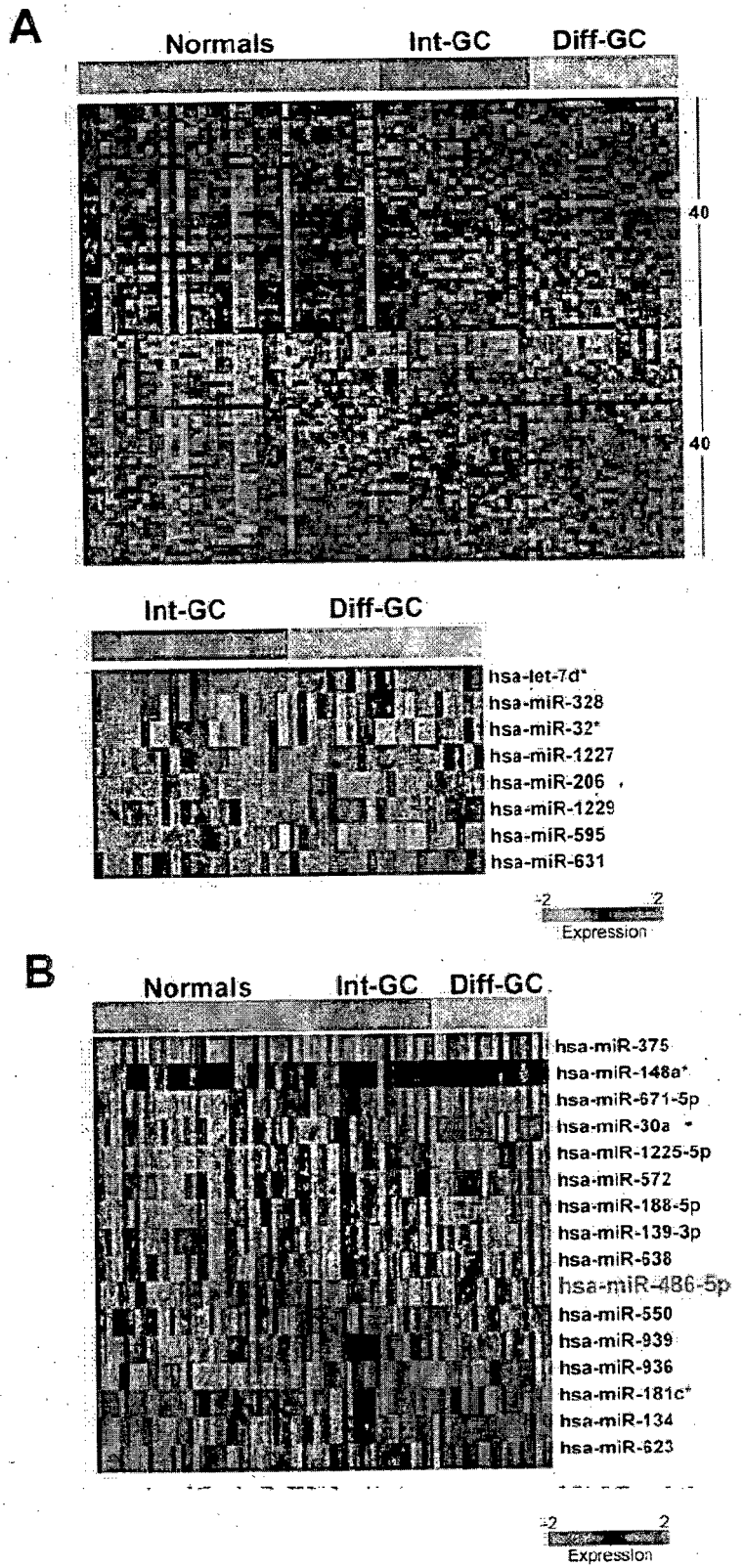

A
Normals
Int-GC
Diff-GC
40
40
Int-GC
Diff-GC
hsa-let-7d*
hsa-miR-328
hsa-miR-32*
hsa-miR-1227
hsa-miR-206
hsa-miR-1229
hsa-miR-595
hsa-miR-631
-2
2
Expression
B
Normals
Int-GC
Diff-GC
hsa-miR-375
hsa-miR-148a*
hsa-miR-671-5p
hsa-miR-30a *
hsa-miR-1225-5p
hsa-miR-572
hsa-miR-188-5p
hsa-miR-139-3p
hsa-miR-638
hsa-miR-486-5p
hsa-miR-550
hsa-miR-939
hsa-miR-936
hsa-miR-181c*
hsa-miR-134
hsa-miR-623
-2
2
Expression

Figure 1

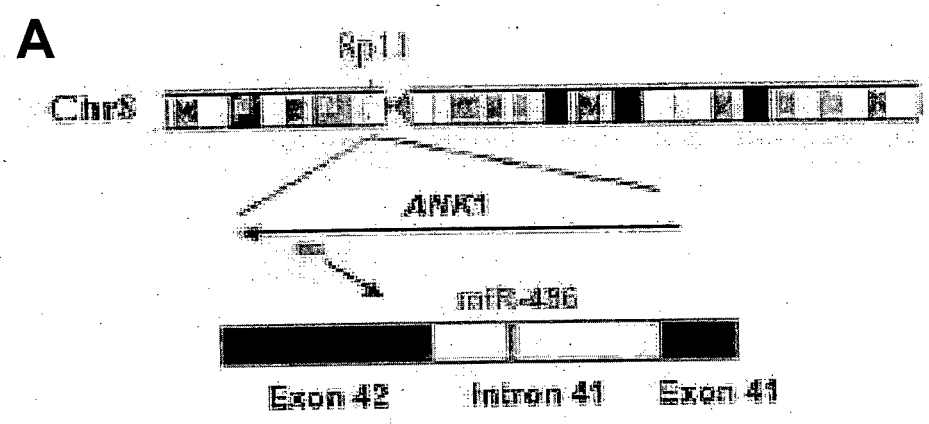


Figure 2A

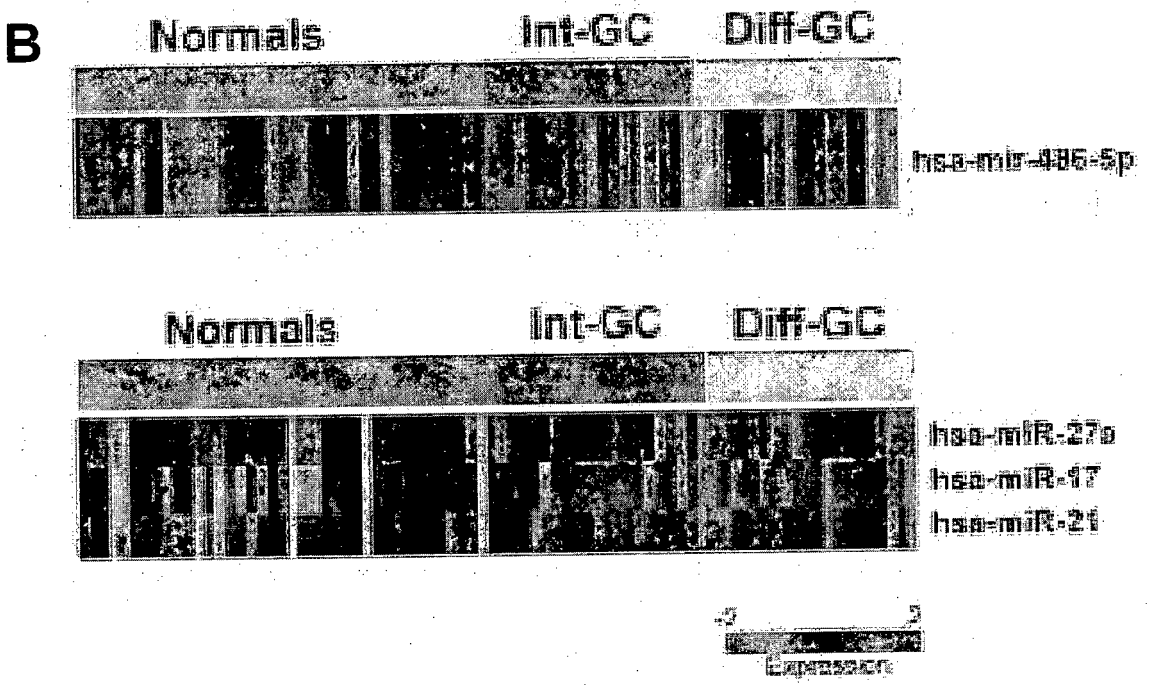


Figure 2B

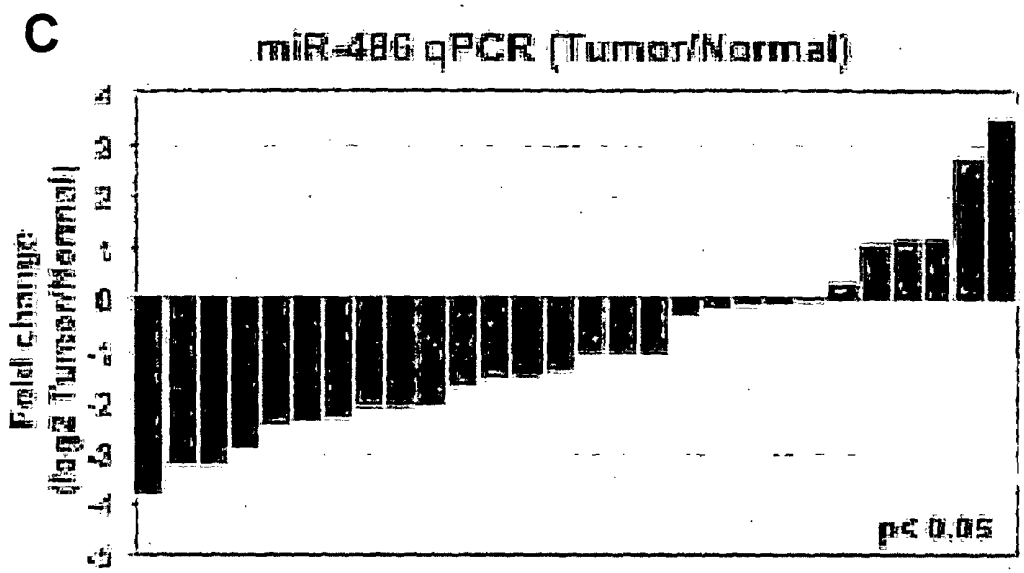


Figure 2C

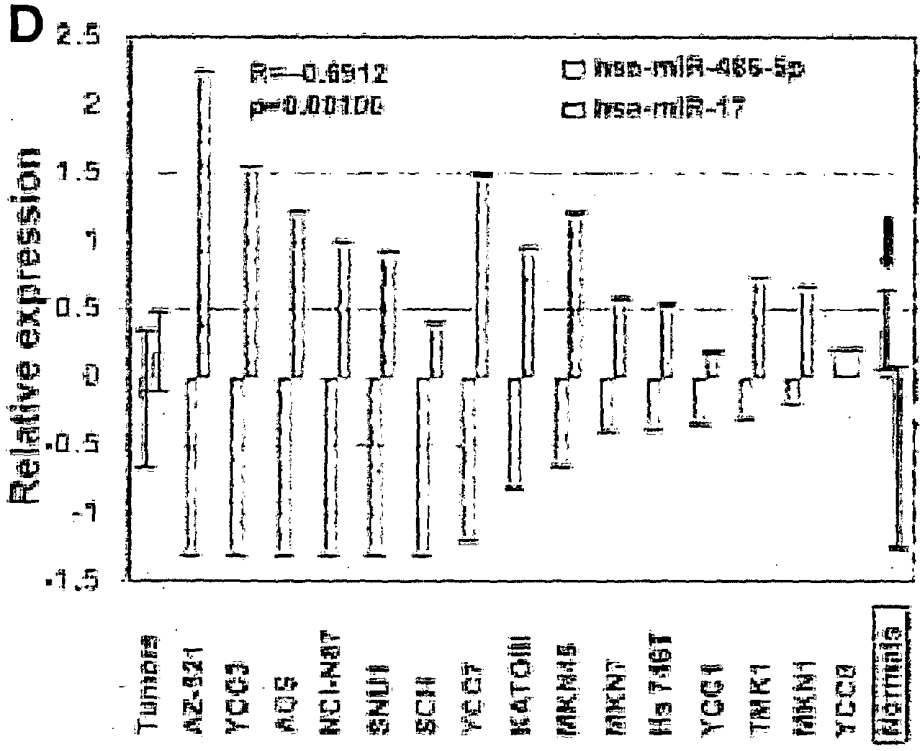


Figure 2D

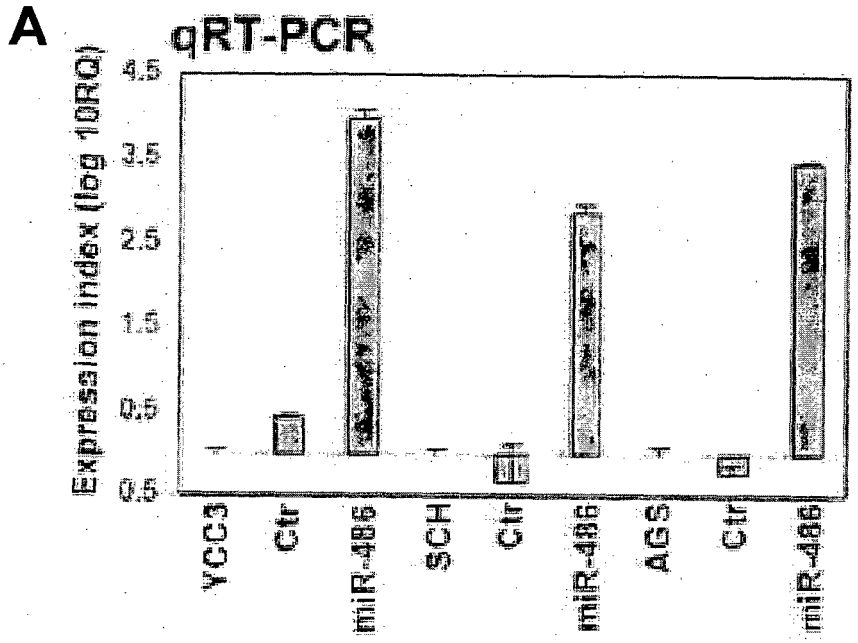


Figure 3A

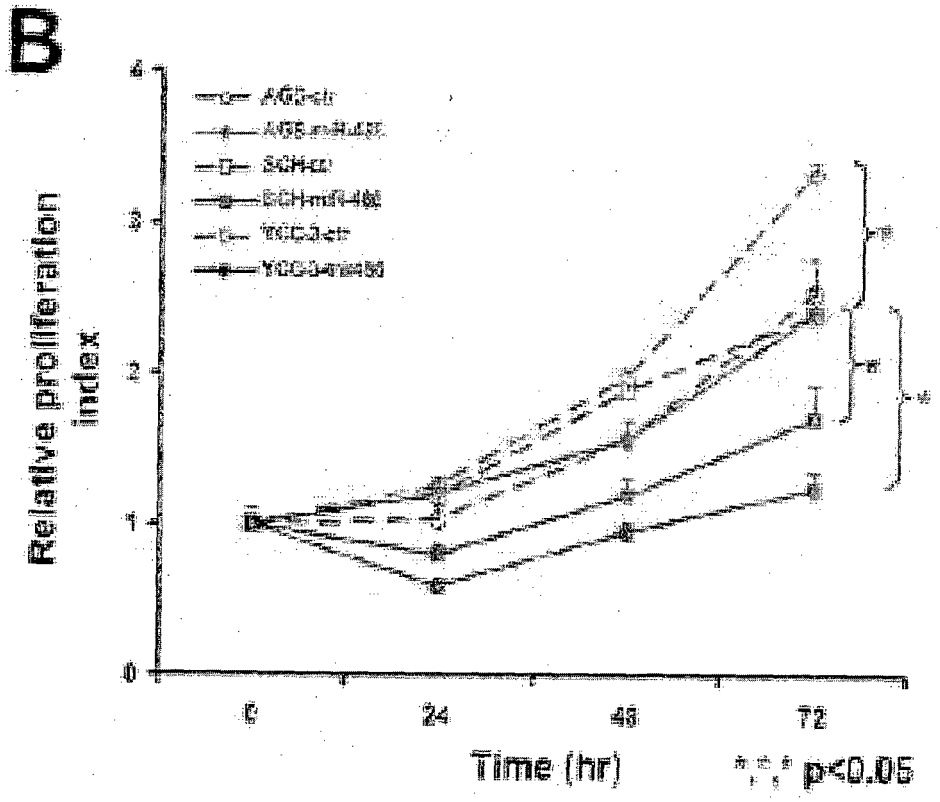


Figure 3B

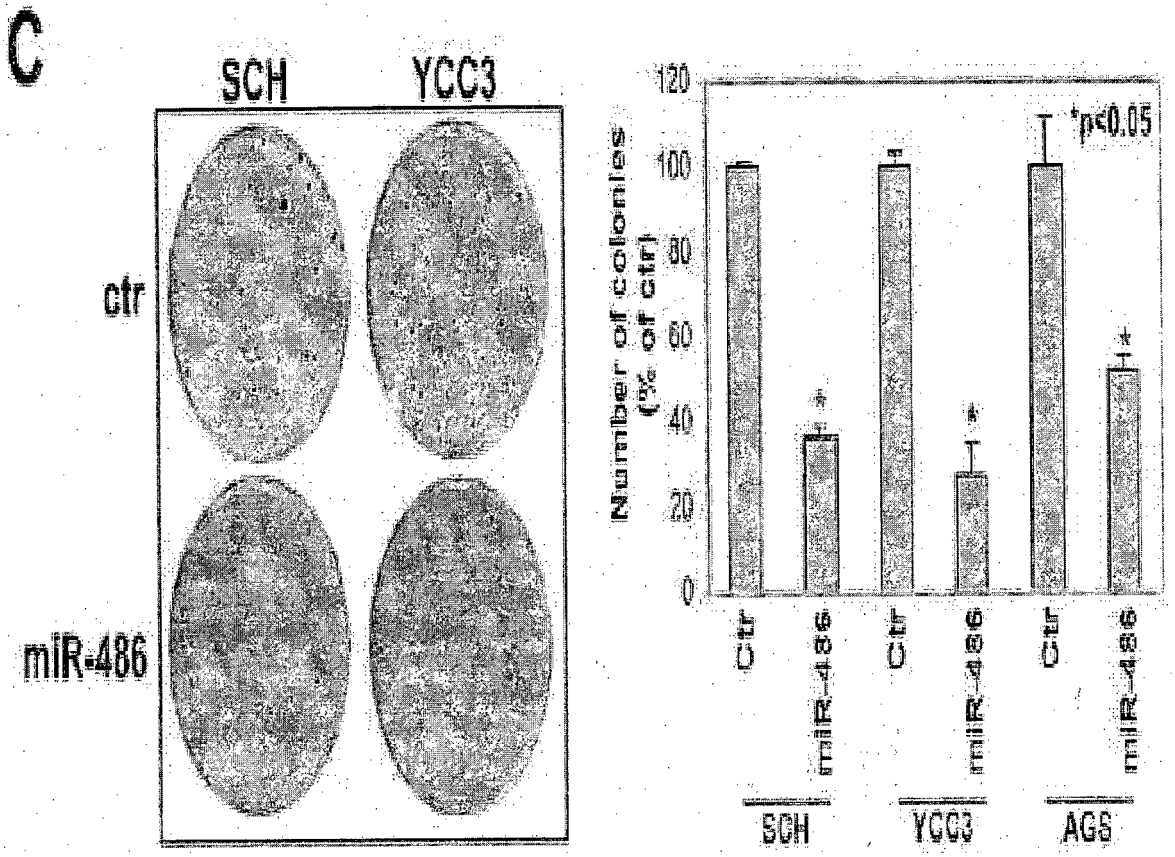

C
SCH
YCC3
ctr
miR-486
Number of colonies (% of ctr)
120
100
80
60
40
20
0
*p<0.05
Ctr
miR-486
SCH
YCC3
AGS

Figure 3C

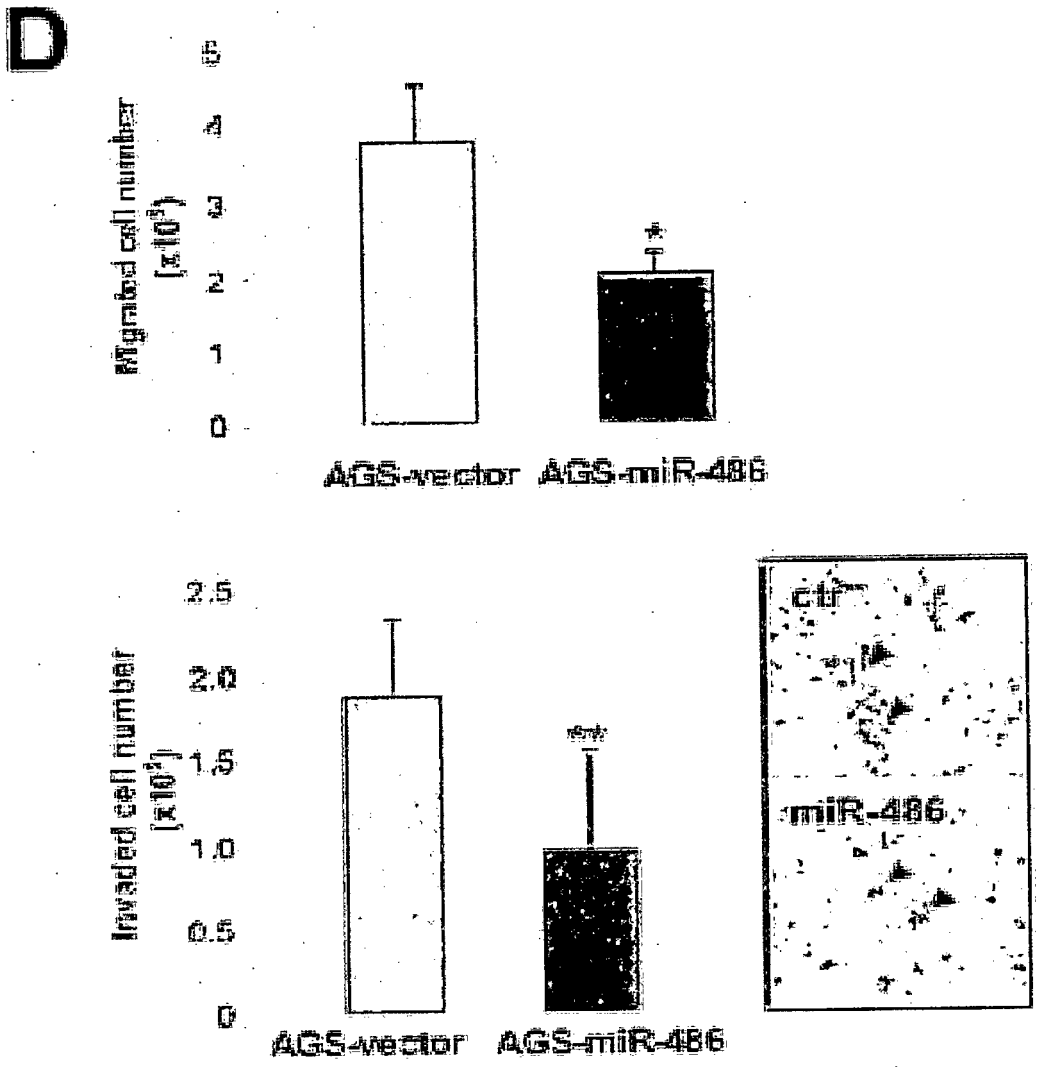

D
Migrated cell number (x10³)
0
1
2
3
4
5
AGS-vector
AGS-miR-486
Invaded cell number (x10²)
0
0.5
1.0
1.5
2.0
2.5
AGS-vector
AGS-miR-486
ctl
miR-486

Figure 3D

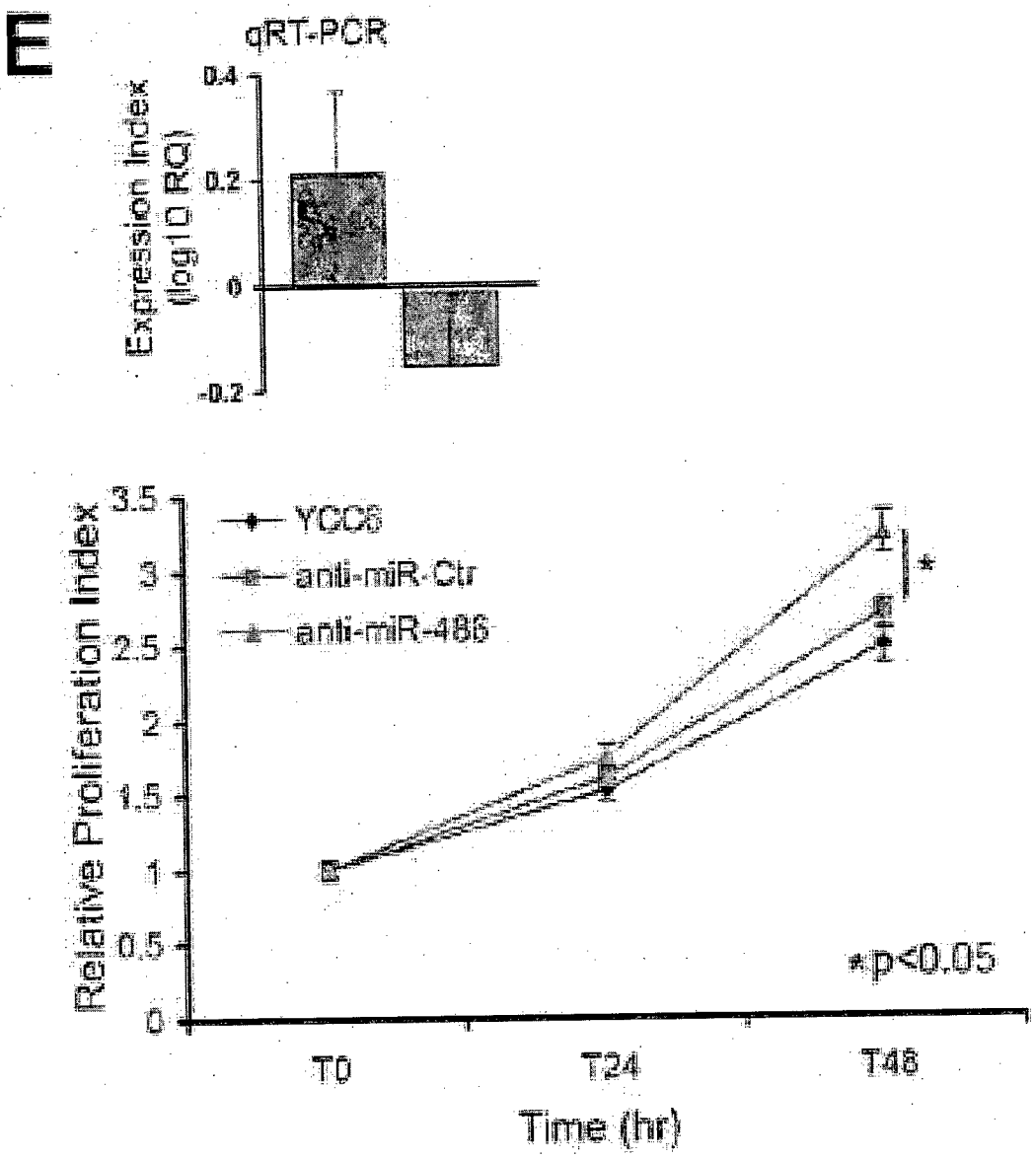

E
qRT-PCR
Expression Index (log10 RQ)
0.4
0.2
0
-0.2
Relative Proliferation Index
3.5
3
2.5
2
1.5
1
0.5
0
YCC6
anti-miR-Ctr
anti-miR-486
*
*p<0.05
T0
T24
T48
Time (hr)

Figure 3E

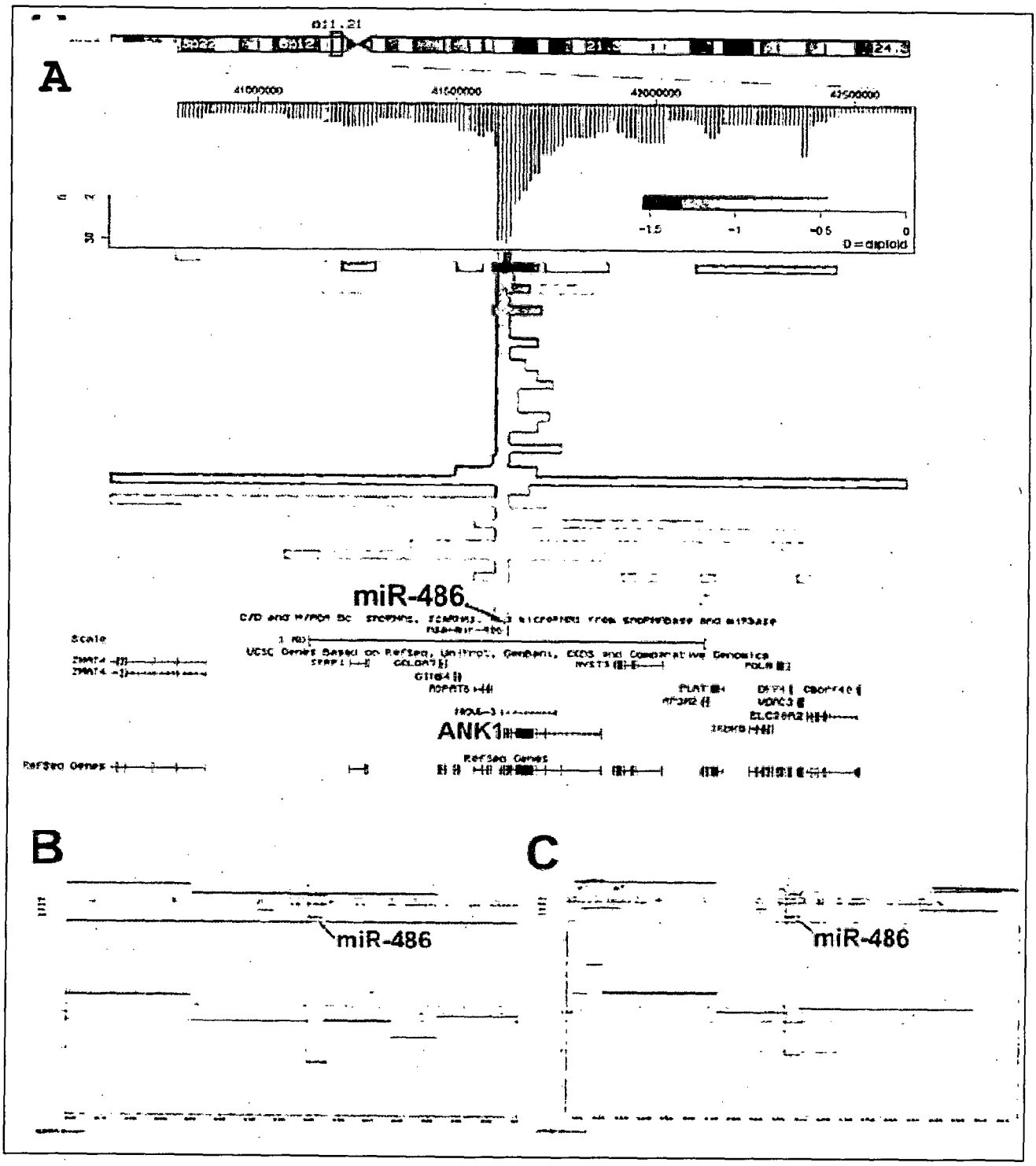

A
41000000
41500000
42000000
42500000
-1.5
-1
-0.5
0
0 = diploid
miR-486
Scale
UCSC Genes Based on RefSeq, UniProt, Genbank, CCDS and Comparative Genomics
ANK1
RefSeq Genes
B
miR-486
C
miR-486

Figure 4

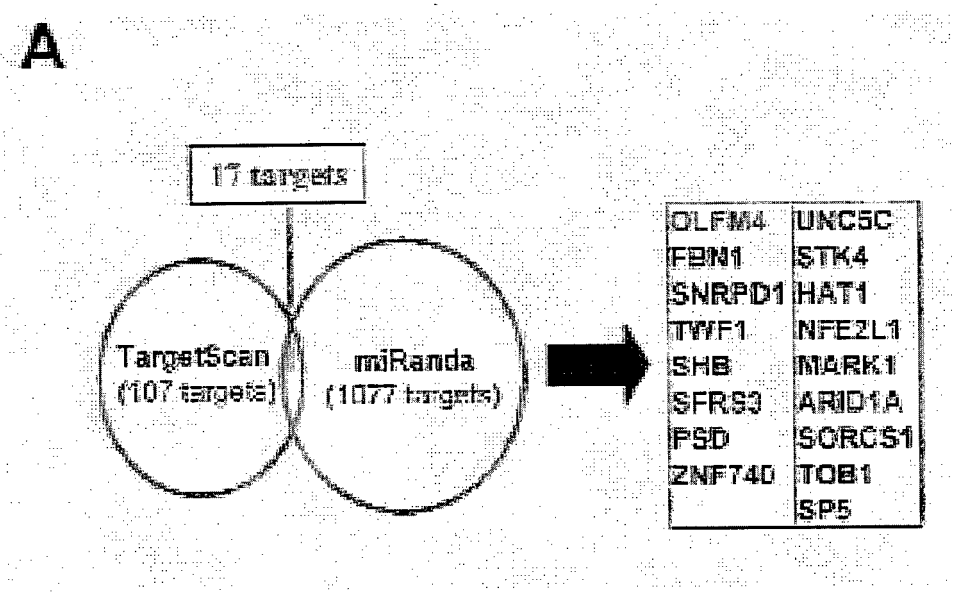


Figure 5A

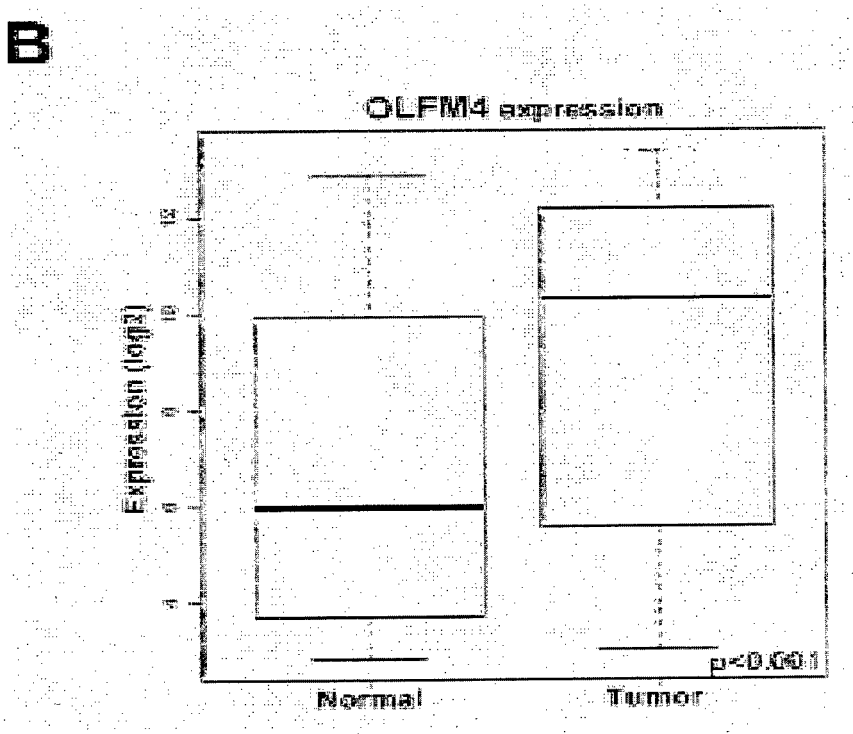


Figure 5B

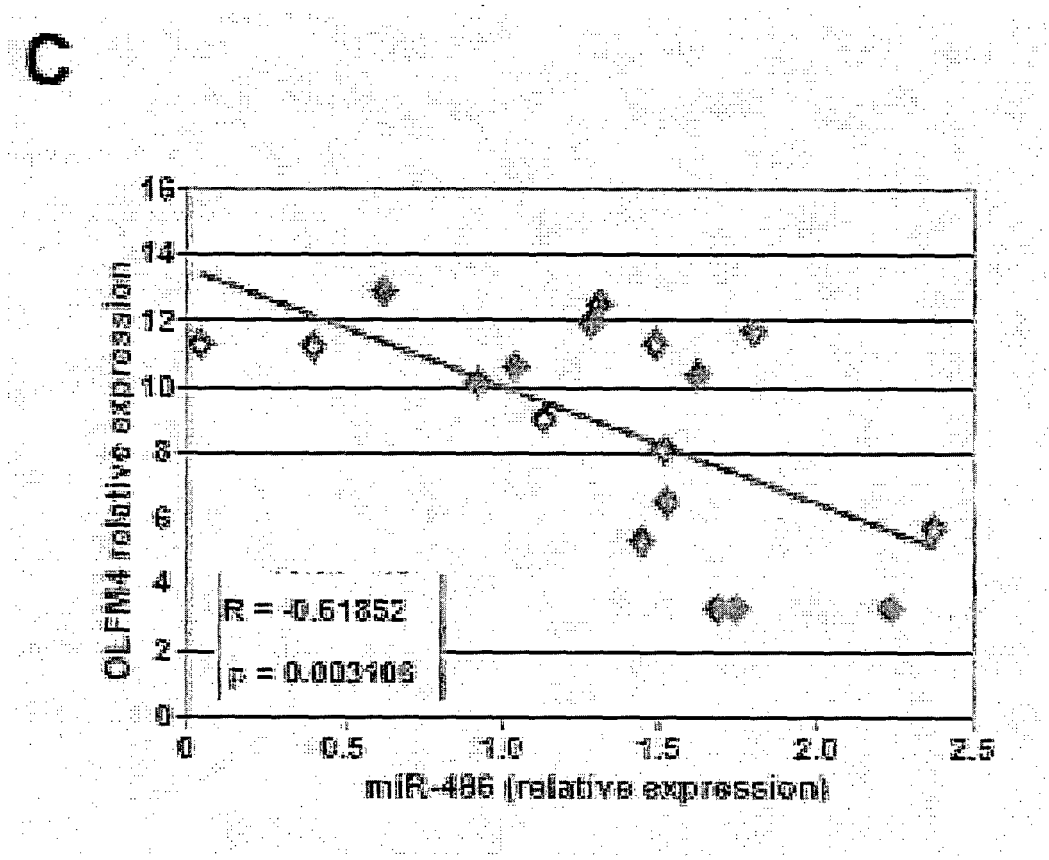

C
OLFM4 relative expression
16
14
12
10
8
6
4
2
0
R = -0.61852
p = 0.003109
0
0.5
1.0
1.5
2.0
2.5
miR-486 (relative expression)

Figure 5C

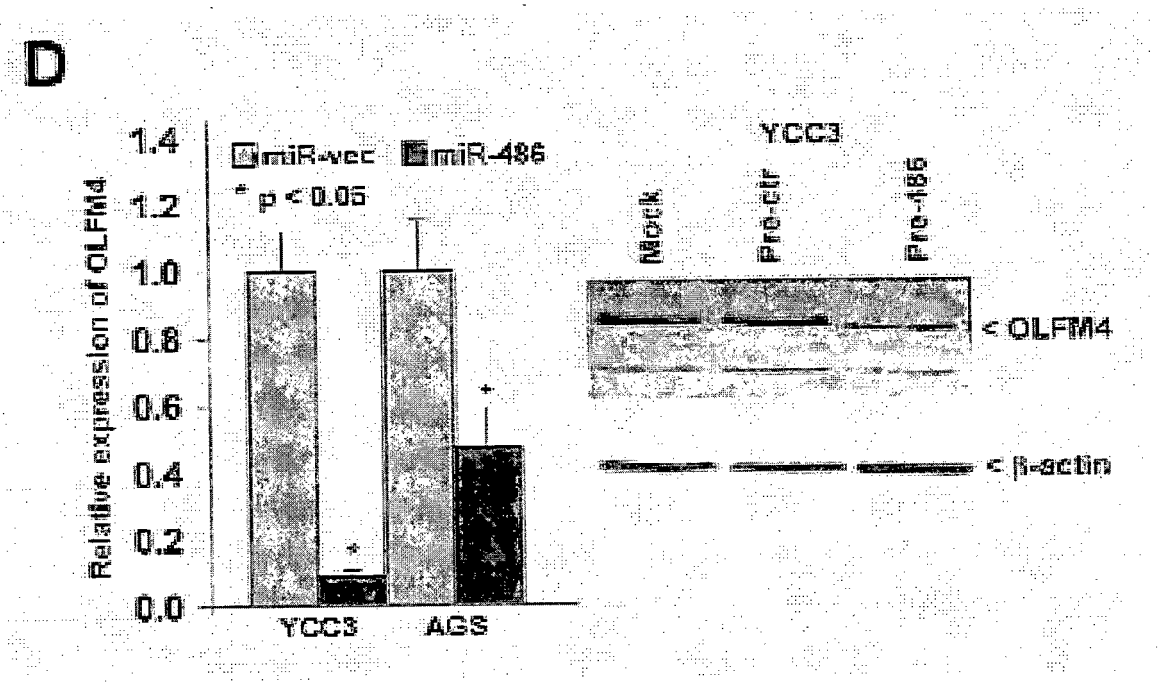

D
Relative expression of OLFM4
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
miR-vec
miR-486
* p < 0.05
YCC3
AGS
YCC3
Mock
Pre-vec
Pre-486
< OLFM4
< β-actin

Figure 5D

E

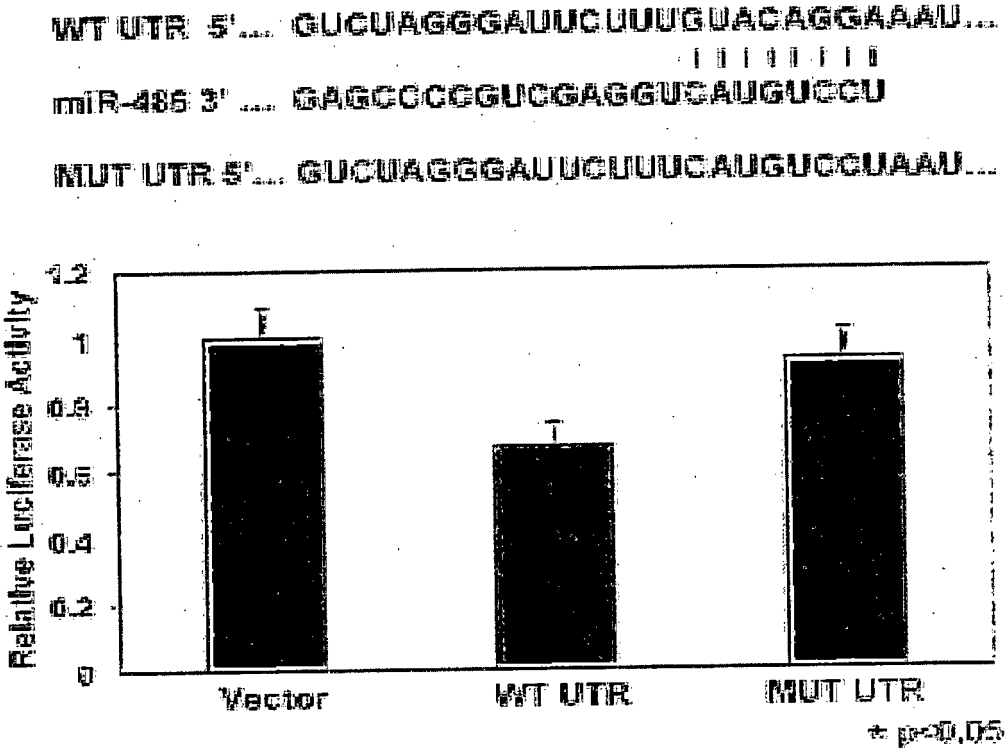

WT UTR 5'.... GUCUAGGGAUUCUUUGUACAGGAAAU...
miR-486 3' .... GAGCCCCGUCGAGGUCAUGUCCU
MUT UTR 5'.... GUCUAGGGAUUCUUUCAUGUCCUAAU...
Relative Luciferase Activity
1.2
1
0.8
0.6
0.4
0.2
0
Vector
WT UTR
MUT UTR
* p<0.05

Figure 5E

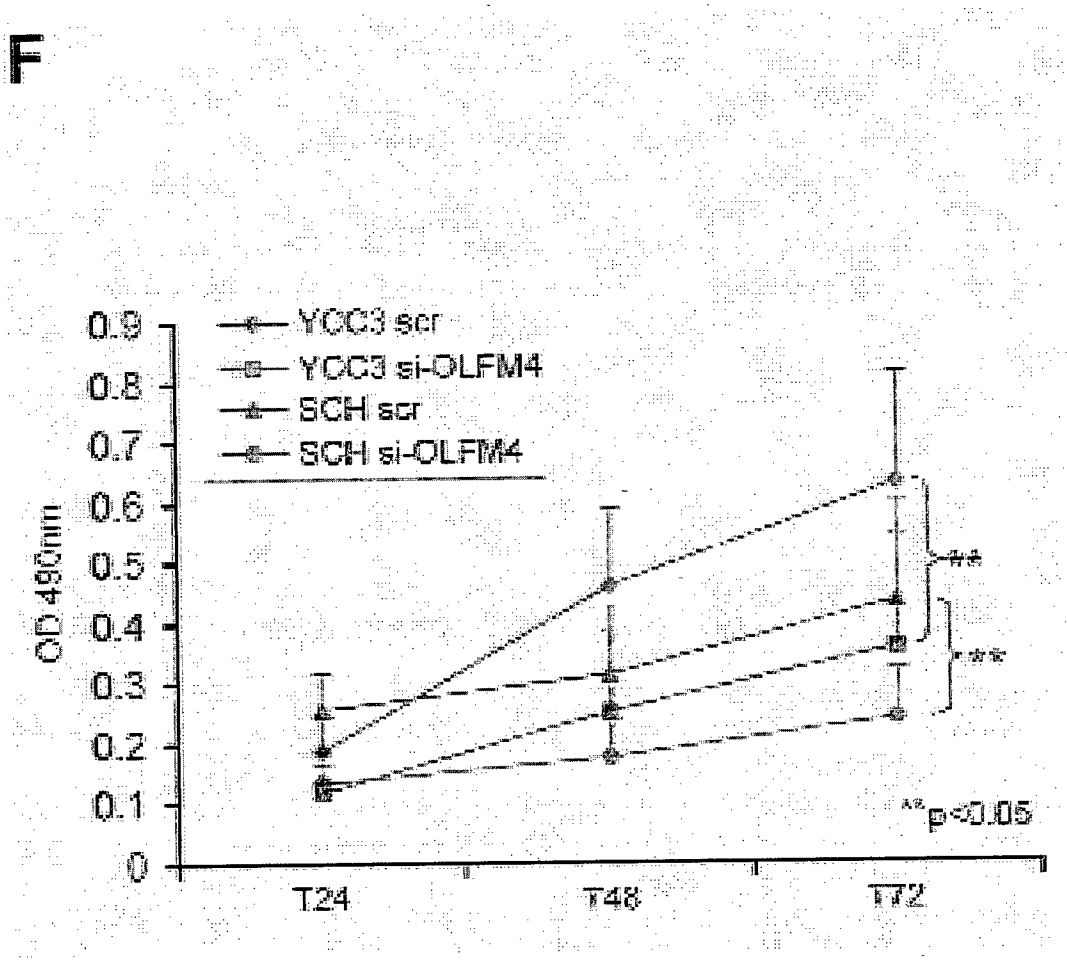

F
YCC3 scr
YCC3 si-OLFM4
SCH scr
SCH si-OLFM4
OD 490nm
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
T24
T48
T72
**
***
**p<0.05

Figure 5F

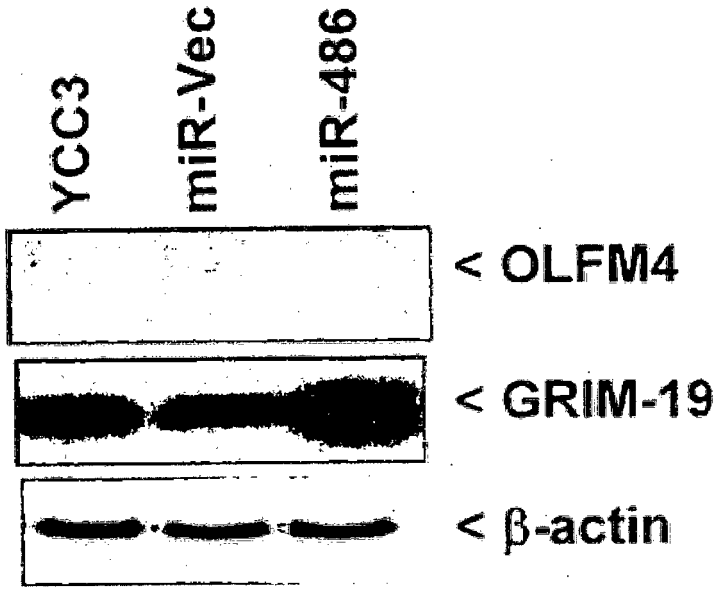


Figure 6

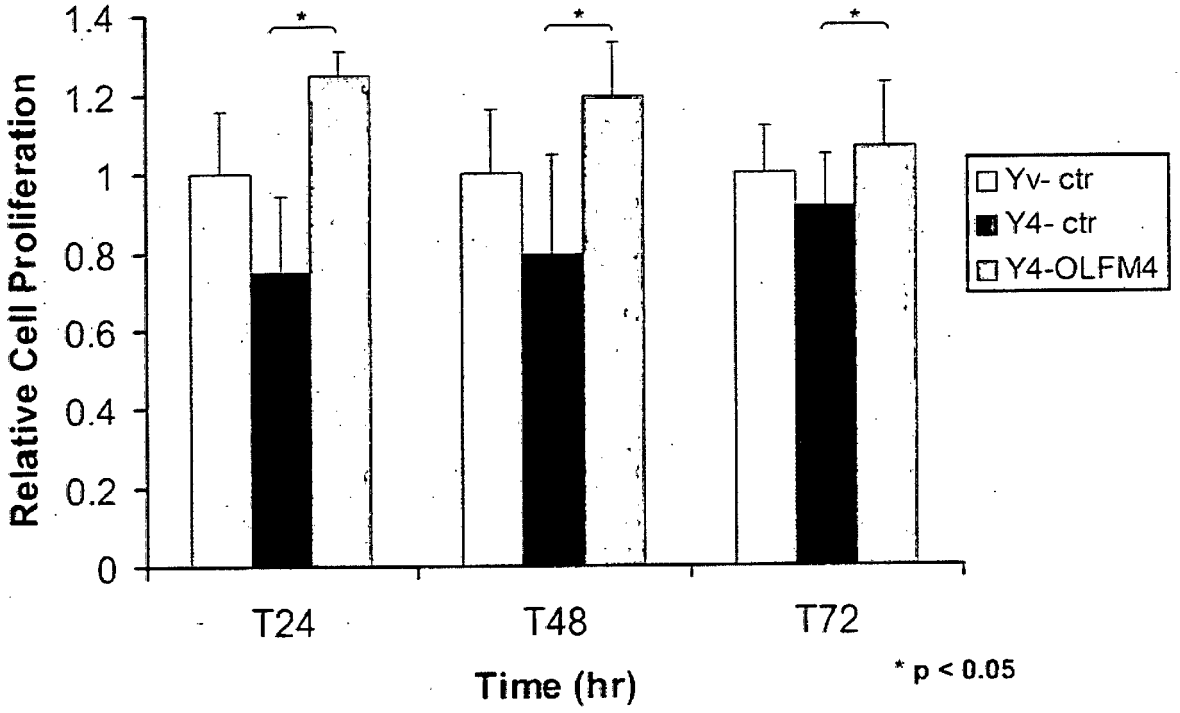


Figure 7

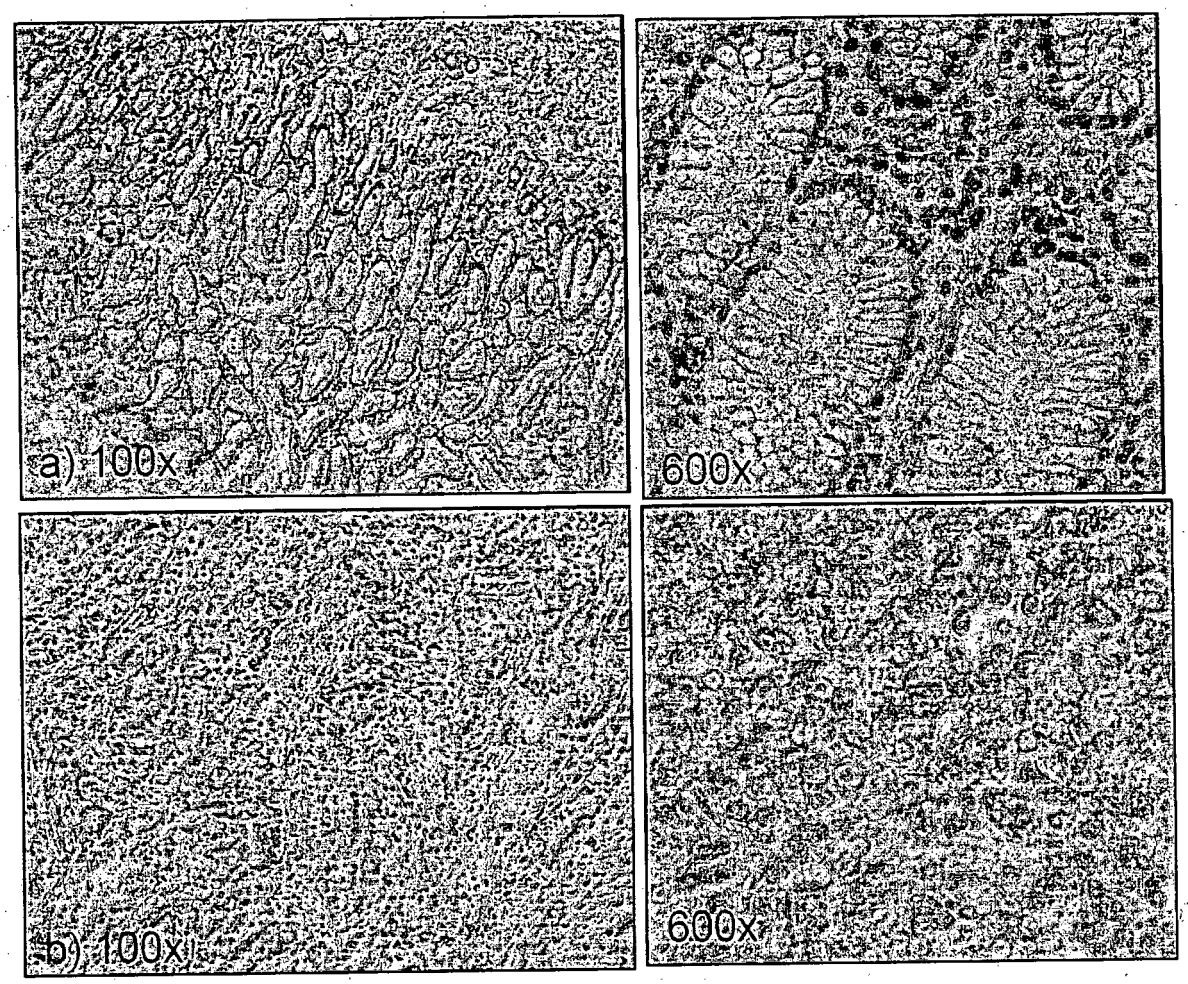


Figure 8