Figure 1

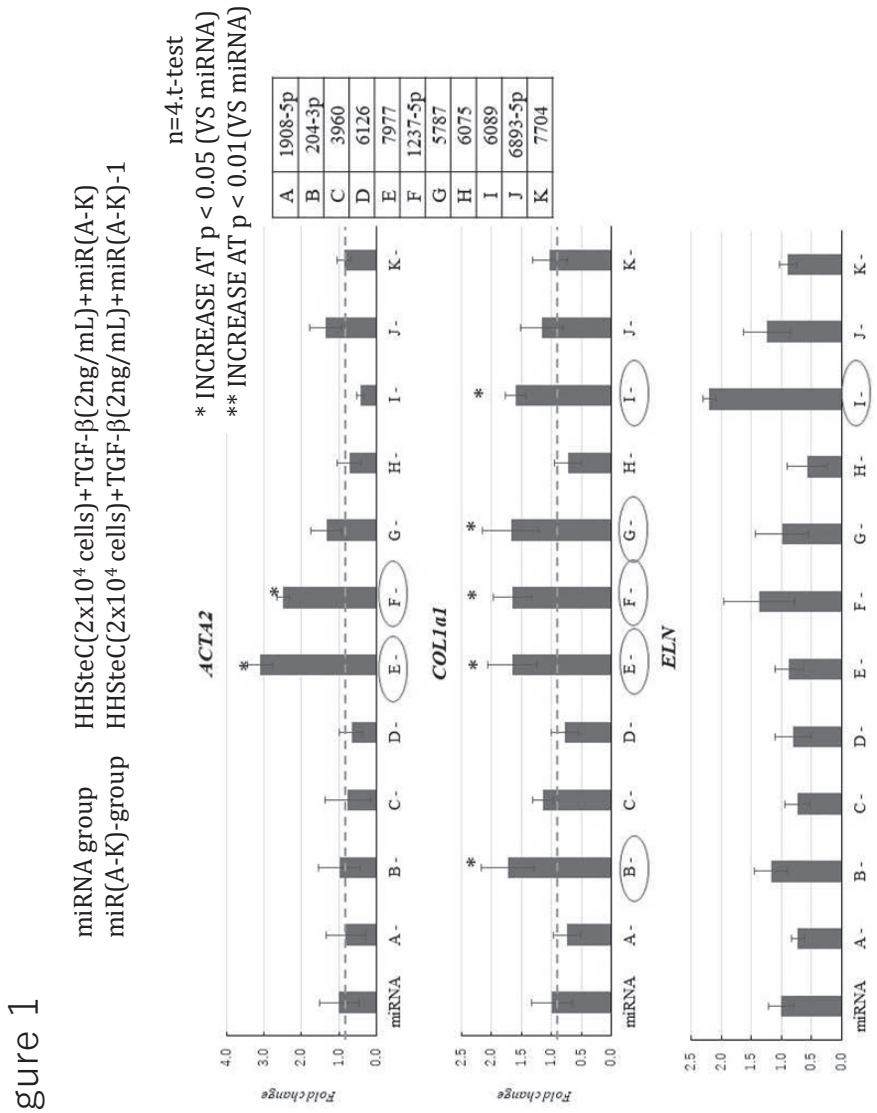
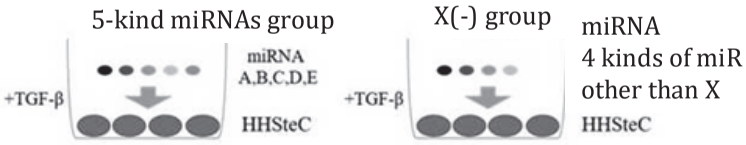
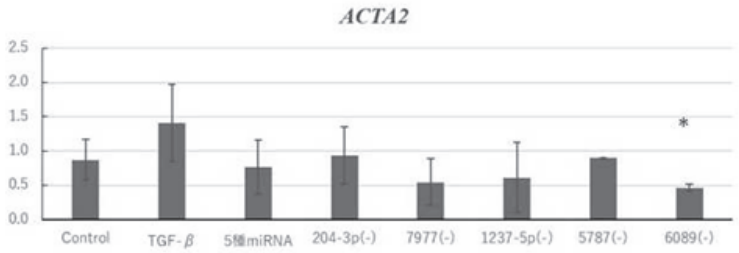
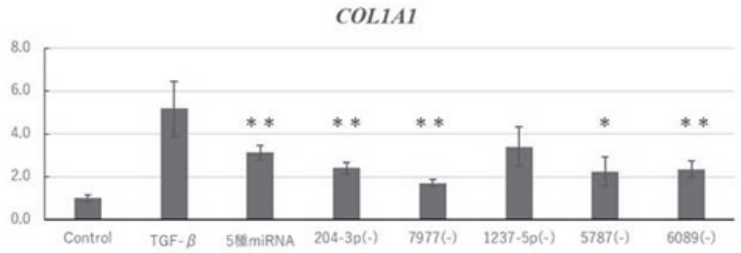

miRNA group HHSteC(2x10⁴ cells)+TGF-β(2ng/mL)+miR(A-K)
miR(A-K)-group HHSteC(2x10⁴ cells)+TGF-β(2ng/mL)+miR(A-K)-1
n=4.t-test
* INCREASE AT p < 0.05 (VS miRNA)
** INCREASE AT p < 0.01(VS miRNA)
A 1908-5p
B 204-3p
C 3960
D 6126
E 7977
F 1237-5p
G 5787
H 6075
I 6089
J 6893-5p
K 7704
ACTA2
COL1a1
ELN
Fold change
miRNA
A- B- C- D- E- F- G- H- I- J- K-

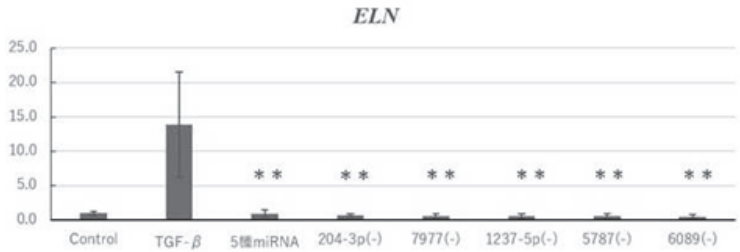
Figure 2

Control group	HHSteC(2x10^4 cells)
TGF-β group	HHSteC(2x10^4 cells)+ TGF-β (2ng/mL)
5-kind miRNAs group	HHSteC(2x10^4 cells)+ TGF-β (2ng/mL)+miR A+B+C+D+E
X(-) group	HHSteC(2x10^4 cells)+ TGF-β (2ng/mL)+miR 4 kinds of miR other than X









n=4
*** *p<0.05* (VS TGF-β)**
*** * *p<0.01* (VS TGF-β)**

Figure 3A

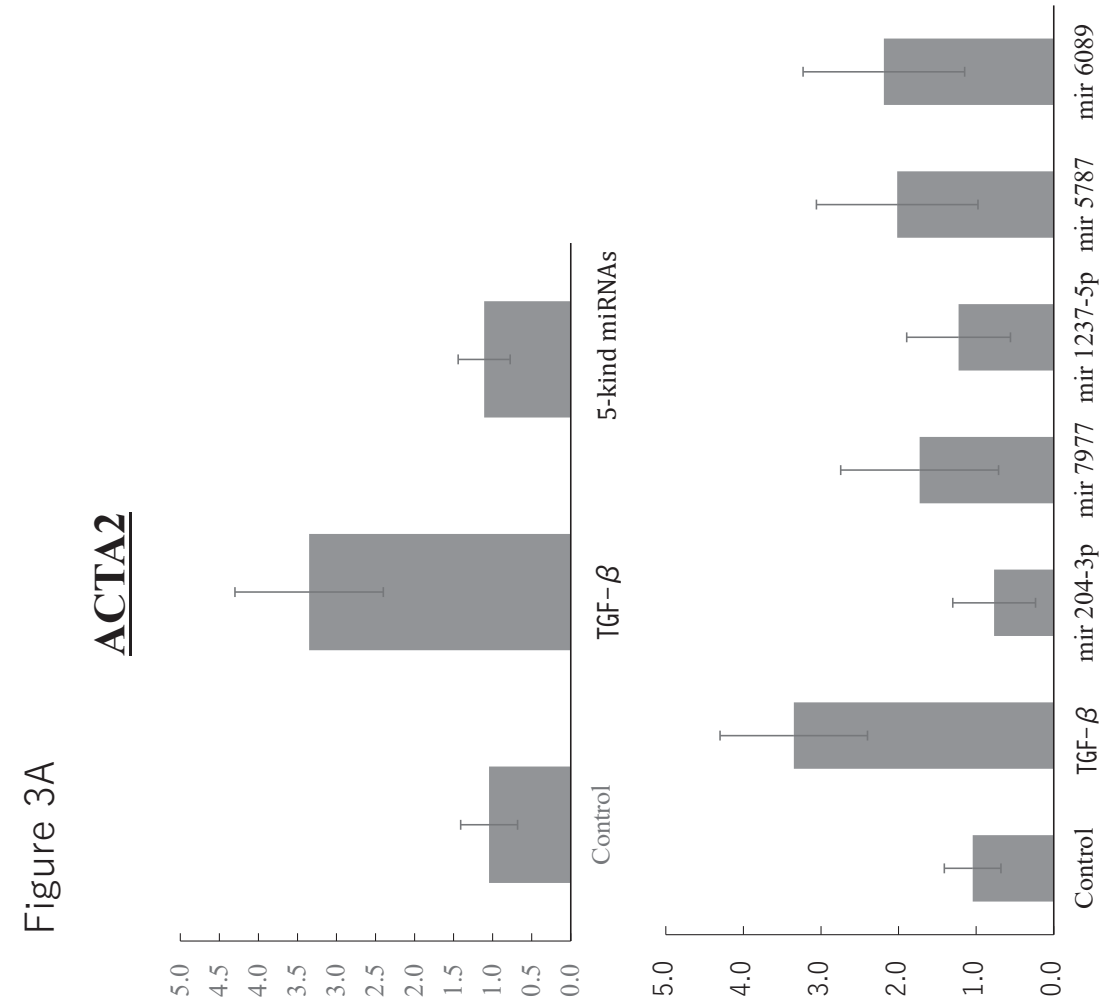

ACTA2
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Control
TGF-β
5-kind miRNAs
5.0
4.0
3.0
2.0
1.0
0.0
Control
TGF-β
mir 204-3p
mir 7977
mir 1237-5p
mir 5787
mir 6089

Figure 3B

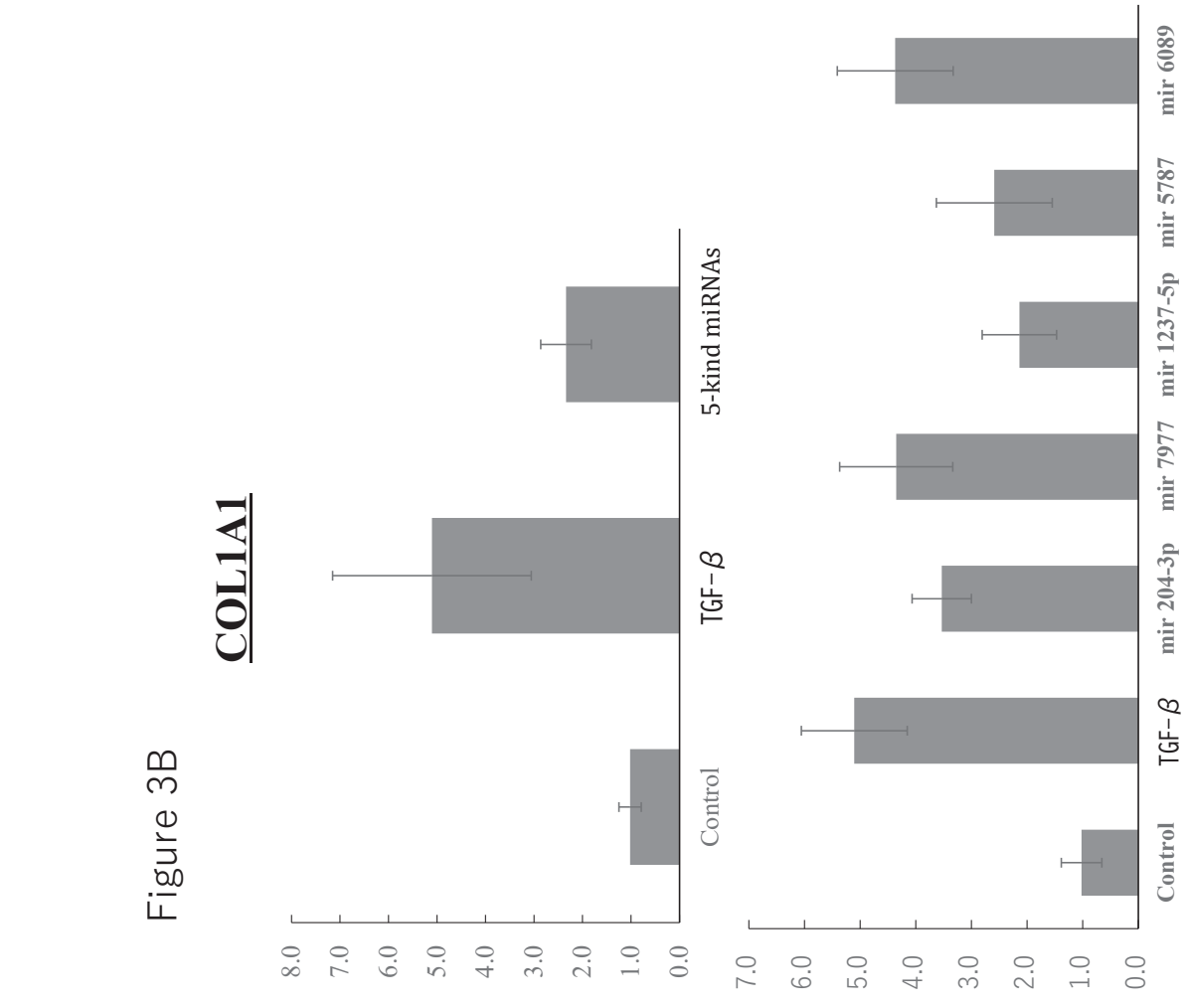

COL1A1
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
Control
TGF-β
5-kind miRNAs
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
Control
TGF-β
mir 204-3p
mir 7977
mir 1237-5p
mir 5787
mir 6089

Figure 3C

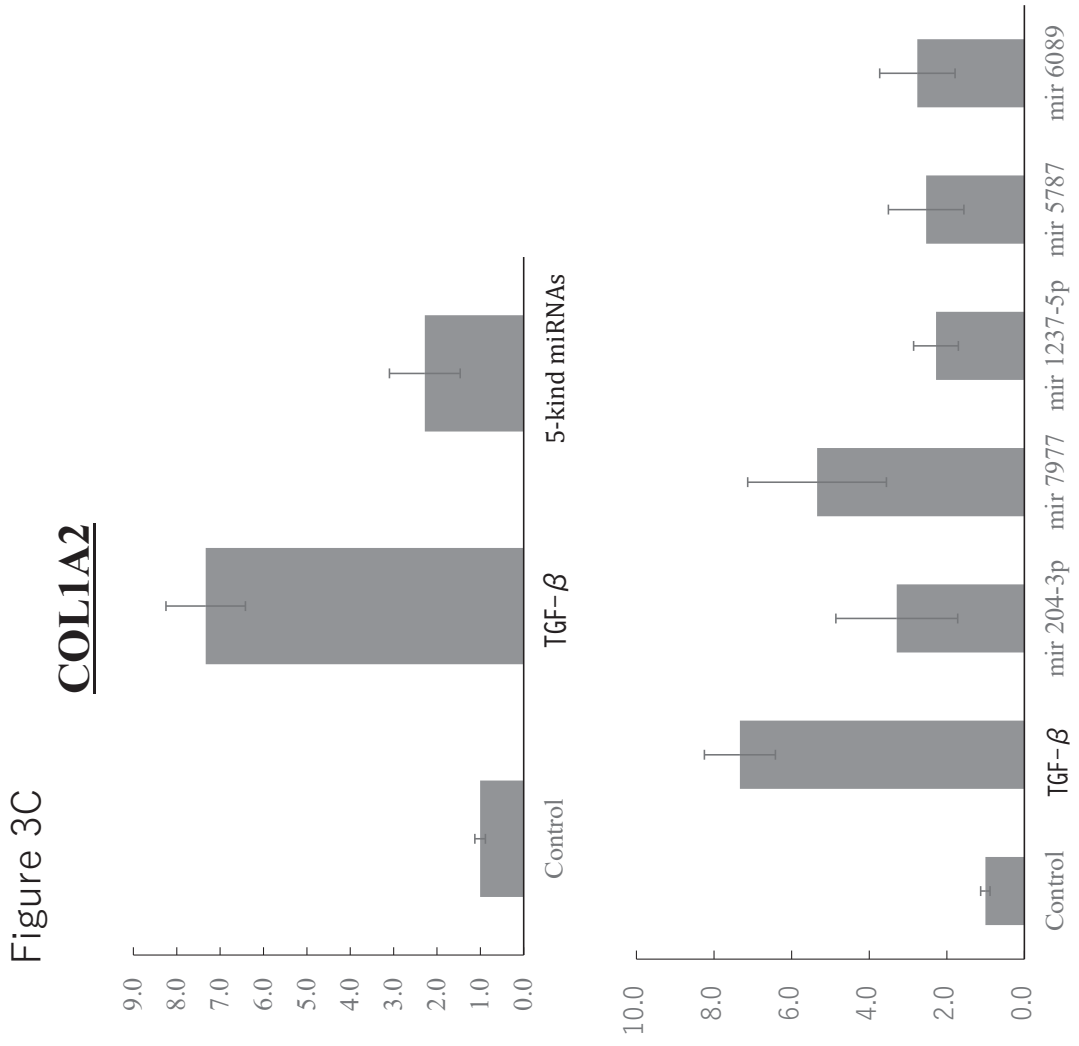

COL1A2
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
Control
TGF-β
5-kind miRNAs
10.0
8.0
6.0
4.0
2.0
0.0
Control
TGF-β
mir 204-3p
mir 7977
mir 1237-5p
mir 5787
mir 6089

Figure 3D

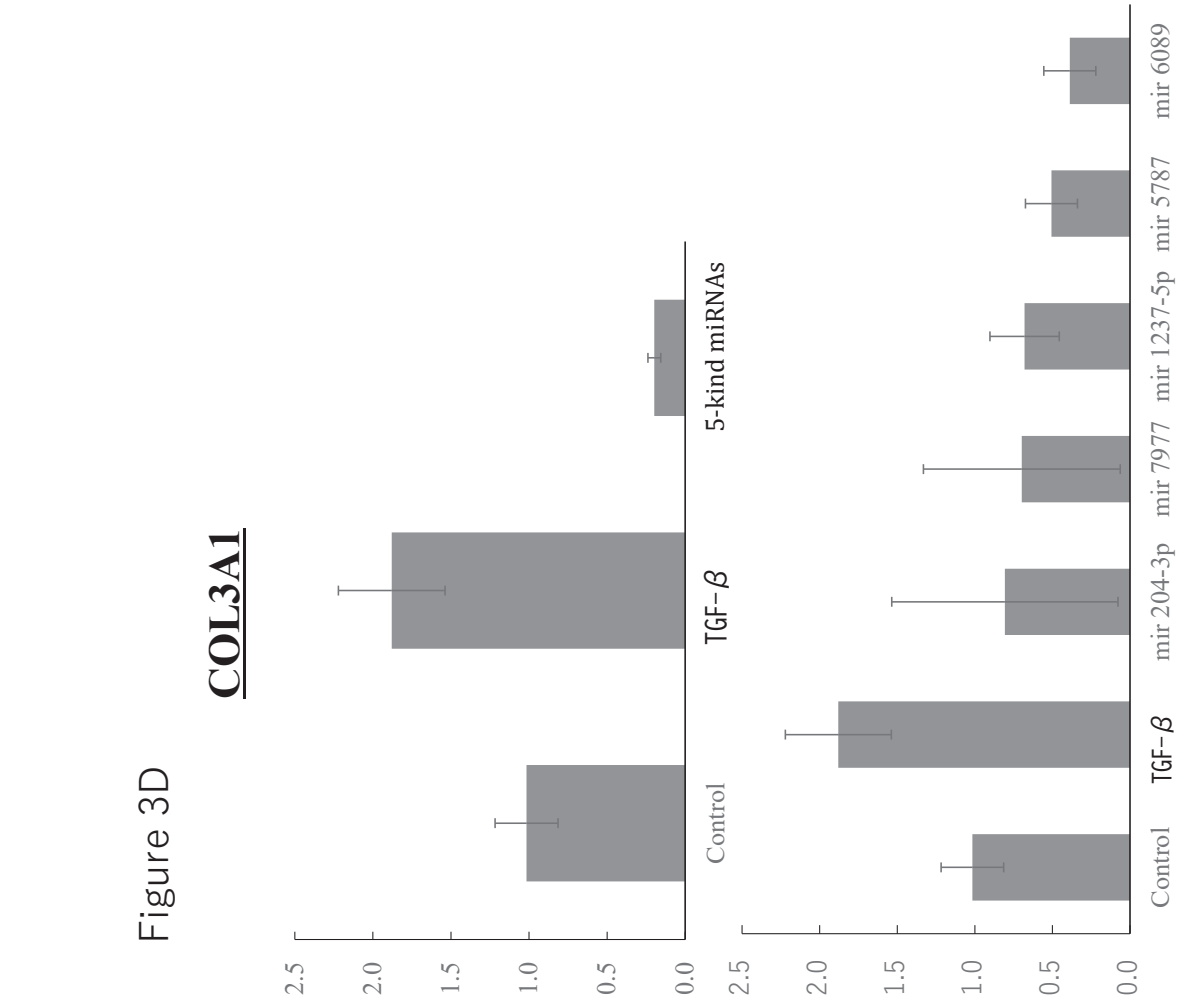

COL3A1
2.5
2.0
1.5
1.0
0.5
0.0
Control
TGF-β
5-kind miRNAs
Control
TGF-β
mir 204-3p
mir 7977
mir 1237-5p
mir 5787
mir 6089

Figure 3E

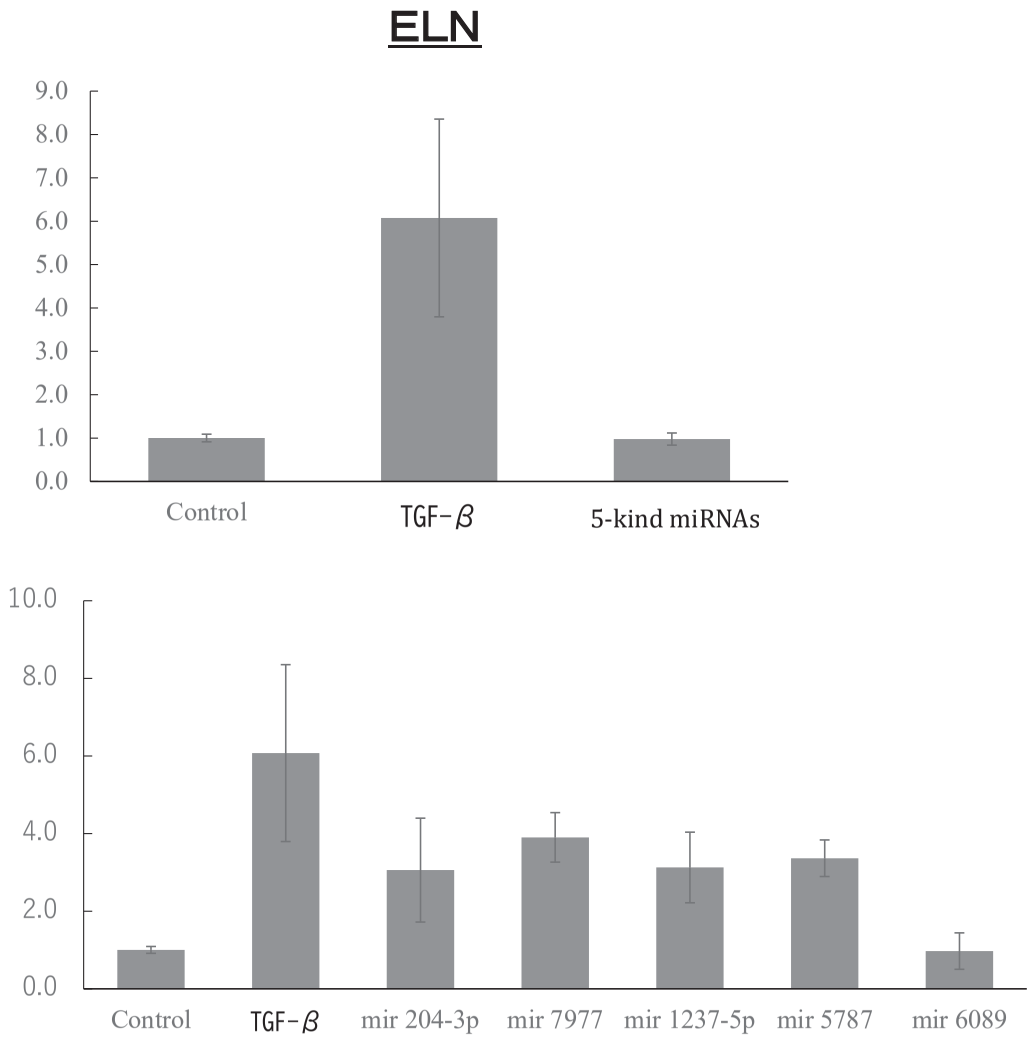
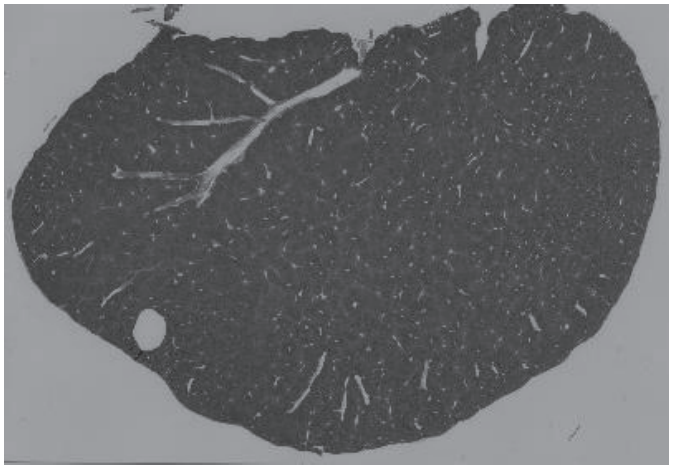
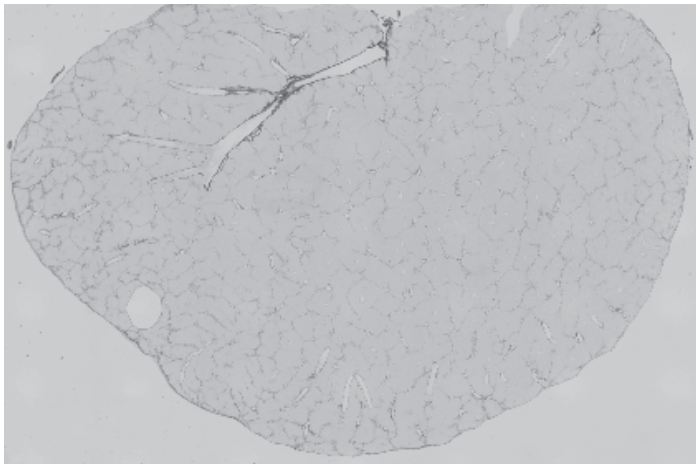

ELN
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
Control
TGF-β
5-kind miRNAs
10.0
8.0
6.0
4.0
2.0
0.0
Control
TGF-β
mir 204-3p
mir 7977
mir 1237-5p
mir 5787
mir 6089

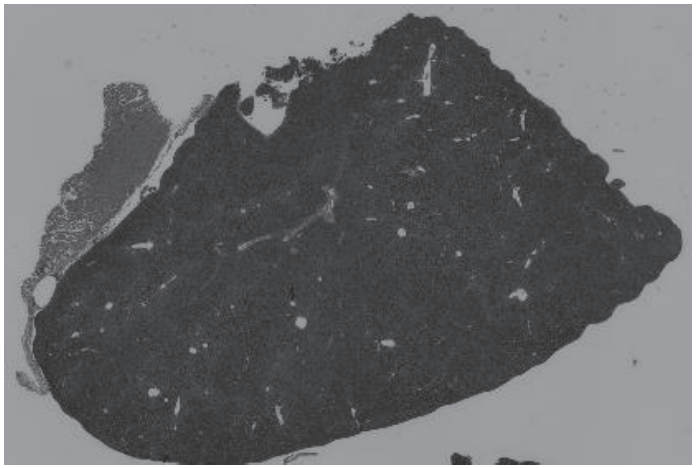
Figure 4

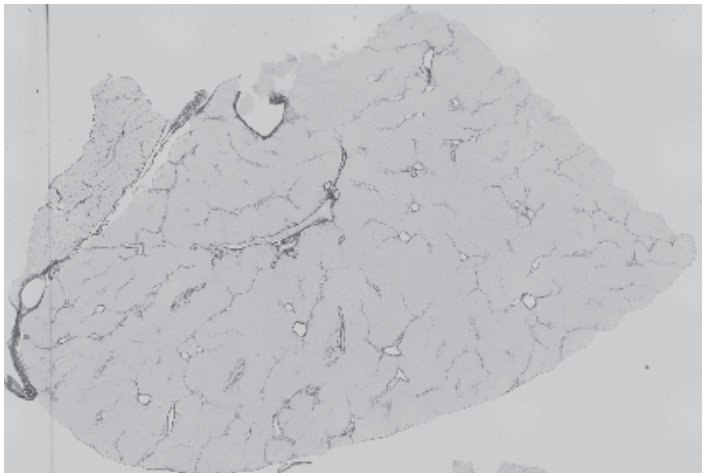




Control

FIBROSIS AREA 13%





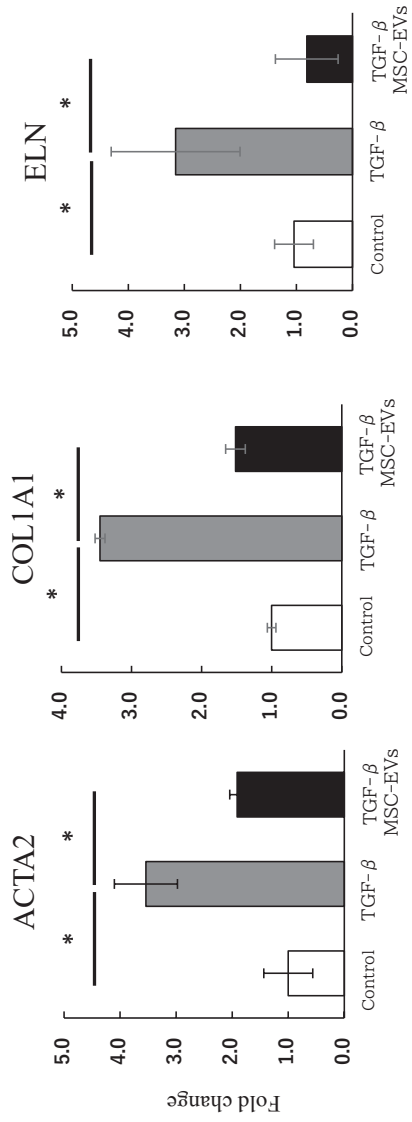
5-kind miRNAs

FIBROSIS AREA 9%

HE STAINING

SIRIUS RED STAINING

Figure 5



n=3,
* $p<0.05$