu Ala Phe Gly Leu Leu
1 5 10 15

Cys Leu Pro Trp Leu Gln Glu Gly Ser Ala Phe Pro Thr Ile Pro Leu
20 25 30

Ser Arg Leu Phe Asp Asn Ala Met Leu Arg Ala His Arg Leu His Gln
35 40 45

Leu Ala Phe Asp Thr Tyr Gln Glu Phe Glu Glu Ala Tyr Ile Pro Lys
50 55 60

Val Gln Lys Tyr Ser Phe Leu Gln Asn Pro Gln Thr Ser Leu Cys Phe
65 70 75 80

Ser Glu Ser Ile Pro Thr Pro Ser Asn Arg Glu Glu Thr Gln Gln Lys
85 90 95

Ser Asn Leu Glu Leu Leu Arg Ile Ser Leu Leu Leu Ile Gln Ser Trp
100 105 110

Leu Glu Pro Val Gln Phe Leu Arg Ser Val Phe Ala Asn Ser Leu Val
115 120 125

Tyr Gly Ala Ser Asp Ser Asn Val Tyr Asp Leu Leu Lys Asp Leu Glu
130 135 140

Glu Gly Ile Gln Thr Leu Met Gly Arg Leu Glu Asp Gly Ser Pro Arg
145 150 155 160

Thr Gly Gln Ile Phe Lys Gln Thr Tyr Ser Lys Phe Asp Thr Asn Ser
165 170 175

His Asn Asp Asp Ala Leu Leu Lys Asn Tyr Gly Leu Leu Tyr Cys Phe
180 185 190

Arg Lys Asp Met Asp Lys Val Glu Thr Phe Leu Arg Ile Val Gln Cys
195 200 205

Arg Ser Val Glu Gly Ser Cys Gly Phe
210 215

<210> 9
<211> 245
<212> PRT
<213> Homo sapiens

<400> 9

Met Ala Thr Gly Ser Arg Thr Ser Leu Leu Leu Ala Phe Gly Leu Leu
1 5 10 15

Cys Leu Pro Trp Leu Gln Glu Gly Ser Ala Phe Pro Thr Ile Pro Leu
20 25 30

Ser Arg Leu Phe Asp Asn Ala Met Leu Arg Ala His Arg Leu His Gln
35 40 45

Leu Ala Phe Asp Thr Tyr Gln Glu Phe Glu Glu Ala Tyr Ile Pro Lys
50 55 60

Glu Gln Lys Tyr Ser Phe Leu Gln Asn Pro Gln Thr Ser Leu Cys Phe
65 70 75 80

Ser Glu Ser Ile Pro Thr Pro Ser Asn Arg Glu Glu Thr Gln Gln Lys
85 90 95

Ser Asn Leu Glu Leu Leu Arg Ile Ser Leu Leu Leu Ile Gln Ser Trp
100 105 110

Leu Glu Pro Val Gln Phe Leu Arg Ser Val Phe Ala Asn Ser Leu Val
115 120 125

Tyr Gly Ala Ser Asp Ser Asn Val Tyr Asp Leu Leu Lys Asp Leu Glu
130 135 140

Glu Gly Ile Gln Thr Leu Met Gly Arg Leu Glu Asp Gly Ser Pro Arg
145 150 155 160

Thr Gly Gln Ile Phe Lys Gln Thr Tyr Ser Lys Phe Asp Thr Asn Ser
165 170 175

His Asn Asp Asp Ala Leu Leu Lys Asn Tyr Gly Leu Leu Tyr Cys Phe
180 185 190

Arg Lys Asp Met Asp Lys Val Glu Thr Phe Leu Arg Ile Val Gln Cys

195 200 205
 Arg Ser Val Glu Gly Ser Cys Gly Phe Ser Ser Ser Ser Lys Ala Pro
 210 215 220
 Pro Pro Ser Leu Pro Ser Pro Ser Arg Leu Pro Gly Pro Ser Asp Thr
 225 230 235 240
 Pro Ile Leu Pro Gln
 245

<210> 10
 <211> 273
 <212> PRT
 <213> Homo sapiens

<400> 10

Met Ala Thr Gly Ser Arg Thr Ser Leu Leu Leu Ala Phe Gly Leu Leu
 1 5 10 15

Cys Leu Pro Trp Leu Gln Glu Gly Ser Ala Phe Pro Thr Ile Pro Leu
 20 25 30

Ser Arg Leu Phe Asp Asn Ala Met Leu Arg Ala His Arg Leu His Gln
 35 40 45

Leu Ala Phe Asp Thr Tyr Gln Glu Phe Glu Glu Ala Tyr Ile Pro Lys
 50 55 60

Glu Gln Lys Tyr Ser Phe Leu Gln Asn Pro Gln Thr Ser Leu Cys Phe
 65 70 75 80

Ser Glu Ser Ile Pro Thr Pro Ser Asn Arg Glu Glu Thr Gln Gln Lys
 85 90 95

Ser Asn Leu Glu Leu Leu Arg Ile Ser Leu Leu Leu Ile Gln Ser Trp
 100 105 110

Leu Glu Pro Val Gln Phe Leu Arg Ser Val Phe Ala Asn Ser Leu Val
 115 120 125

Tyr Gly Ala Ser Asp Ser Asn Val Tyr Asp Leu Leu Lys Asp Leu Glu
 130 135 140

Glu Gly Ile Gln Thr Leu Met Gly Arg Leu Glu Asp Gly Ser Pro Arg
145 150 155 160

Thr Gly Gln Ile Phe Lys Gln Thr Tyr Ser Lys Phe Asp Thr Asn Ser
165 170 175

His Asn Asp Asp Ala Leu Leu Lys Asn Tyr Gly Leu Leu Tyr Cys Phe
180 185 190

Arg Lys Asp Met Asp Lys Val Glu Thr Phe Leu Arg Ile Val Gln Cys
195 200 205

Arg Ser Val Glu Gly Ser Cys Gly Phe Ser Ser Ser Ser Lys Ala Pro
210 215 220

Pro Pro Ser Leu Pro Ser Pro Ser Arg Leu Pro Gly Pro Ser Asp Thr
225 230 235 240

Pro Ile Leu Pro Gln Ser Ser Ser Ser Lys Ala Pro Pro Pro Ser Leu
245 250 255

Pro Ser Pro Ser Arg Leu Pro Gly Pro Ser Asp Thr Pro Ile Leu Pro
260 265 270

Gln

<210> 11
<211> 301
<212> PRT
<213> Homo sapiens

<400> 11

Met Ala Thr Gly Ser Arg Thr Ser Leu Leu Leu Ala Phe Gly Leu Leu
1 5 10 15

Cys Leu Pro Trp Leu Gln Glu Gly Ser Ala Ser Ser Ser Ser Lys Ala
20 25 30

Pro Pro Pro Ser Leu Pro Ser Pro Ser Arg Leu Pro Gly Pro Ser Asp
35 40 45

Thr Pro Ile Leu Pro Gln Phe Pro Thr Ile Pro Leu Ser Arg Leu Phe
50 55 60

Asp Asn Ala Met Leu Arg Ala His Arg Leu His Gln Leu Ala Phe Asp
65 70 75 80

Thr Tyr Gln Glu Phe Glu Glu Ala Tyr Ile Pro Lys Glu Gln Lys Tyr
85 90 95

Ser Phe Leu Gln Asn Pro Gln Thr Ser Leu Cys Phe Ser Glu Ser Ile
100 105 110

Pro Thr Pro Ser Asn Arg Glu Glu Thr Gln Gln Lys Ser Asn Leu Glu
115 120 125

Leu Leu Arg Ile Ser Leu Leu Leu Ile Gln Ser Trp Leu Glu Pro Val
130 135 140

Gln Phe Leu Arg Ser Val Phe Ala Asn Ser Leu Val Tyr Gly Ala Ser
145 150 155 160

Asp Ser Asn Val Tyr Asp Leu Leu Lys Asp Leu Glu Glu Gly Ile Gln
165 170 175

Thr Leu Met Gly Arg Leu Glu Asp Gly Ser Pro Arg Thr Gly Gln Ile
180 185 190

Phe Lys Gln Thr Tyr Ser Lys Phe Asp Thr Asn Ser His Asn Asp Asp
195 200 205

Ala Leu Leu Lys Asn Tyr Gly Leu Leu Tyr Cys Phe Arg Lys Asp Met
210 215 220

Asp Lys Val Glu Thr Phe Leu Arg Ile Val Gln Cys Arg Ser Val Glu
225 230 235 240

Gly Ser Cys Gly Phe Ser Ser Ser Ser Lys Ala Pro Pro Pro Ser Leu
245 250 255

Pro Ser Pro Ser Arg Leu Pro Gly Pro Ser Asp Thr Pro Ile Leu Pro
260 265 270

Gln Ser Ser Ser Ser Lys Ala Pro Pro Pro Ser Leu Pro Ser Pro Ser
275 280 285

Arg Leu Pro Gly Pro Ser Asp Thr Pro Ile Leu Pro Gln

290	295	300
<210> 12		
<211> 285		
<212> PRT		
<213> Homo sapiens		
<400> 12		
Met	Ala	Thr Gly Ser Arg Thr Ser Leu Leu Leu Ala Phe Gly Leu Leu
1	5	10 15
Cys	Leu Pro Trp Leu Gln Glu Gly Ser Ala Ser Ser Ser Ser Lys Ala	
	20	25 30
Pro	Pro Pro Ser Leu Pro Phe Pro Thr Ile Pro Leu Ser Arg Leu Phe	
	35	40 45
Asp	Asn Ala Met Leu Arg Ala His Arg Leu His Gln Leu Ala Phe Asp	
	50	55 60
Thr	Tyr Gln Glu Phe Glu Glu Ala Tyr Ile Pro Lys Glu Gln Lys Tyr	
65	70	75 80
Ser	Phe Leu Gln Asn Pro Gln Thr Ser Leu Cys Phe Ser Glu Ser Ile	
	85	90 95
Pro	Thr Pro Ser Asn Arg Glu Glu Thr Gln Gln Lys Ser Asn Leu Glu	
	100	105 110
Leu	Leu Arg Ile Ser Leu Leu Leu Ile Gln Ser Trp Leu Glu Pro Val	
	115	120 125
Gln	Phe Leu Arg Ser Val Phe Ala Asn Ser Leu Val Tyr Gly Ala Ser	
	130	135 140
Asp	Ser Asn Val Tyr Asp Leu Leu Lys Asp Leu Glu Glu Gly Ile Gln	
145	150	155 160
Thr	Leu Met Gly Arg Leu Glu Asp Gly Ser Pro Arg Thr Gly Gln Ile	
	165	170 175
Phe	Lys Gln Thr Tyr Ser Lys Phe Asp Thr Asn Ser His Asn Asp Asp	
	180	185 190

Ala Leu Leu Lys Asn Tyr Gly Leu Leu Tyr Cys Phe Arg Lys Asp Met
195 200 205

Asp Lys Val Glu Thr Phe Leu Arg Ile Val Gln Cys Arg Ser Val Glu
210 215 220

Gly Ser Cys Gly Phe Ser Ser Ser Ser Lys Ala Pro Pro Pro Ser Leu
225 230 235 240

Pro Ser Pro Ser Arg Leu Pro Gly Pro Ser Asp Thr Pro Ile Leu Pro
245 250 255

Gln Ser Ser Ser Ser Lys Ala Pro Pro Pro Ser Leu Pro Ser Pro Ser
260 265 270

Arg Leu Pro Gly Pro Ser Asp Thr Pro Ile Leu Pro Gln
275 280 285

<210> 13
<211> 273
<212> PRT
<213> Homo sapiens

<400> 13

Met Ala Thr Gly Ser Arg Thr Ser Leu Leu Leu Ala Phe Gly Leu Leu
1 5 10 15

Cys Leu Pro Trp Leu Gln Glu Gly Ser Ala Ser Ser Ser Ser Lys Ala
20 25 30

Pro Pro Pro Ser Leu Pro Ser Pro Ser Arg Leu Pro Gly Pro Ser Asp
35 40 45

Thr Pro Ile Leu Pro Gln Phe Pro Thr Ile Pro Leu Ser Arg Leu Phe
50 55 60

Asp Asn Ala Met Leu Arg Ala His Arg Leu His Gln Leu Ala Phe Asp
65 70 75 80

Thr Tyr Gln Glu Phe Glu Glu Ala Tyr Ile Pro Lys Glu Gln Lys Tyr
85 90 95

Ser Phe Leu Gln Asn Pro Gln Thr Ser Leu Cys Phe Ser Glu Ser Ile
100 105 110

Pro Thr Pro Ser Asn Arg Glu Glu Thr Gln Gln Lys Ser Asn Leu Glu
115 120 125

Leu Leu Arg Ile Ser Leu Leu Leu Ile Gln Ser Trp Leu Glu Pro Val
130 135 140

Gln Phe Leu Arg Ser Val Phe Ala Asn Ser Leu Val Tyr Gly Ala Ser
145 150 155 160

Asp Ser Asn Val Tyr Asp Leu Leu Lys Asp Leu Glu Glu Gly Ile Gln
165 170 175

Thr Leu Met Gly Arg Leu Glu Asp Gly Ser Pro Arg Thr Gly Gln Ile
180 185 190

Phe Lys Gln Thr Tyr Ser Lys Phe Asp Thr Asn Ser His Asn Asp Asp
195 200 205

Ala Leu Leu Lys Asn Tyr Gly Leu Leu Tyr Cys Phe Arg Lys Asp Met
210 215 220

Asp Lys Val Glu Thr Phe Leu Arg Ile Val Gln Cys Arg Ser Val Glu
225 230 235 240

Gly Ser Cys Gly Phe Ser Ser Ser Ser Lys Ala Pro Pro Pro Ser Leu
245 250 255

Pro Ser Pro Ser Arg Leu Pro Gly Pro Ser Asp Thr Pro Ile Leu Pro
260 265 270

Gln

<210> 14
<211> 245
<212> PRT
<213> Homo sapiens

<400> 14

Met Ala Thr Gly Ser Arg Thr Ser Leu Leu Leu Ala Phe Gly Leu Leu
1 5 10 15

Cys Leu Pro Trp Leu Gln Glu Gly Ser Ala Ser Ser Ser Ser Lys Ala
20 25 30

Pro Pro Pro Ser Leu Pro Ser Pro Ser Arg Leu Pro Gly Pro Ser Asp
35 40 45

Thr Pro Ile Leu Pro Gln Phe Pro Thr Ile Pro Leu Ser Arg Leu Phe
50 55 60

Asp Asn Ala Met Leu Arg Ala His Arg Leu His Gln Leu Ala Phe Asp
65 70 75 80

Thr Tyr Gln Glu Phe Glu Glu Ala Tyr Ile Pro Lys Glu Gln Lys Tyr
85 90 95

Ser Phe Leu Gln Asn Pro Gln Thr Ser Leu Cys Phe Ser Glu Ser Ile
100 105 110

Pro Thr Pro Ser Asn Arg Glu Glu Thr Gln Gln Lys Ser Asn Leu Glu
115 120 125

Leu Leu Arg Ile Ser Leu Leu Leu Ile Gln Ser Trp Leu Glu Pro Val
130 135 140

Gln Phe Leu Arg Ser Val Phe Ala Asn Ser Leu Val Tyr Gly Ala Ser
145 150 155 160

Asp Ser Asn Val Tyr Asp Leu Leu Lys Asp Leu Glu Glu Gly Ile Gln
165 170 175

Thr Leu Met Gly Arg Leu Glu Asp Gly Ser Pro Arg Thr Gly Gln Ile
180 185 190

Phe Lys Gln Thr Tyr Ser Lys Phe Asp Thr Asn Ser His Asn Asp Asp
195 200 205

Ala Leu Leu Lys Asn Tyr Gly Leu Leu Tyr Cys Phe Arg Lys Asp Met
210 215 220

Asp Lys Val Glu Thr Phe Leu Arg Ile Val Gln Cys Arg Ser Val Glu
225 230 235 240

Gly Ser Cys Gly Phe
245

<210> 15
<211> 853
<212> DNA
<213> Homo sapiens

<400> 15
tctagaggac atggccaccg gcagcaggac cagcctgctg ctggccttcg gcctgctgtg
60

cctgccatgg ctgcaggagg gcagcgccag ctcttcttct aaggctccac ccccatctct
120

gccagcccc agcagactgc cgggccccag cgacacaccc attctgcccc agtccccac
180

catccccctg agcaggctgt tcgacaacgc catgctgagg gtcacaggc tgcaccagct
240

ggcctttgac acctaccagg agttcgagga agcctacatc cccaaggagc agaagtacag
300

cttcctgcag aacccccaga cctccctgtg cttcagcgag agcatcccca cccccagcaa
360

cagagaggag acccagcaga agagcaacct ggagctgctg aggatctccc tgctgctgat
420

ccagagctgg ctggagcccc tgcagttcct gagaagcgtg ttcgccaaca gcctggtgta
480

cggcgccagc gacagcaacg tgtacgacct gctgaaggac ctggaggagg gcatccagac
540

cctgatgggc cggctggagg acggcagccc caggaccggc cagatcttca agcagacct
600

cagcaagttc gacaccaaca gccacaacga cgacgccctg ctgaagaact acgggctgct
660

gtactgcttc agaaaggaca tggacaaggt ggagaccttc ctgaggatcg tgcagtgcag
720

aagcgtggag ggcagctgcg gcttcagctc cagcagcaag gcccctcccc cgagcctgcc
780

ctccccaagc aggctgcctg ggcctccga cacaccaatc ctgcctcagt gatgaaggtc
840

tggatgcggc cgc
853

<210> 16
<211> 937
<212> DNA
<213> Homo sapiens

<400> 16

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60

cctgccatgg ctgcaggagg gcagcgccag ctcttcttct aaggctccac ccccatctct
120

gcccagcccc agcagactgc cgggccccag cgacacaccc attctgcccc agttccccac
180

catccccctg agcaggctgt tcgacaacgc catgctgagg gctcacaggc tgcaccagct
240

ggcctttgac acctaccagg agttcgagga agcctacatc cccaaggagc agaagtacag
300

cttcctgcag aacccccaga cctccctgtg cttcagcgag agcatcccca cccccagcaa
360

cagagaggag acccagcaga agagcaacct ggagctgctg aggatctccc tgctgctgat
420

ccagagctgg ctggagcccc tgcagttcct gagaagcgtg ttcgccaaca gcctggtgta
480

cggcgccagc gacagcaacg tgtacgacct gctgaaggac ctggaggagg gcatccagac
540

cctgatgggc cggctggagg acggcagccc caggaccggc cagatcttca agcagacctt
600

cagcaagttc gacaccaaca gccacaacga cgacgccctg ctgaagaact acgggctgct
660

gtactgcttc agaaaggaca tggacaaggt ggagaccttc ctgaggatcg tgcagtgcag
720

aagcgtggag ggcagctgcg gcttcagctc cagcagcaag gcccctcccc cgagcctgcc
780

ctccccaagc aggctgcctg ggccctccga cacaccaatc ctgccacaga gcagctcctc
840

taaggcccct cctccatccc tgccatcccc ctcccggctg cctggcccct ctgacacccc
900

tatcctgcct cagtgatgaa ggtctggatg cggccgc
937

<210> 17

<211> 889

<212> DNA

<213> Homo sapiens

<400> 17

tctagaggac atggccaccg gcagcaggac cagcctgctg ctggccttcg gcctgctgtg
60

cctgccatgg ctgcaggagg gcagcgccag ctcttcttct aaggctccac ccccgagcct
120

gcccttcccc accatcccc tgagcaggct gttcgacaac gccatgctga gggctcacag
180

gctgcaccag ctggcctttg acacctacca ggagttcgag gaagcctaca tccccaggga
240

gcagaagtac agcttcctgc agaaccacca gacctccctg tgcttcagcg agagcatccc
300

cacccccagc aacagagagg agaccagca gaagagcaac ctggagctgc tgaggatctc
360

cctgctgctg atccagagct ggctggagcc cgtgcagttc ctgagaagcg tgttcgcca
420

cagcctggtg tacggcgcca gcgacagcaa cgtgtacgac ctgctgaagg acctggagga
480

gggcatccag accctgatgg gccggctgga ggacggcagc cccaggaccg gccagatctt
540

caagcagacc tacagcaagt tcgacaccaa cagccacaac gacgacgccc tgctgaagaa
600

ctacgggctg ctgtactgct tcagaaagga catggacaag gtggagacct tcctgaggat
660

cgtgcagtgc agaagcgtgg agggcagctg cggcttcagc tccagcagca aggccctcc
720

cccgagcctg ccctcccaaa gcaggctgcc tgggccctcc gacacaccaa tcctgccaca
780

gagcagctcc tctaaggccc ctctccatc cctgccatcc ccctcccggc tgctggccc
840

ctctgacacc cctatcctgc ctcagtgatg aaggctctga tgcggccgc
889

<210> 18

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> XbaI Forward primer for HGH-CTP constructs

<400> 18

ctctagagga catggccac

19

<210> 19

<211> 24

<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer for HGH-CTP constructs

<400> 19
acagggaggt ctgggggttc tgca
24

<210> 20
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer for HGH-CTP constructs

<400> 20
tgcagaaccc ccagacctcc ctgtgc
26

<210> 21
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer for HGH-CTP constructs

<400> 21
ccaaactcat caatgtatct ta
22

<210> 22
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> XbaI Forward primer for HGH-CTP constructs

<400> 22
ctctagagga catggccac
19

<210> 23
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer for HGH-CTP constructs

<400> 23
cgaactcctg gtaggtgtca aaggc
25

<210> 24
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer for HGH-CTP constructs

<400> 24
gcctttgaca cctaccagga gttcg
25

<210> 25
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer for HGH-CTP constructs

<400> 25
acgcggccgc atccagacct tcatcactga ggc
33

<210> 26
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer for HGH-CTP constructs

<400> 26
gcggccgcgg actcatcaga agccgcagct gccc
34