PCT/US2005/025747



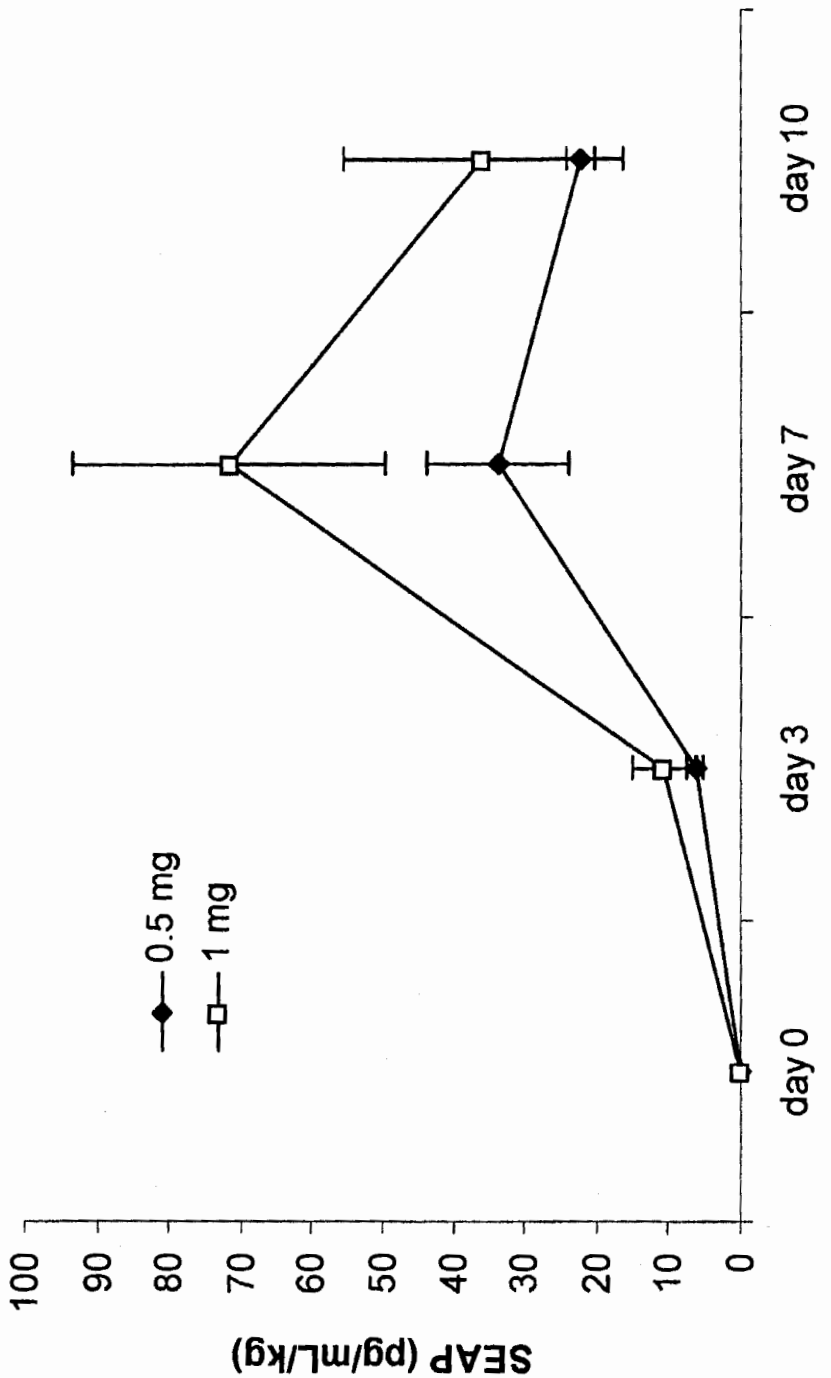



Figure 1

PCT/US2005/025747



| | | GHRH-treated | Control | *P* value |
|---|---|---|---|---|
| Glucose, mg/dL | 60 DIM | 43.9 ± 1.4 | 41.8 ± 4.5 | 0.67 |
| | 100 DIM | 72.2 ± 1.4 | 69.3 ± 3.8 | 0.5 |
| Insulin, µU/mL | 60 DIM | 11.6 ± 2.5 | 9.4 ± 3.2 | 0.59 |
| | 100 DIM | 7.8 ± 1.5 | 7.4 ± 0.6 | 0.8 |

Figure 2

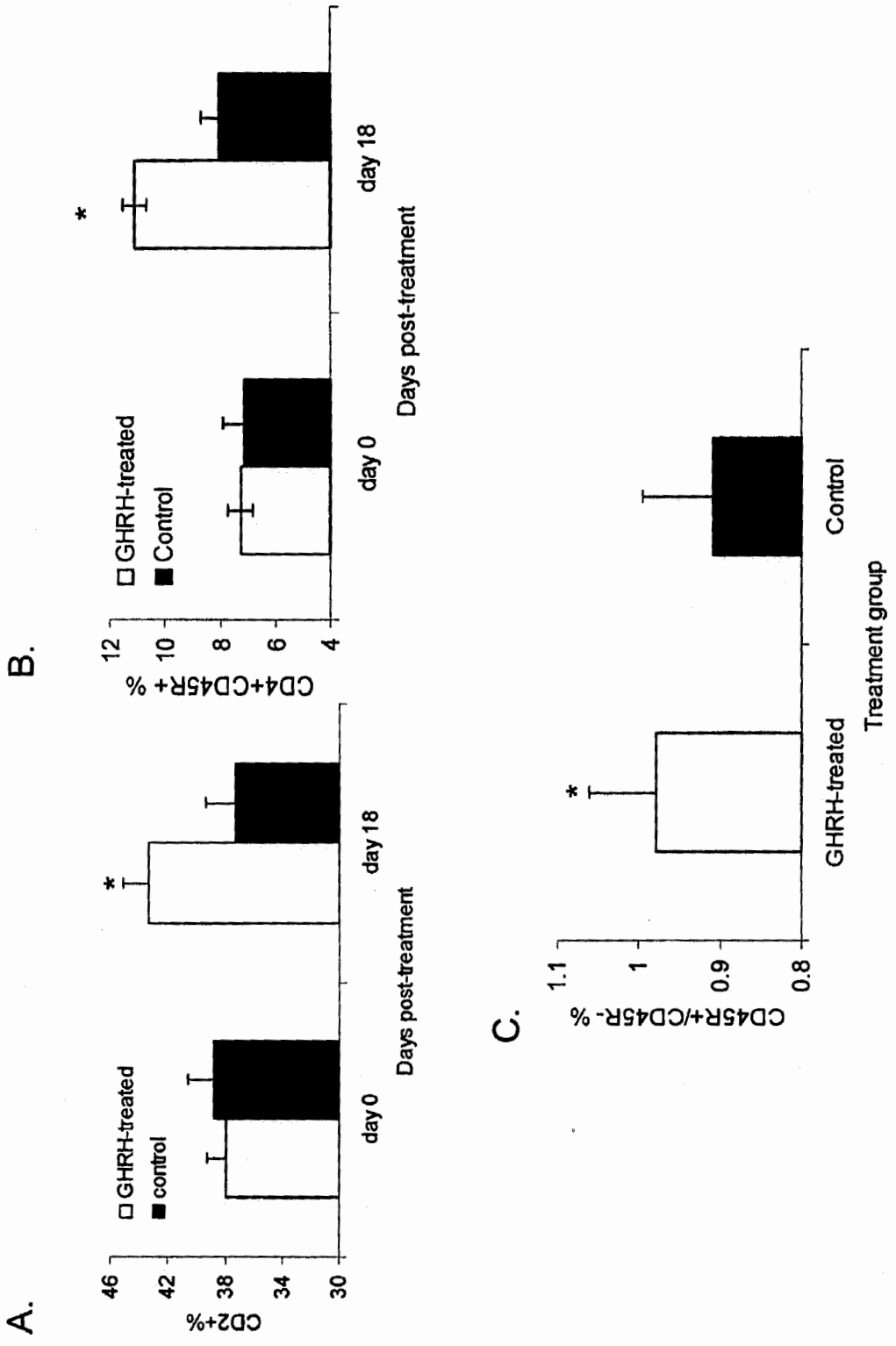

A.
CD2+%
46
42
38
34
30
GHRH-treated
control
*
day 0
day 18
Days post-treatment
B.
CD4+CD45R+ %
12
10
8
6
4
GHRH-treated
Control
*
day 0
day 18
Days post-treatment
C.
CD45R+/CD45R- %
1.1
1
0.9
0.8
*
GHRH-treated
Control
Treatment group

Figure 3

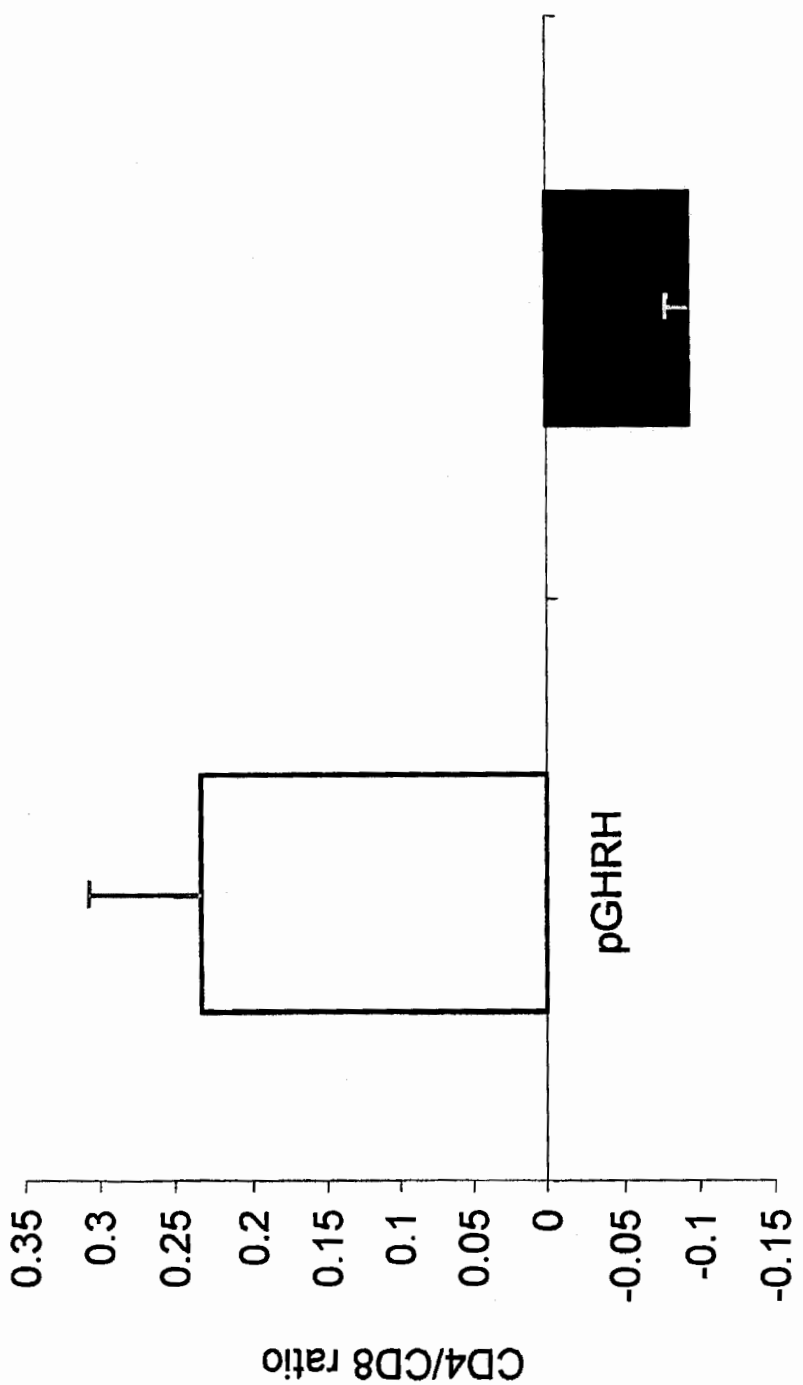



Figure 4

PCT/US2005/025747



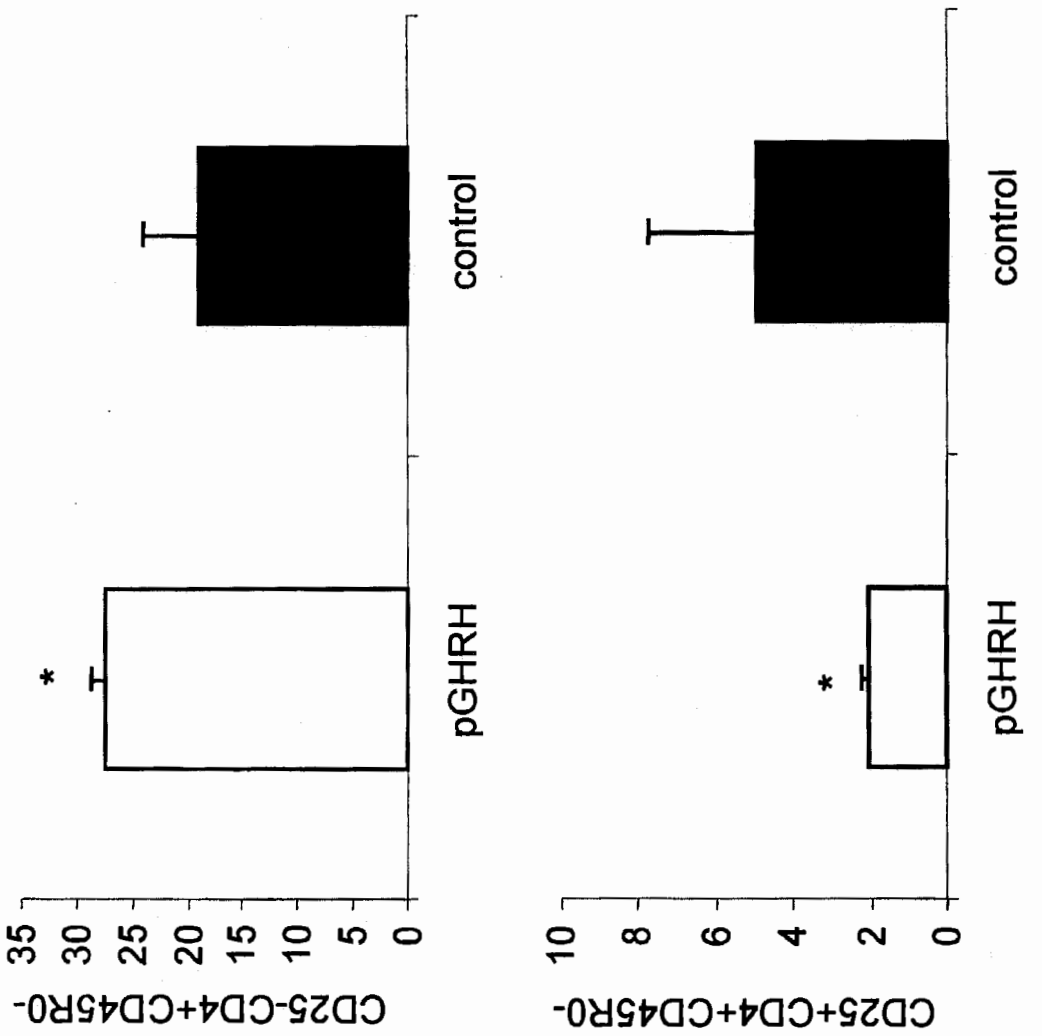



Figure 5

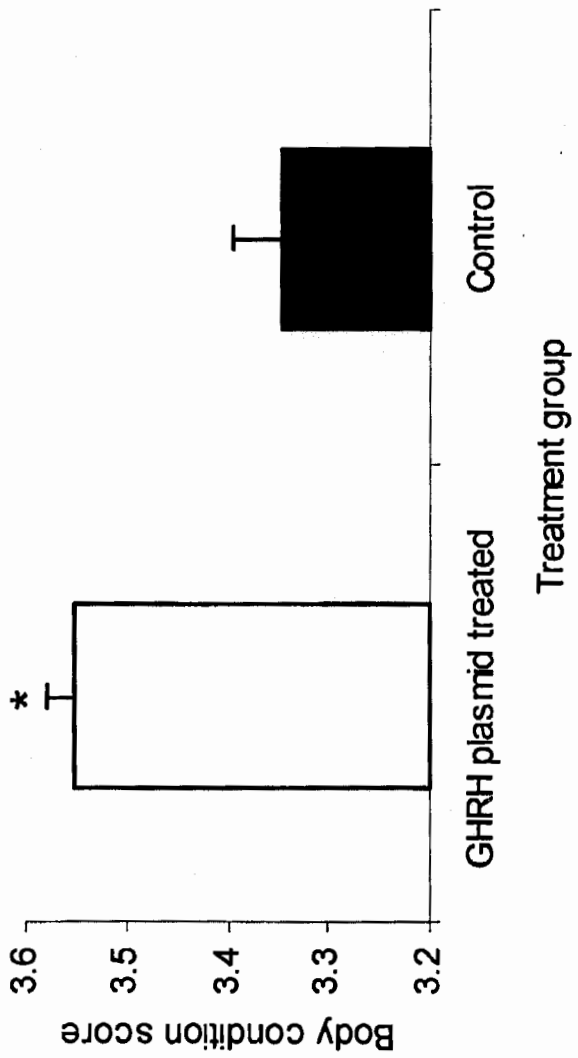

Body condition score
3.6
3.5
3.4
3.3
3.2
*
GHRH plasmid treated
Control
Treatment group

Figure 6

| | | GHRH-treated | Control | *P* value |
|---|---|---|---|---|
| | 60 DPC (A) | 540 ± 28.1 | 543 ± 42.7 | 0.38 |
| Weight, kg | 100 DIM (B) | 536.4 ± 32.9 | 514.2 ± 48 | ***0.04*** |
| | 135 DIM (C) | 544.9 ± 33.1 | 533.5 ± 44.8 | 0.17 |
| Difference, kg | A-B | - 3.5 | - 26.4 | ***0.02*** |
| | A-C | 4 | - 9.1 | 0.1 |
| Difference, % | A-B/A | - 0.5% | - 4.6% | ***0.02*** |
| | A-C/A | 0.1% | - 1.4% | 0.1 |

Figure 7

PCT/US2005/025747



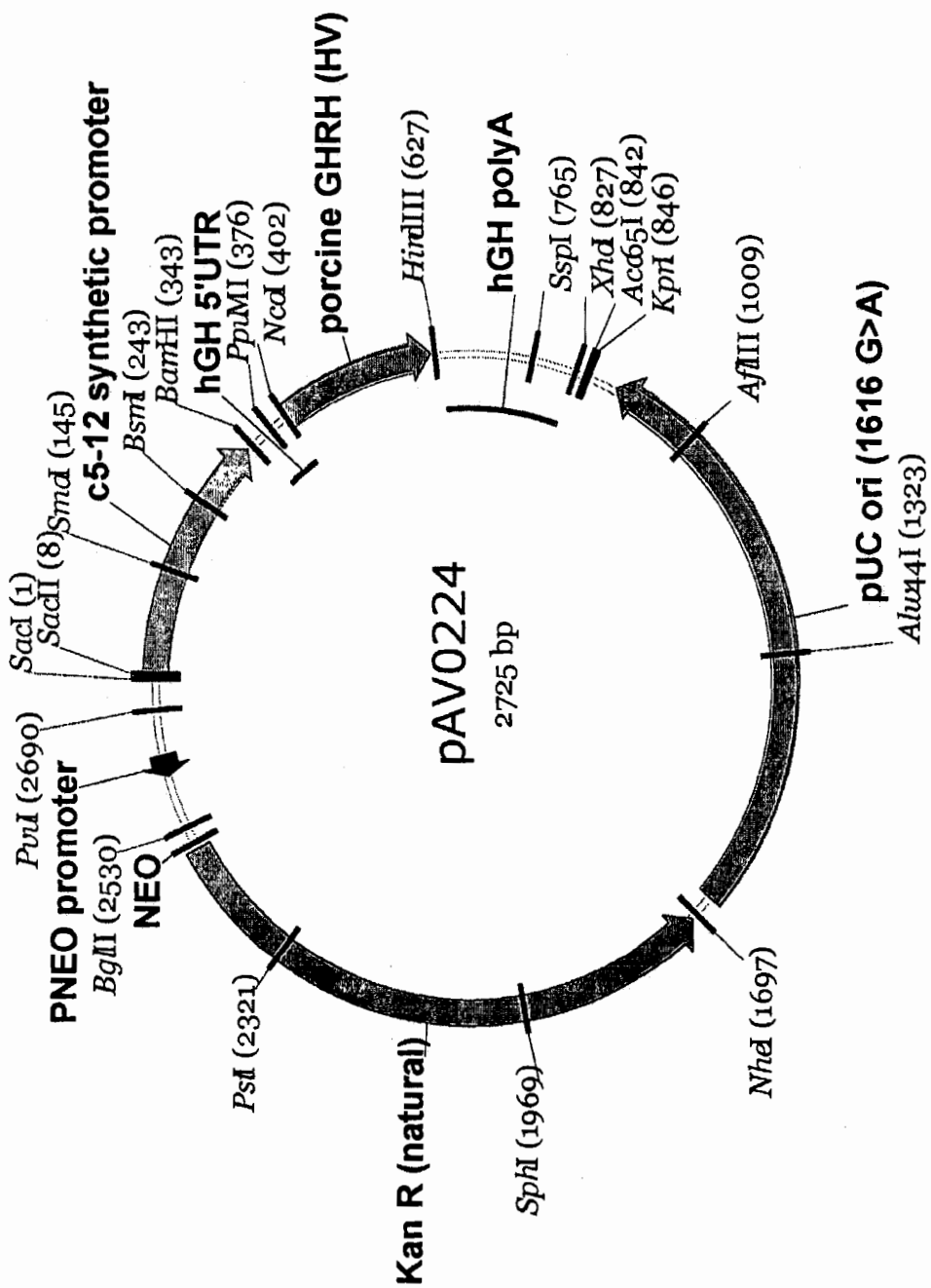



Figure 8

PCT/US2005/025747



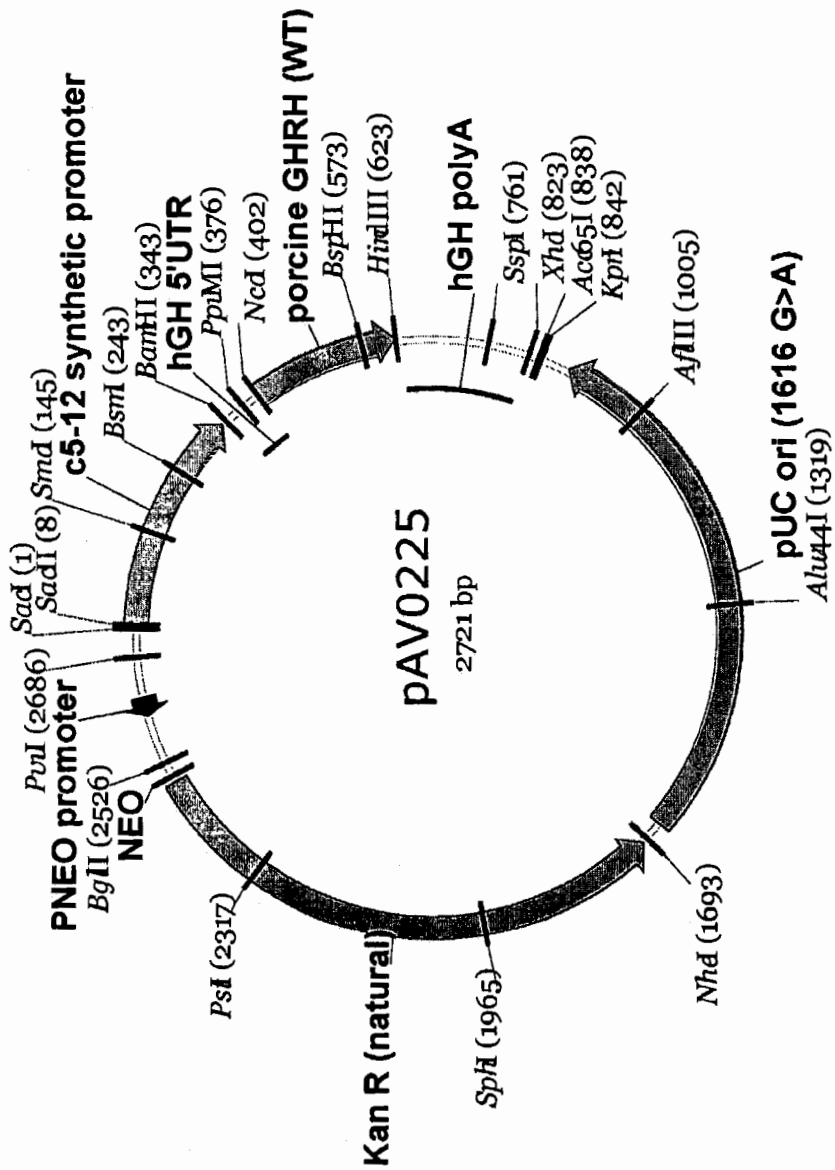



Figure 9

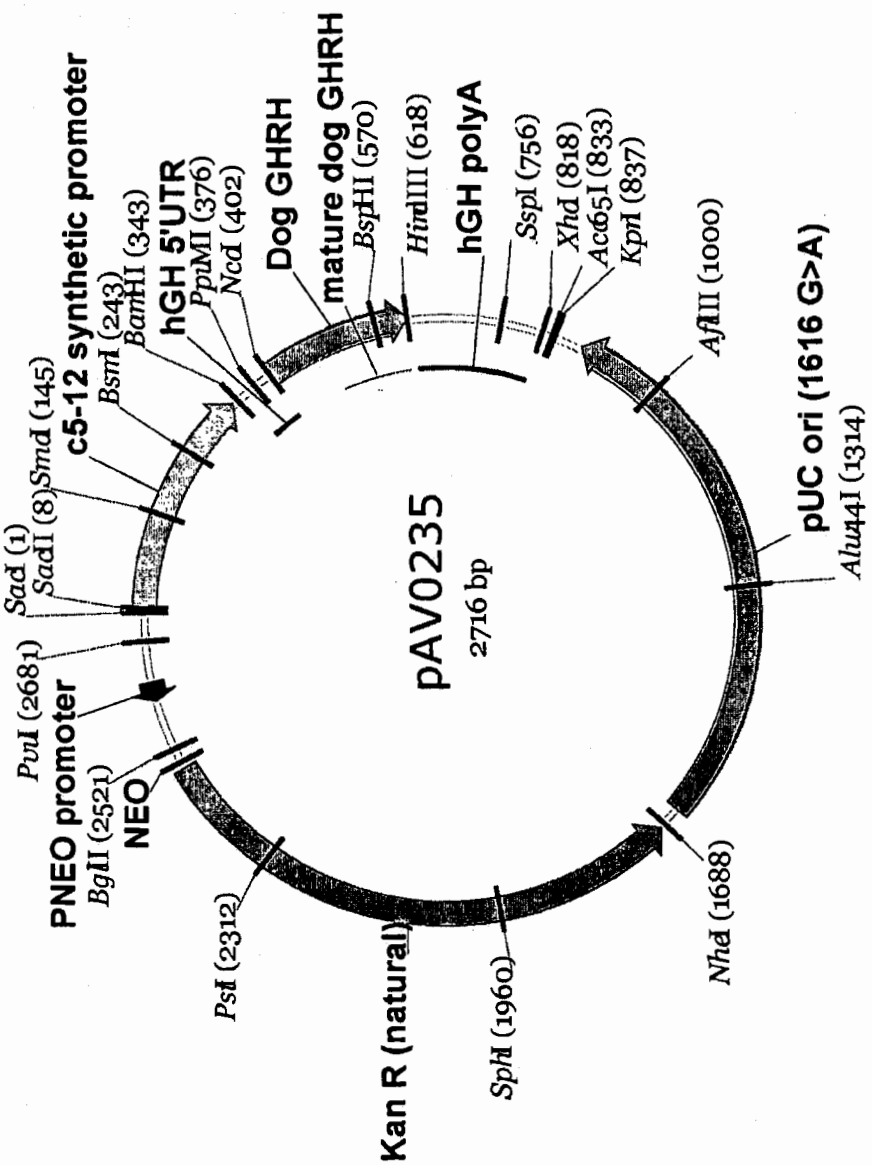

pAV0235
2716 bp
c5-12 synthetic promoter
hGH 5'UTR
Dog GHRH
mature dog GHRH
hGH polyA
pUC ori (1616 G>A)
PNEO promoter
NEO
Kan R (natural)
Sad (1)
SadI (8)
SmaI (145)
BsmI (243)
BamHI (343)
PpuMI (376)
NcoI (402)
BspHI (570)
HindIII (618)
SspI (756)
XhoI (818)
Ac65I (833)
KpnI (837)
AflII (1000)
Alu44I (1314)
NheI (1688)
SphI (1960)
PstI (2312)
BglII (2521)
PvuI (2681)

Figure 10

PCT/US2005/025747



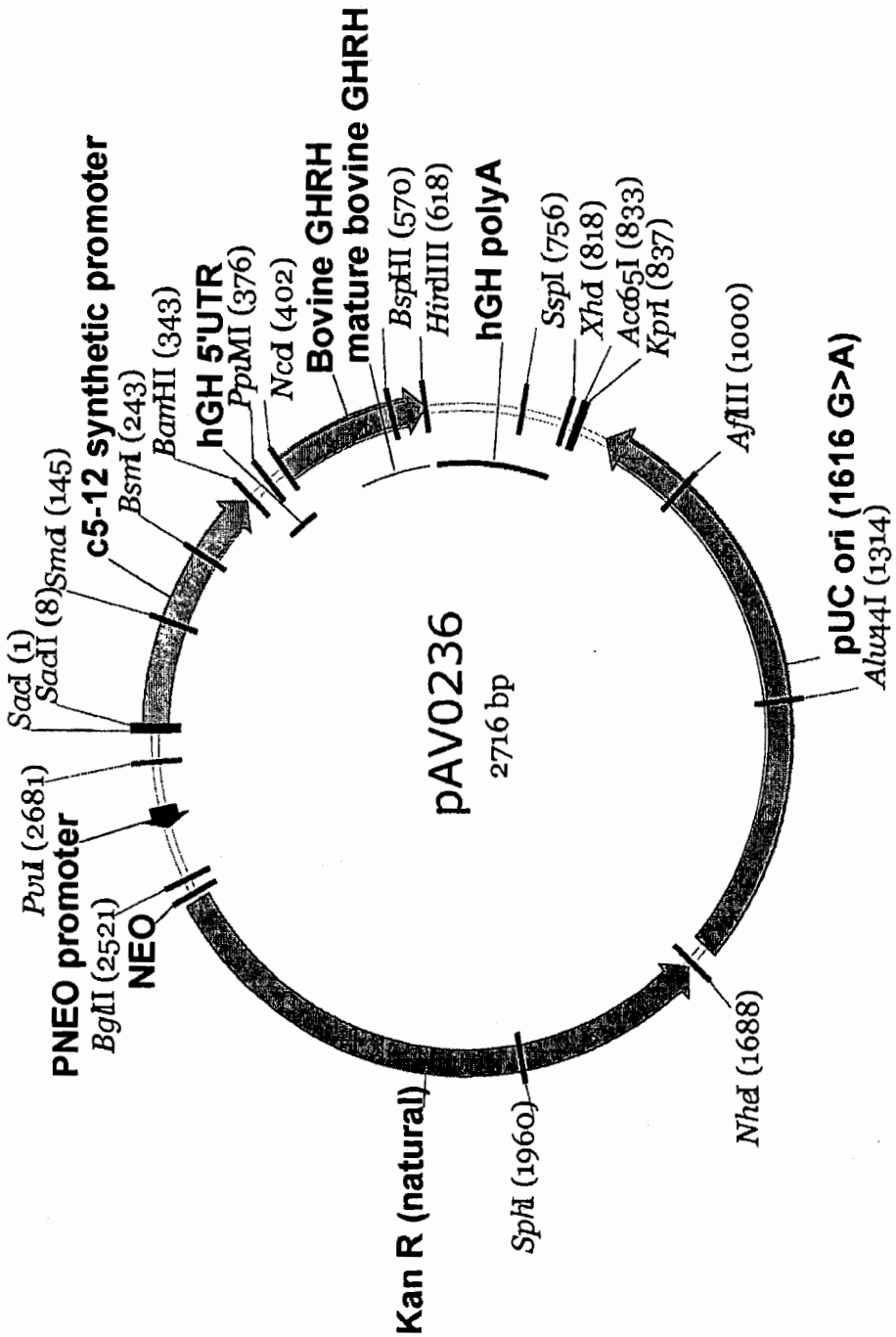



Figure 11

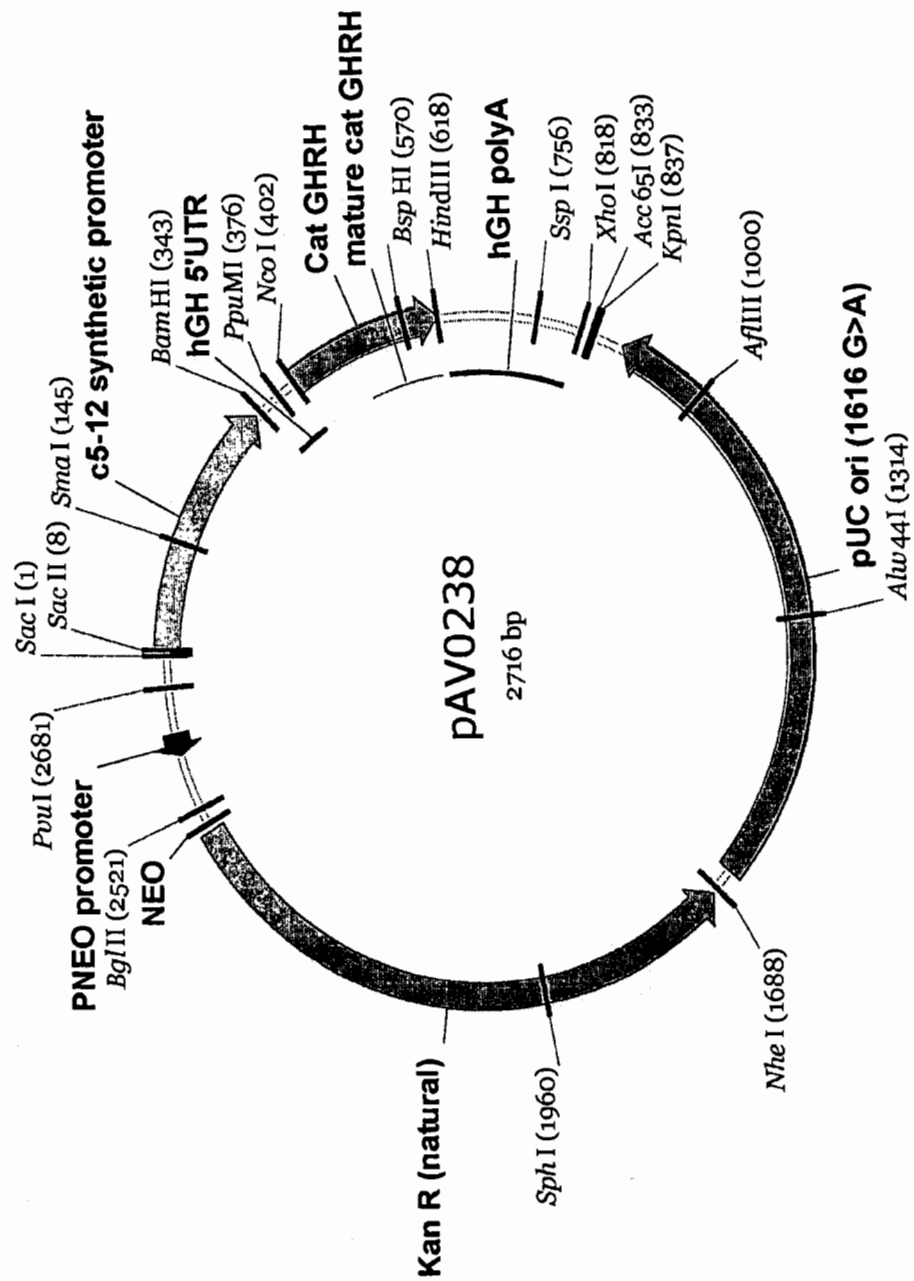

pAV0238
2716 bp
Sac I (1)
Sac II (8)
Sma I (145)
c5-12 synthetic promoter
BamHI (343)
hGH 5'UTR
PpuMI (376)
Nco I (402)
Cat GHRH
mature cat GHRH
Bsp HI (570)
HindIII (618)
hGH polyA
Ssp I (756)
XhoI (818)
Acc 65I (833)
KpnI (837)
AflIII (1000)
pUC ori (1616 G>A)
Alw44I (1314)
Nhe I (1688)
Sph I (1960)
Kan R (natural)
PNEO promoter
BglII (2521)
NEO
PvuI (2681)

Figure 12

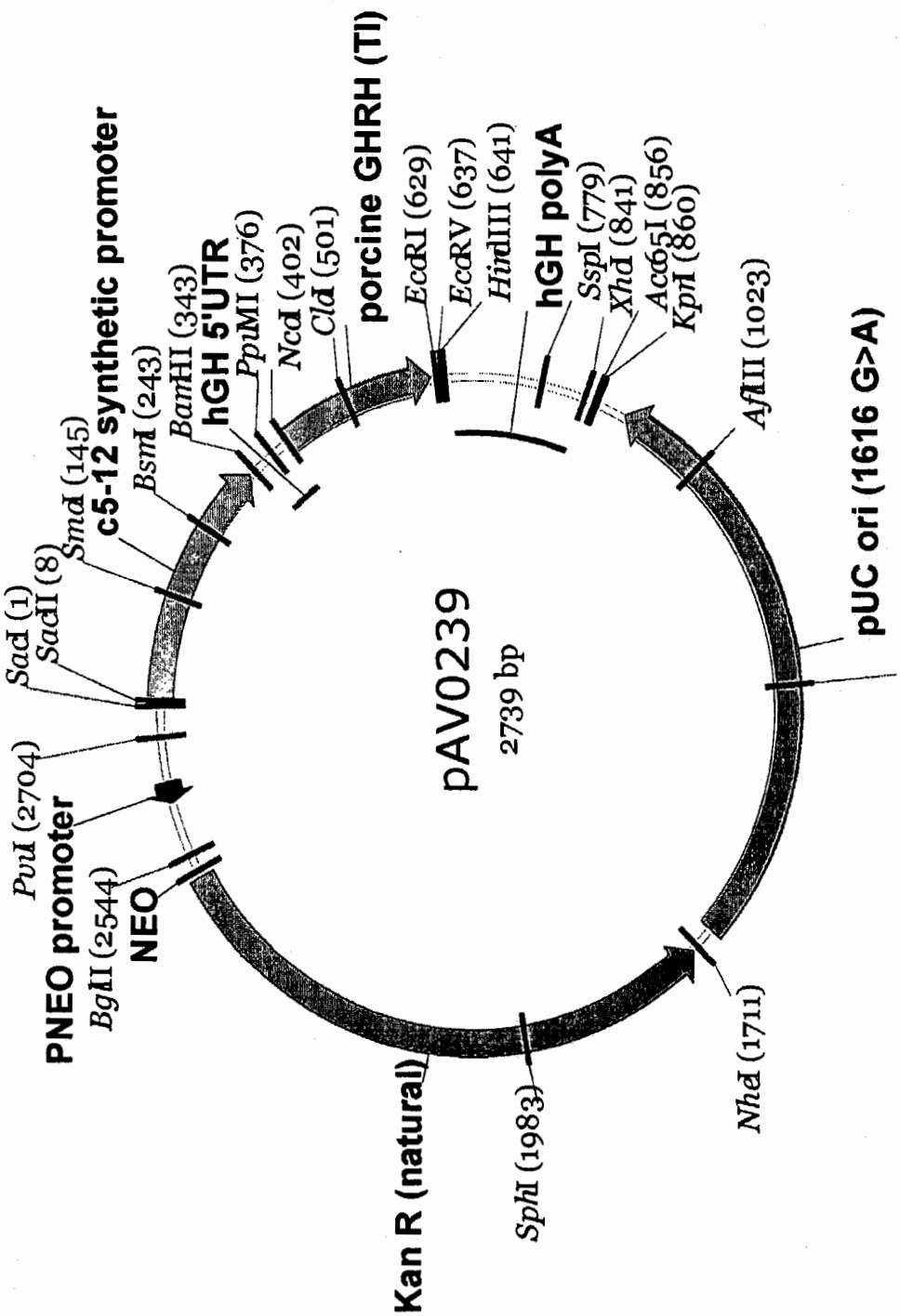

pAV0239
2739 bp
c5-12 synthetic promoter
hGH 5'UTR
porcine GHRH (TI)
hGH polyA
pUC ori (1616 G>A)
PNEO promoter
NEO
Kan R (natural)
Sad (1)
SadI (8)
SmaI (145)
BsmI (243)
BamHI (343)
PpuMI (376)
NcoI (402)
ClaI (501)
EcoRI (629)
EcoRV (637)
HindIII (641)
SspI (779)
XhoI (841)
Acc65I (856)
KpnI (860)
AflII (1023)
Alw44I (1337)
NheI (1711)
SphI (1983)
BglII (2544)
PvuI (2704)

Figure 13

PCT/US05/25747



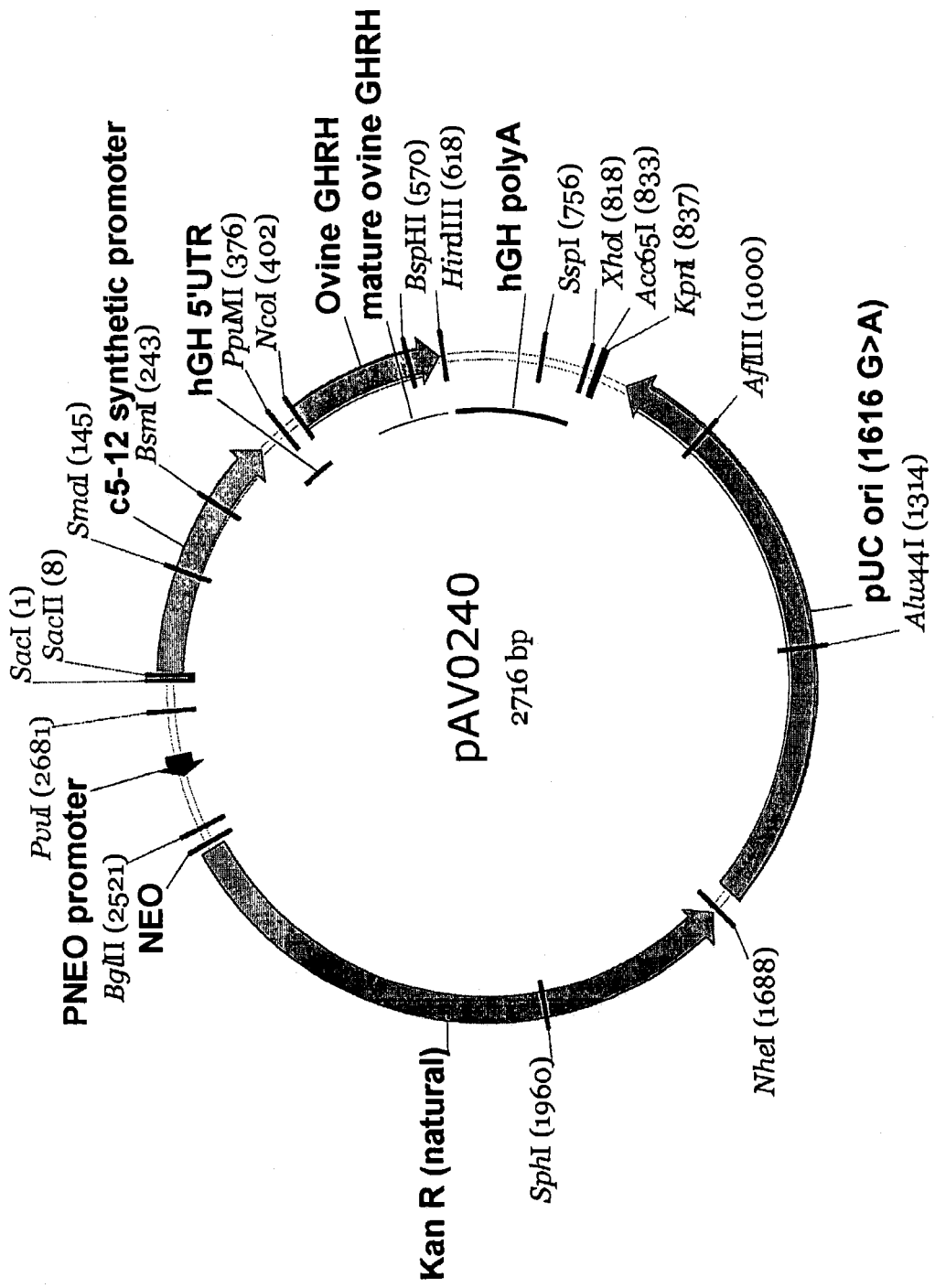



Figure 14

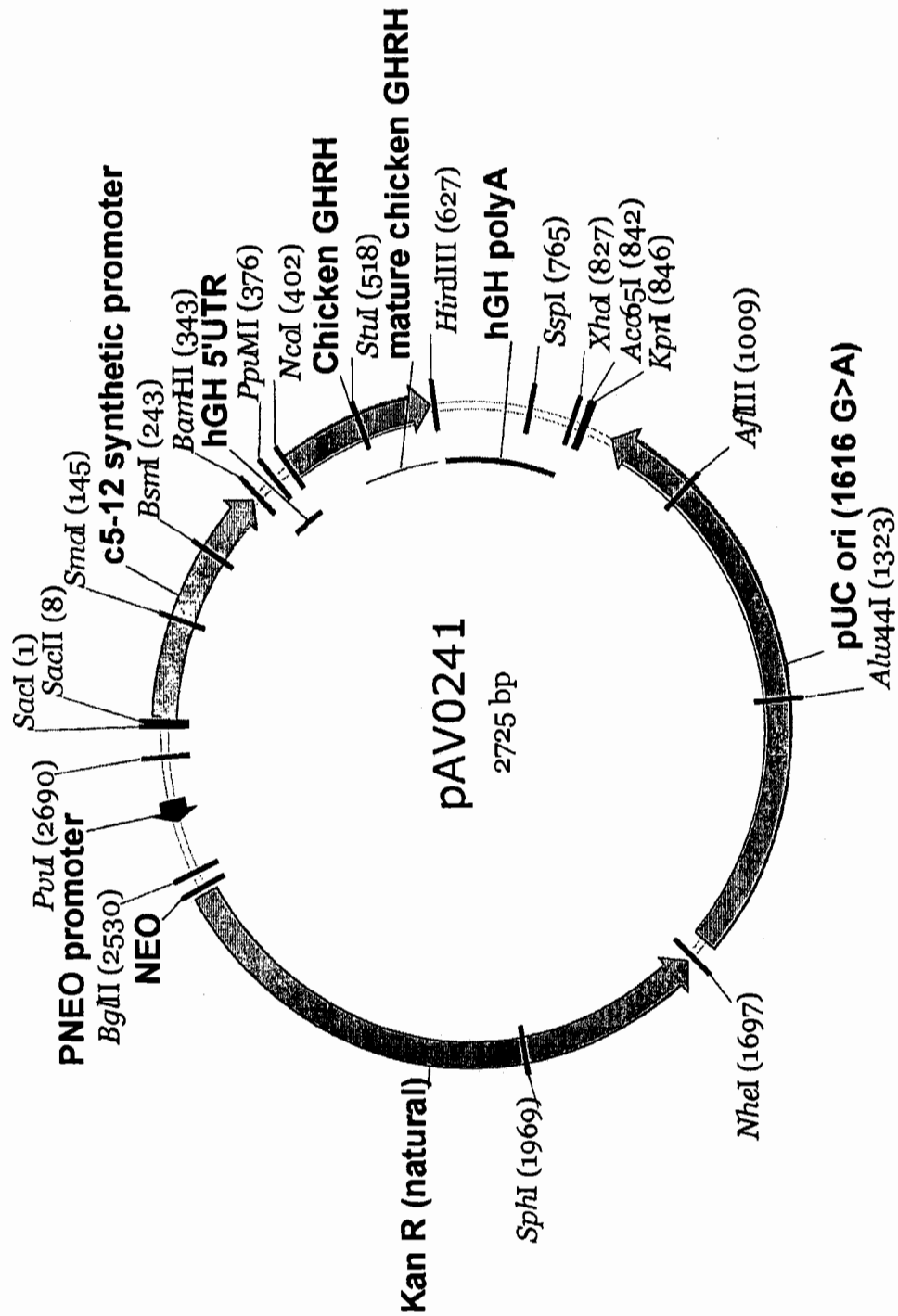

pAV0241
2725 bp
SacI (1)
SacII (8)
SmaI (145)
c5-12 synthetic promoter
BsmI (243)
BamHI (343)
hGH 5'UTR
PpuMI (376)
NcoI (402)
Chicken GHRH
StuI (518)
mature chicken GHRH
HindIII (627)
hGH polyA
SspI (765)
XhoI (827)
Acc65I (842)
KpnI (846)
AflIII (1009)
pUC ori (1616 G>A)
Alw44I (1323)
NheI (1697)
SphI (1969)
Kan R (natural)
PvuI (2690)
PNEO promoter
BglII (2530)
NEO

Figure 15

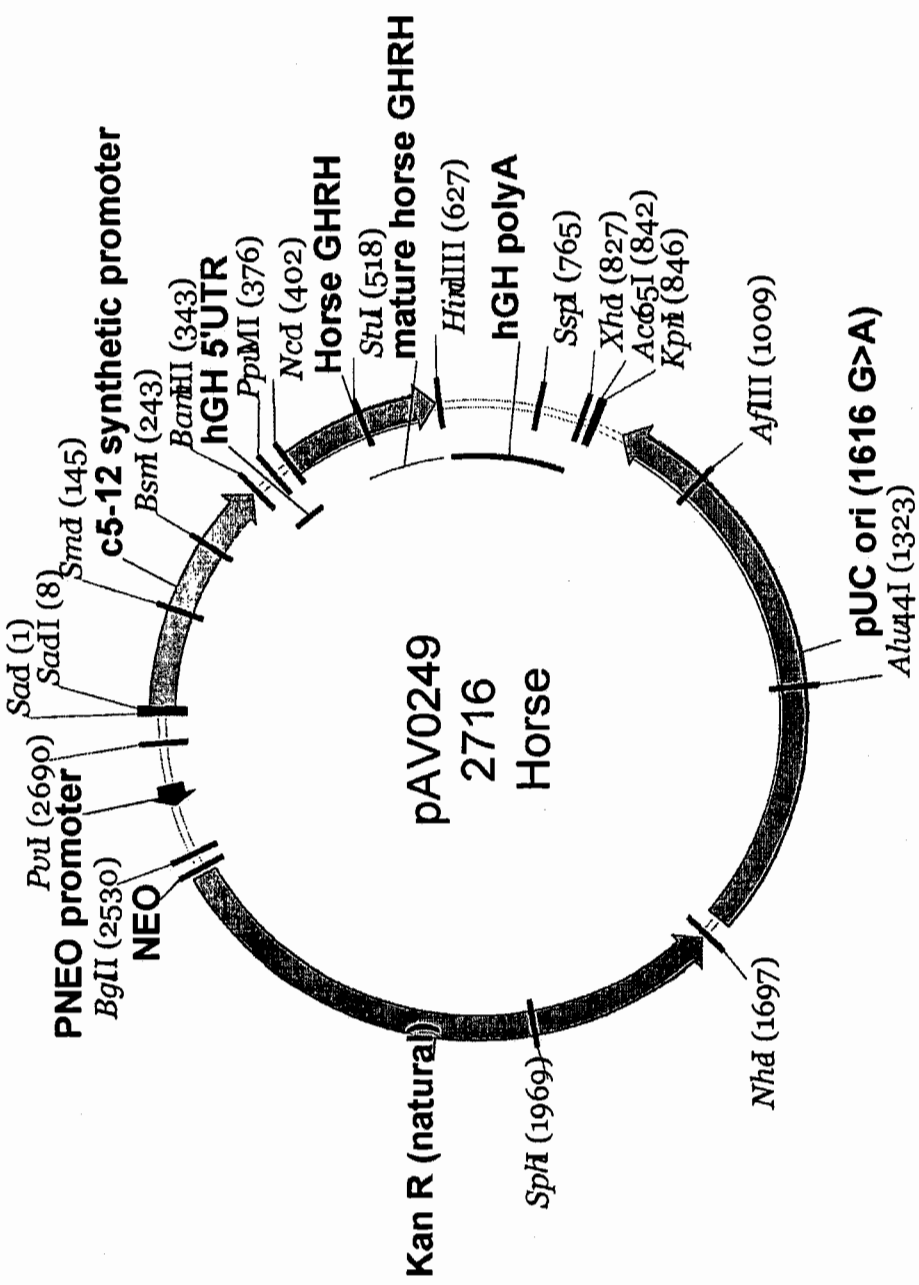

pAV0249
2716
Horse
PNEO promoter
NEO
c5-12 synthetic promoter
hGH 5'UTR
Horse GHRH
mature horse GHRH
hGH polyA
pUC ori (1616 G>A)
Kan R (natural)
Sad (1)
SadI (8)
SmaI (145)
BsmI (243)
BamHI (343)
PpuMI (376)
NcoI (402)
StuI (518)
HindIII (627)
SspI (765)
XhoI (827)
Acc65I (842)
KpnI (846)
AflII (1009)
Alu44I (1323)
NheI (1697)
SphI (1969)
PvuI (2690)
BglII (2530)

Figure 16

PCT/US05/25747



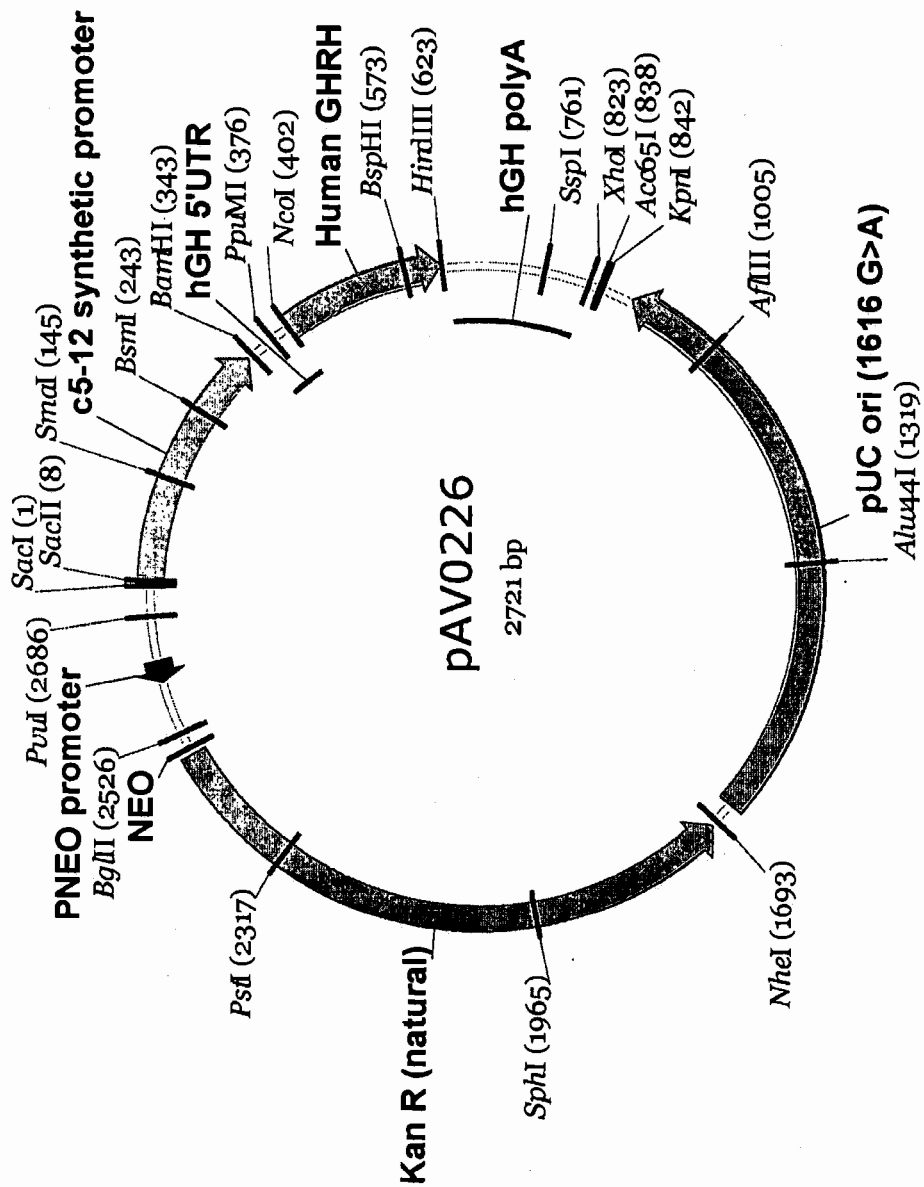



Figure 17