FIGURE 1A

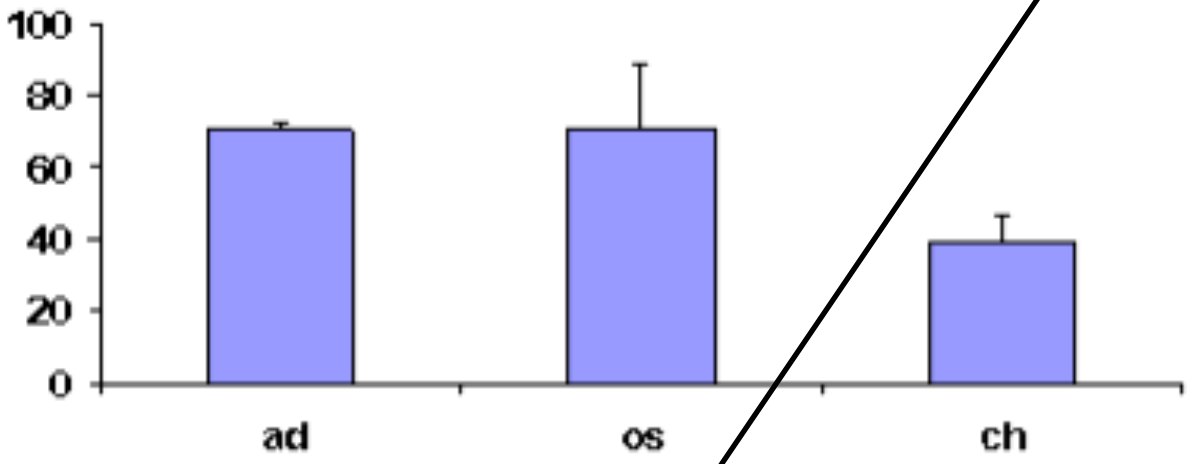


FIGURE 1B

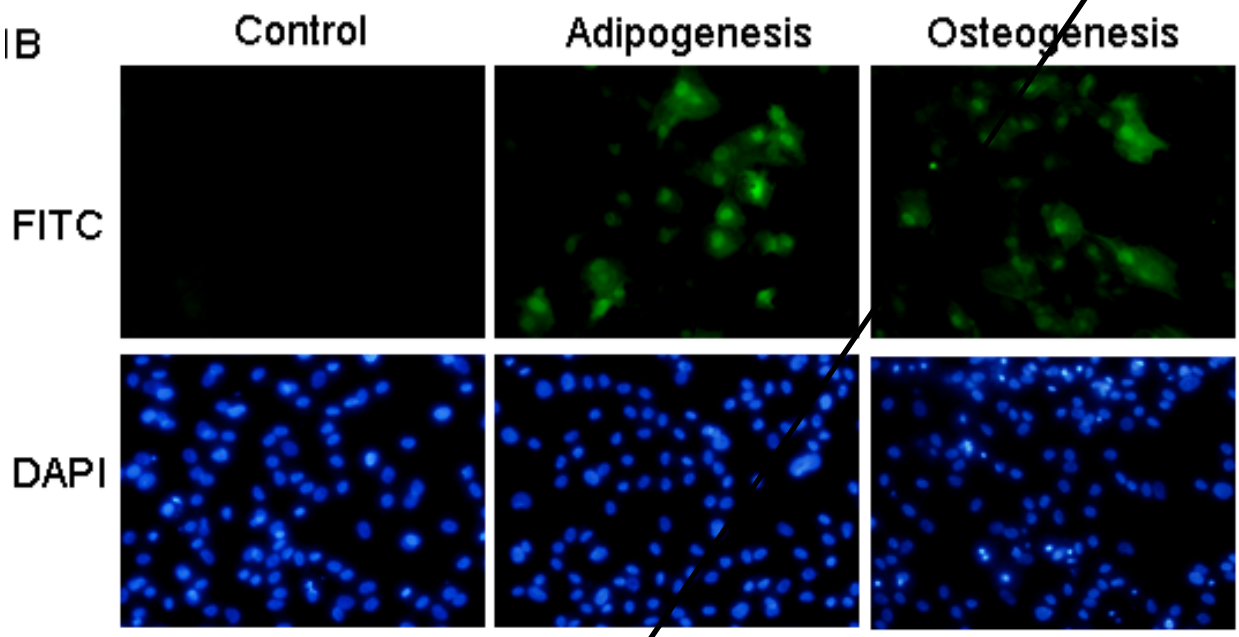


FIGURE 1C

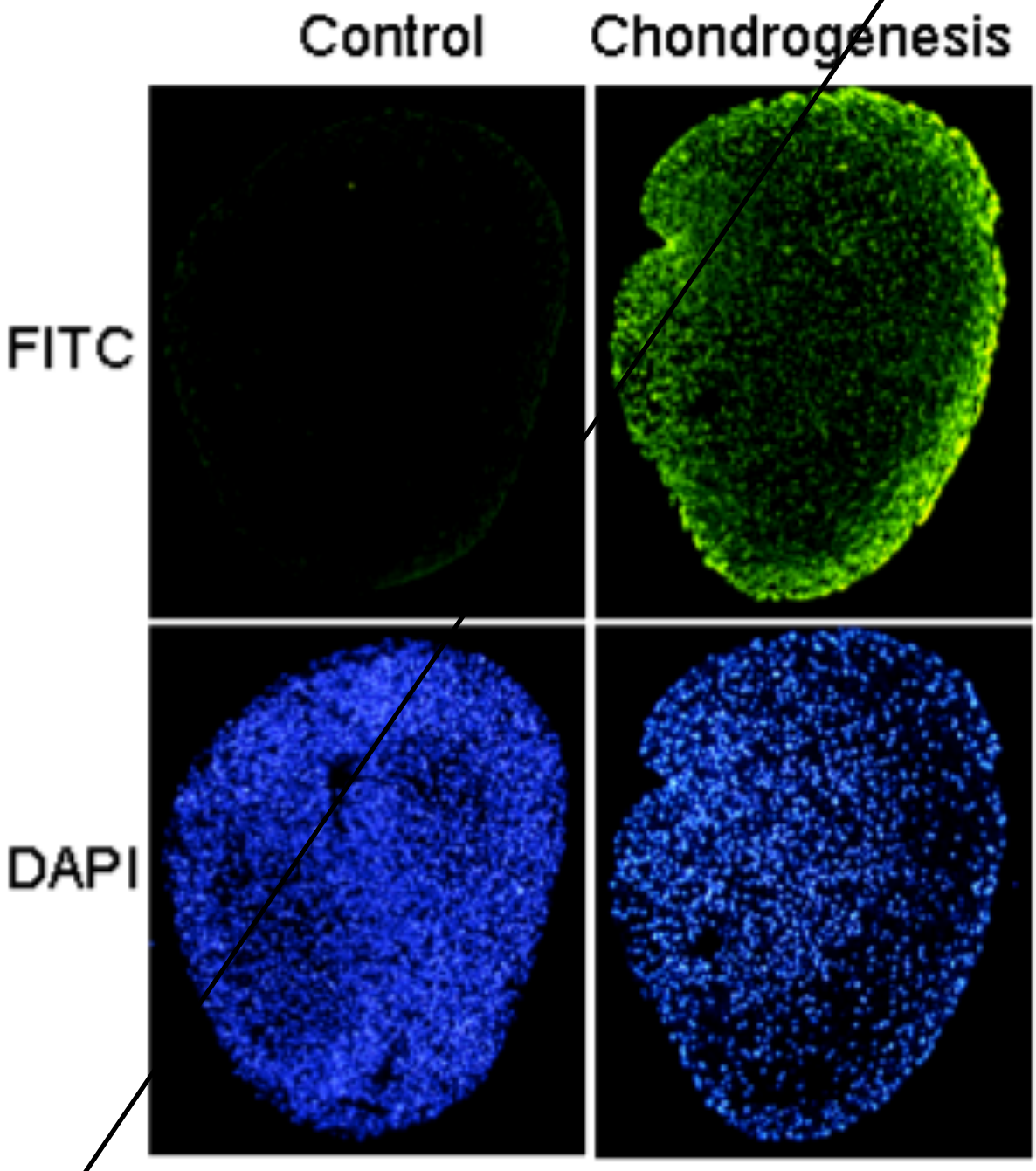


FIGURE 1D

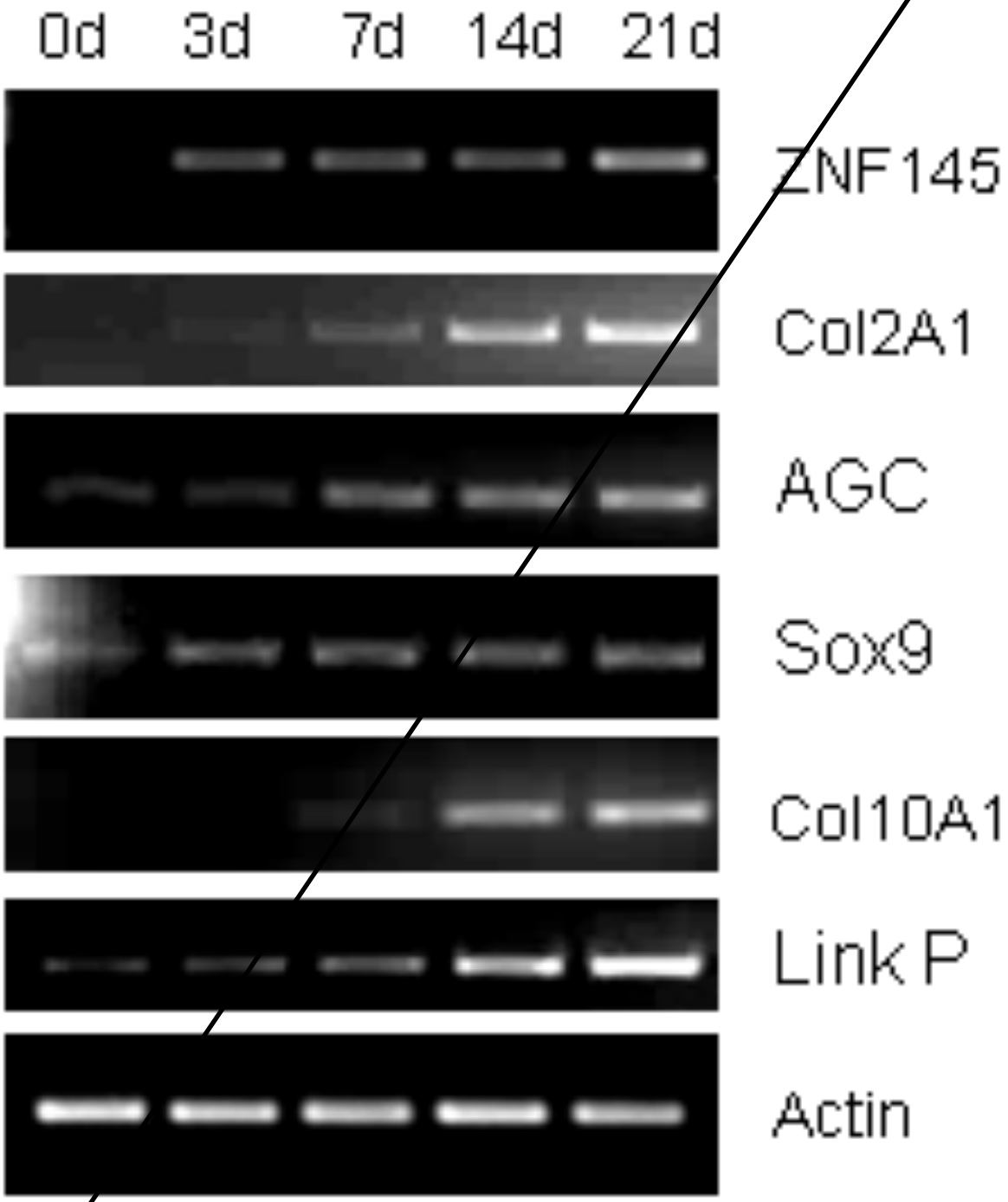


FIGURE 2A

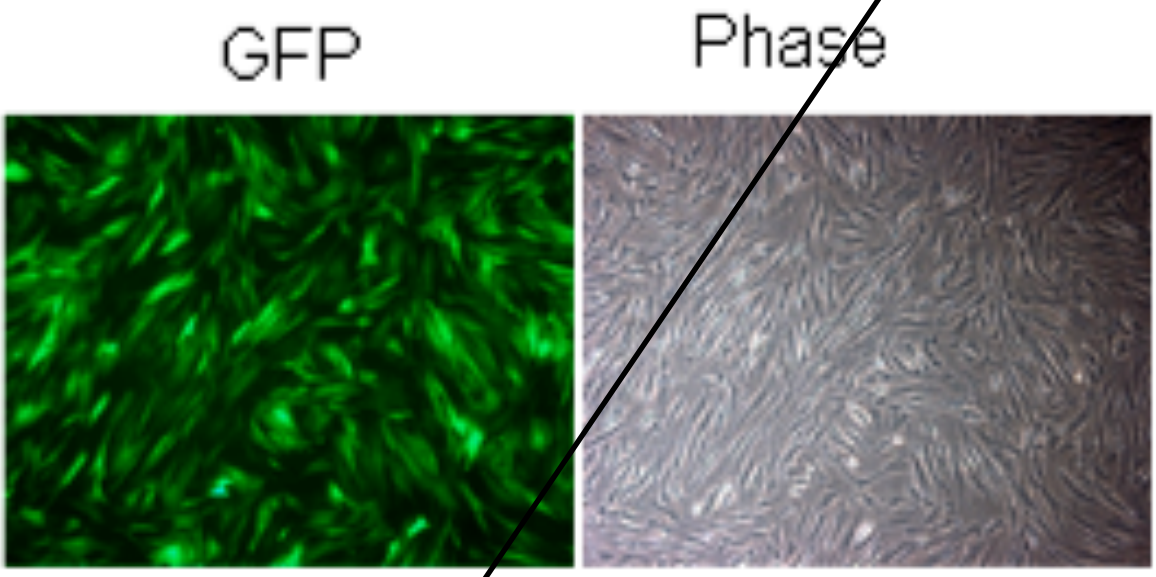


FIGURE 2B

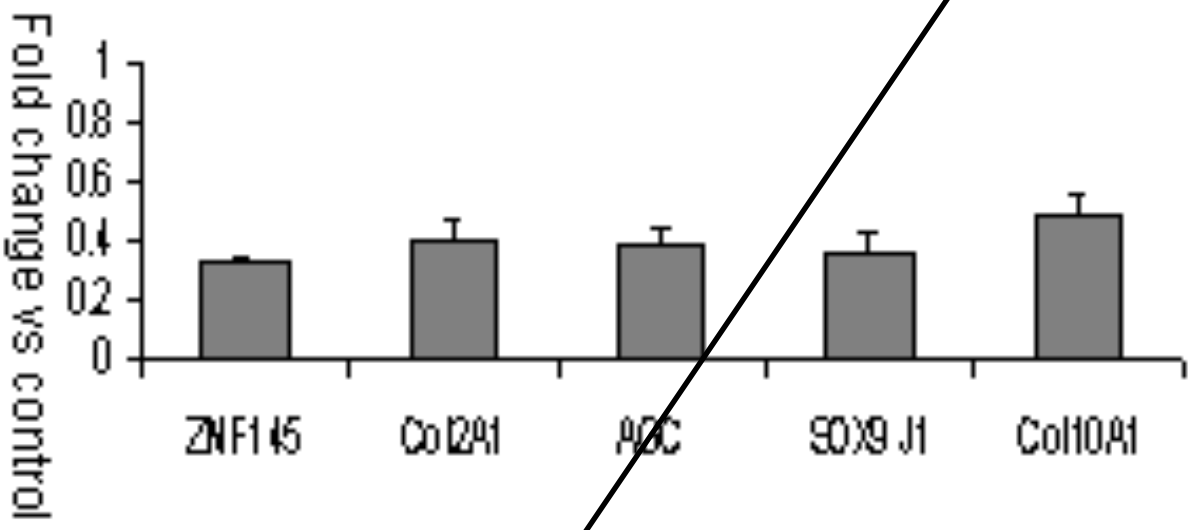

Fold change vs control
1
0.8
0.6
0.4
0.2
0
ZNF145
Col2A1
AGC
SOX9 J1
Col10A1

FIGURE 2C

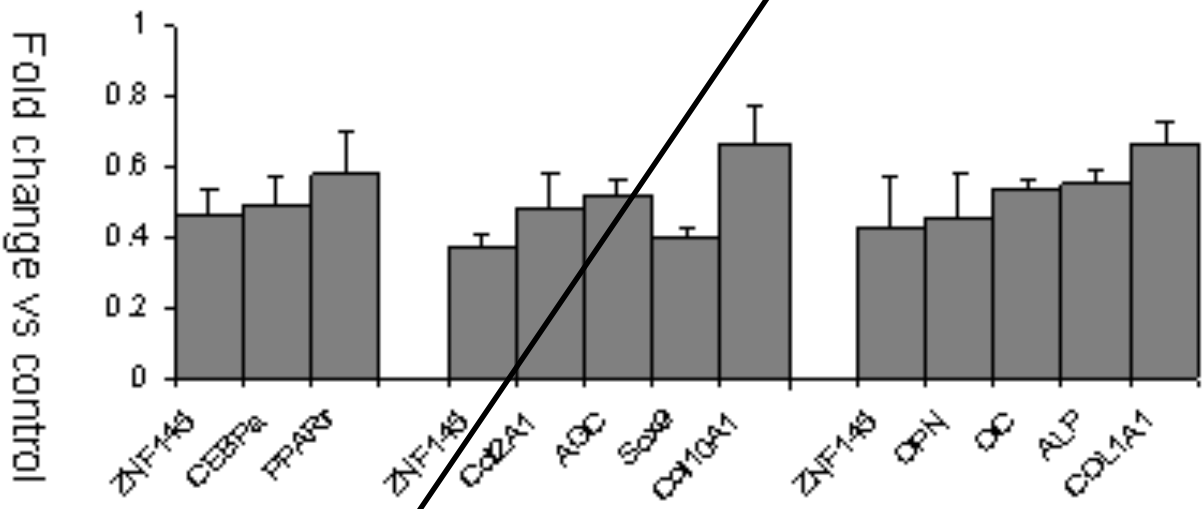

Fold change vs control
1
0.8
0.6
0.4
0.2
0
ZNF145
CEBPa
PPARγ
ZNF145
Col2A1
AQC
Sox9
Col10A1
ZNF145
OPN
OC
ALP
COL1A1

FIGURE 2D

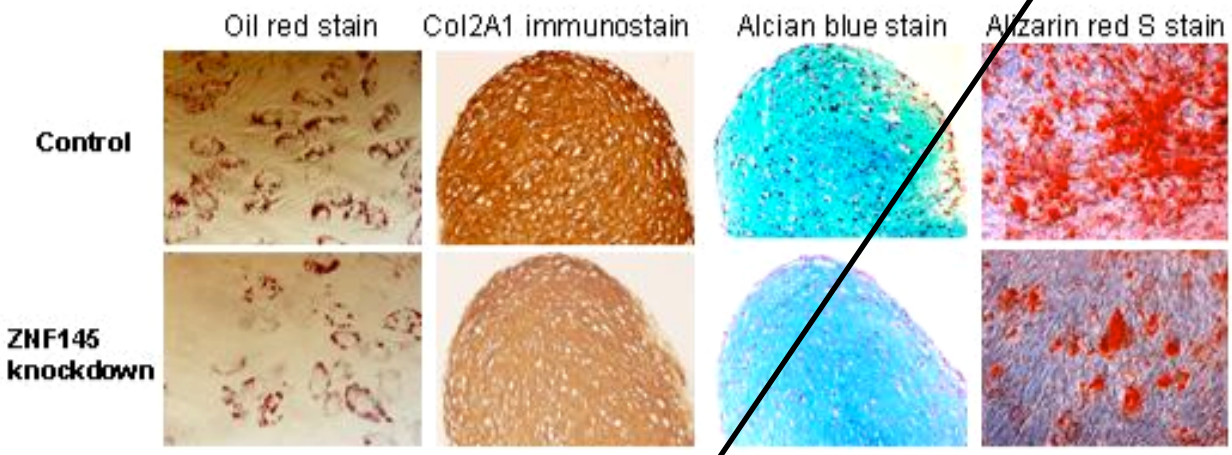

Oil red stain
Col2A1 immunostain
Alcian blue stain
Alizarin red S stain
Control
ZNF145 knockdown

FIGURE 3A

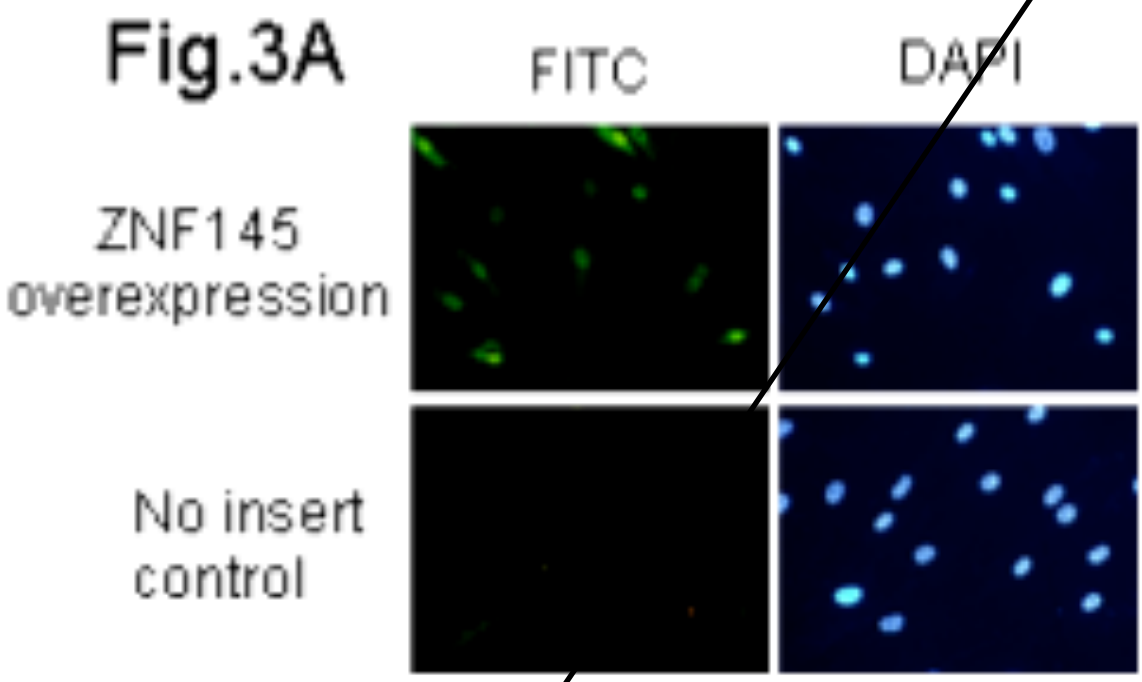


FIGURE 3B

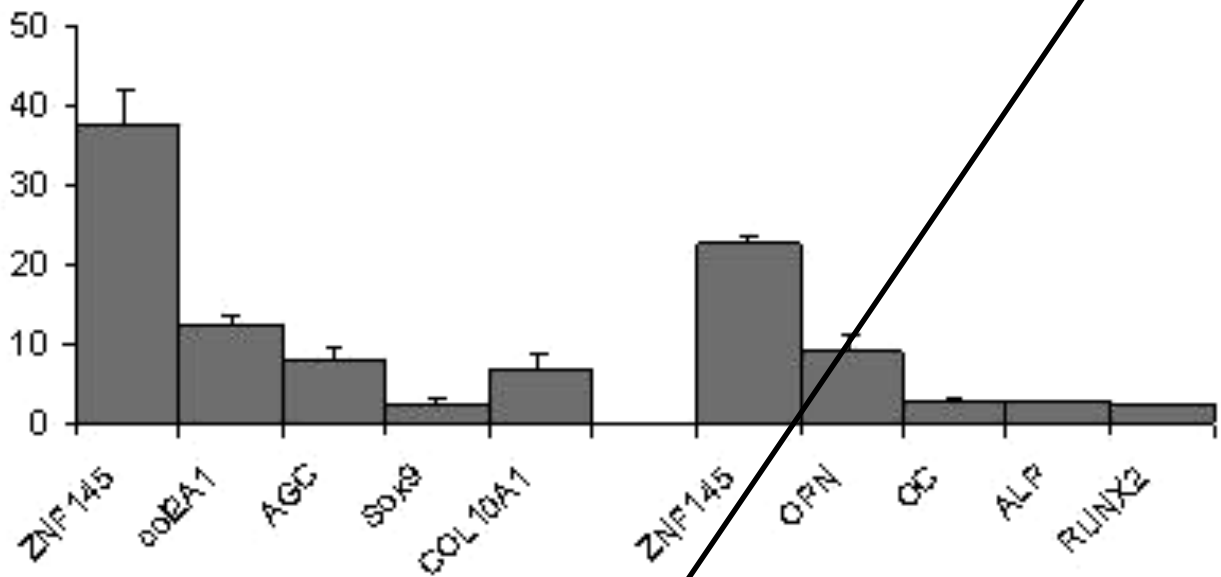

50
40
30
20
10
0
ZNF145
COL2A1
AGC
SOX9
COL10A1
ZNF145
OPN
OC
ALP
RUNX2

FIGURE 3C

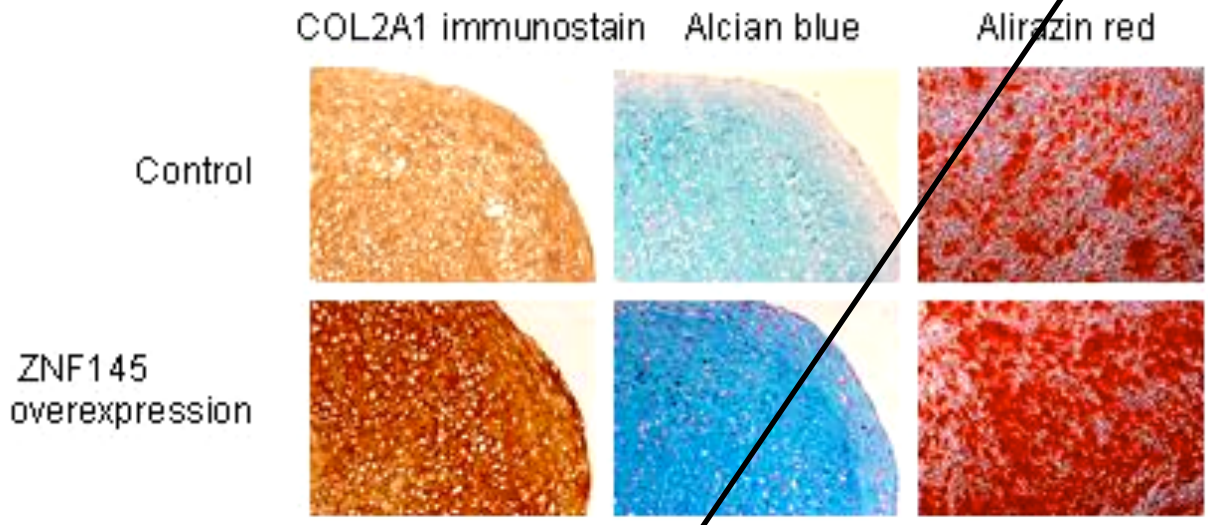

COL2A1 immunostain
Alcian blue
Alirazin red
Control
ZNF145
overexpression

FIGURE 3D

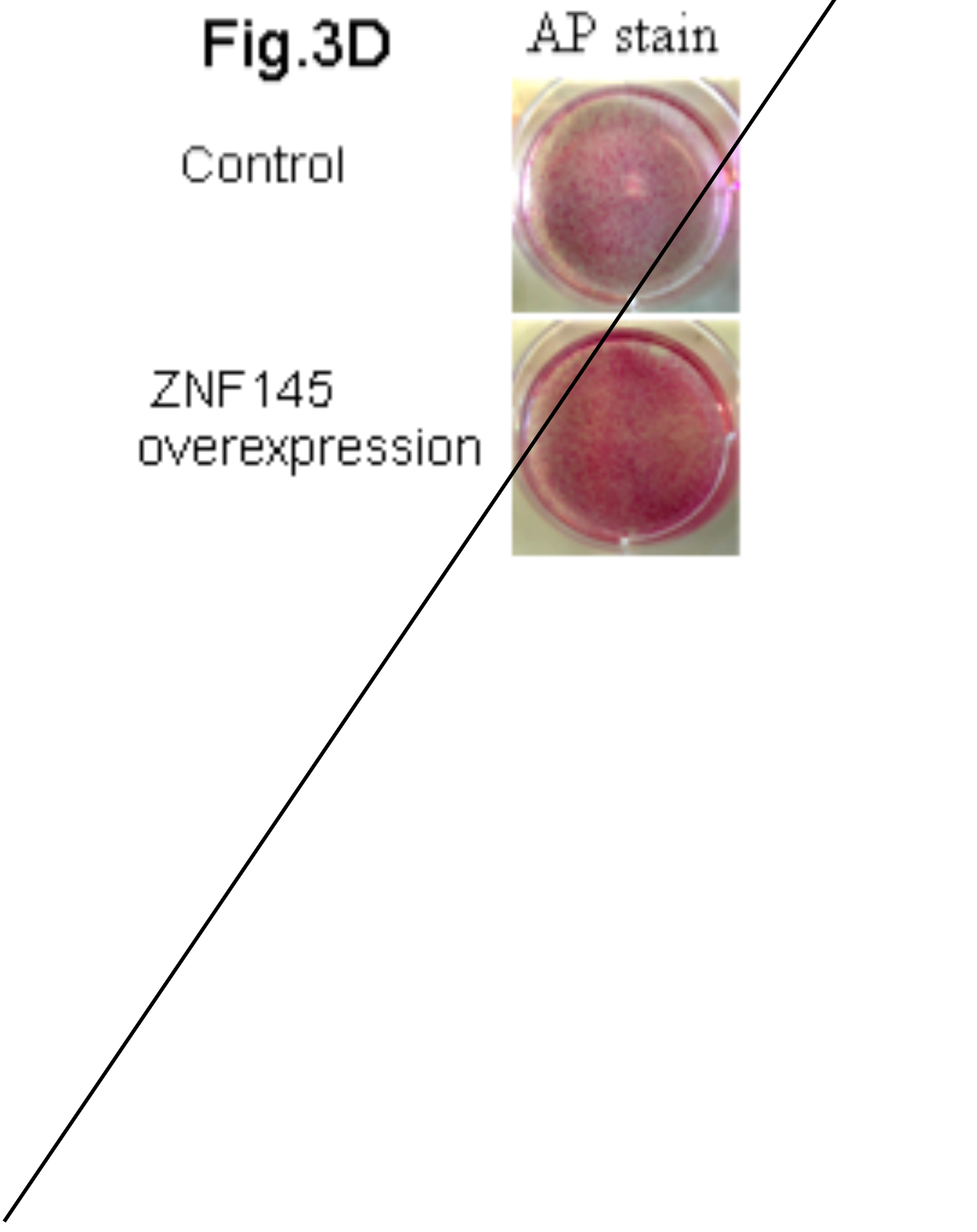


FIGURE 3E



FIGURE 3F

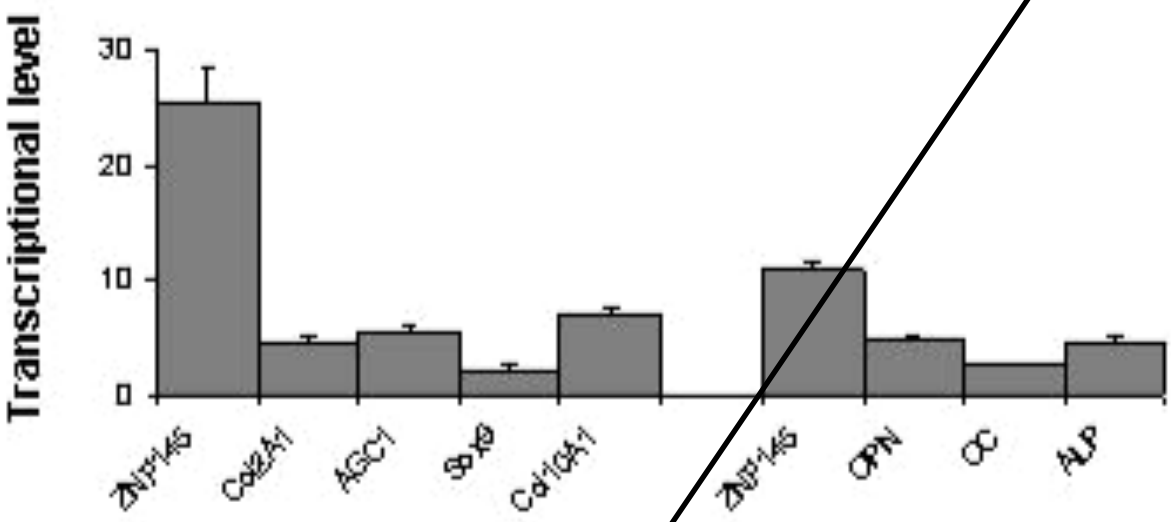

Transcriptional level
30
20
10
0
ZNF145
Col2A1
AGC1
Sox9
Col1GA1
ZNF145
OPN
OC
ALP

FIGURE 3G

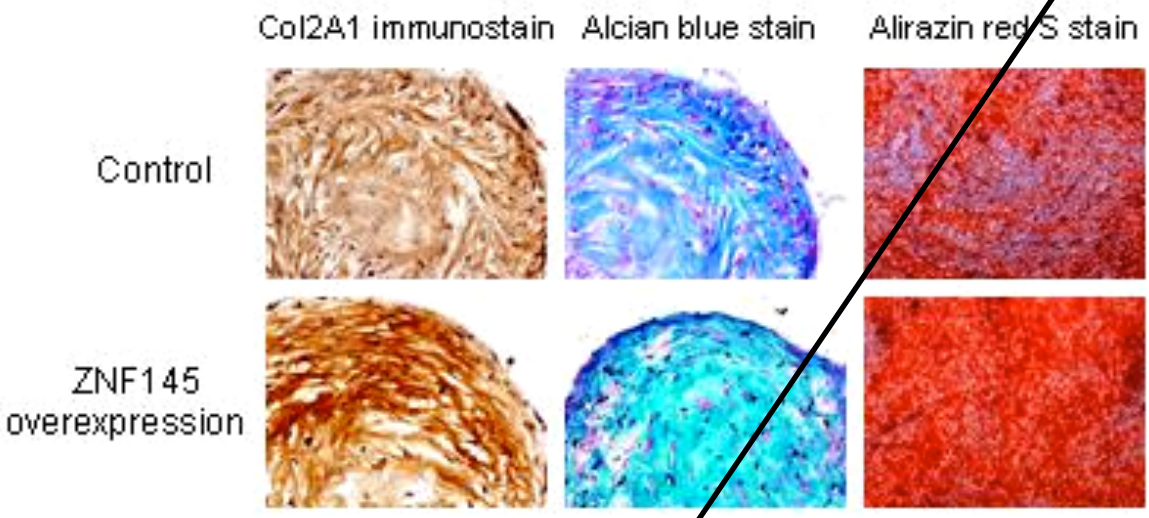

Col2A1 immunostain
Alcian blue stain
Alirazin red S stain
Control
ZNF145
overexpression

FIGURE 3H

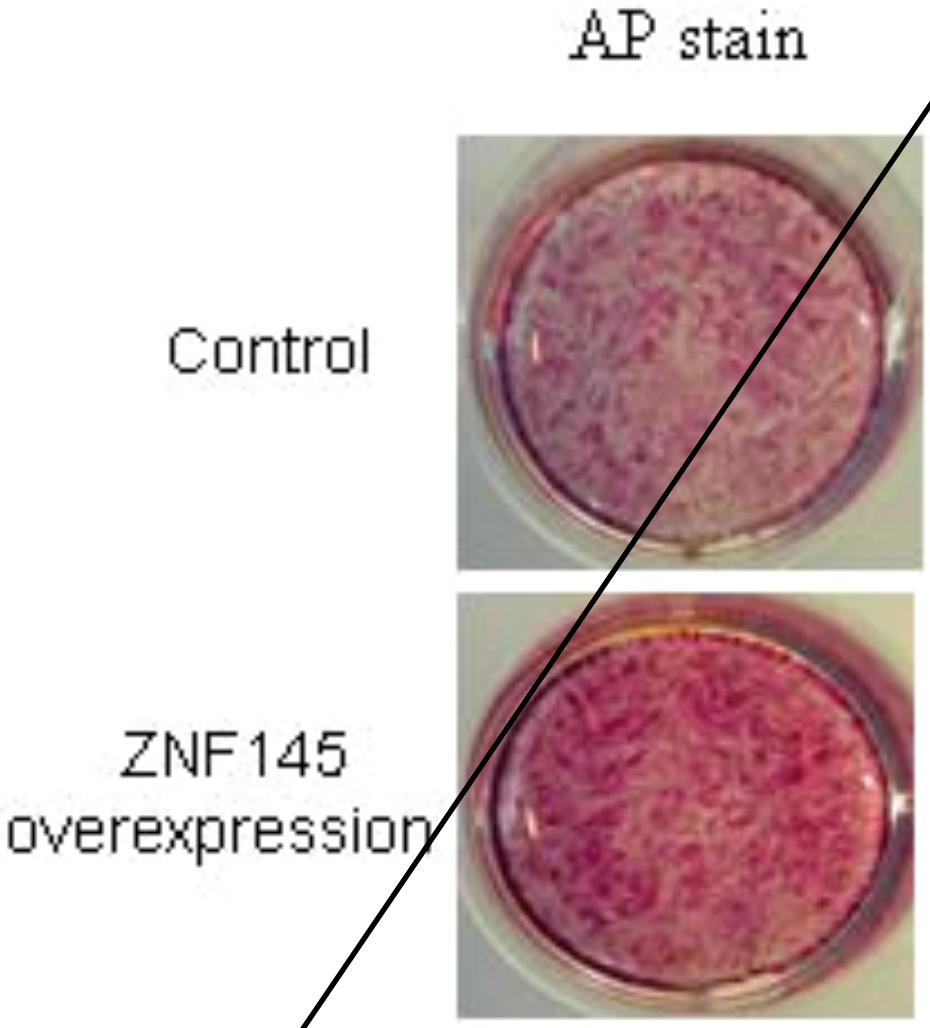


FIGURE 3I

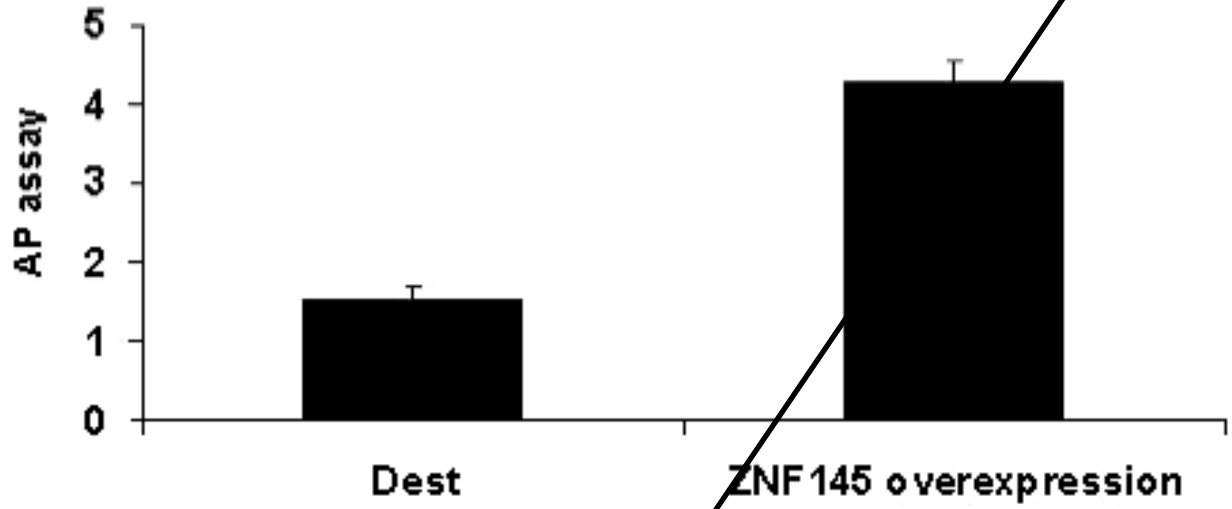


FIGURE 4A

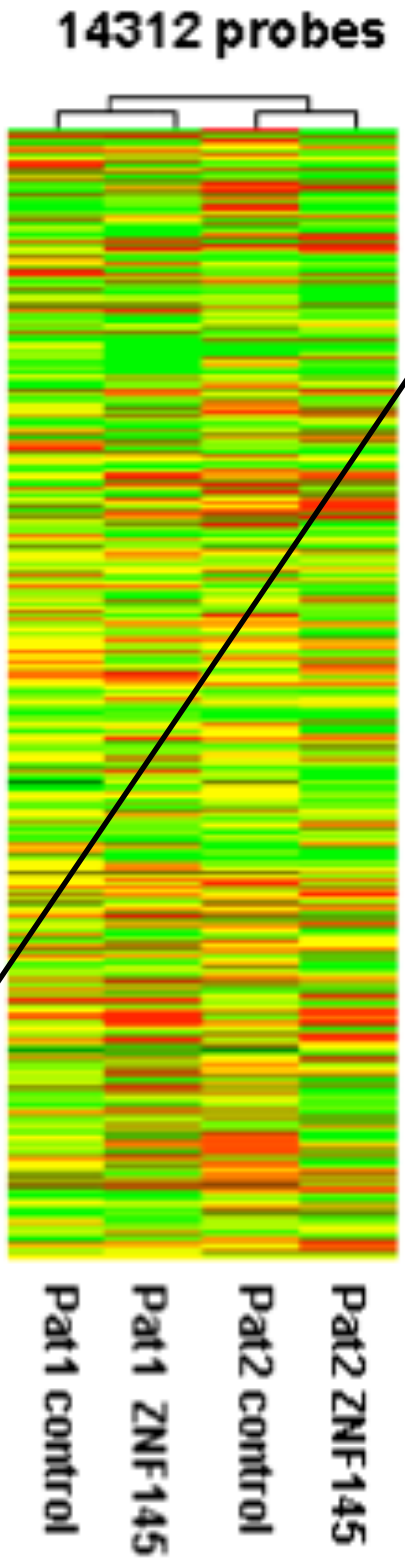

14312 probes
Pat1 control
Pat1 ZNF145
Pat2 control
Pat2 ZNF145

FIGURE 4B

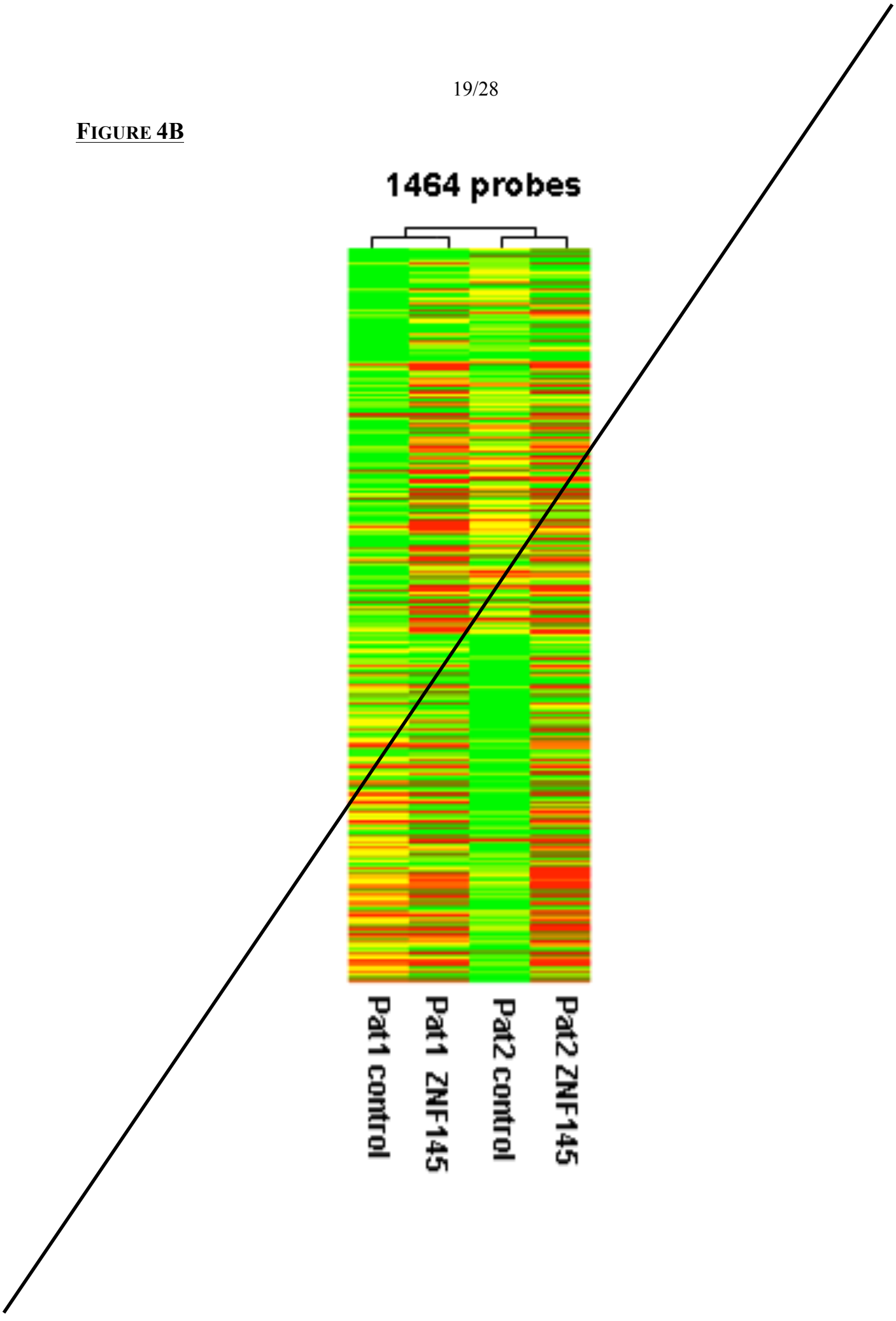

1464 probes
Pat1 control
Pat1 ZNF145
Pat2 control
Pat2 ZNF145

FIGURE 4C

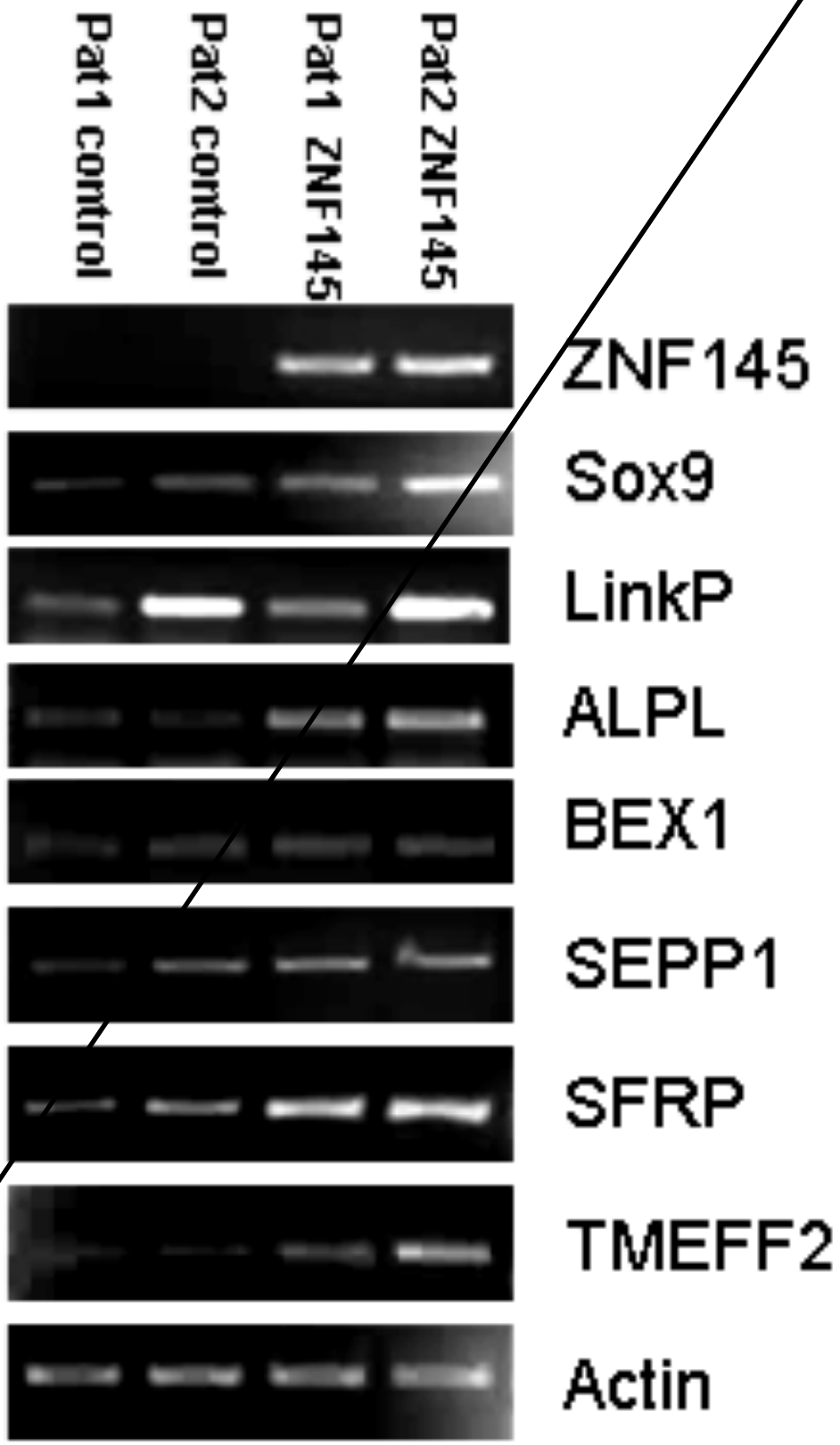

Pat1 control
Pat2 control
Pat1 ZNF145
Pat2 ZNF145
ZNF145
Sox9
LinkP
ALPL
BEX1
SEPP1
SFRP
TMEFF2
Actin

FIGURE 5A

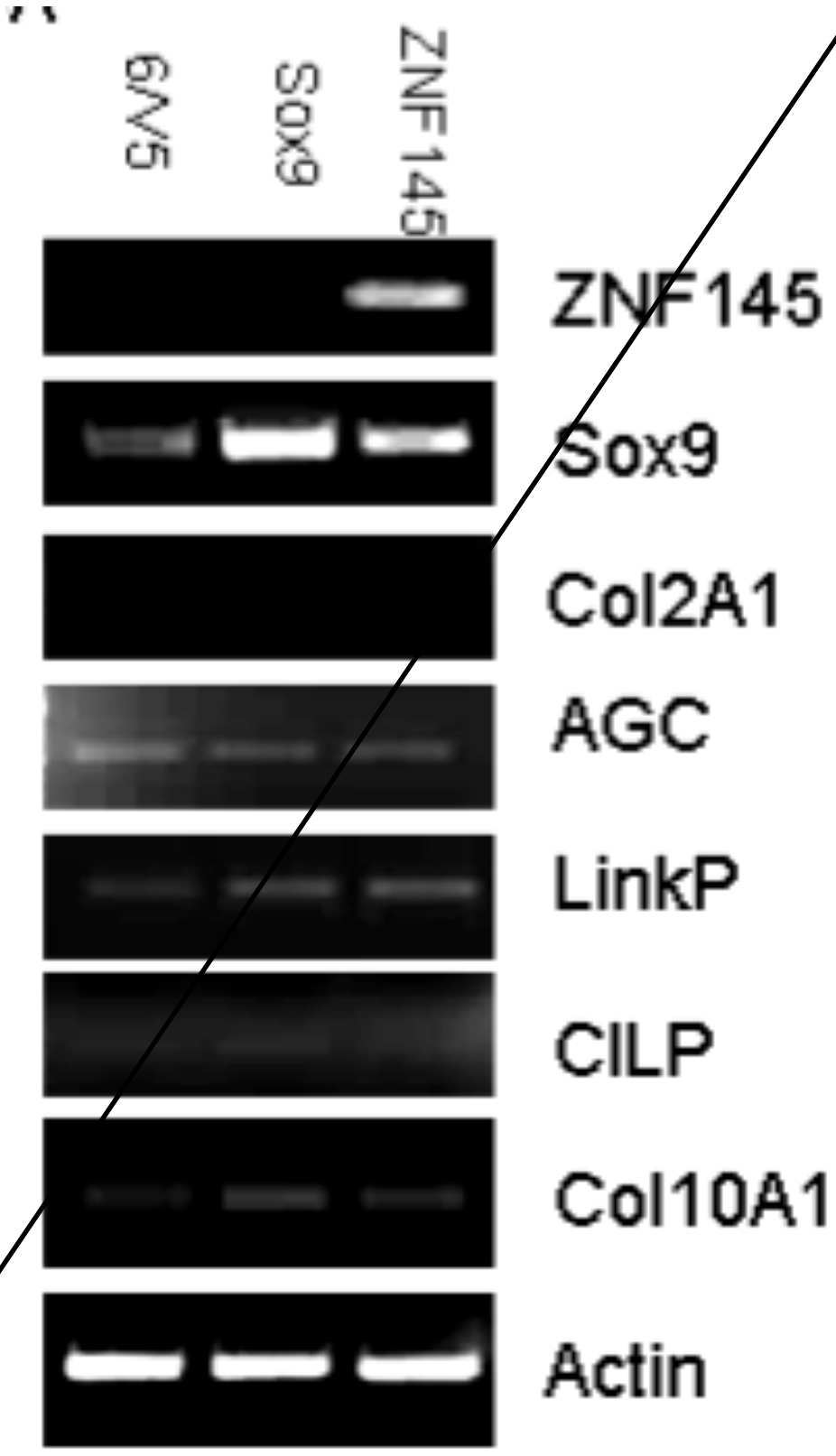

6V5
Sox9
ZNF145
ZNF145
Sox9
Col2A1
AGC
LinkP
CILP
Col10A1
Actin

FIGURE 5B

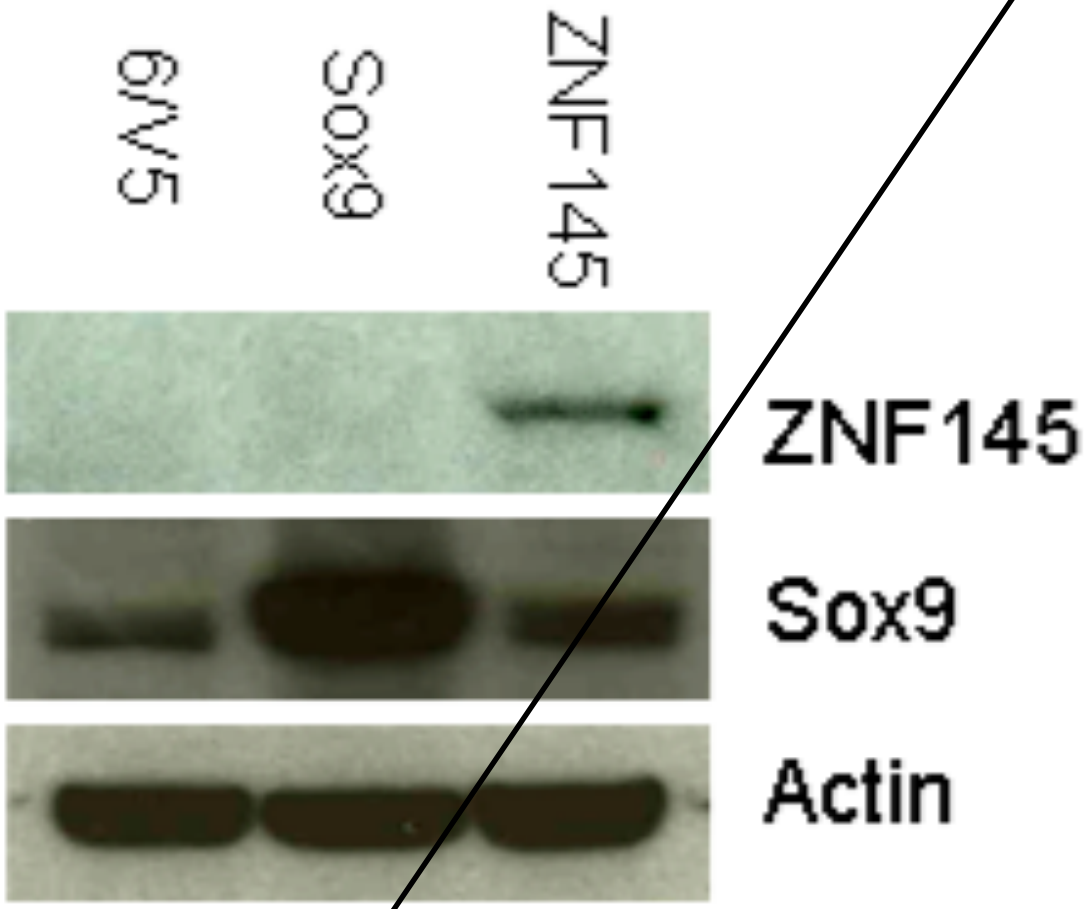


FIGURE 6A

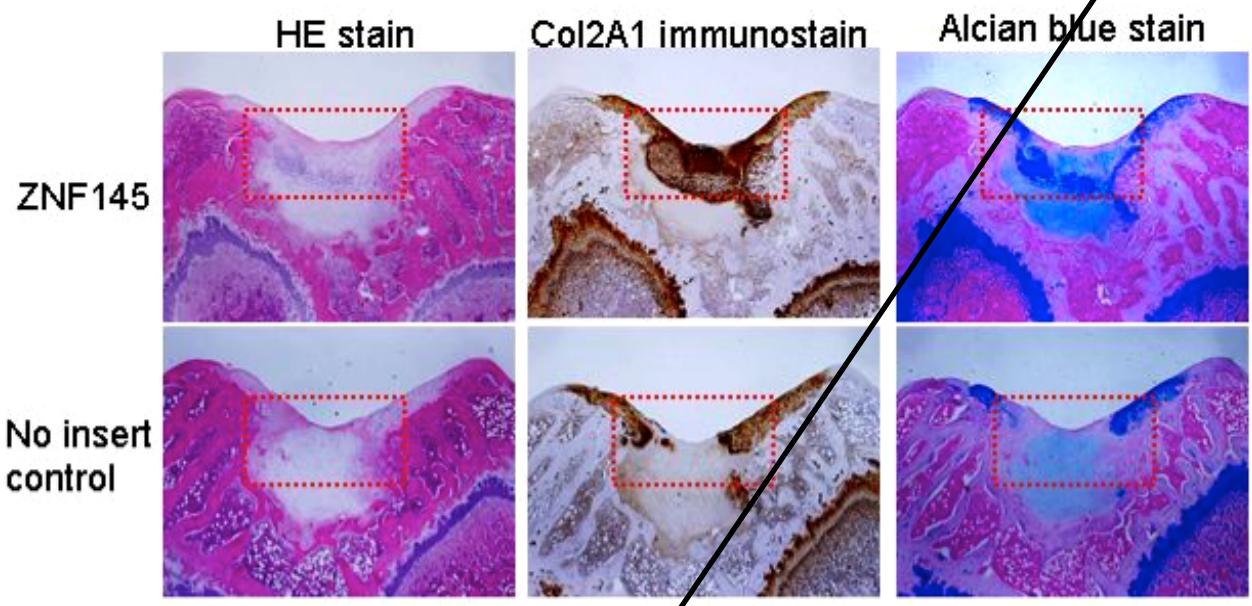

HE stain
Col2A1 immunostain
Alcian blue stain
ZNF145
No insert control

FIGURE 6B

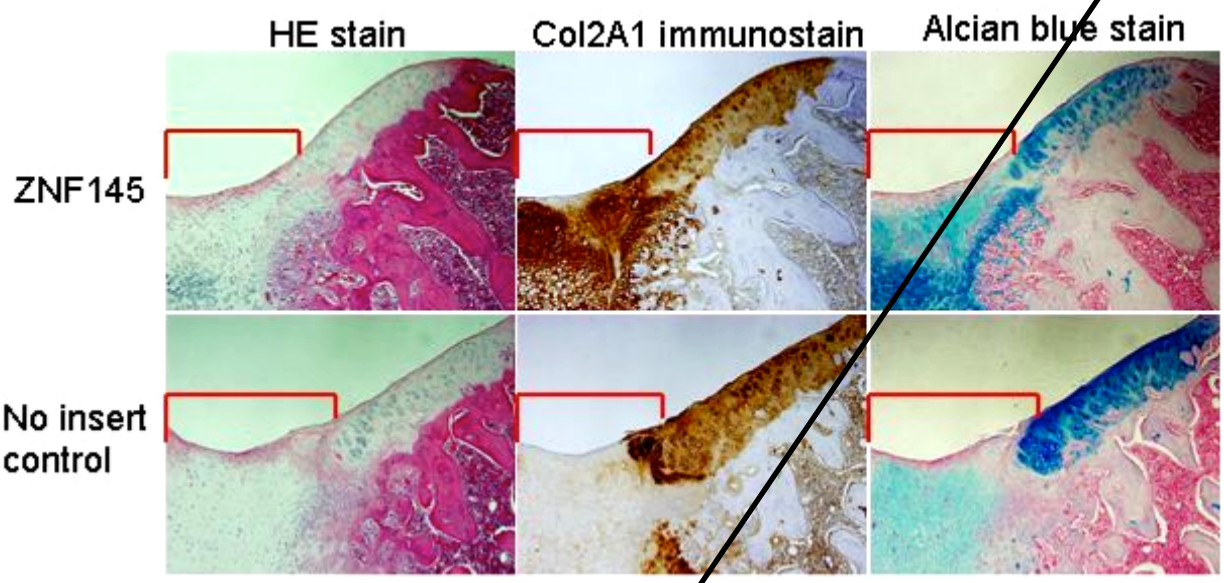

HE stain
Col2A1 immunostain
Alcian blue stain
ZNF145
No insert control

FIGURE 6C

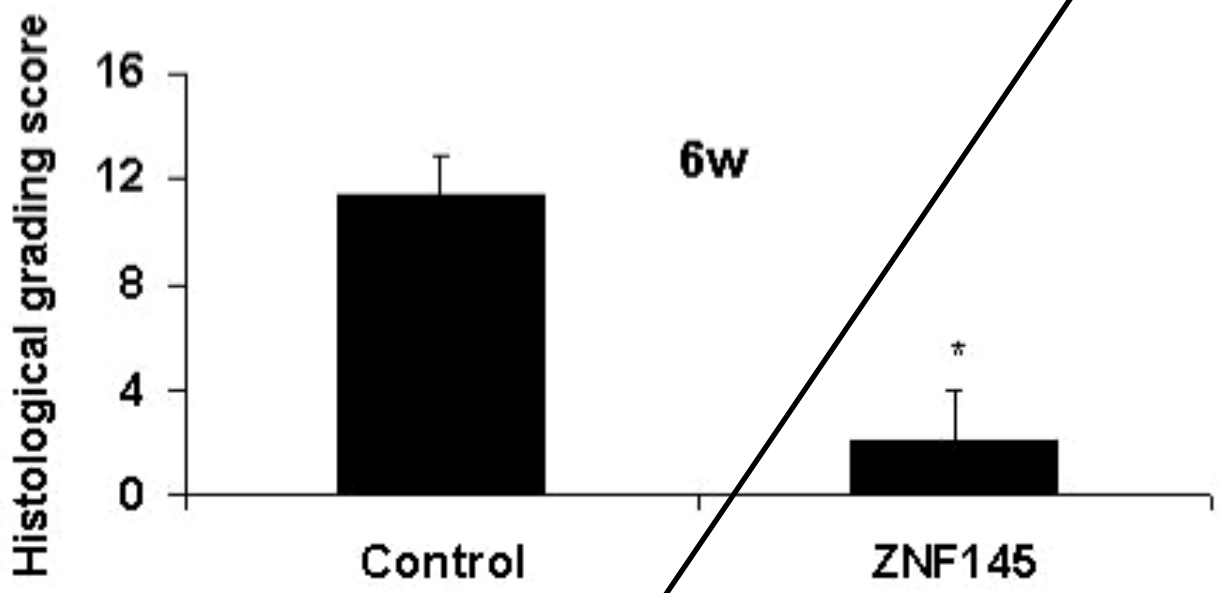


FIGURE 6D

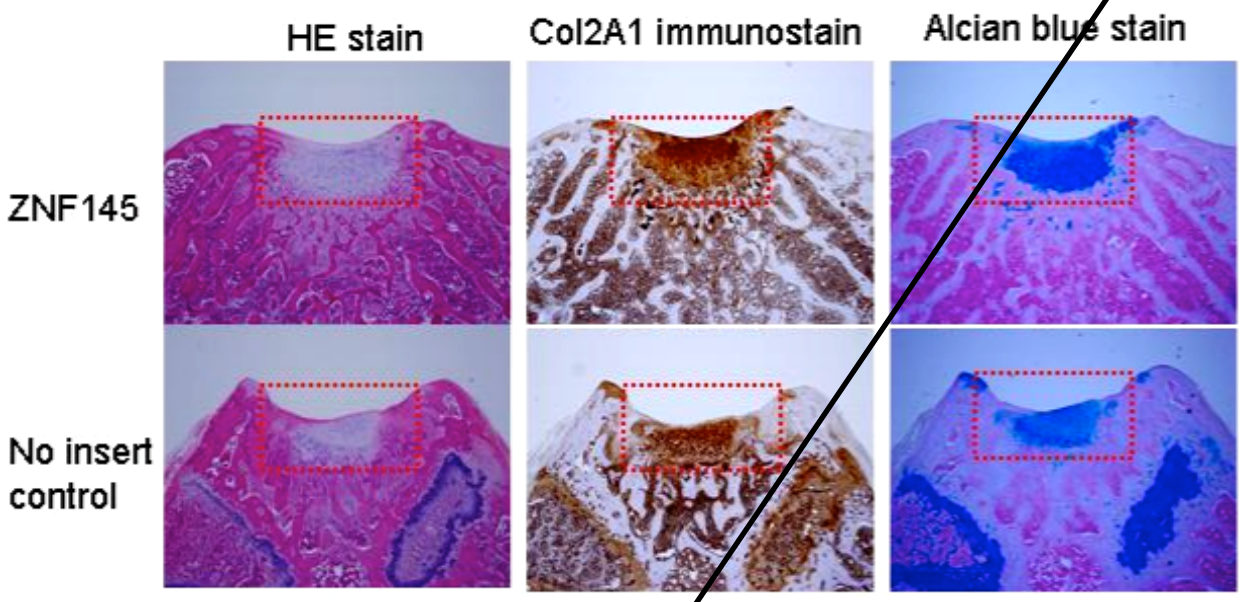

HE stain
Col2A1 immunostain
Alcian blue stain
ZNF145
No insert control

FIGURE 6E

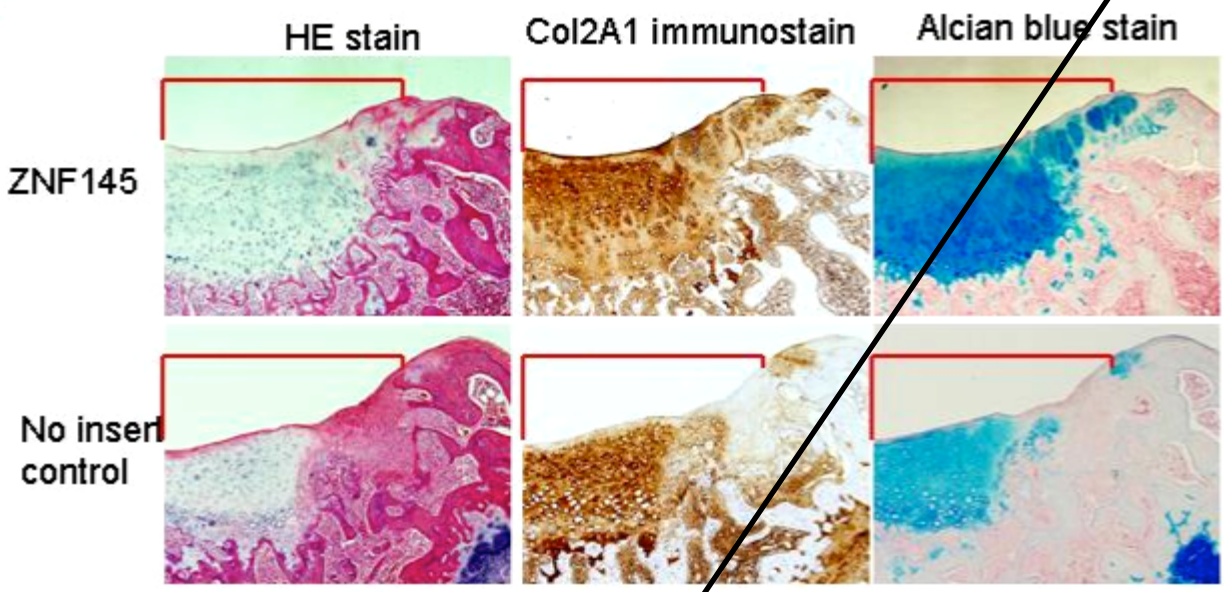

HE stain
Col2A1 immunostain
Alcian blue stain
ZNF145
No insert
control

FIGURE 6F

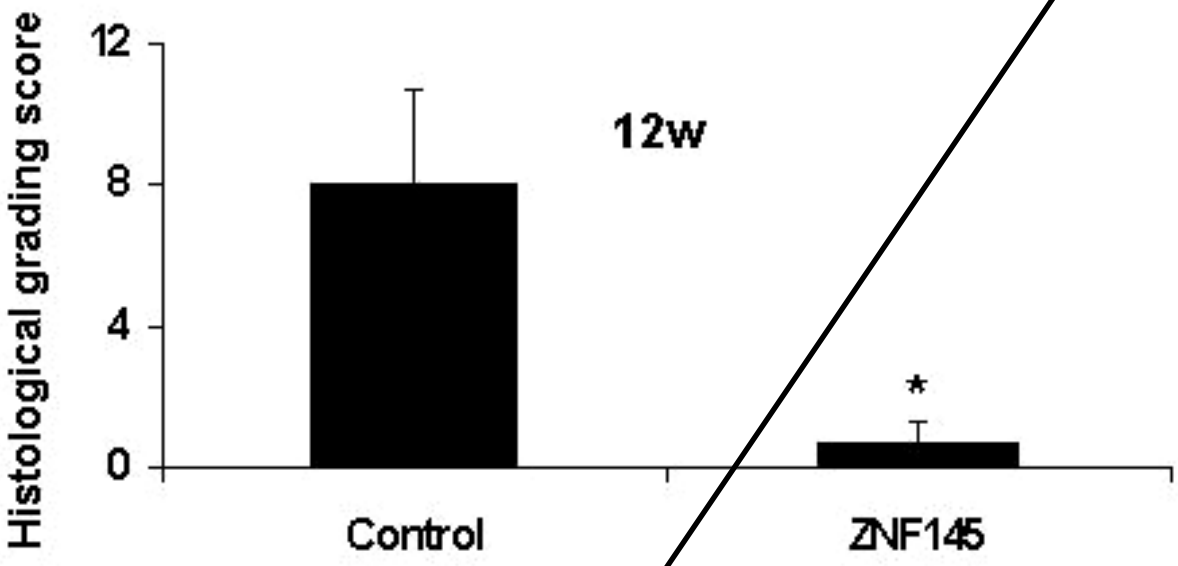


FIGURE 1A

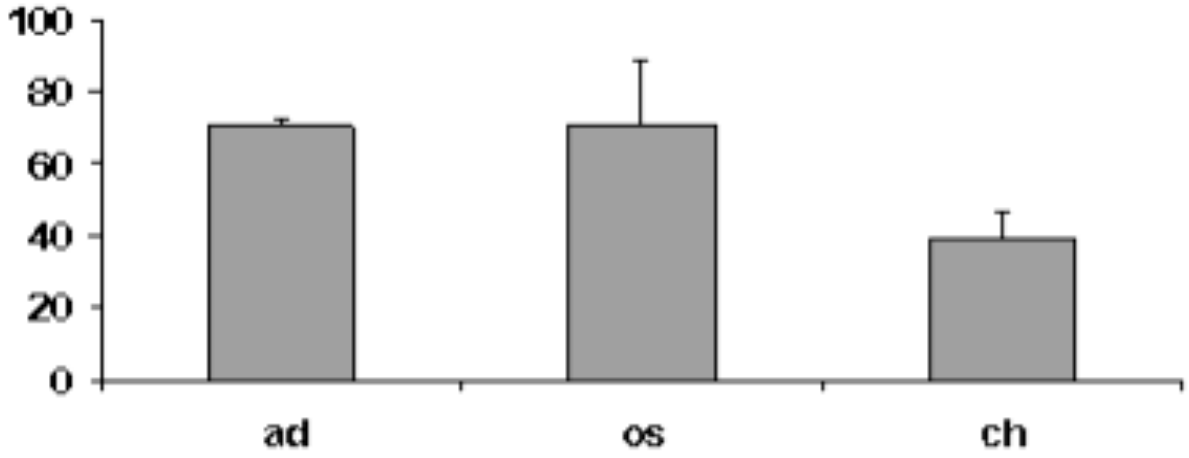


FIGURE 1B

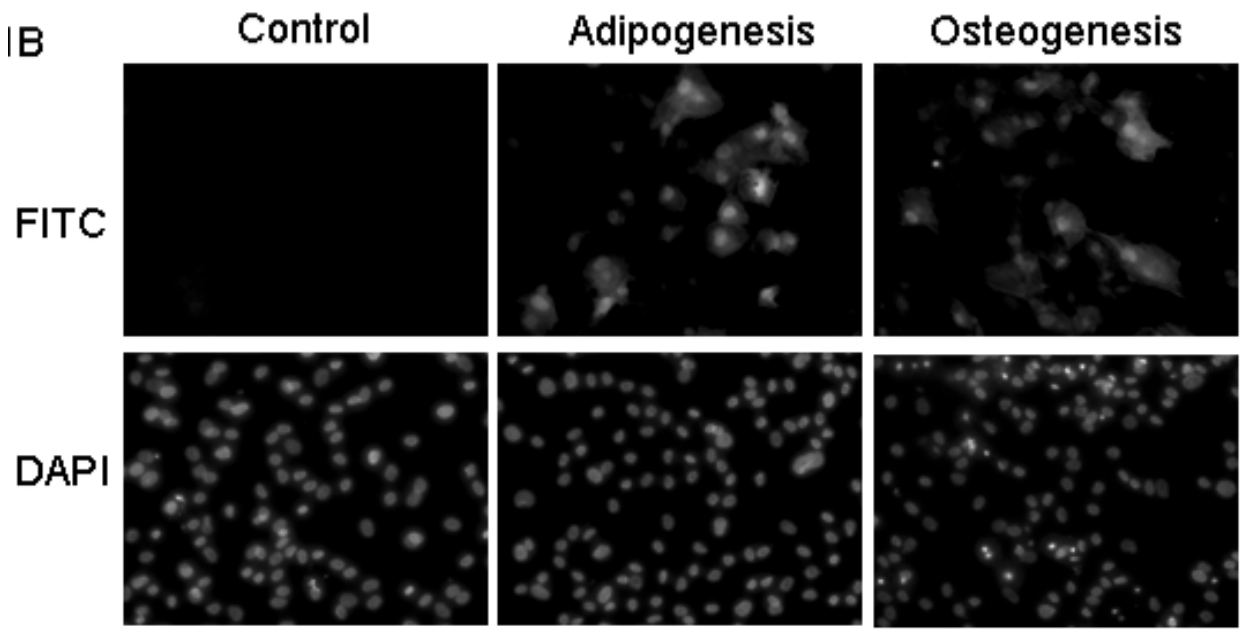


FIGURE 1C

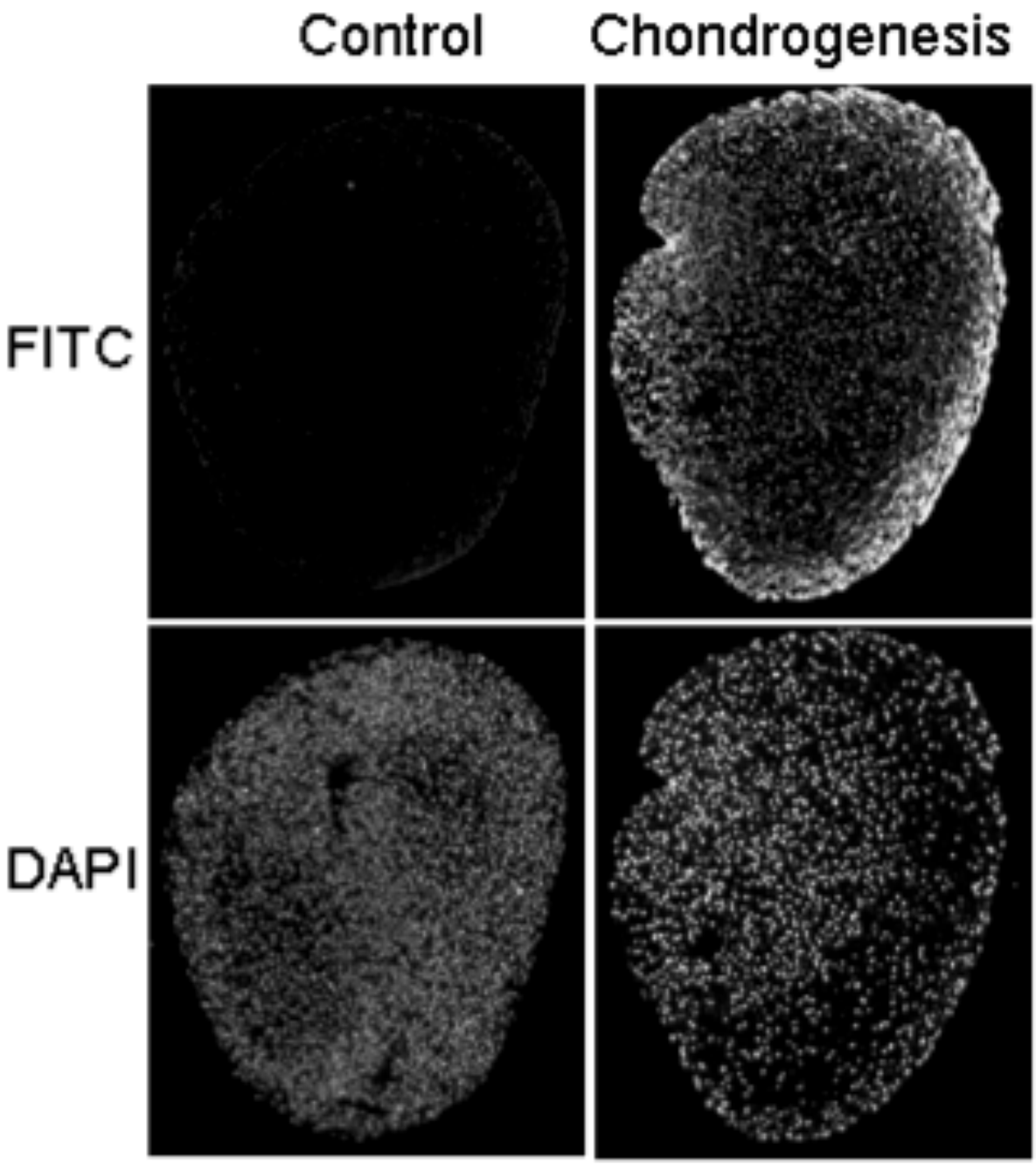


FIGURE 1D

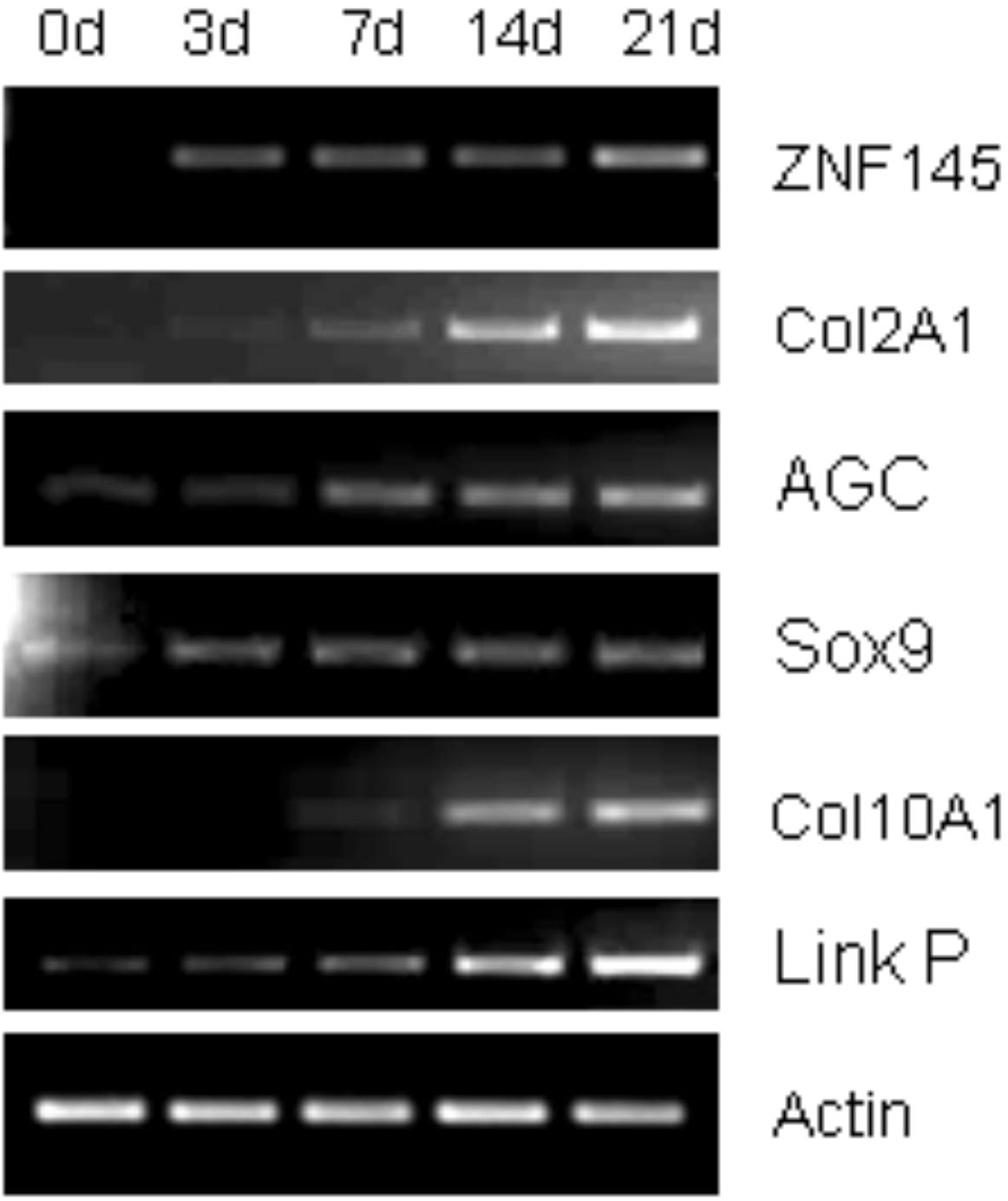


FIGURE 2A

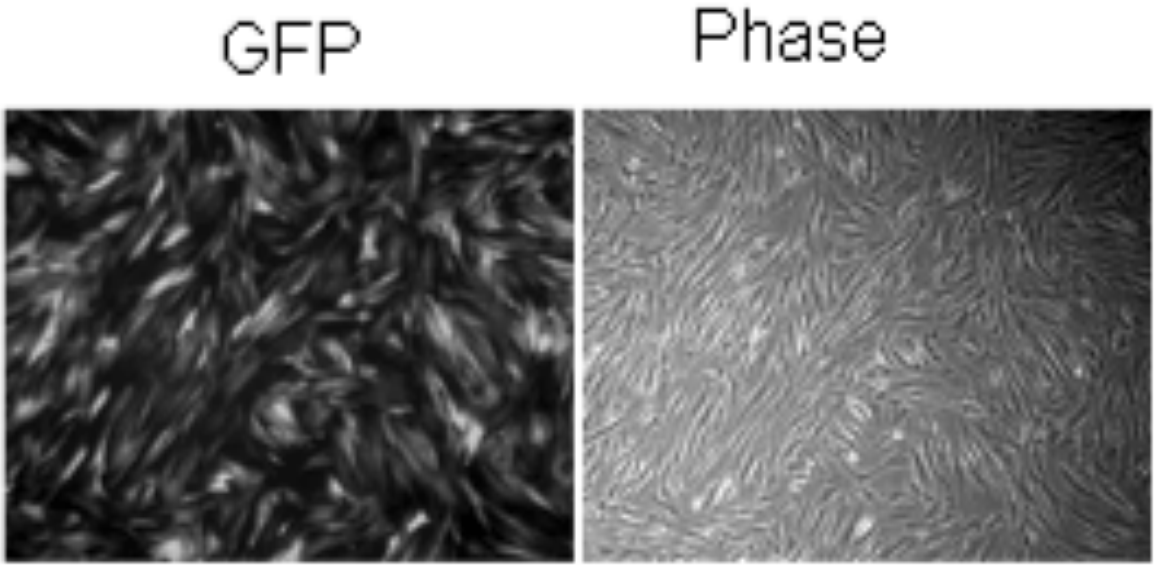


FIGURE 2B

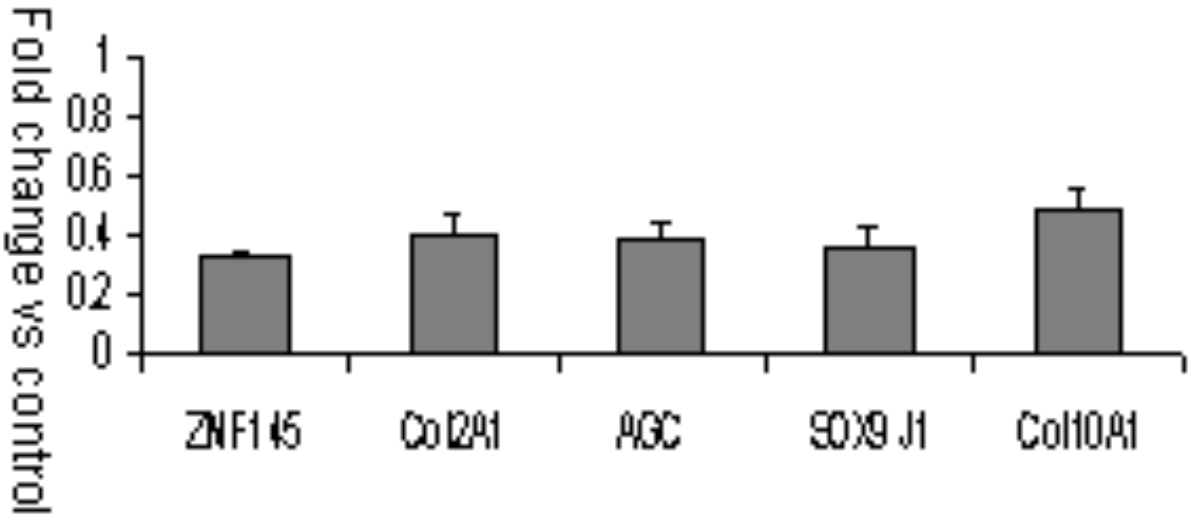

Fold change vs control
1
0.8
0.6
0.4
0.2
0
ZNF145
Col2A1
AGC
SOX9 J1
Col10A1

FIGURE 2C

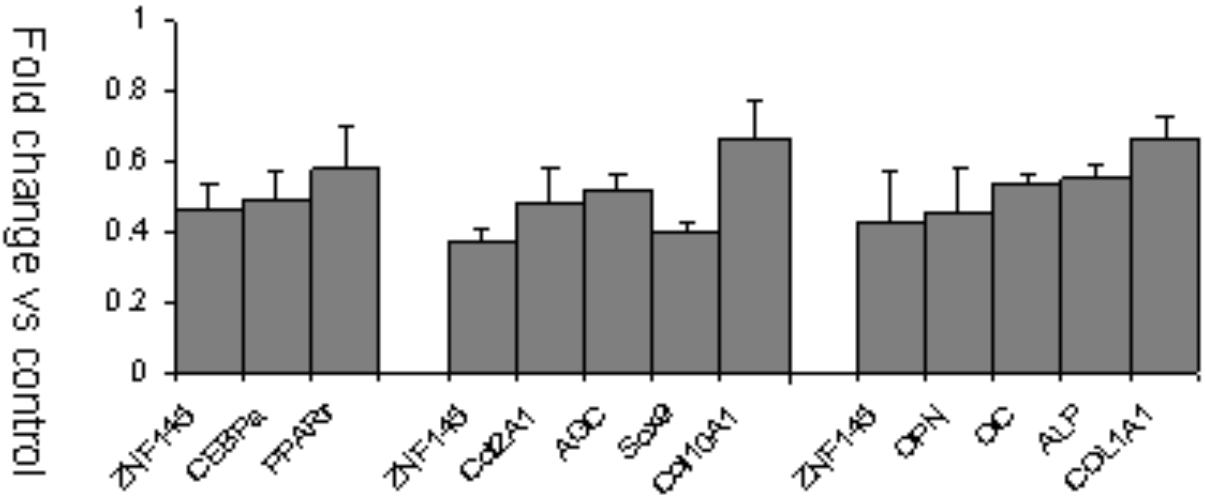

Fold change vs control
1
0.8
0.6
0.4
0.2
0
ZNF145
CEBPa
PPARG
ZNF145
Col2A1
AGC
Sox9
Col10A1
ZNF145
OPN
OC
ALP
COL1A1

FIGURE 2D

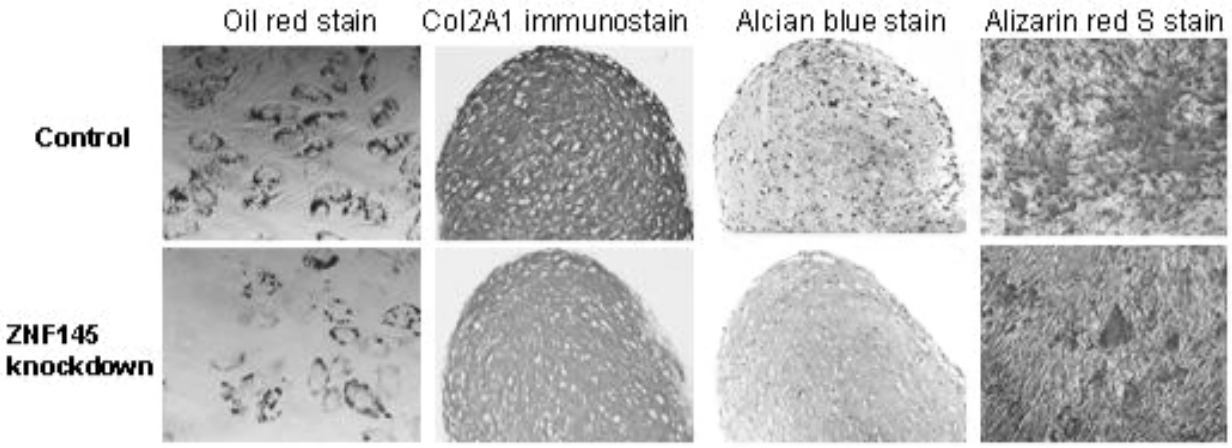

Oil red stain
Col2A1 immunostain
Alcian blue stain
Alizarin red S stain
Control
ZNF145 knockdown

FIGURE 3A

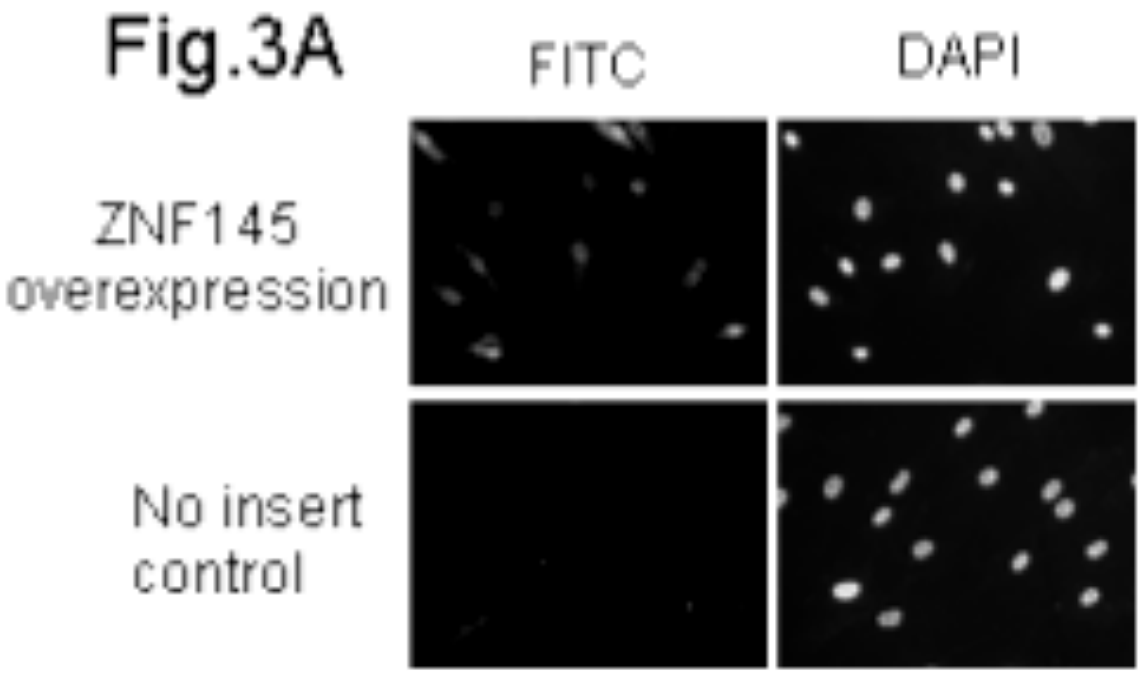


FIGURE 3B

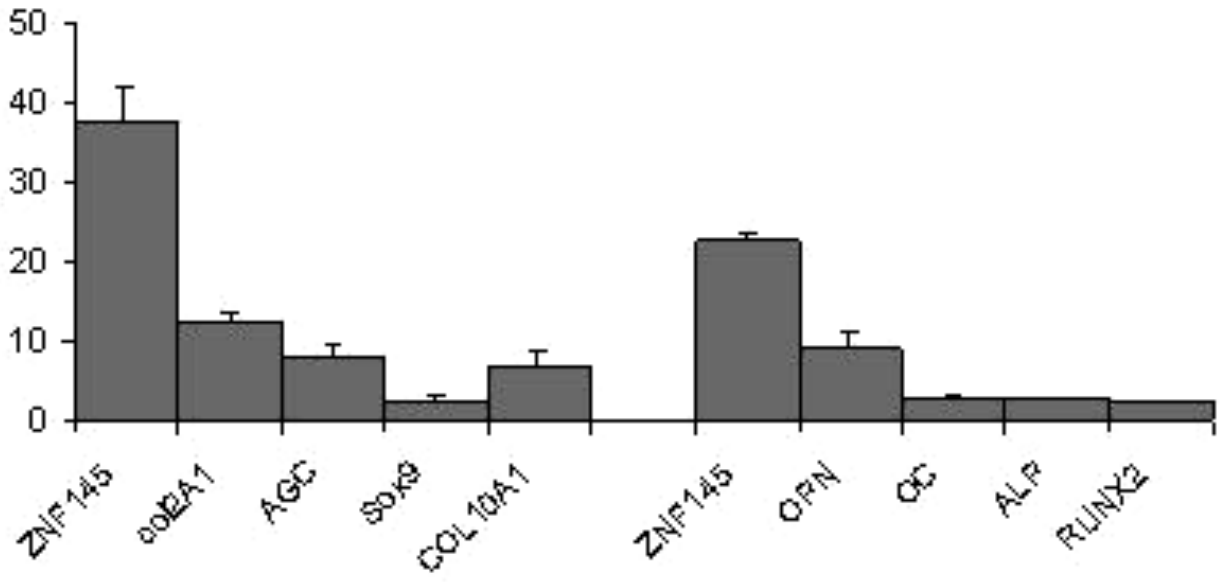

50
40
30
20
10
0
ZNF145
AGC
SOX9
COL10A1
ZNF145
OPN
OC
ALP
RUNX2

FIGURE 3C

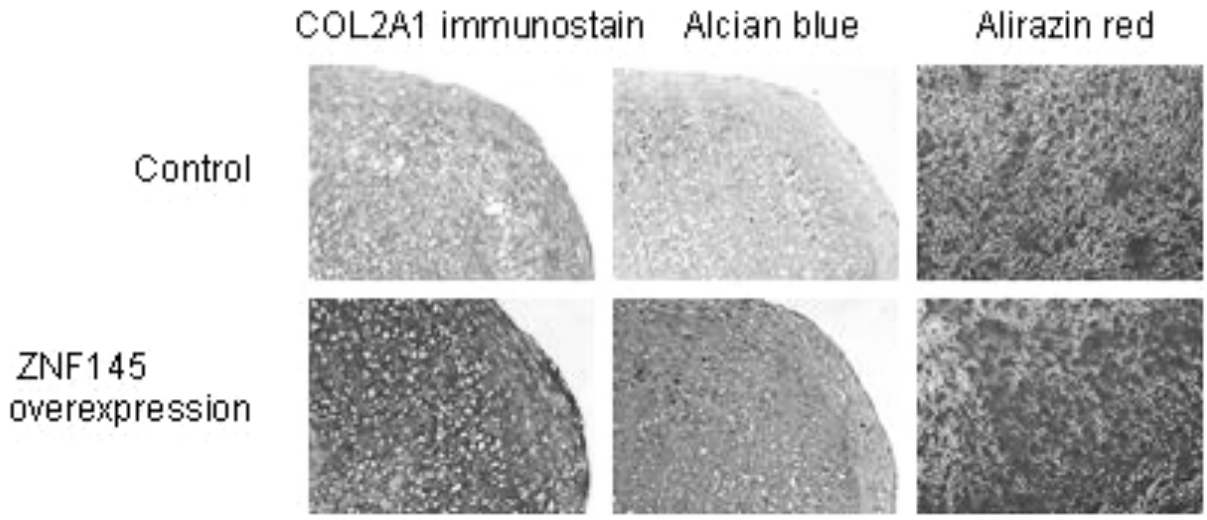

COL2A1 immunostain
Alcian blue
Alirazin red
Control
ZNF145
overexpression

FIGURE 3D

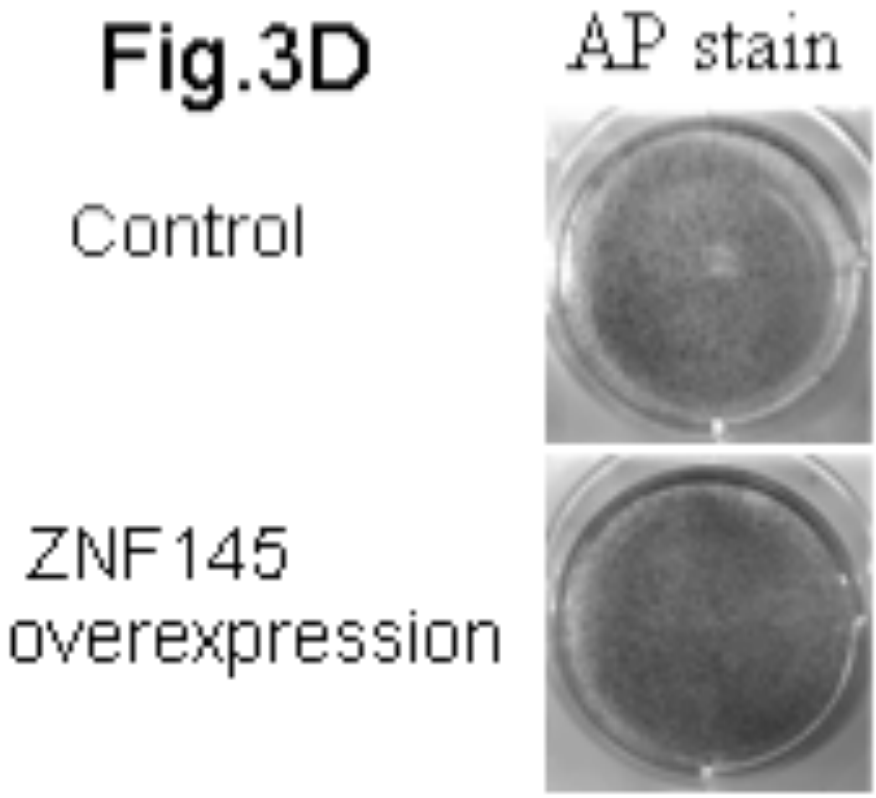


FIGURE 3E

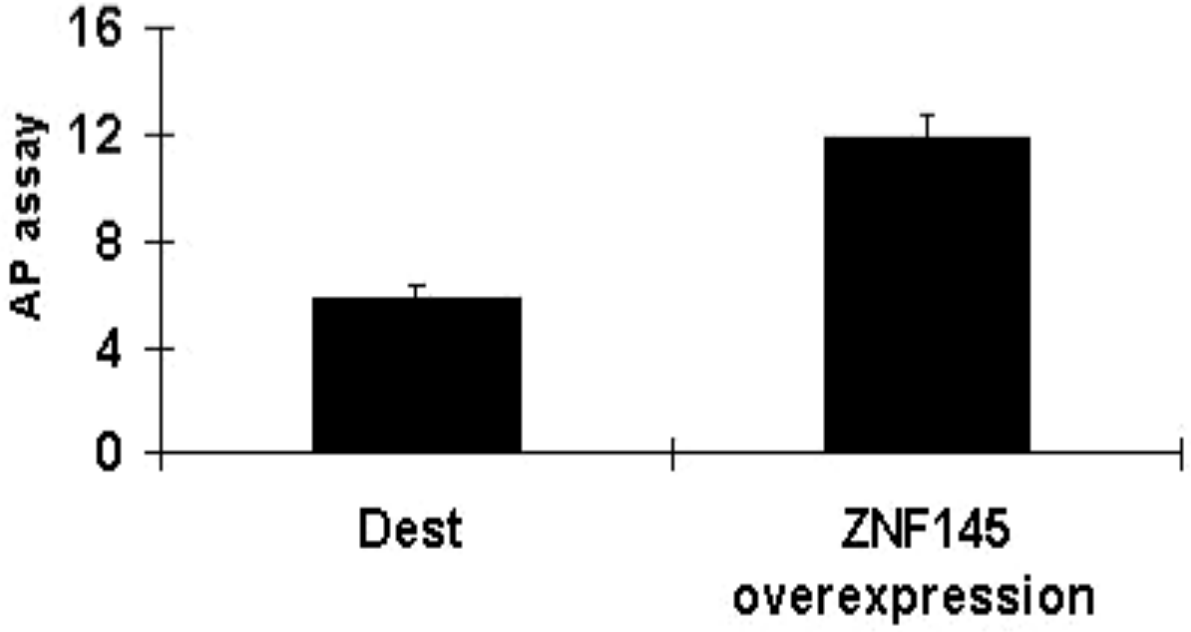


FIGURE 3F

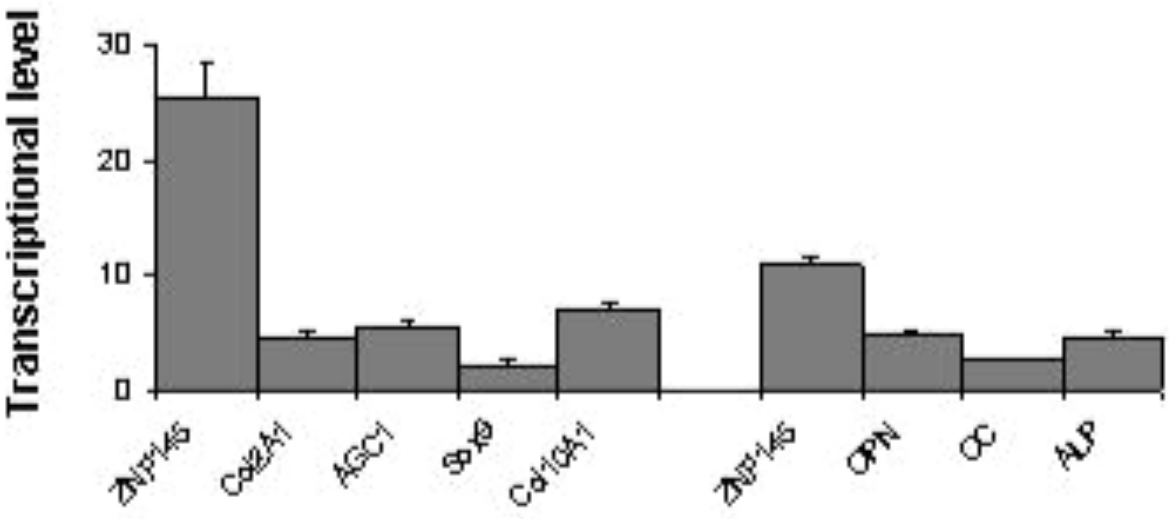

Transcriptional level
30
20
10
0
ZNF145
Col2A1
AGC1
Sox9
Col1GA1
ZNF145
OPN
OC
ALP

FIGURE 3G

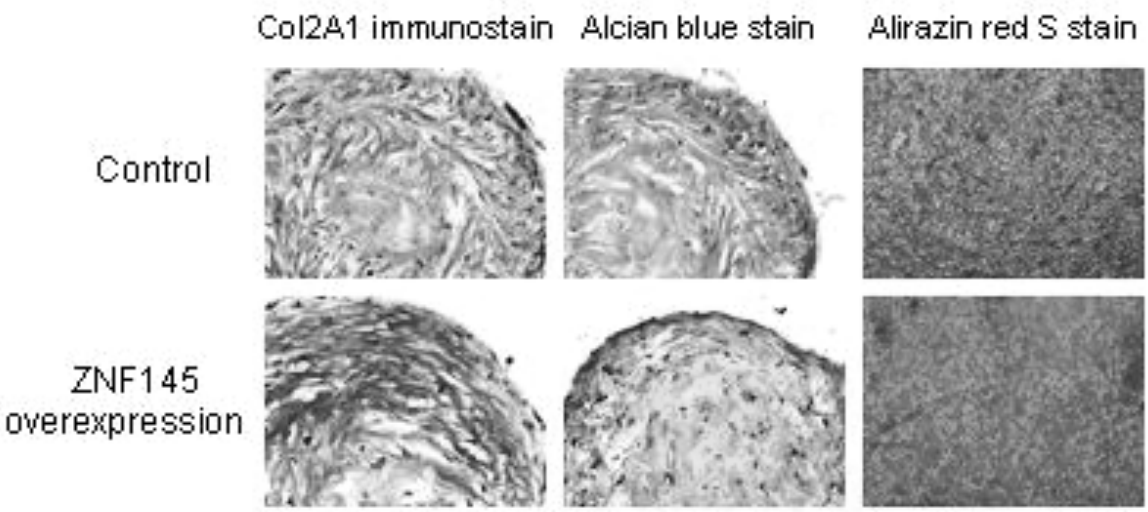

Col2A1 immunostain
Alcian blue stain
Alirazin red S stain
Control
ZNF145
overexpression

FIGURE 3H

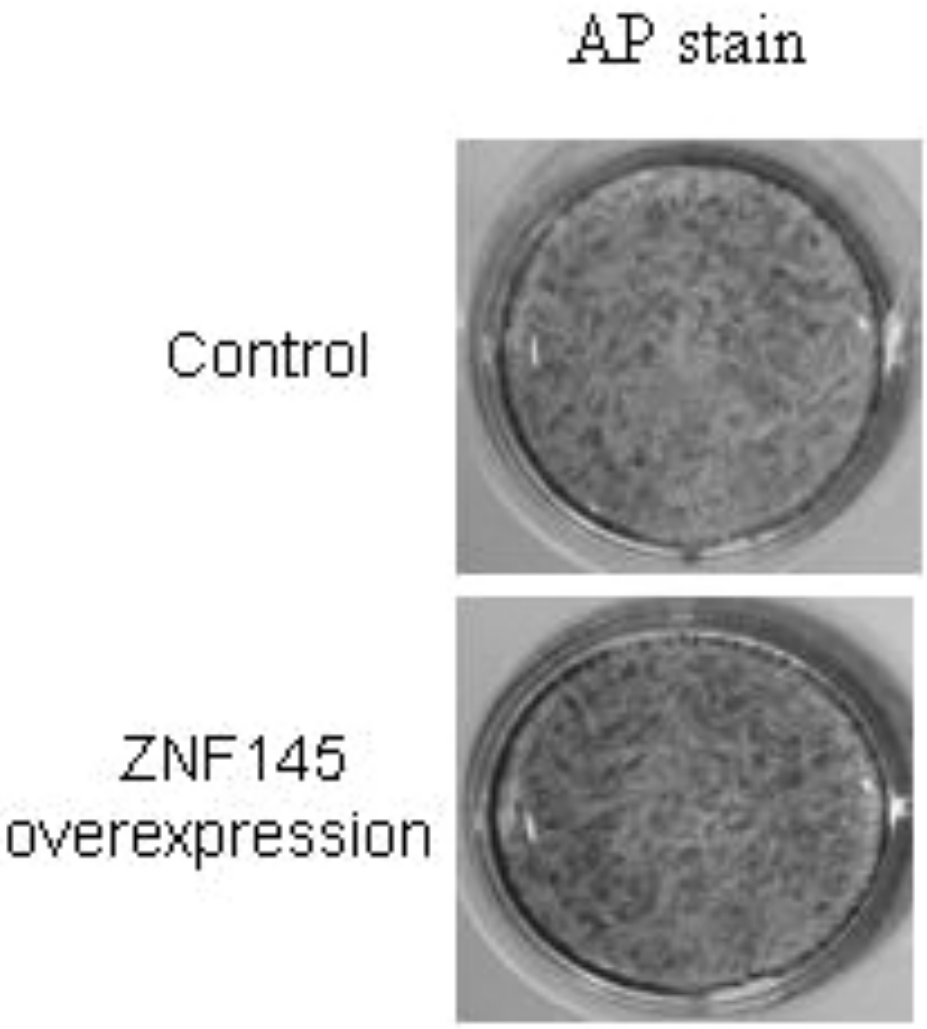


FIGURE 3I

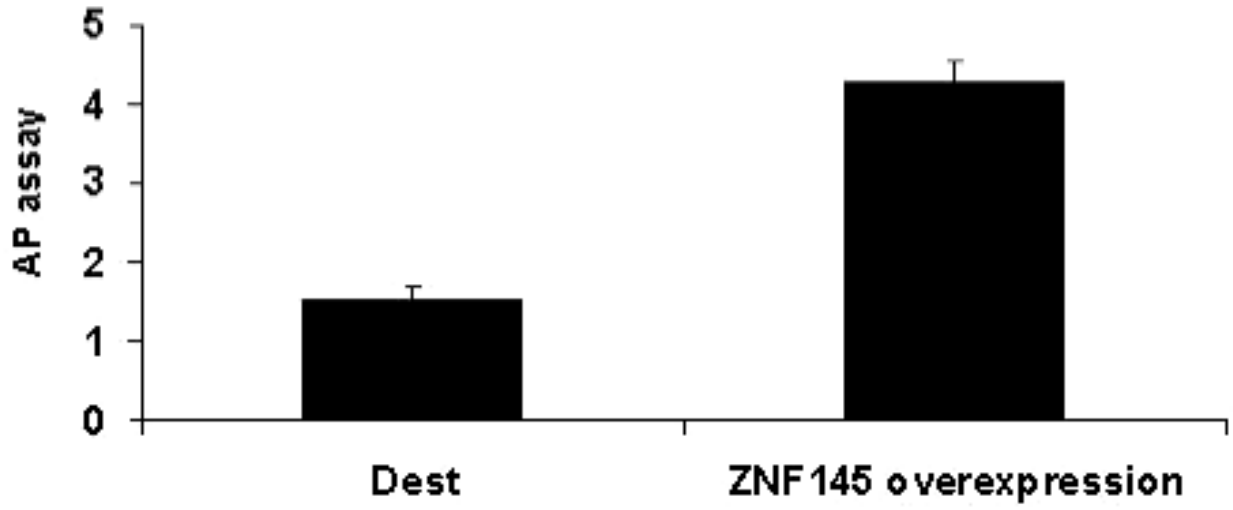


FIGURE 4A


14312 probes
Pat1 control
Pat1 ZNF145
Pat2 control
Pat2 ZNF145

FIGURE 4B

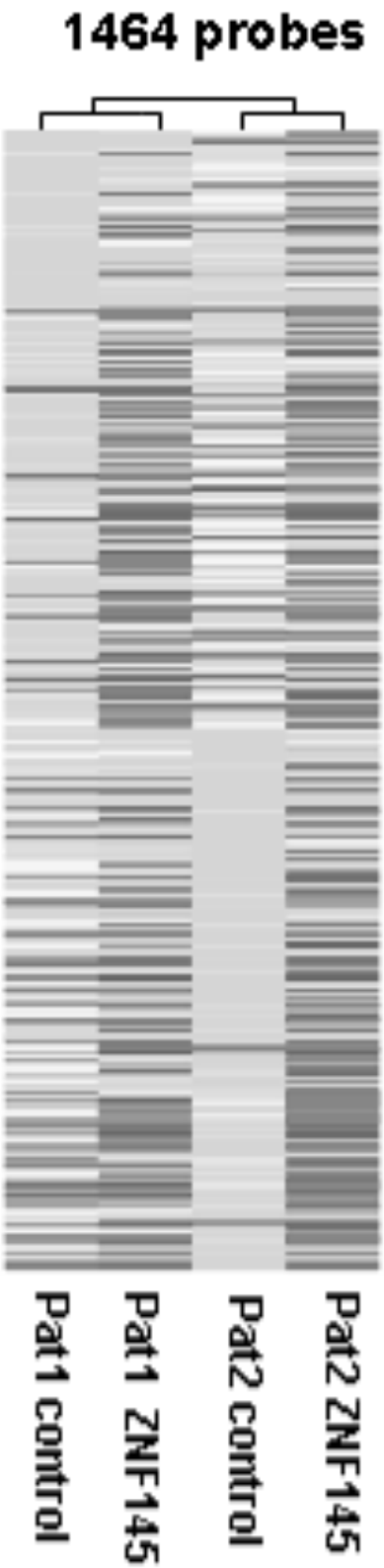

1464 probes
Pat1 control
Pat1 ZNF145
Pat2 control
Pat2 ZNF145

FIGURE 4C

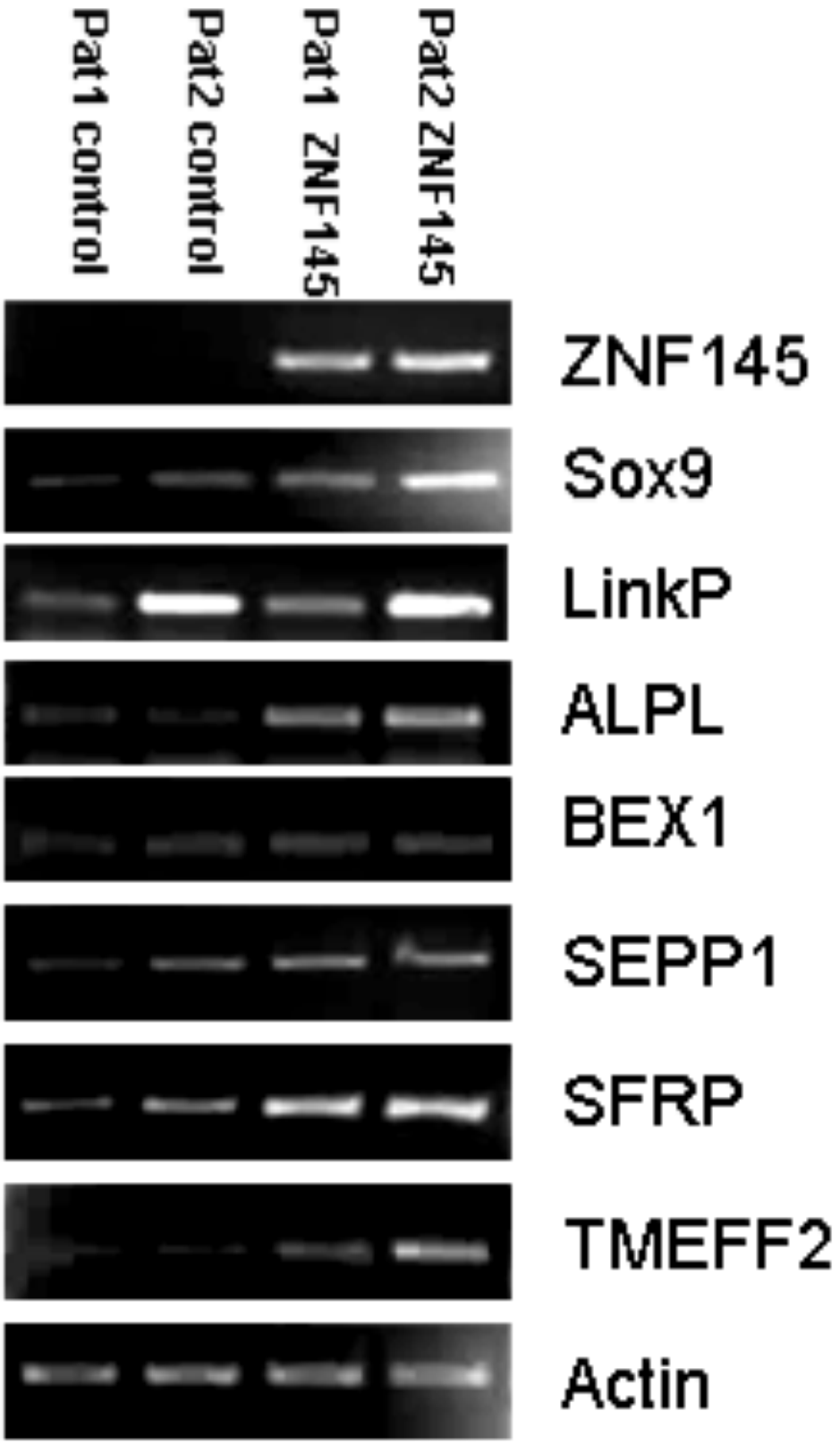

Pat1 control
Pat2 control
Pat1 ZNF145
Pat2 ZNF145
ZNF145
Sox9
LinkP
ALPL
BEX1
SEPP1
SFRP
TMEFF2
Actin

FIGURE 5A

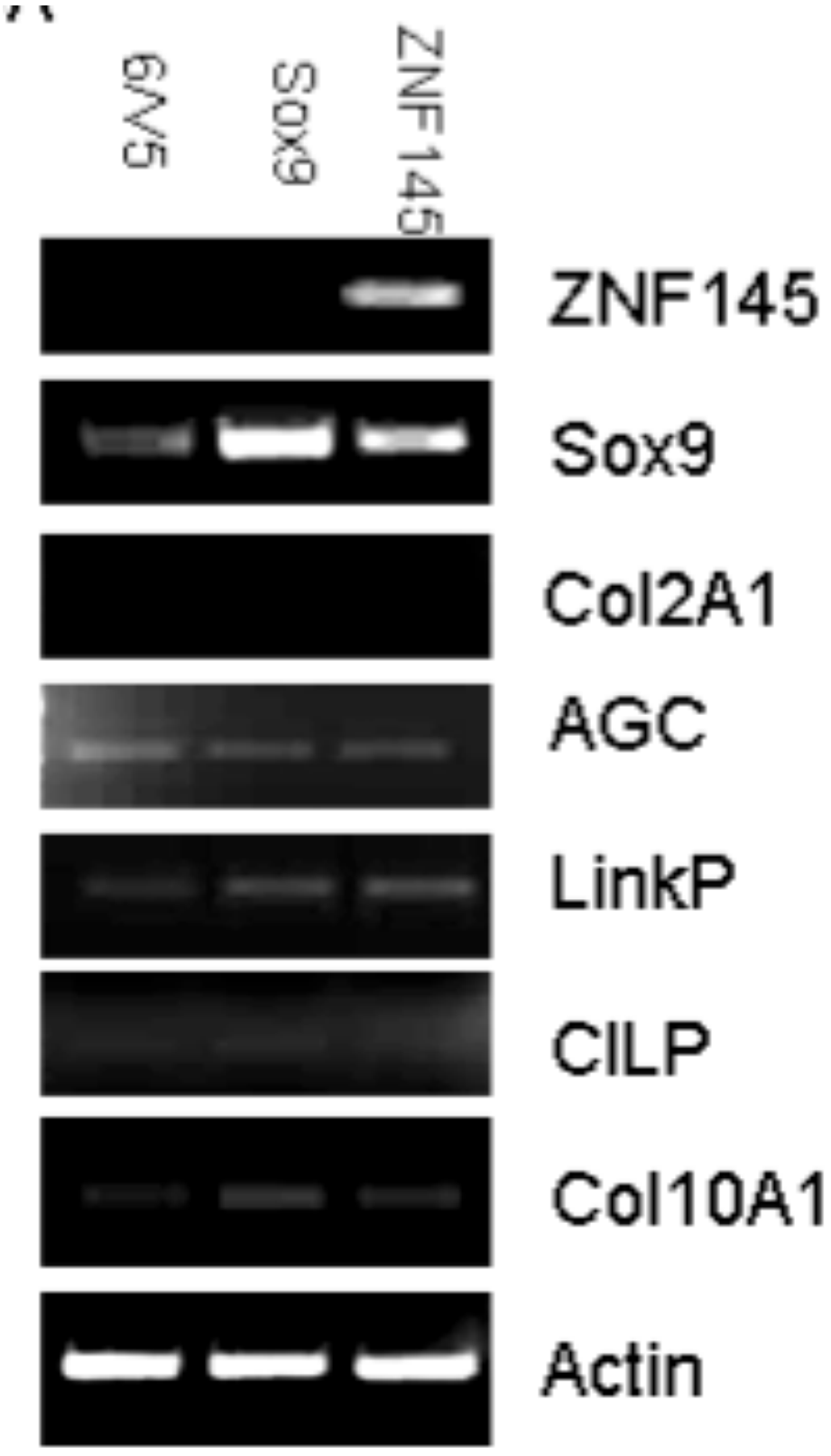

6/V5
Sox9
ZNF145
ZNF145
Sox9
Col2A1
AGC
LinkP
CILP
Col10A1
Actin

FIGURE 5B

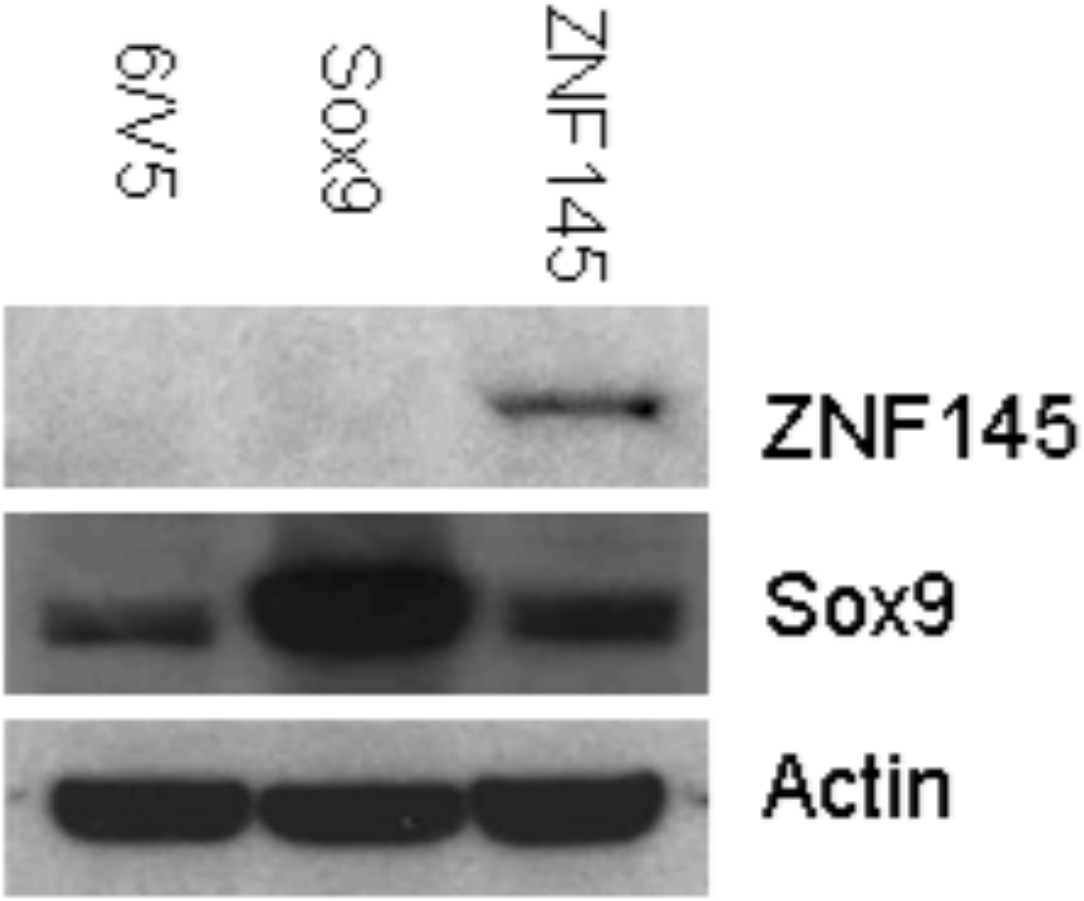


FIGURE 6A

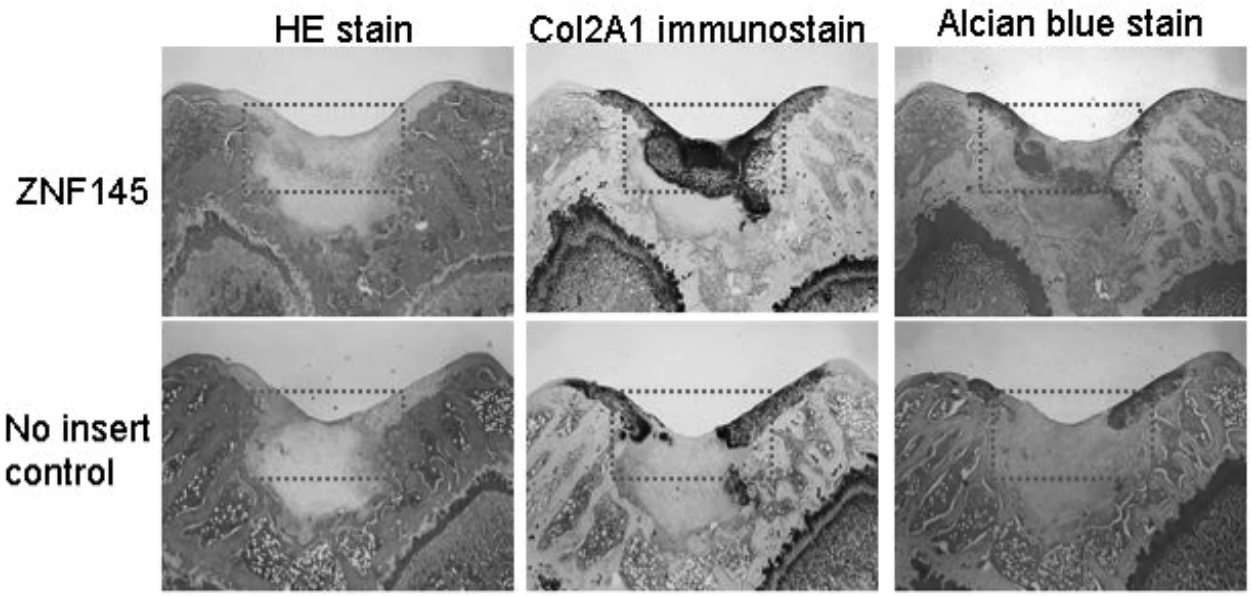

HE stain
Col2A1 immunostain
Alcian blue stain
ZNF145
No insert control

FIGURE 6B

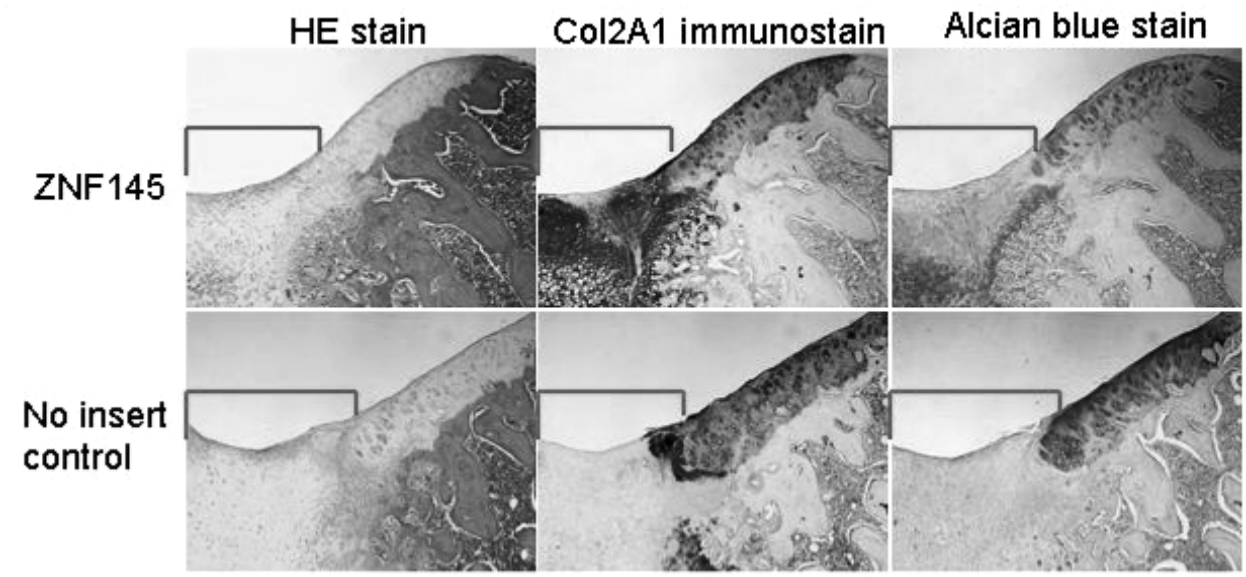

HE stain
Col2A1 immunostain
Alcian blue stain
ZNF145
No insert control

FIGURE 6C

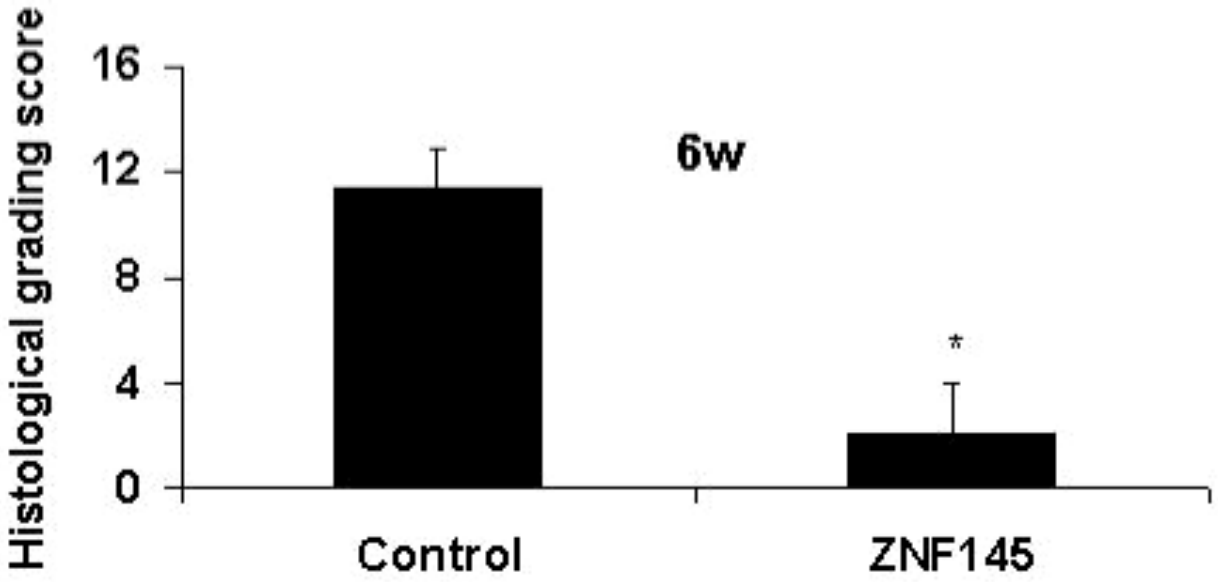


FIGURE 6D

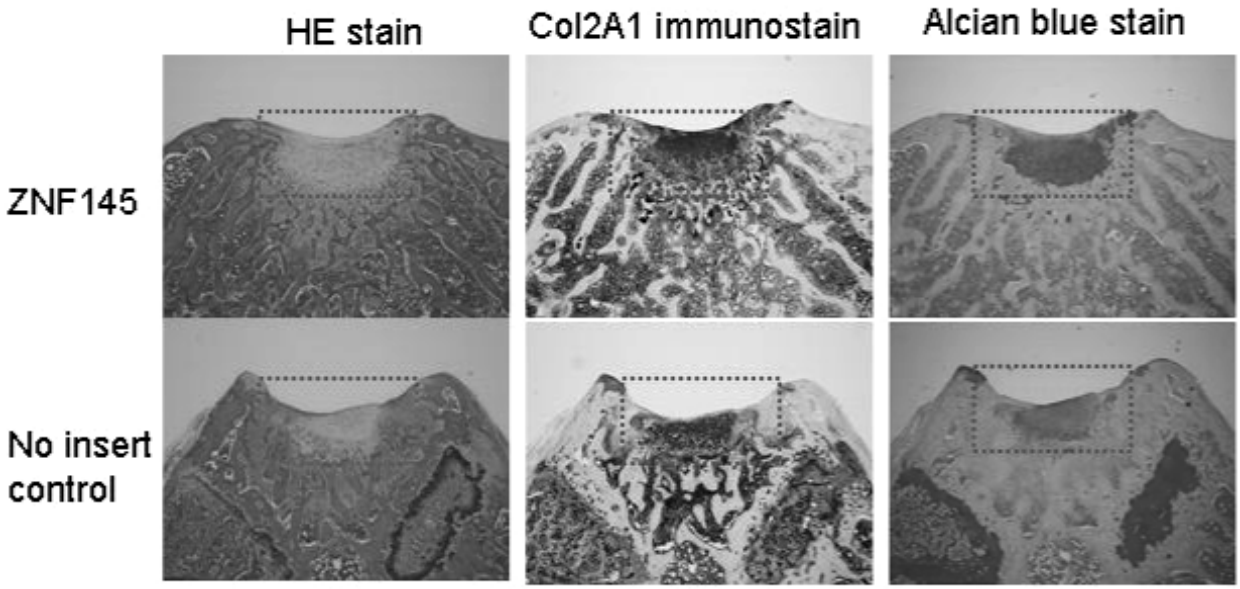

HE stain
Col2A1 immunostain
Alcian blue stain
ZNF145
No insert control

FIGURE 6E

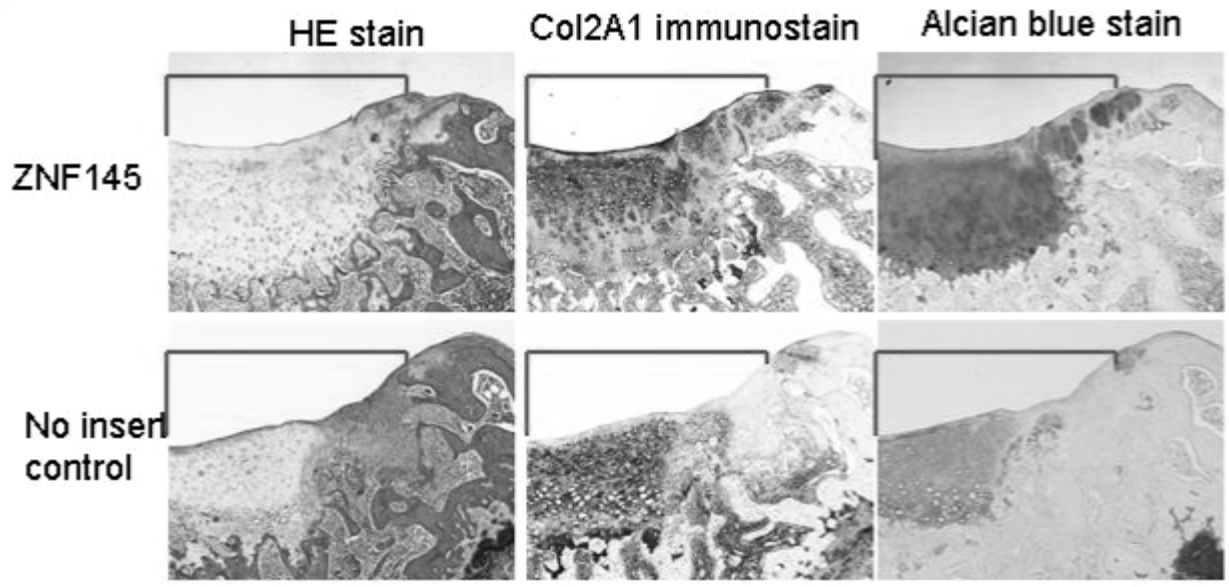

HE stain
Col2A1 immunostain
Alcian blue stain
ZNF145
No insert
control

FIGURE 6F

