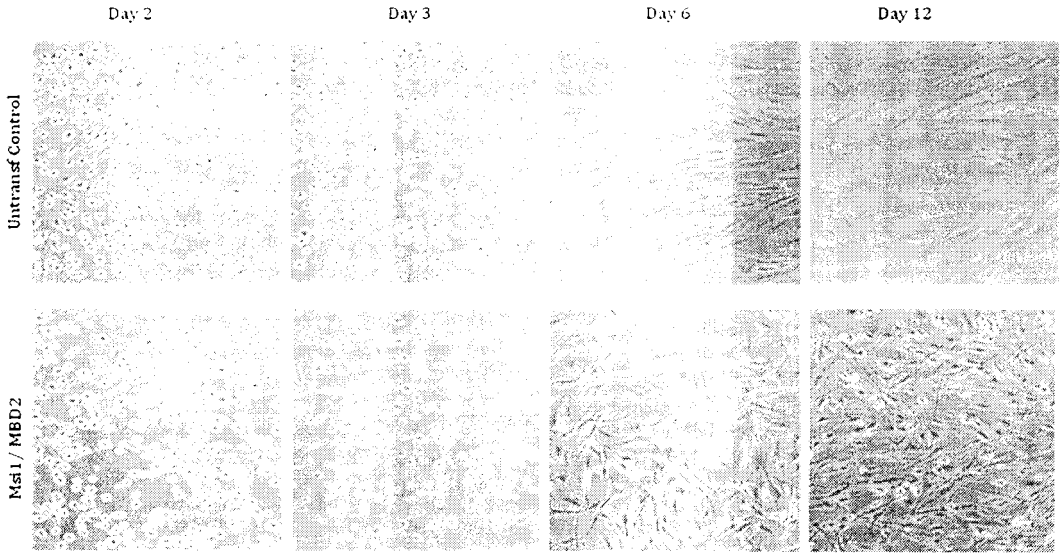


Figure 1

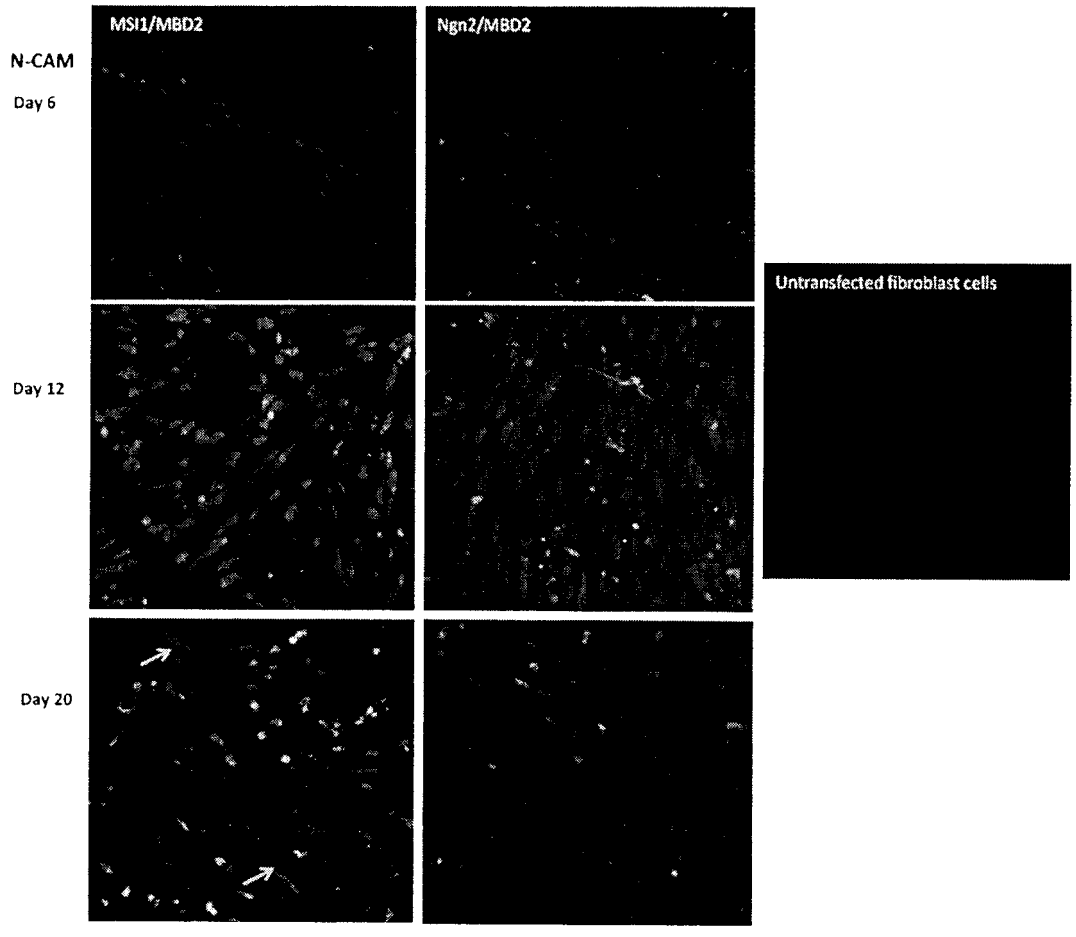


Figure 2

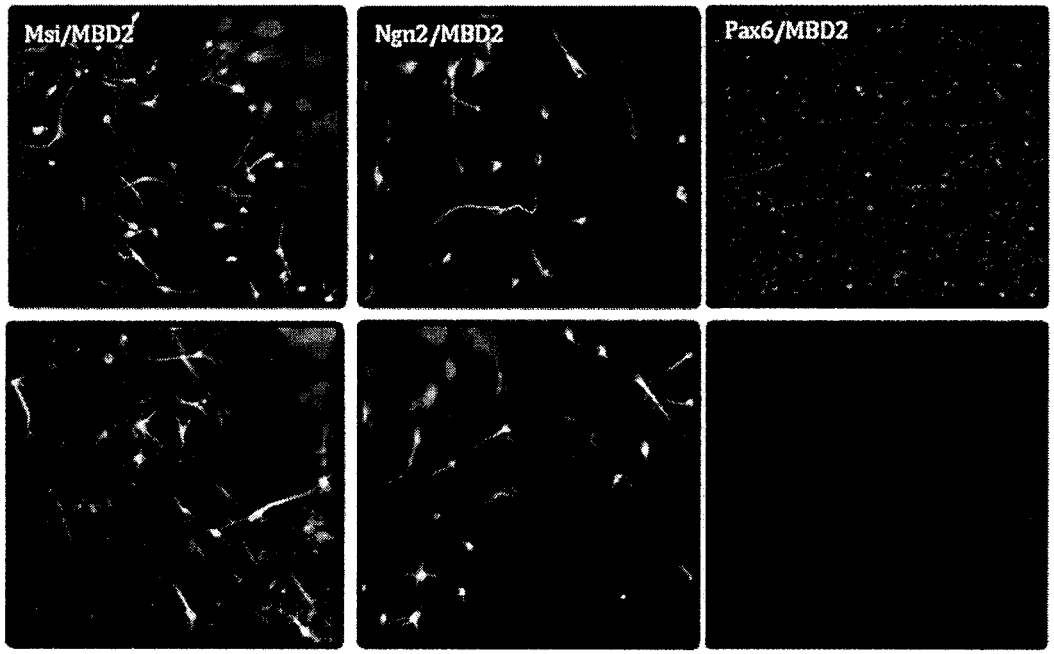


Figure 3

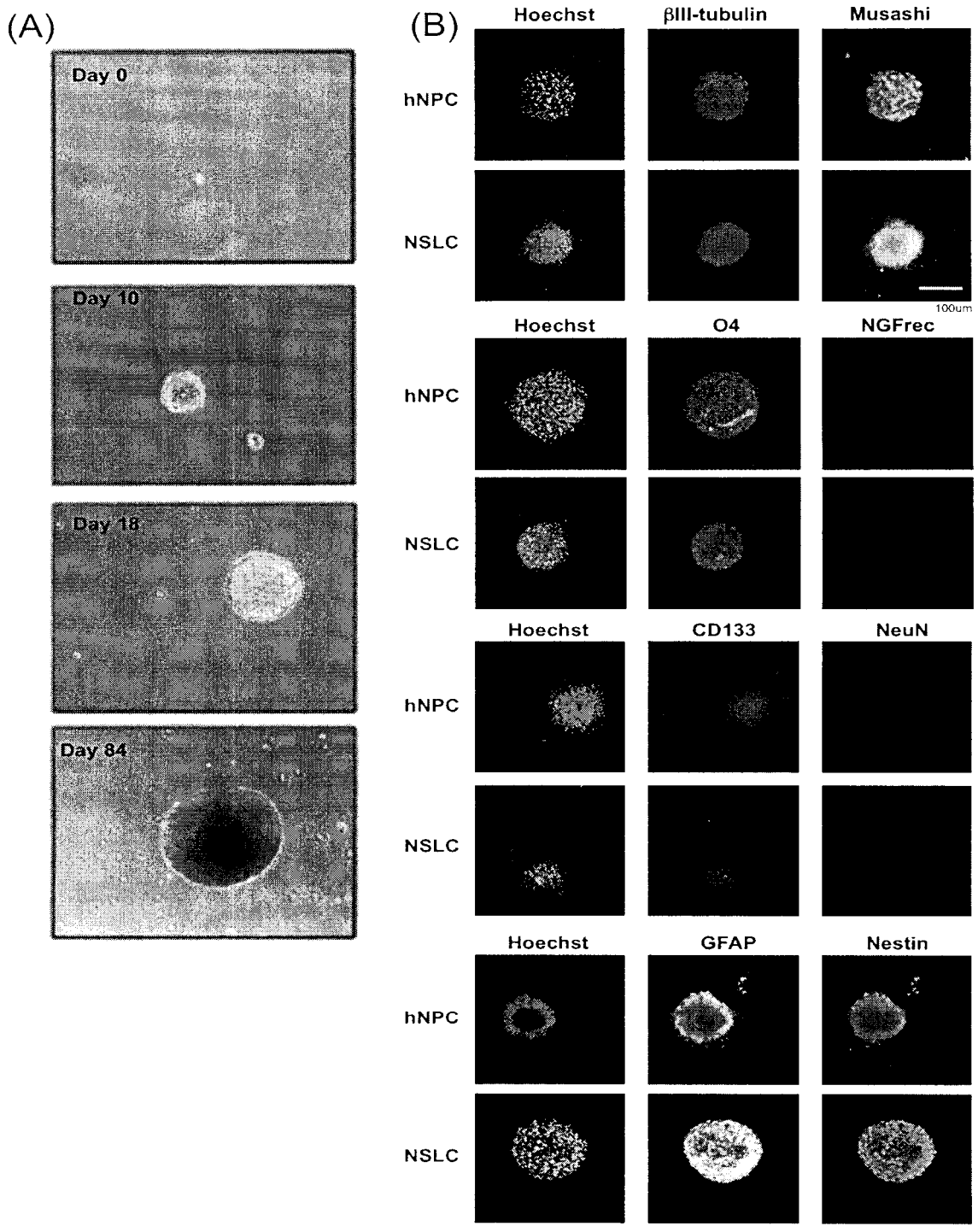

(A)
Day 0
Day 10
Day 18
Day 84
(B)
Hoechst
βIII-tubulin
Musashi
hNPC
NSLC
100um
Hoechst
O4
NGFrec
hNPC
NSLC
Hoechst
CD133
NeuN
hNPC
NSLC
Hoechst
GFAP
Nestin
hNPC
NSLC

Figure 4

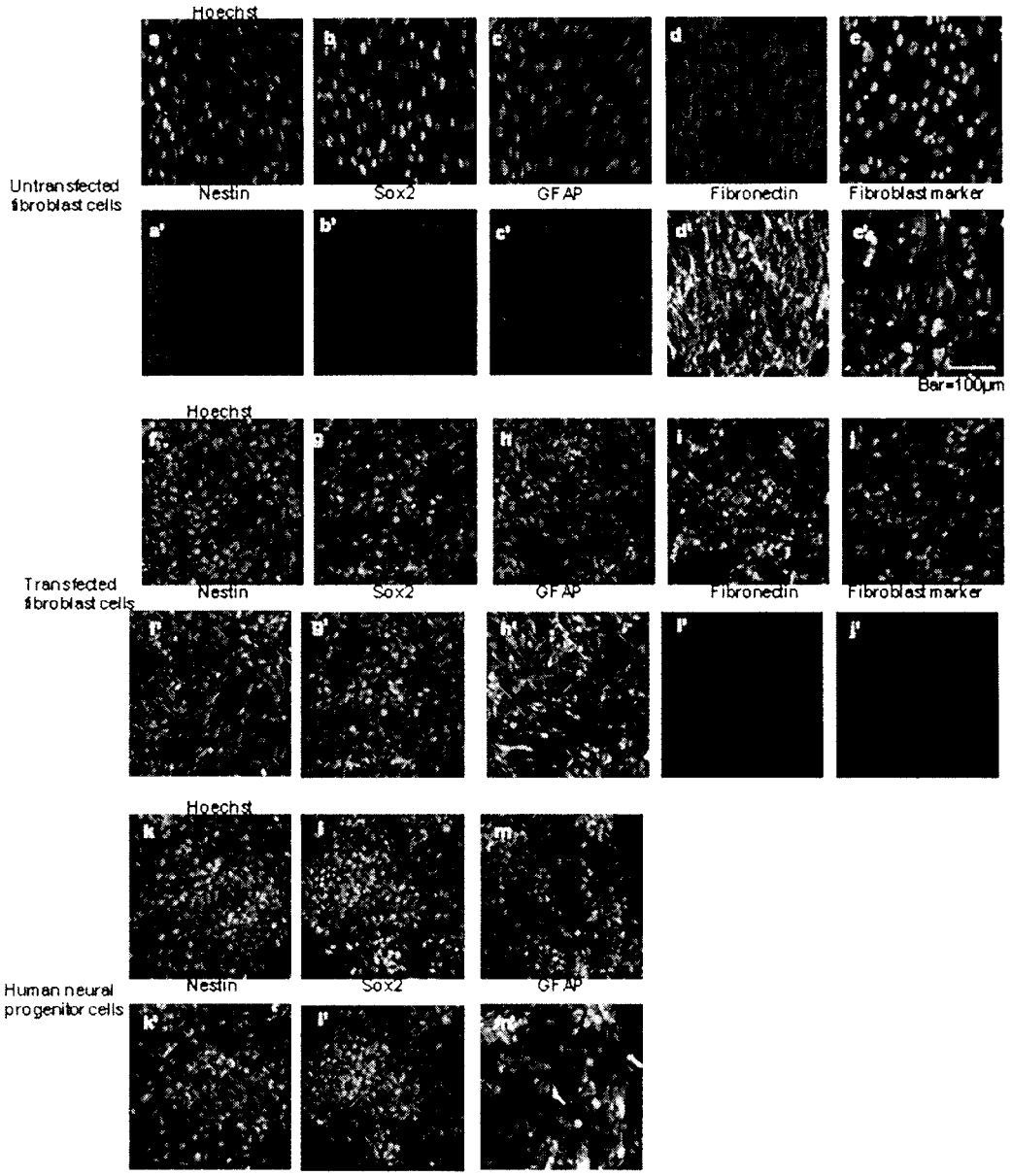

Hoechst
Untransfected fibroblast cells
Nestin
Sox2
GFAP
Fibronectin
Fibroblast marker
Bar=100μm
Hoechst
Transfected fibroblast cells
Nestin
Sox2
GFAP
Fibronectin
Fibroblast marker
Hoechst
Human neural progenitor cells
Nestin
Sox2
GFAP

Figure 5

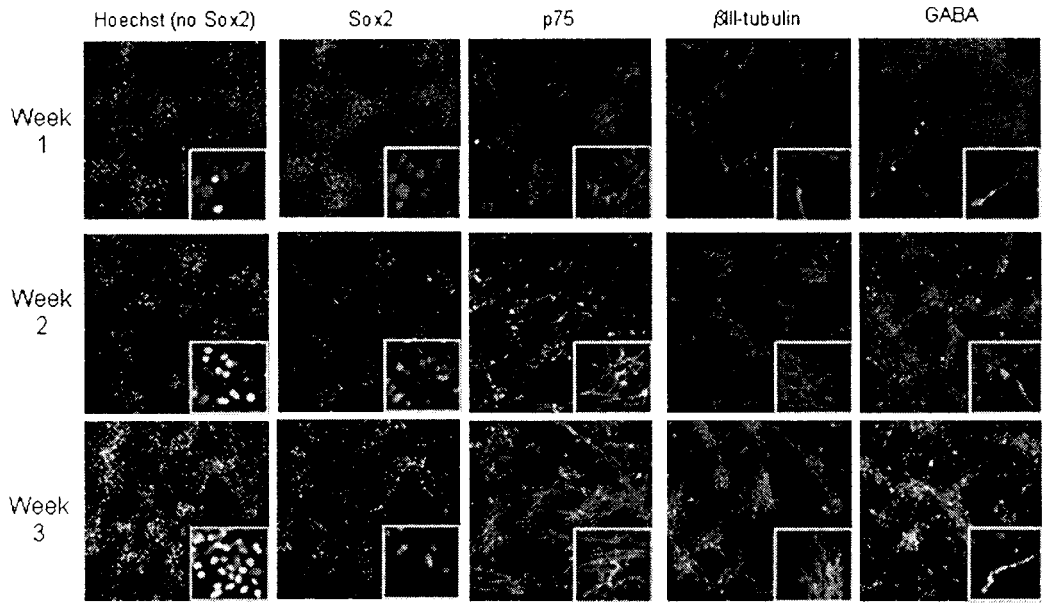

Hoechst (no Sox2)
Sox2
p75
βIII-tubulin
GABA
Week 1
Week 2
Week 3

Figure 6

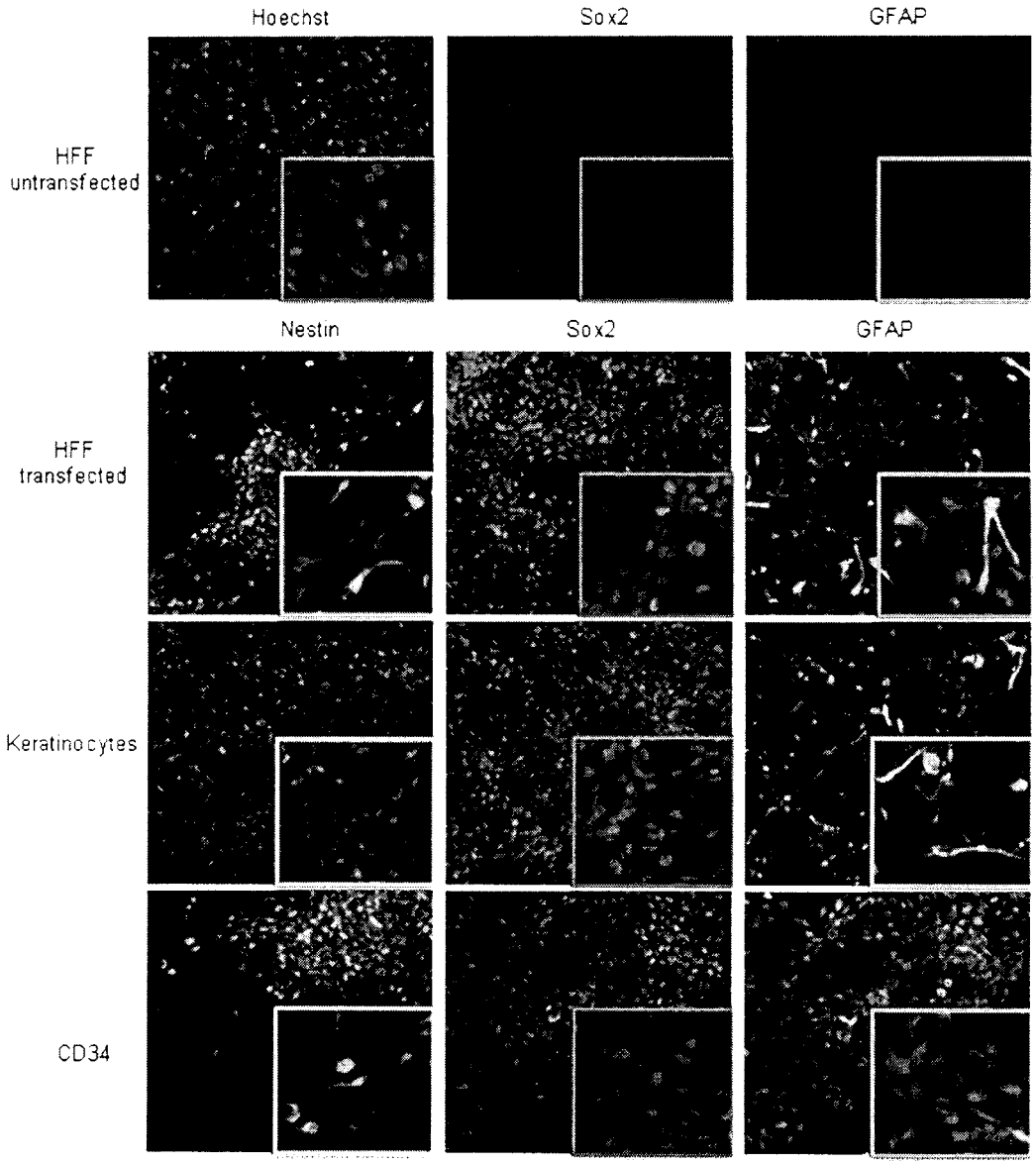

Hoechst
Sox2
GFAP
HFF untransfected
Nestin
Sox2
GFAP
HFF transfected
Keratinocytes
CD34

Figure 7

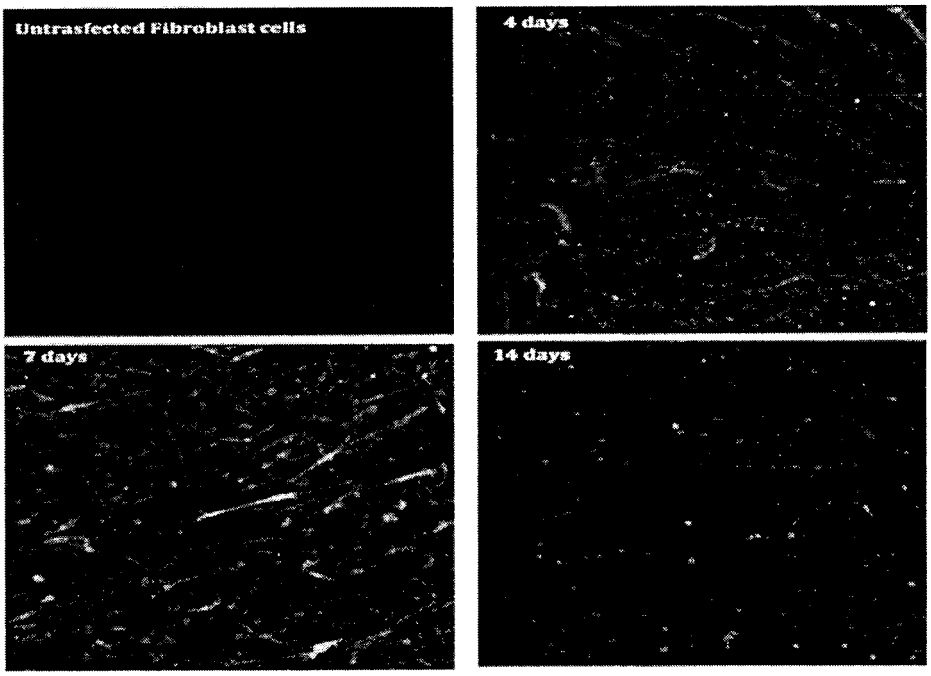


Figure 8

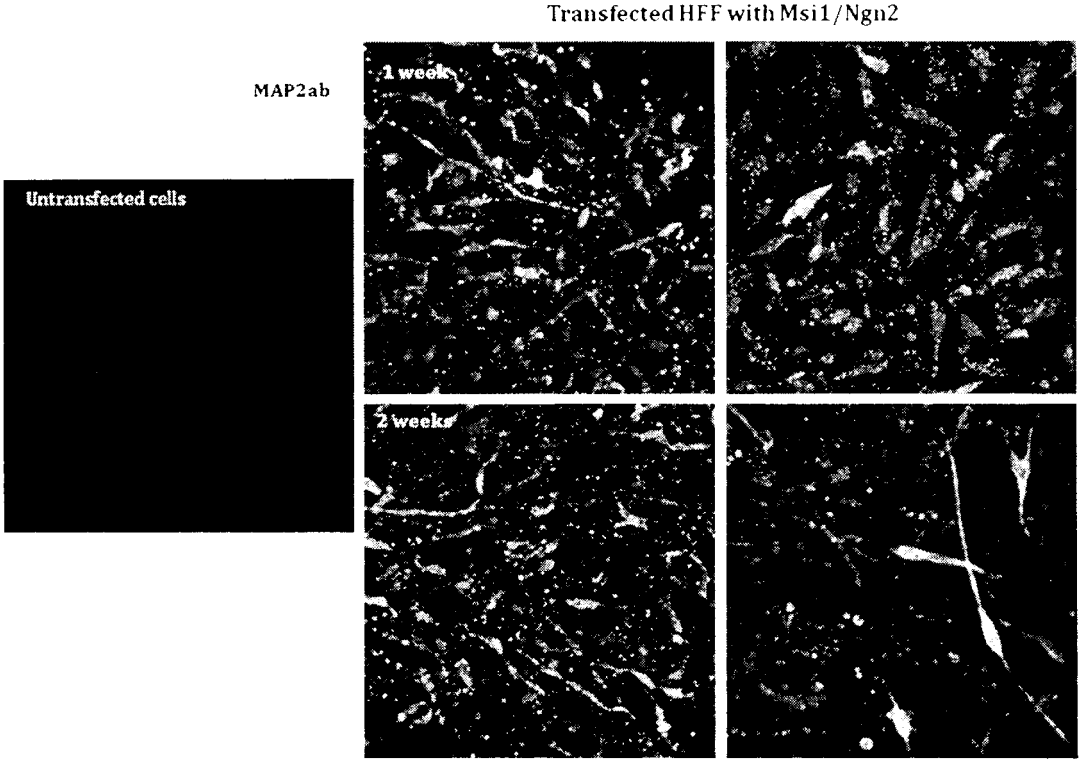


Figure 9

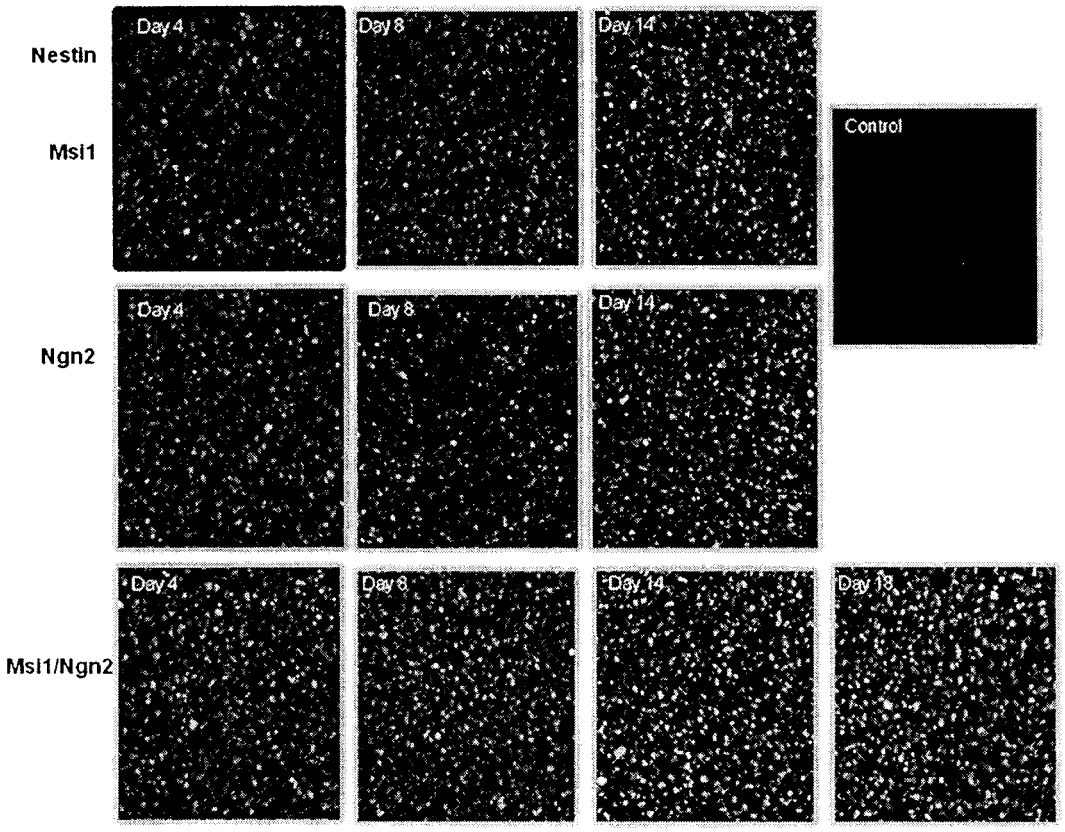


Figure 10

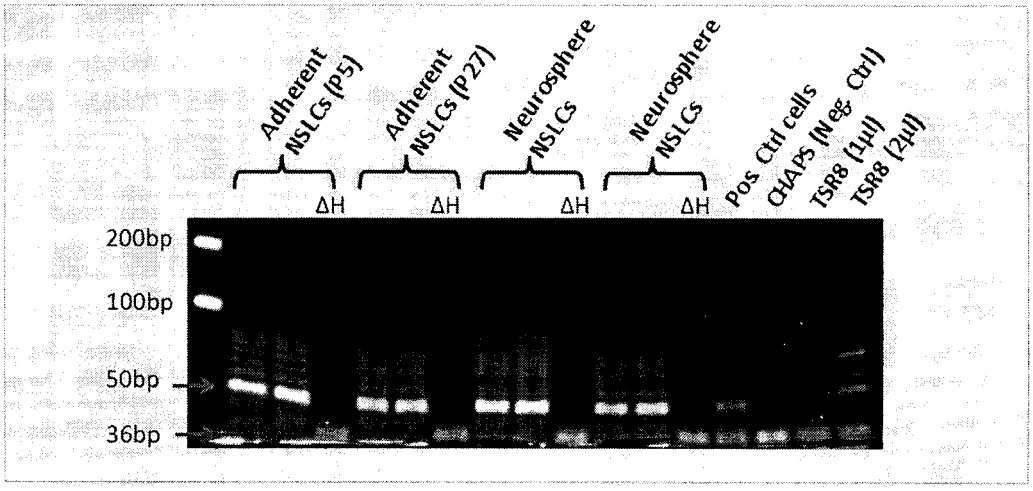


Figure 11

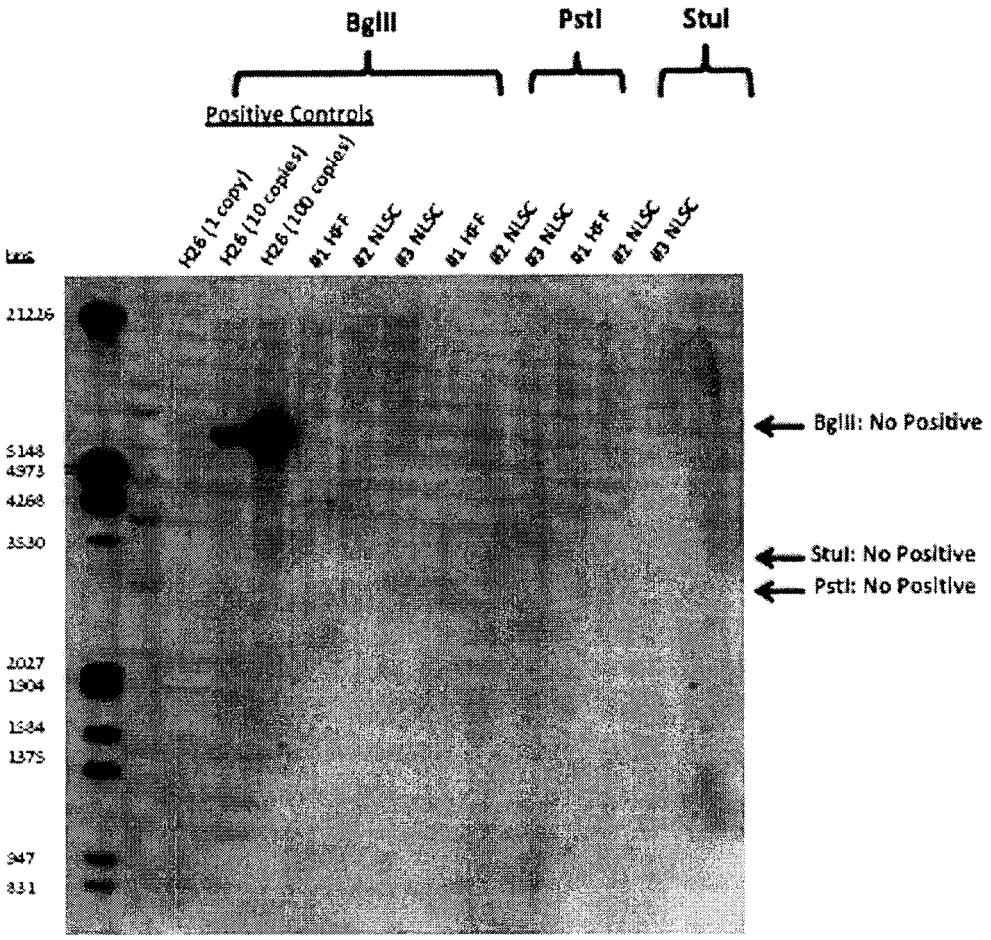

BglII
PstI
StuI
Positive Controls
H26 (1 copy)
H26 (10 copies)
H26 (100 copies)
#1 HFF
#2 NLSC
#3 NLSC
#1 HFF
#2 NLSC
#3 NLSC
#1 HFF
#2 NLSC
#3 NLSC
bps
21226
5148
4973
4268
3530
2027
1904
1584
1375
947
831
BglII: No Positive
StuI: No Positive
PstI: No Positive

Figure 12

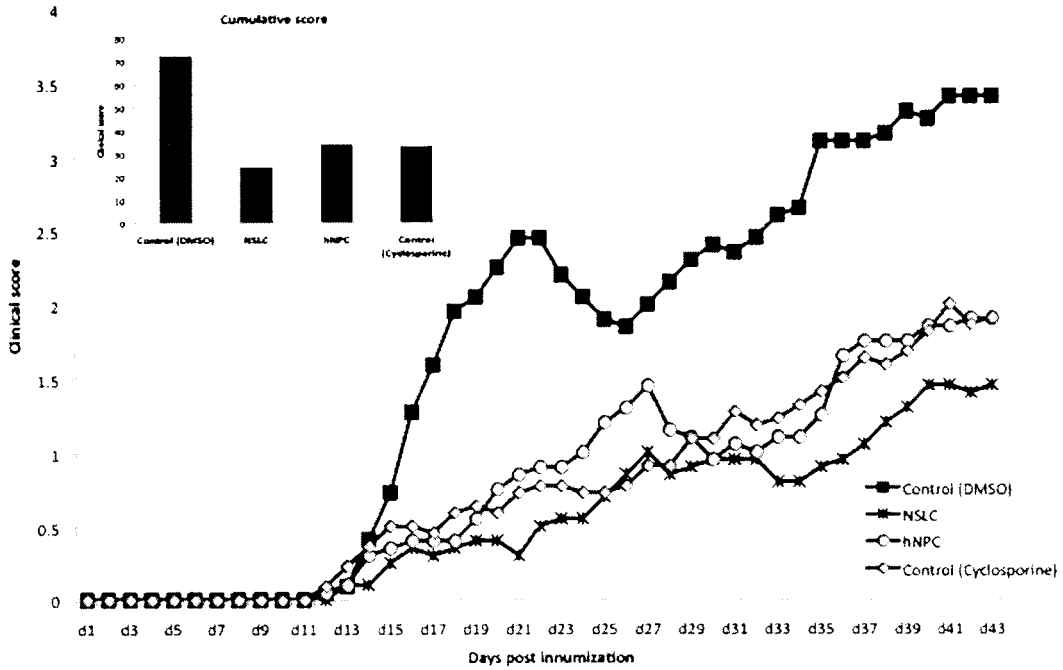


Figure 13

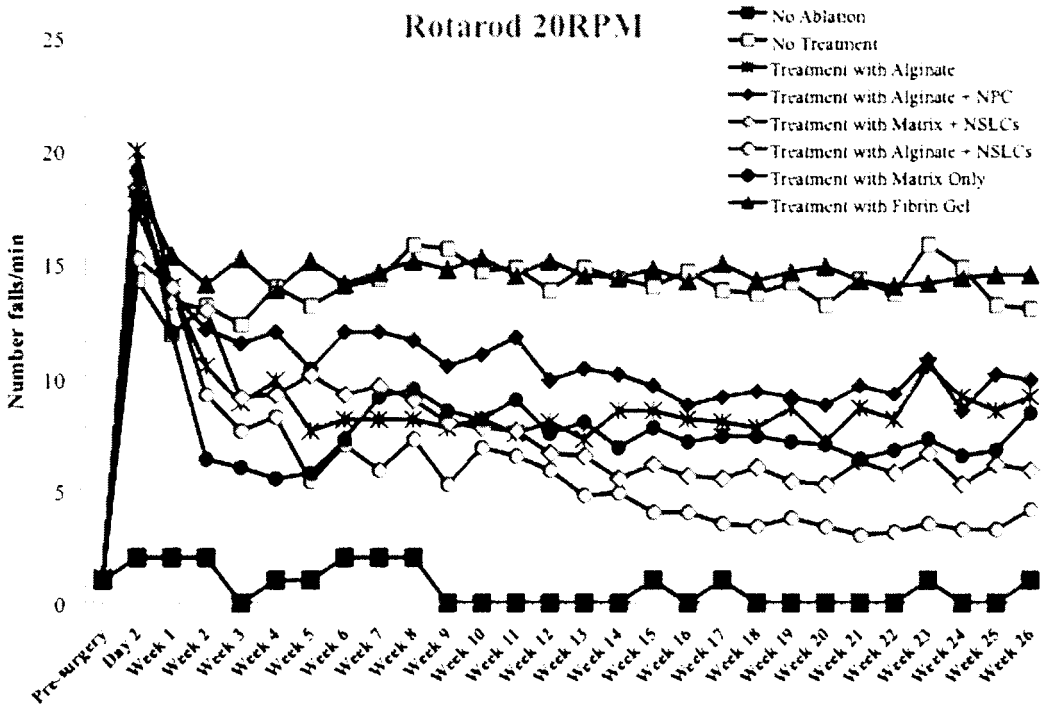


Figure 14

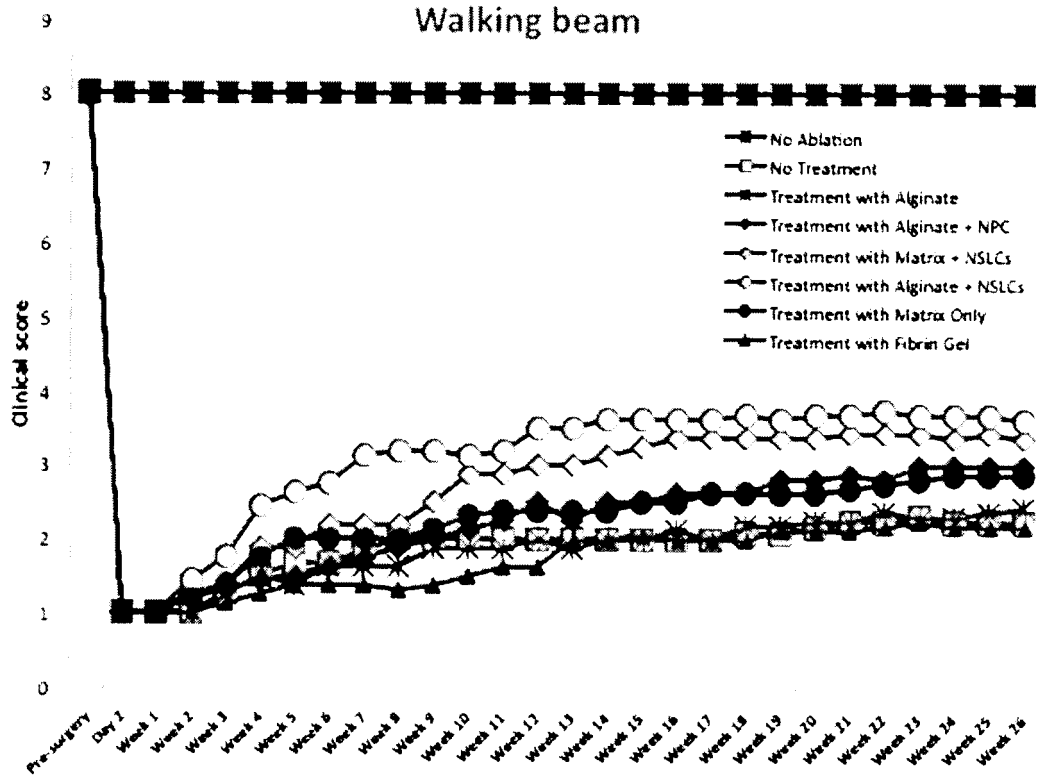

Walking beam
Clinical score
9
8
7
6
5
4
3
2
1
0
No Ablation
No Treatment
Treatment with Alginate
Treatment with Alginate + NPC
Treatment with Matrix + NSLCs
Treatment with Alginate + NSLCs
Treatment with Matrix Only
Treatment with Fibrin Gel
Pre-surgery
Day 2
Week 1
Week 2
Week 3
Week 4
Week 5
Week 6
Week 7
Week 8
Week 9
Week 10
Week 11
Week 12
Week 13
Week 14
Week 15
Week 16
Week 17
Week 18
Week 19
Week 20
Week 21
Week 22
Week 23
Week 24
Week 25
Week 26

Figure 15

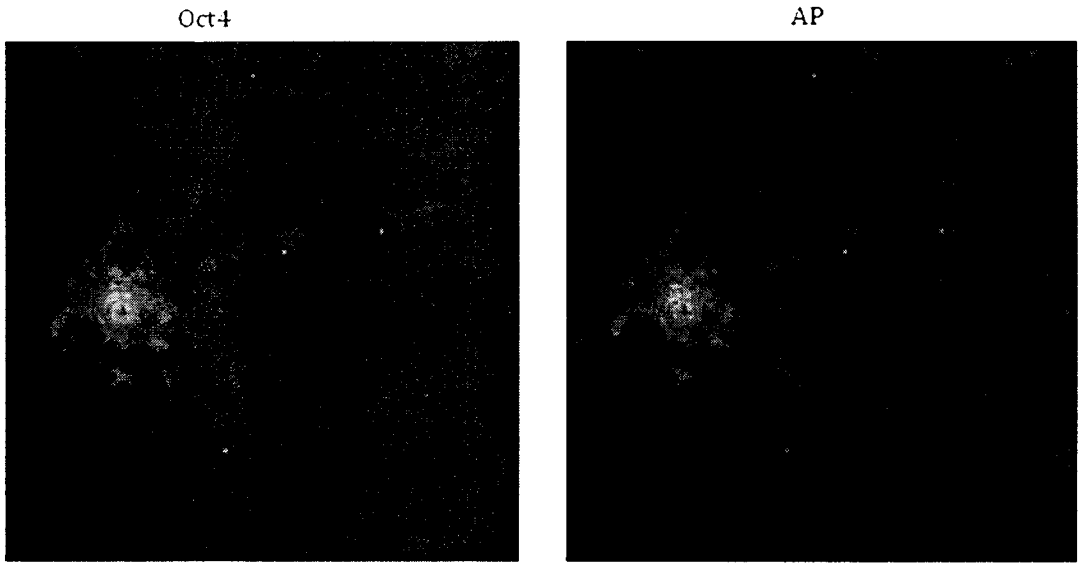


Figure 16

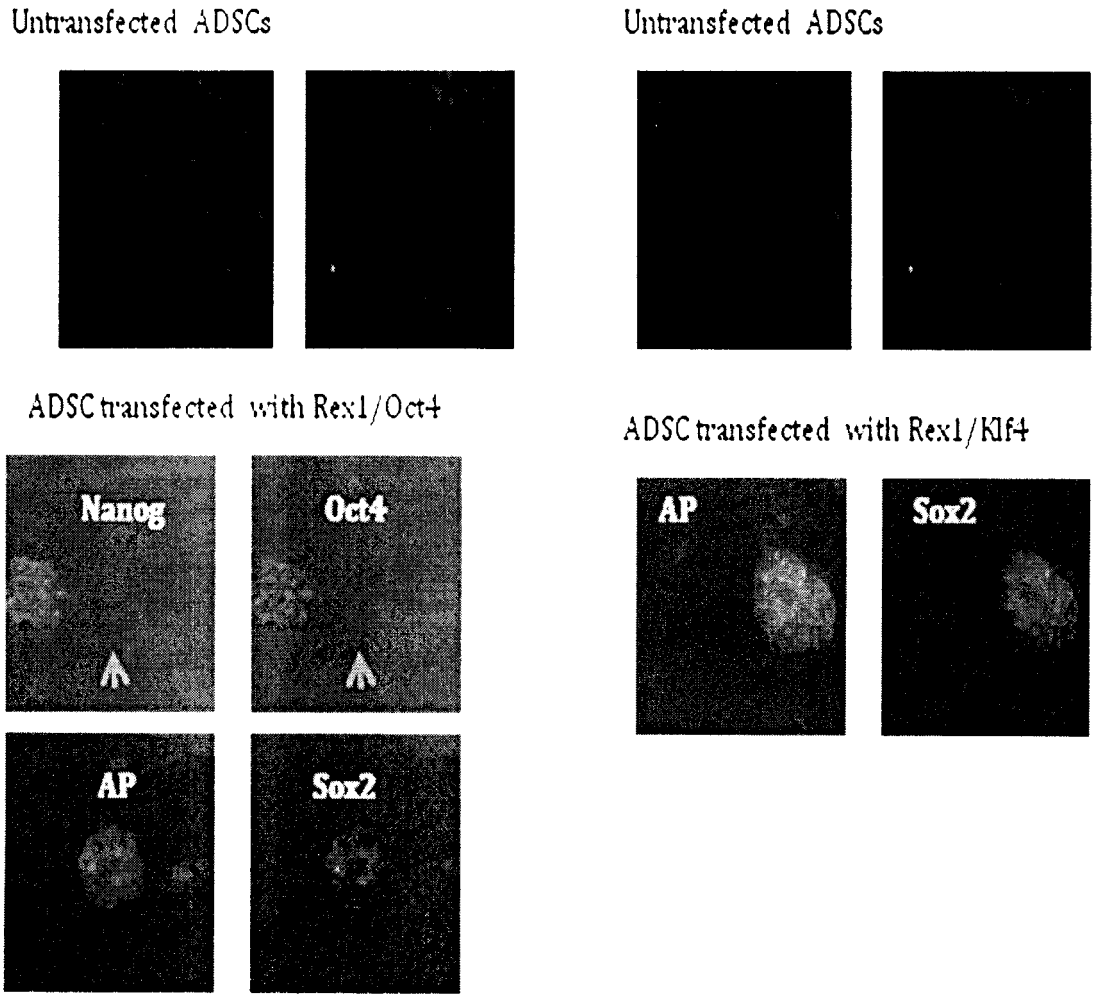


Figure 17

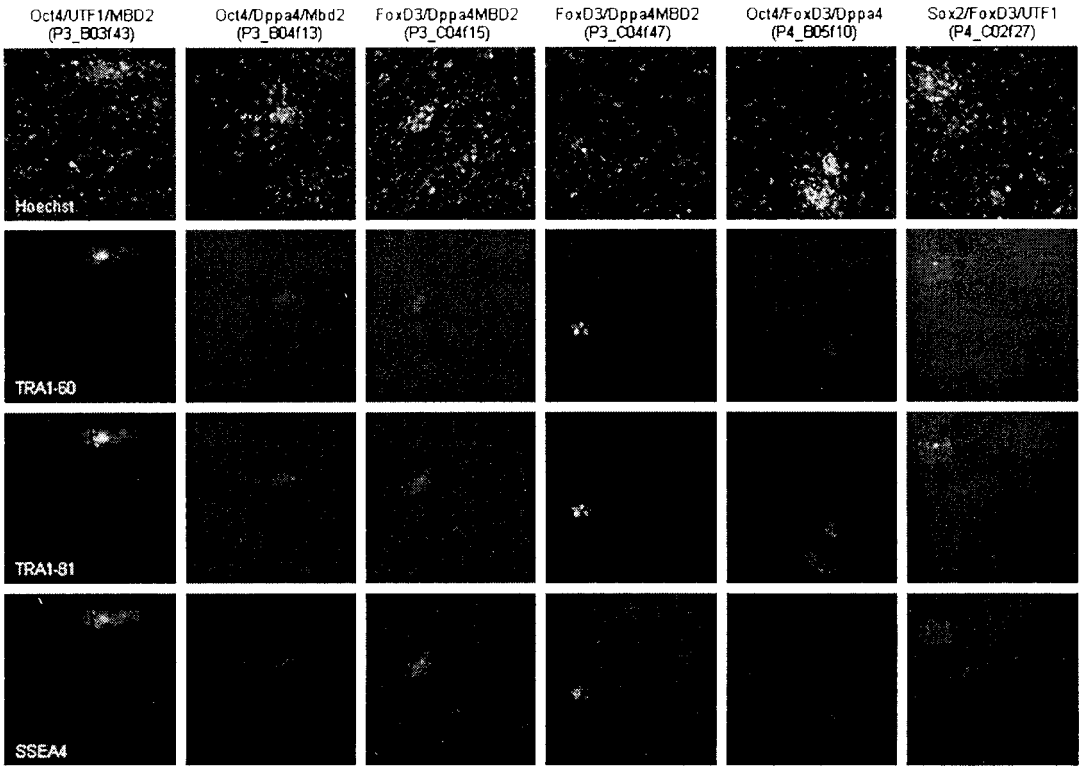

Oct4/UTF1/MBD2
(P3_B03f43)
Oct4/Dppa4/Mbd2
(P3_B04f13)
FoxD3/Dppa4MBD2
(P3_C04f15)
FoxD3/Dppa4MBD2
(P3_C04f47)
Oct4/FoxD3/Dppa4
(P4_B05f10)
Sox2/FoxD3/UTF1
(P4_C02f27)
Hoechst
TRA1-60
TRA1-81
SSEA4

Figure 18

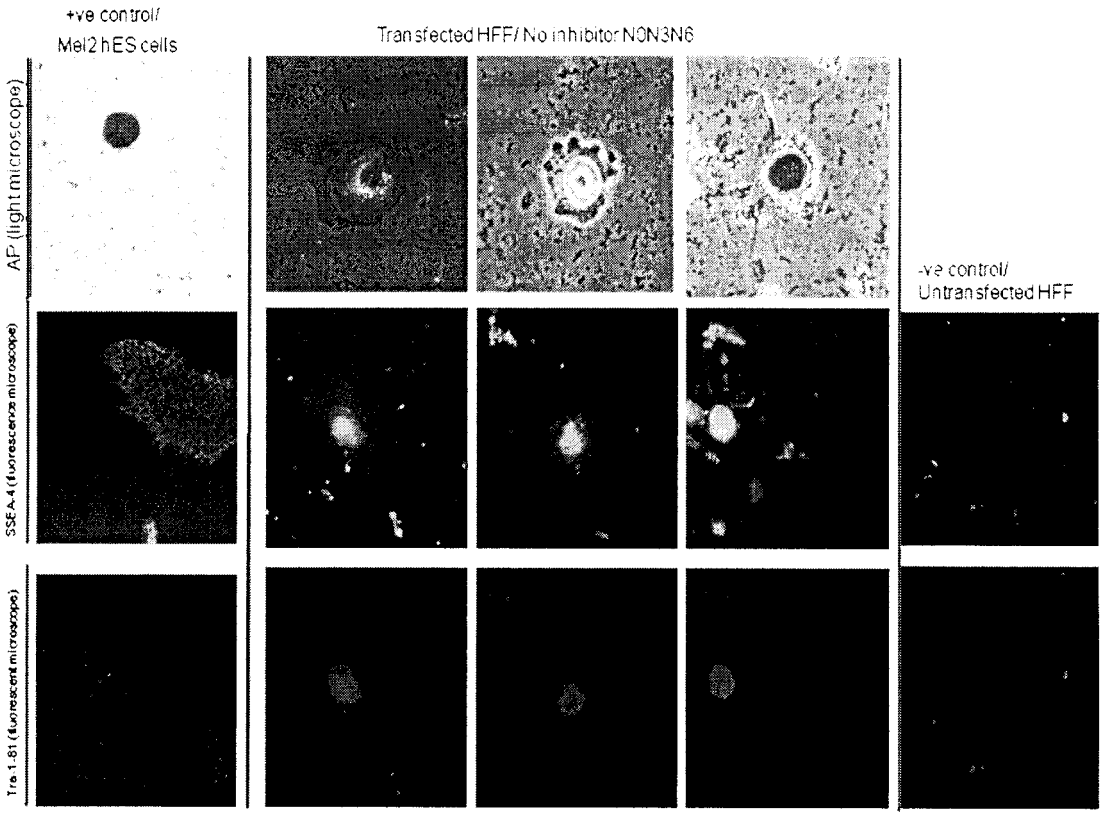

+ve control/
Mel2 hES cells
Transfected HFF/ No inhibitor N0N3N6
-ve control/
Untransfected HFF
AP (light microscope)
SSEA-4 (fluorescence microscope)
Tra 1-81 (fluorescent microscope)

Figure 19

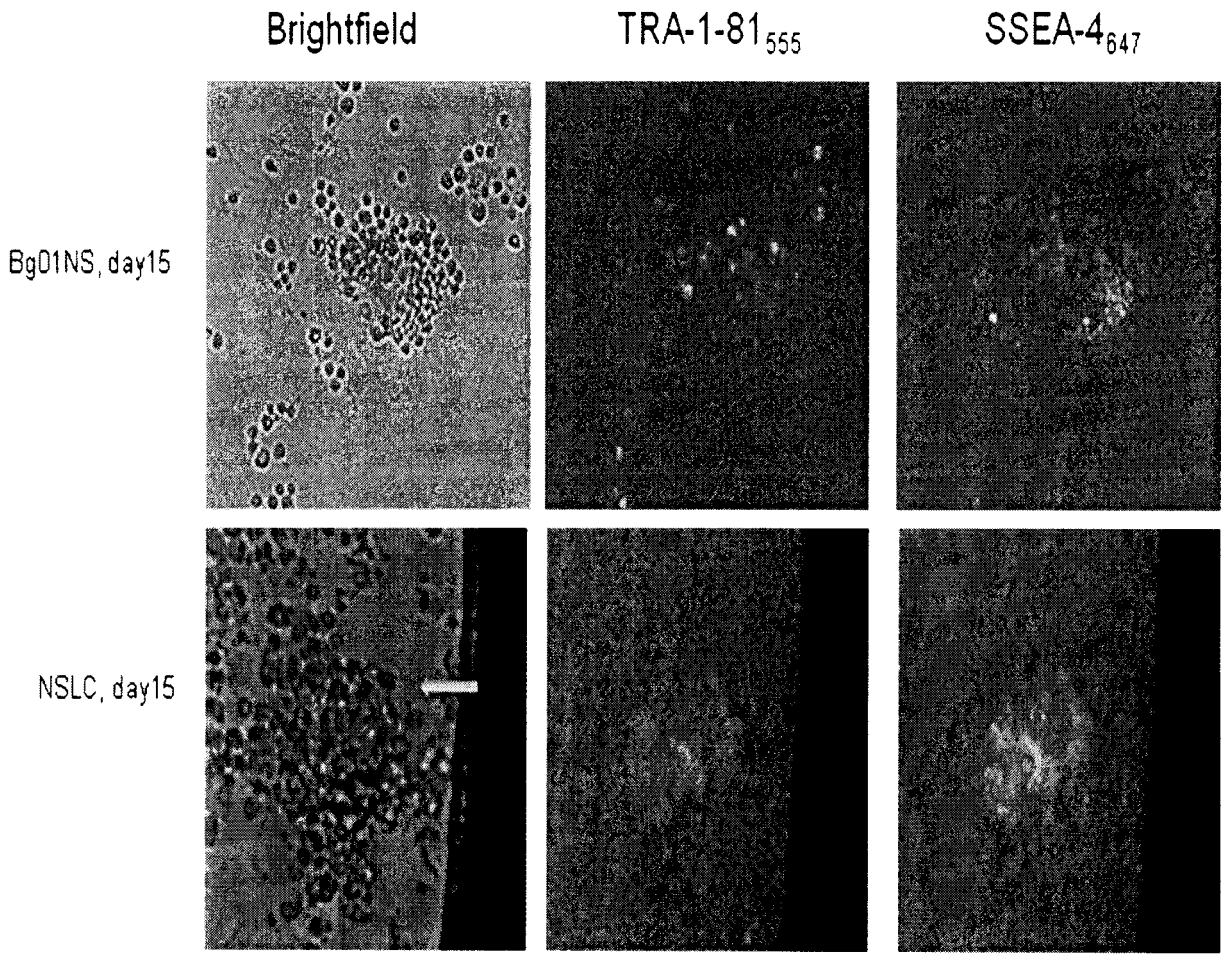


Figure 20

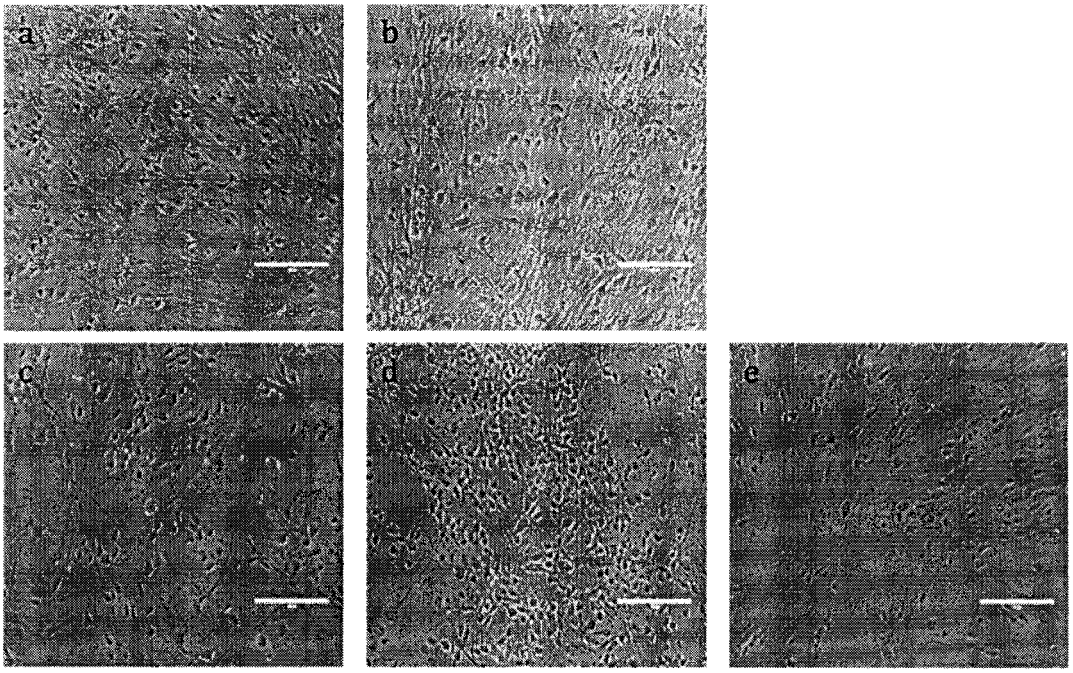


Figure 21

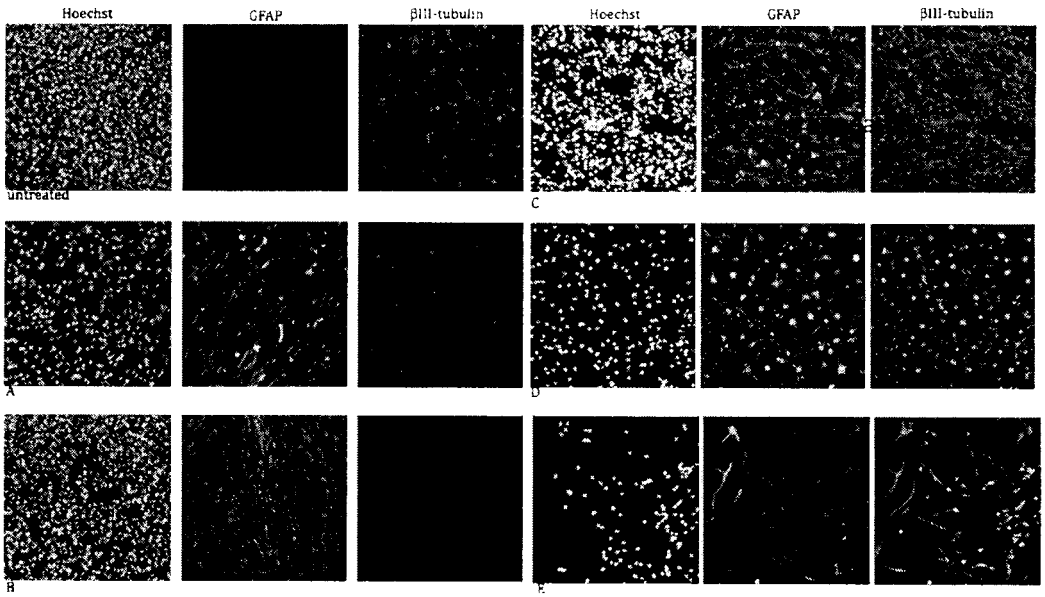


Figure 22

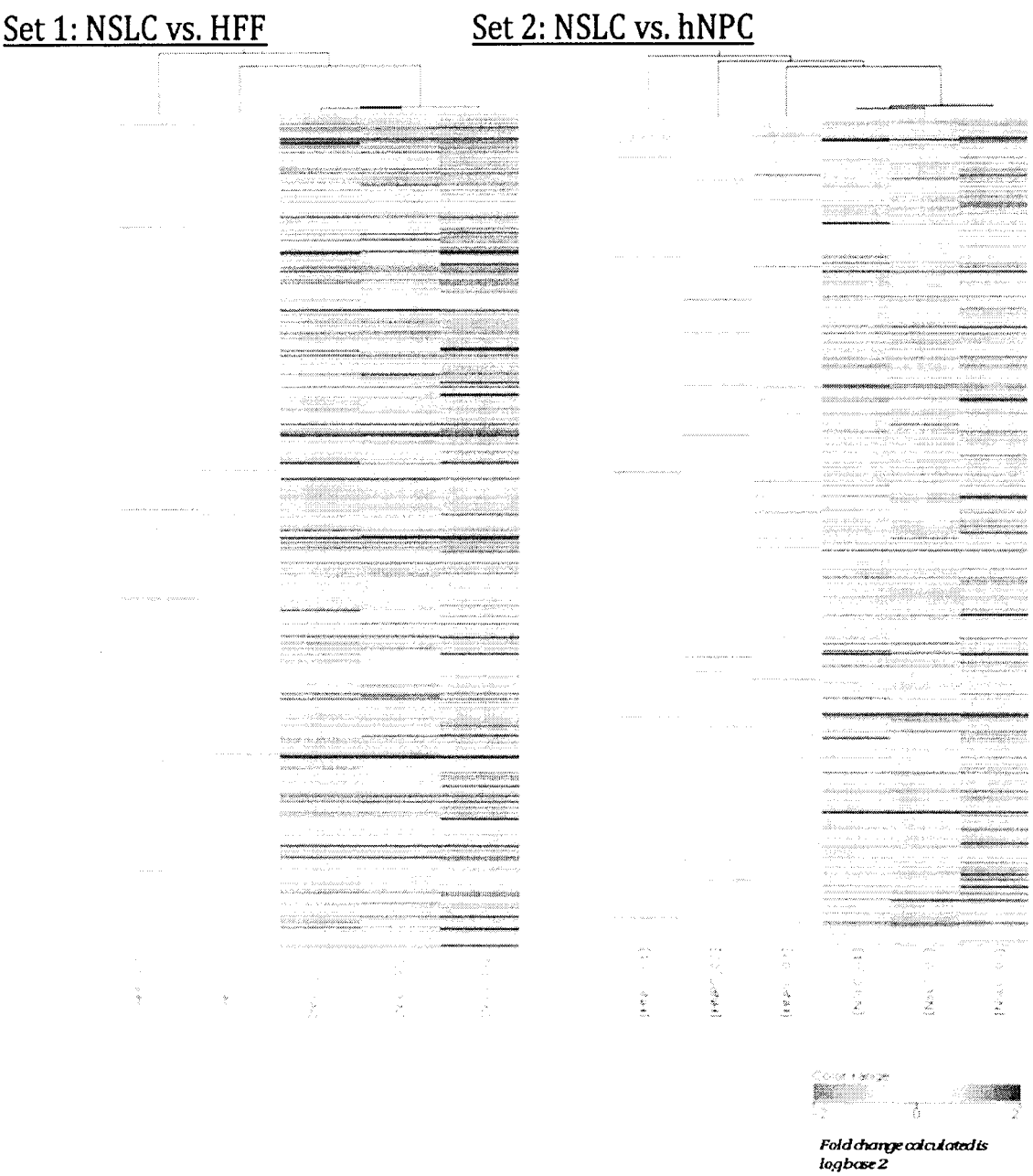

Set 1: NSLC vs. HFF
Set 2: NSLC vs. hNPC
Fold change calculated is log base 2

Figure 23

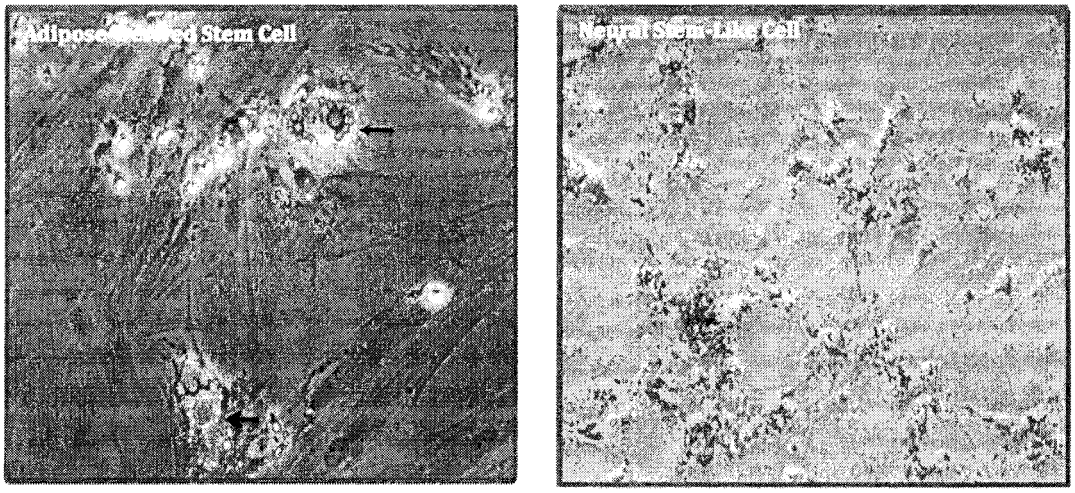


Figure 24