FIG. 1A

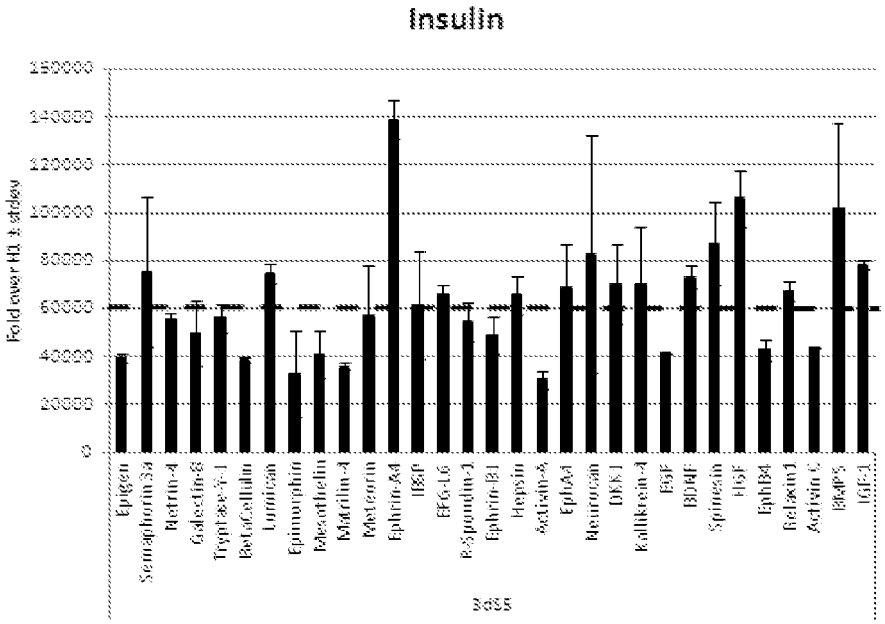

Insulin
Fold over H1 ± stdev
150000
140000
120000
100000
80000
60000
40000
20000
0
Epigen
Semaphorin 3a
Netrin-4
Galectin-8
Tryptase-γ-1
BetaCellulin
Lumican
Epimorphin
Mesothelin
Matrilin-4
Meteorin
Ephrin-A4
IBSP
EFG-L6
R-Spondin-1
Ephrin-B1
Hepsin
Activin-A
EphA4
Neurocan
DKK1
Kallikrein-4
EGF
BDNF
Spinesin
HGF
EphB4
Relaxin 3
Activin C
BMP5
IGF-1
3d35

FIG. 1B

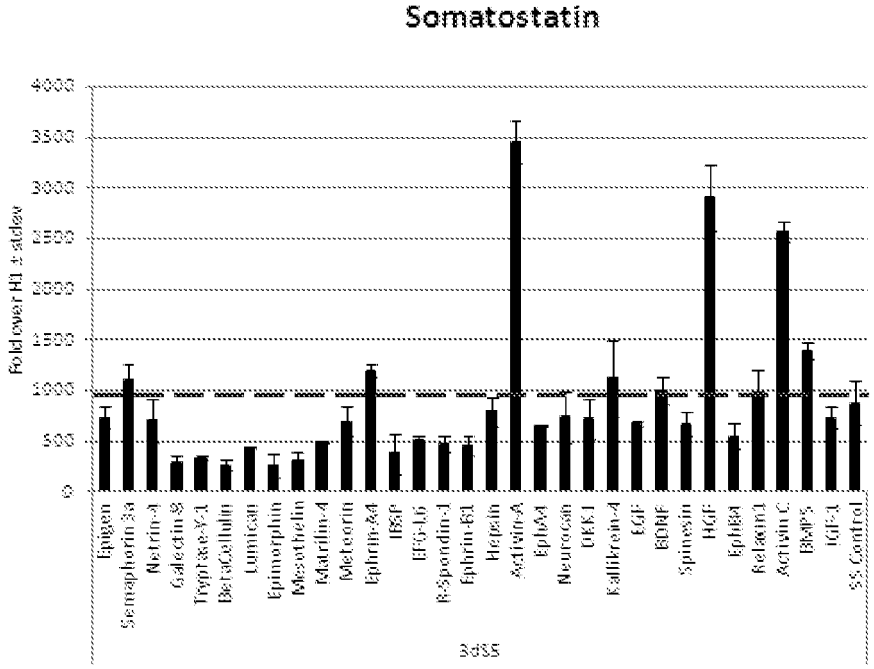

Somatostatin
Fold over H1 ± stdev
4000
3500
3000
2500
2000
1500
1000
500
0
Epigen
Semaphorin 3a
Netrin-4
Galectin-8
Tryptase-γ-1
BetaCellulin
Lumican
Epimorphin
Mesothelin
Matrilin-4
Meteorin
Ephrin-A4
IBSP
EFG-L6
R-Spondin-1
Ephrin-B1
Hepsin
Activin-A
EphA4
Neurocan
DKK1
Kallikrein-4
EGF
BDNF
Spinesin
HGF
EphB4
Relaxin 3
Activin C
BMP5
IGF-1
SS Control
3d35

FIG. 1C

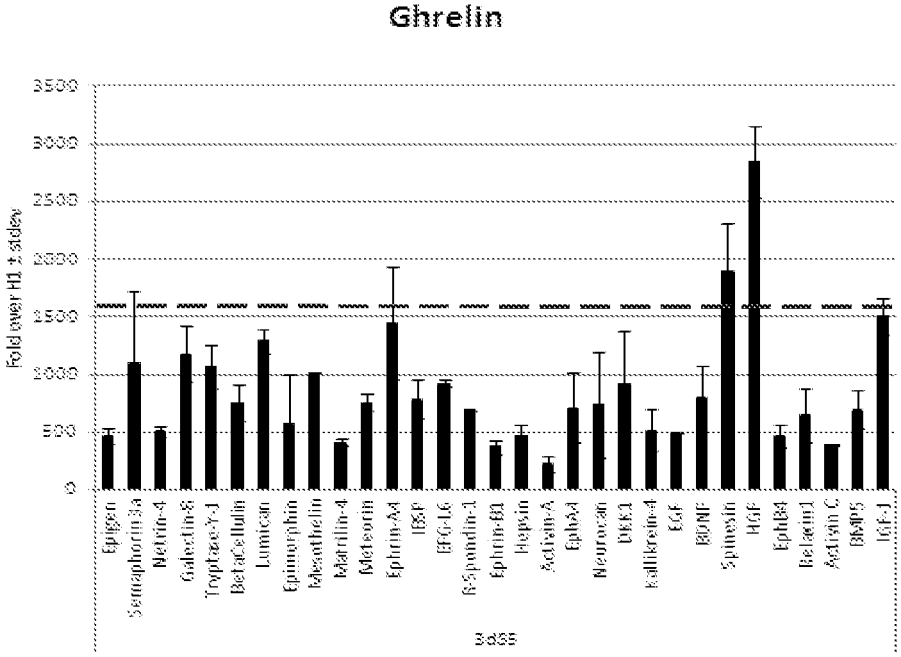

Ghrelin
Fold over H1 ± stdev
3500
3000
2500
2000
1500
1000
500
0
Epigen
Semaphorin 3a
Netrin-4
Galectin-8
Tryptase-γ-1
Betacellulin
Lumican
Epimorphin
Mesothelin
Matrilin-4
Meteorin
Ephrin-A4
IBSP
EFG-L6
R-Spondin-1
Ephrin-B1
Heparin
Activin-A
EphA4
Neurocan
DKK1
Kallikrein-4
EGF
BDNF
Spinesin
HGF
EphB4
Relaxin1
Activin C
BMP5
IGF-1
3dSS

FIG. 1D

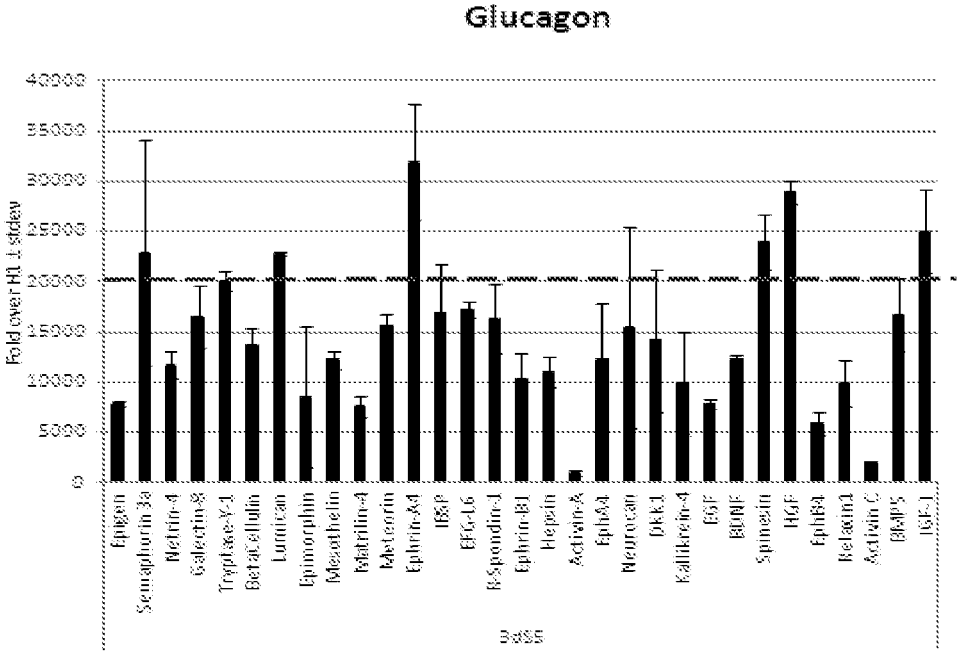

Glucagon
Fold over H1 ± stdev
40000
35000
30000
25000
20000
15000
10000
5000
0
Epigen
Semaphorin 3a
Netrin-4
Galectin-8
Tryptase-γ-1
Betacellulin
Lumican
Epimorphin
Mesothelin
Matrilin-4
Meteorin
Ephrin-A4
IBSP
EFG-L6
R-Spondin-1
Ephrin-B1
Heparin
Activin-A
EphA4
Neurocan
DKK1
Kallikrein-4
EGF
BDNF
Spinesin
HGF
EphB4
Relaxin1
Activin C
BMP5
IGF-1
3dSS

FIG. 1E

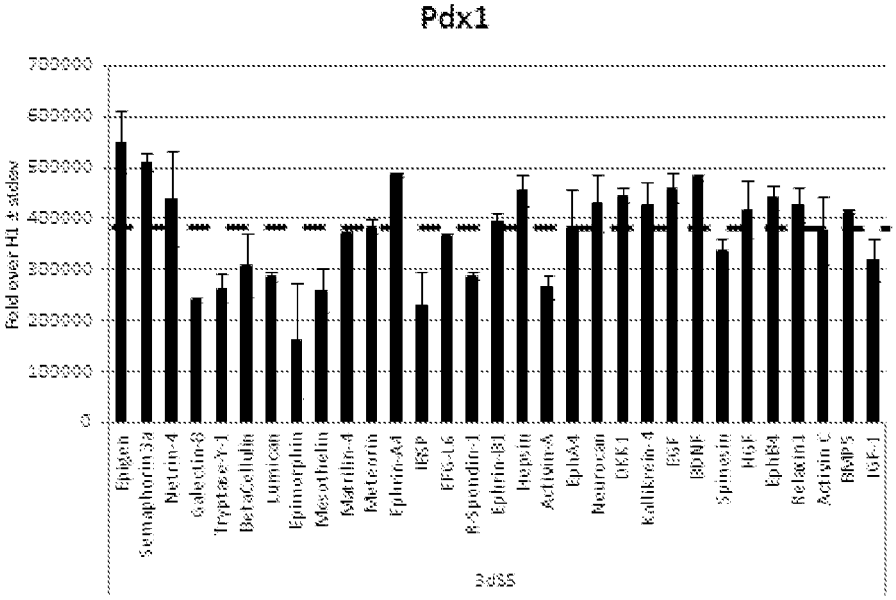

Pdx1
Fold over H1 ± stdev
700000
600000
500000
400000
300000
200000
100000
0
Epigen
Semaphorin 3a
Netrin-4
Galectin-8
Tryptase-γ-1
BetaCellulin
Lumican
Epimorphin
Mesothelin
Matrilin-4
Meteorin
Ephrin-A4
IBSP
EFG-L6
R-Spondin-1
Ephrin-B1
Heparin
Activin-A
EphA4
Neurocan
DKK1
Kallikrein-4
EGF
BDNF
Spinesin
HGF
EphB4
Relaxin1
Activin C
BMP5
IGF-1
3d85

FIG. 1F

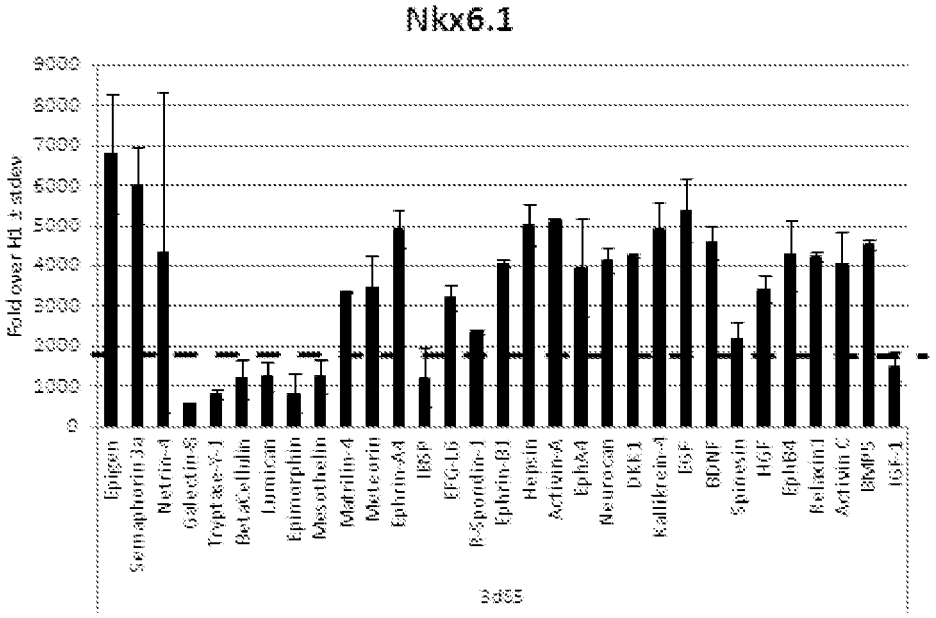

Nkx6.1
Fold over H1 ± stdev
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
Epigen
Semaphorin 3a
Netrin-4
Galectin-8
Tryptase-γ-1
BetaCellulin
Lumican
Epimorphin
Mesothelin
Matrilin-4
Meteorin
Ephrin-A4
IBSP
EFG-L6
R-Spondin-1
Ephrin-B1
Heparin
Activin-A
EphA4
Neurocan
DKK1
Kallikrein-4
EGF
BDNF
Spinesin
HGF
EphB4
Relaxin1
Activin C
BMP5
IGF-1
3d85

FIG. 1G

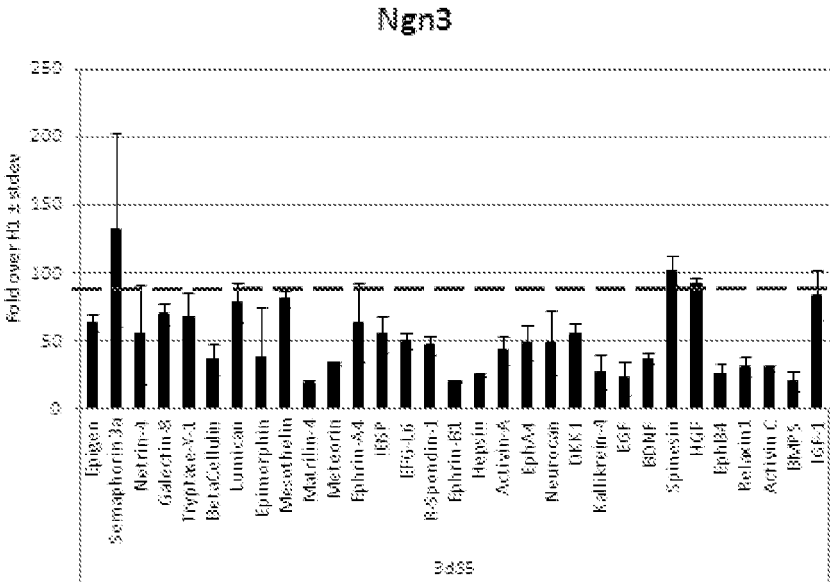

Ngn3
Fold over H1 ± stdev
250
200
150
100
50
0
Epigen
Semaphorin 3a
Netrin-4
Galectin-8
Tryptase-γ1
BetaCellulin
Lumican
Epimorphin
Mesothelin
Matrilin-4
Meteorin
Ephrin-A4
IGFP
EFG-L6
R-Spondin-1
Ephrin-B1
Hepsin
Activin-A
EphA4
Neurogen
OSK1
Kallikrein-4
EGF
BDNF
Spinesin
HGF
EphB4
Reelgenin1
Activin C
BMP5
IGF-1

FIG. 2A

Control

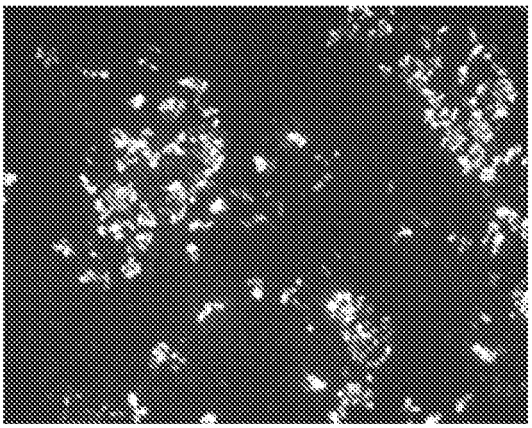


FIG. 2B

+ 50 ng/ml Ephrin A3

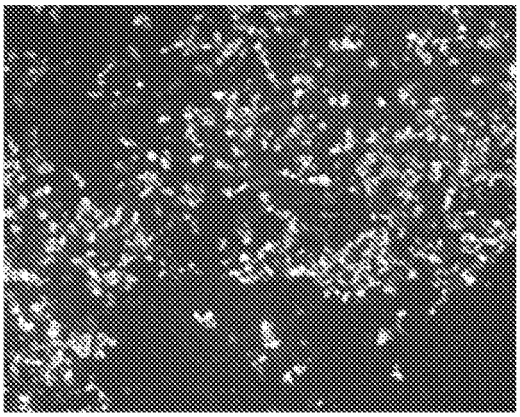


FIG. 2C

+100 ng/ml Eprhin A3

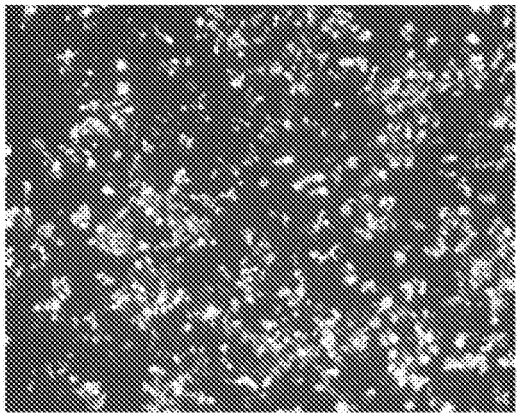


FIG. 3A

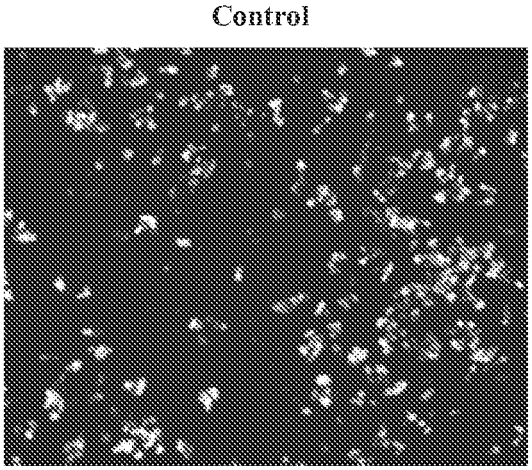


FIG. 3B

+50 ng/ml Ephrin A4

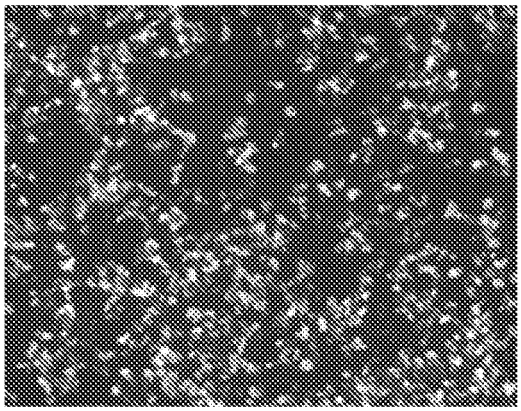


FIG. 3C

+100 ng/ml Ephrin A4

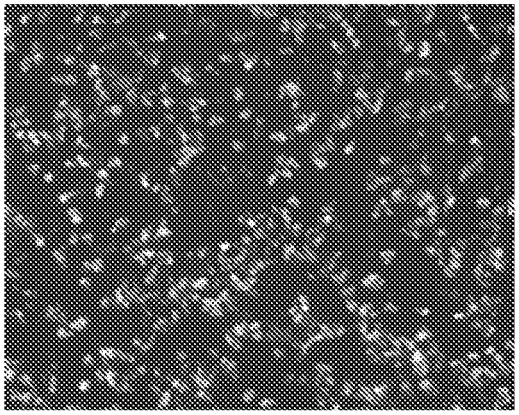


FIG. 4A

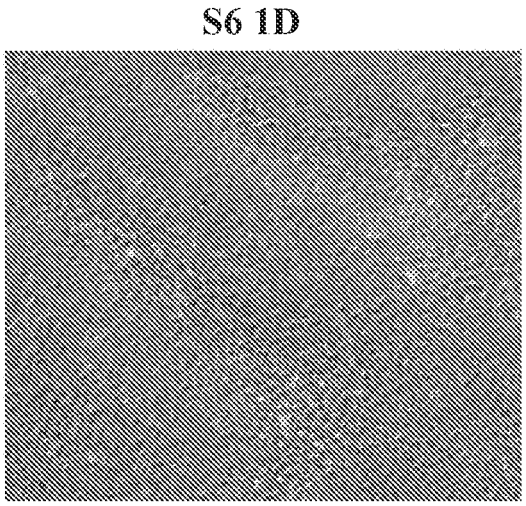


FIG. 4B

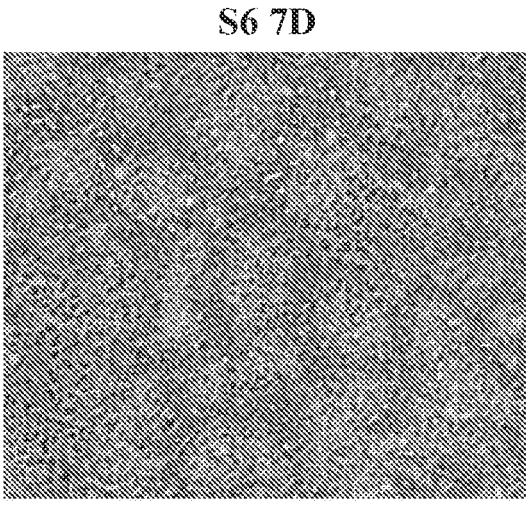


FIG. 4C

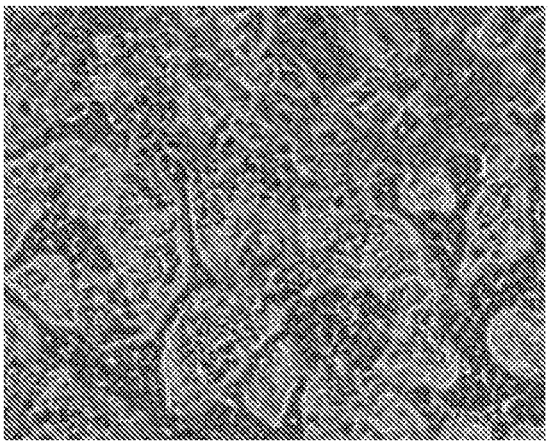


FIG. 4D

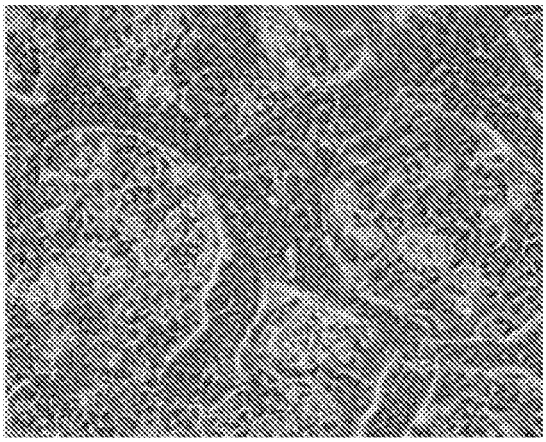


FIG. 5A

Hb9

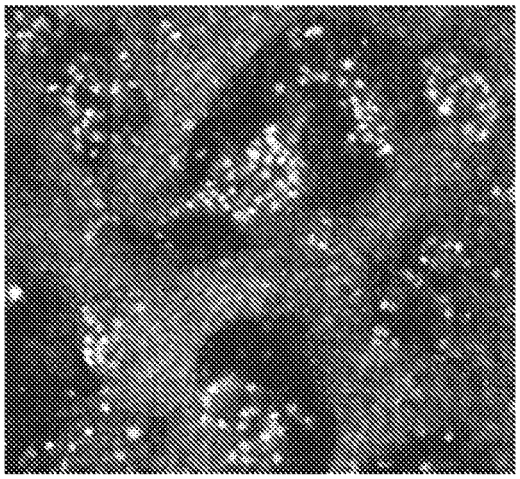


FIG. 5B

NKX6.1

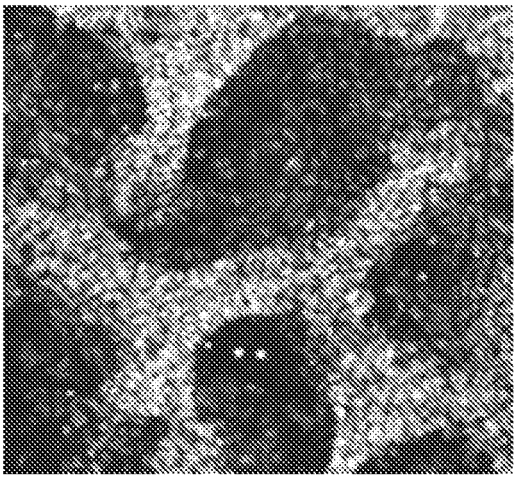


FIG. 5C

Insulin

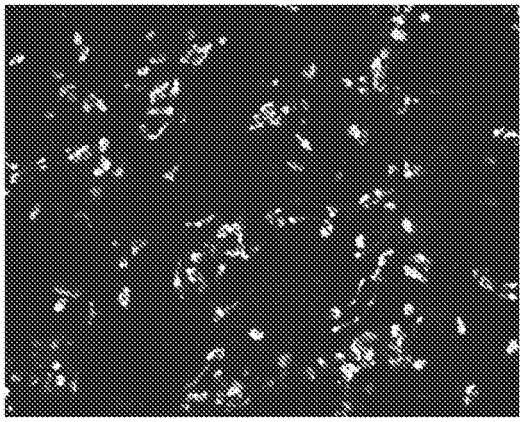


FIG. 5D

Hb9

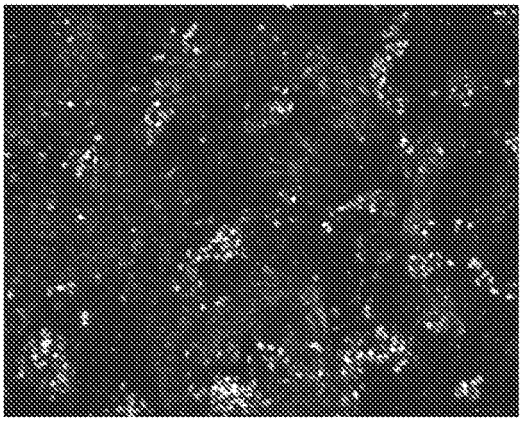


FIG. 6A

S6 3D (10X)

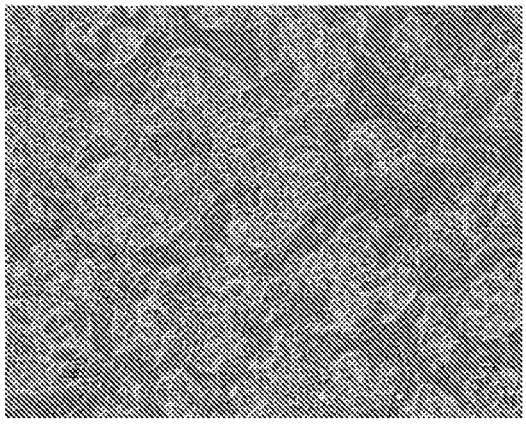


FIG. 6B

S6 3D (20X)

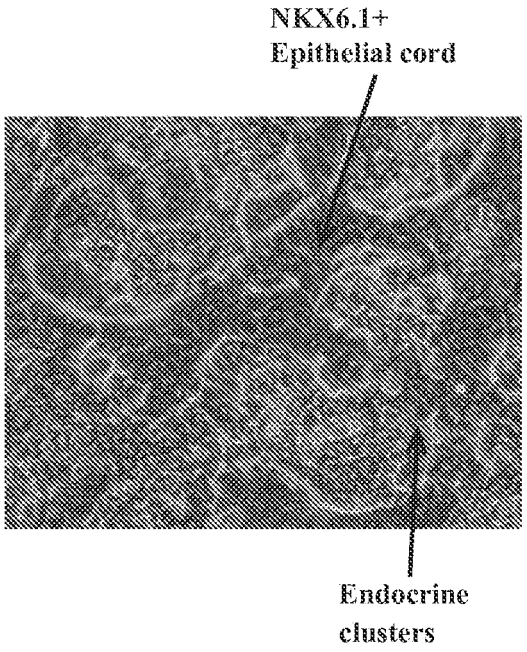


FIG. 6C

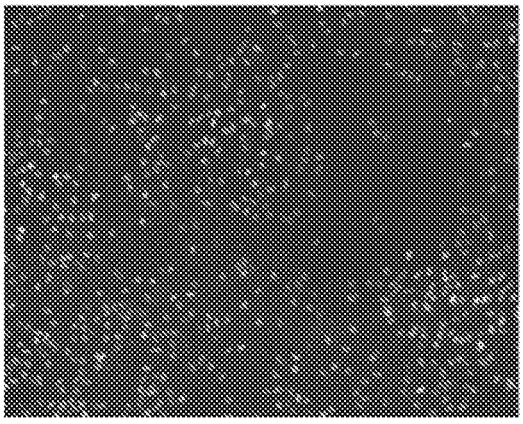


FIG. 6D

