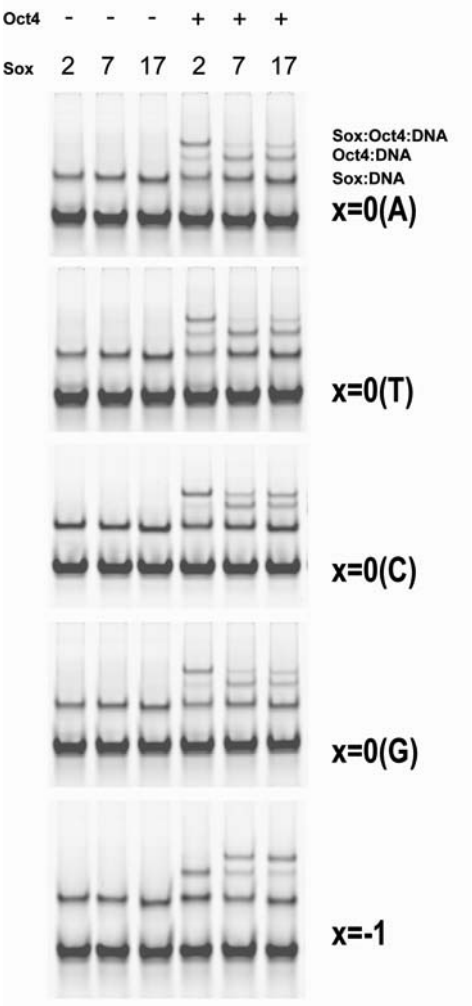

Oct4 - - - + + +
Sox 2 7 17 2 7 17
Sox:Oct4:DNA
Oct4:DNA
Sox:DNA
x=0(A)
x=0(T)
x=0(C)
x=0(G)
x=-1

FIGURE 1

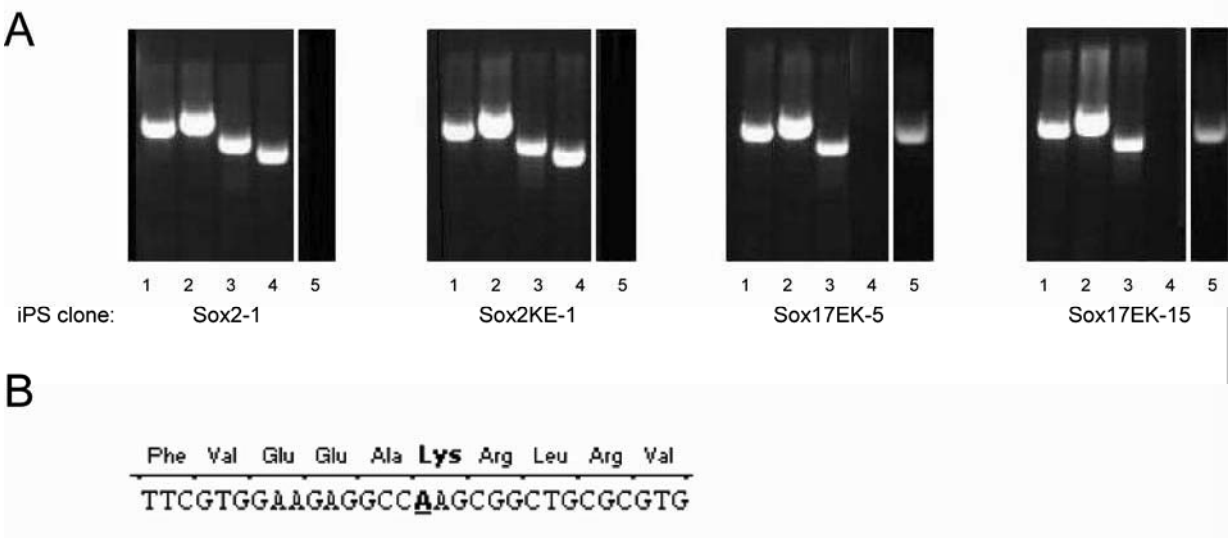

A
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
iPS clone:
Sox2-1
Sox2KE-1
Sox17EK-5
Sox17EK-15
B
Phe Val Glu Glu Ala Lys Arg Leu Arg Val
TTCGTGGAAGAGGCCAAGCGGCTGCGCGTG

FIGURE 2

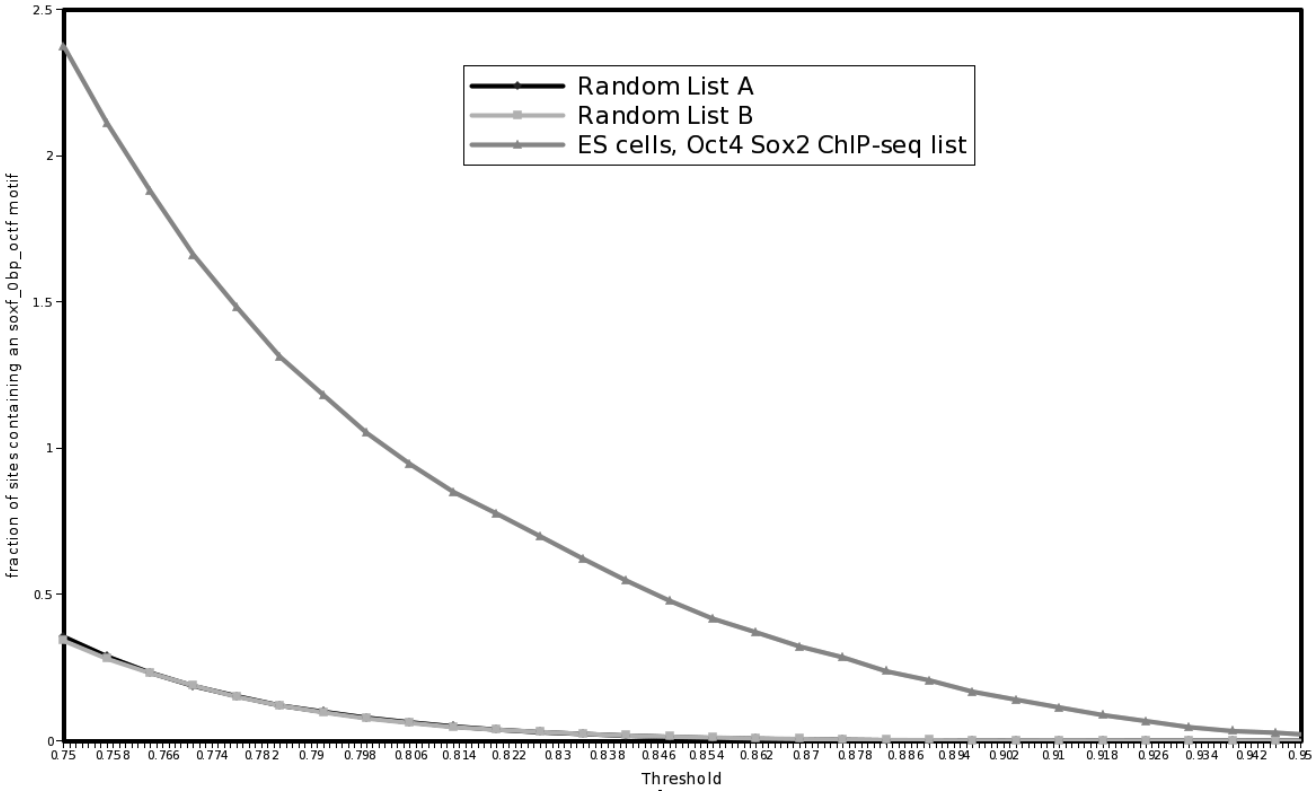

Random List A
Random List B
ES cells, Oct4 Sox2 ChIP-seq list
fraction of sites containing an soxf_0bp_octf motif
Threshold
2.5
2
1.5
1
0.5
0
0.75
0.758
0.766
0.774
0.782
0.79
0.798
0.806
0.814
0.822
0.83
0.838
0.846
0.854
0.862
0.87
0.878
0.886
0.894
0.902
0.91
0.918
0.926
0.934
0.942
0.95

FIGURE 3

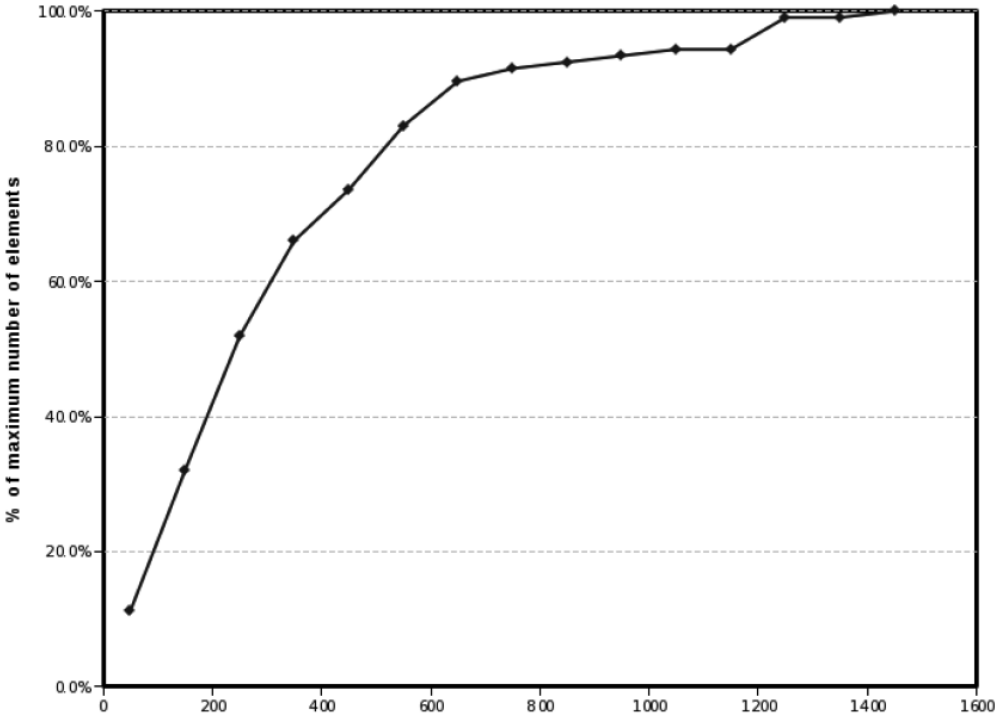

100.0%
80.0%
60.0%
40.0%
20.0%
0.0%
% of maximum number of elements
0
200
400
600
800
1000
1200
1400
1600

FIGURE 4A

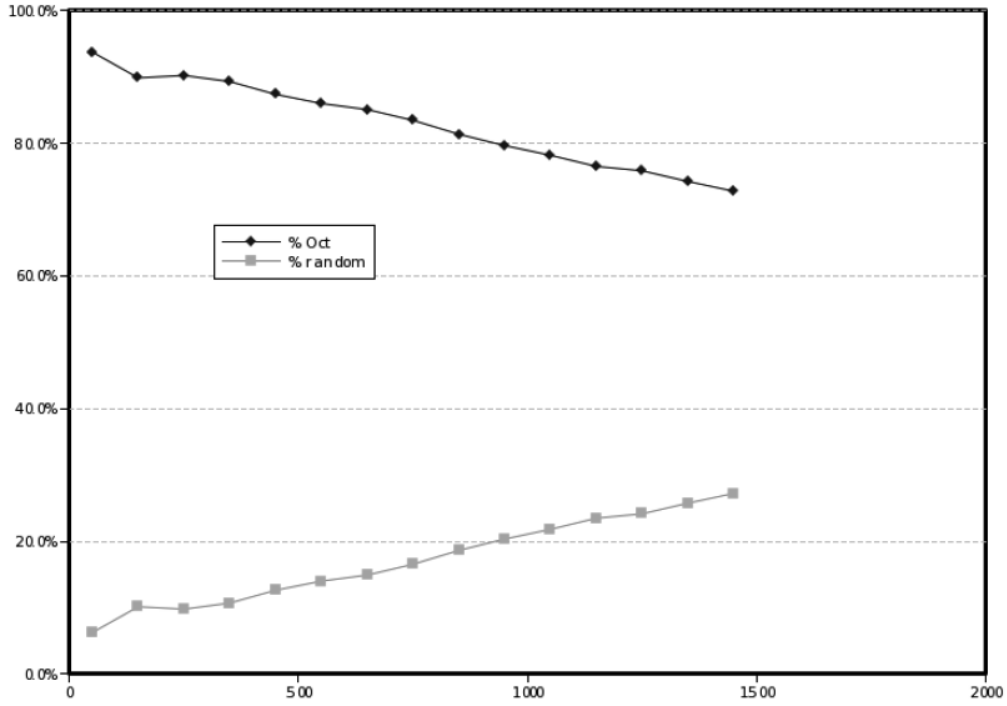


FIGURE 4B

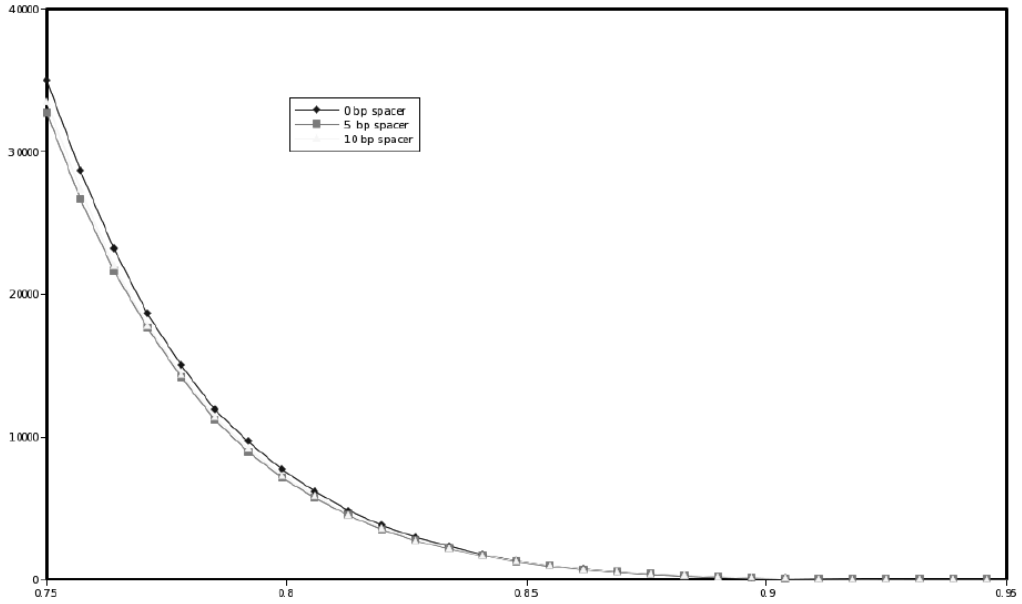

40000
30000
20000
10000
0
0.75
0.8
0.85
0.9
0.95
0 bp spacer
5 bp spacer
10 bp spacer

FIGURE 5

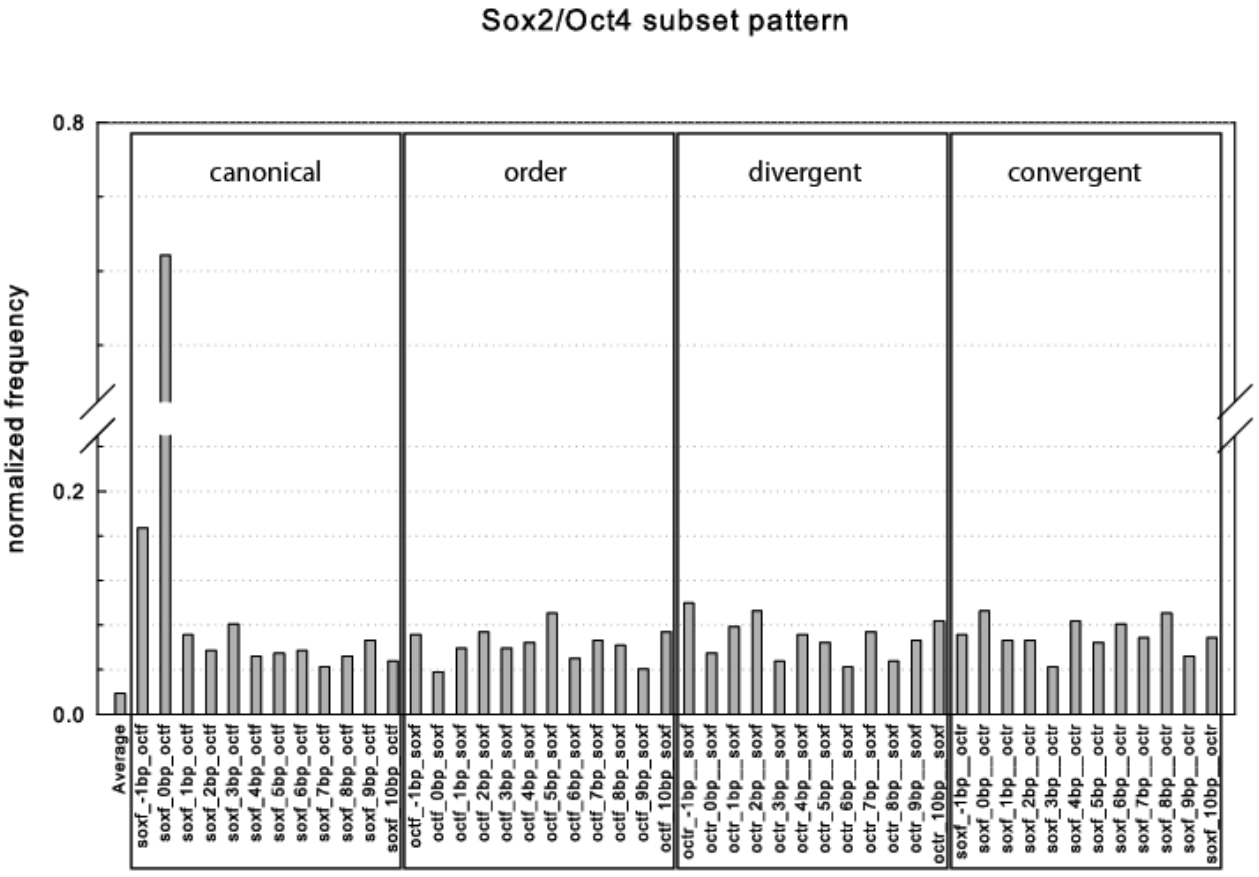

Sox2/Oct4 subset pattern
normalized frequency
0.8
0.2
0.0
canonical
order
divergent
convergent
Average
soxf_-1bp_octf
soxf_0bp_octf
soxf_1bp_octf
soxf_2bp_octf
soxf_3bp_octf
soxf_4bp_octf
soxf_5bp_octf
soxf_6bp_octf
soxf_7bp_octf
soxf_8bp_octf
soxf_9bp_octf
soxf_10bp_octf
octf_-1bp_soxf
octf_0bp_soxf
octf_1bp_soxf
octf_2bp_soxf
octf_3bp_soxf
octf_4bp_soxf
octf_5bp_soxf
octf_6bp_soxf
octf_7bp_soxf
octf_8bp_soxf
octf_9bp_soxf
octf_10bp_soxf
octr_-1bp__soxf
octr_0bp__soxf
octr_1bp__soxf
octr_2bp__soxf
octr_3bp__soxf
octr_4bp__soxf
octr_5bp__soxf
octr_6bp__soxf
octr_7bp__soxf
octr_8bp__soxf
octr_9bp__soxf
octr_10bp__soxf
soxf_-1bp__octr
soxf_0bp__octr
soxf_1bp__octr
soxf_2bp__octr
soxf_3bp__octr
soxf_4bp__octr
soxf_5bp__octr
soxf_6bp__octr
soxf_7bp__octr
soxf_8bp__octr
soxf_9bp__octr
soxf_10bp__octr

FIGURE 6

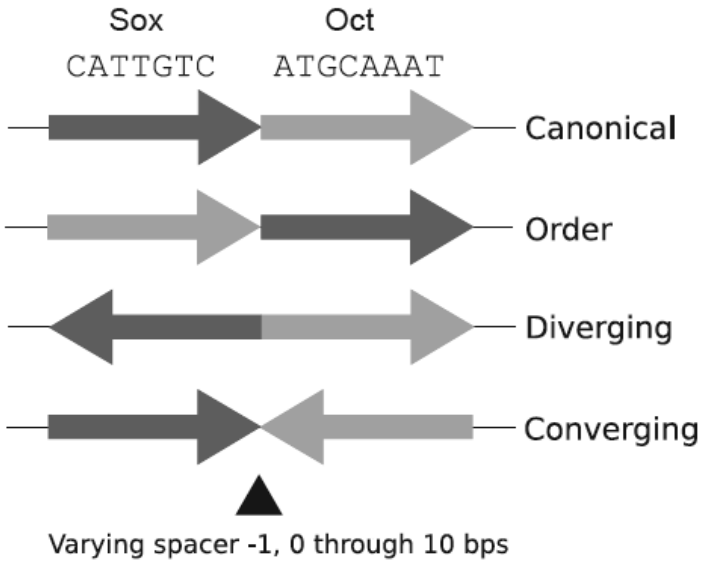


FIGURE 7A

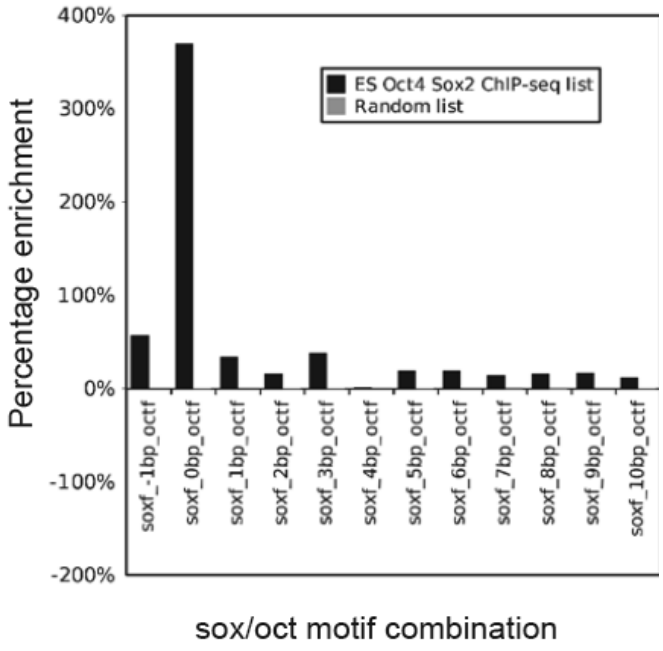


FIGURE 7B

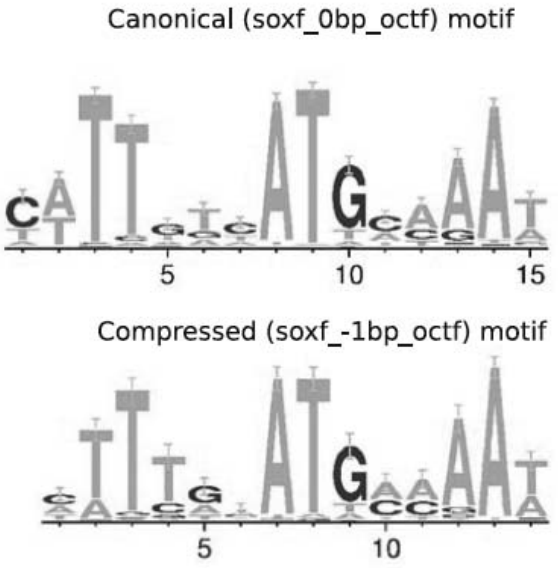


FIGURE 7C

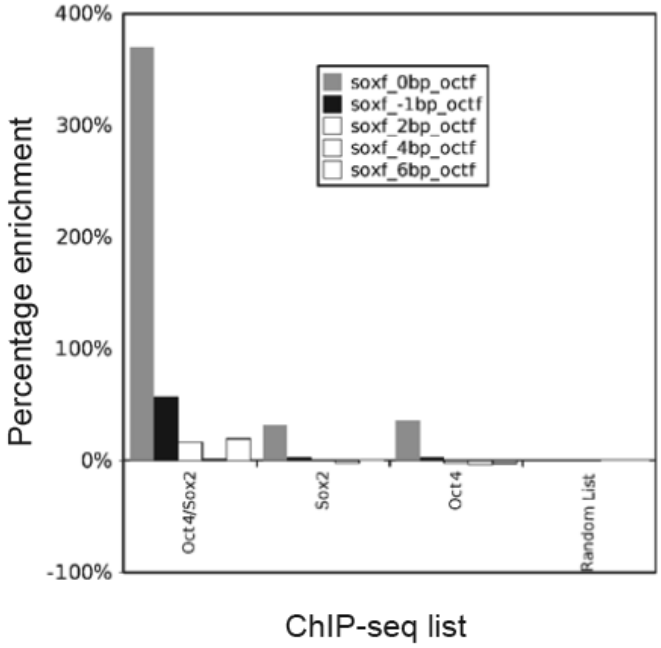


FIGURE 7D

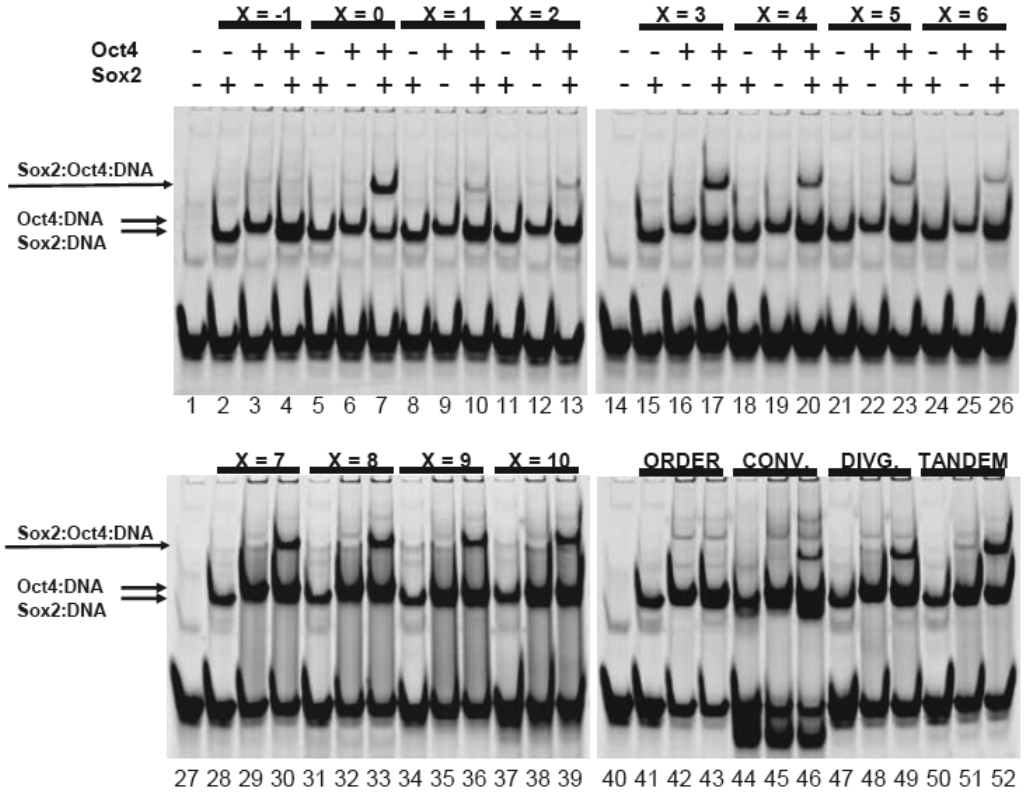


FIGURE 8A

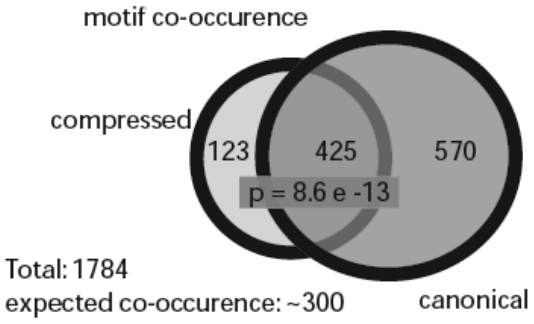


FIGURE 8B

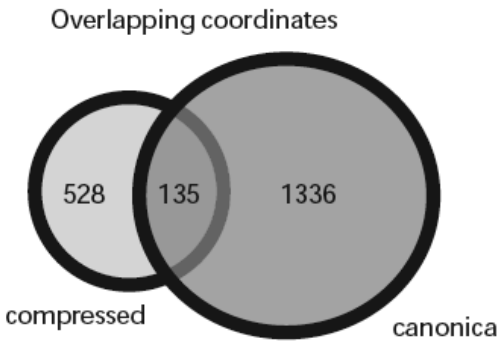


FIGURE 8C

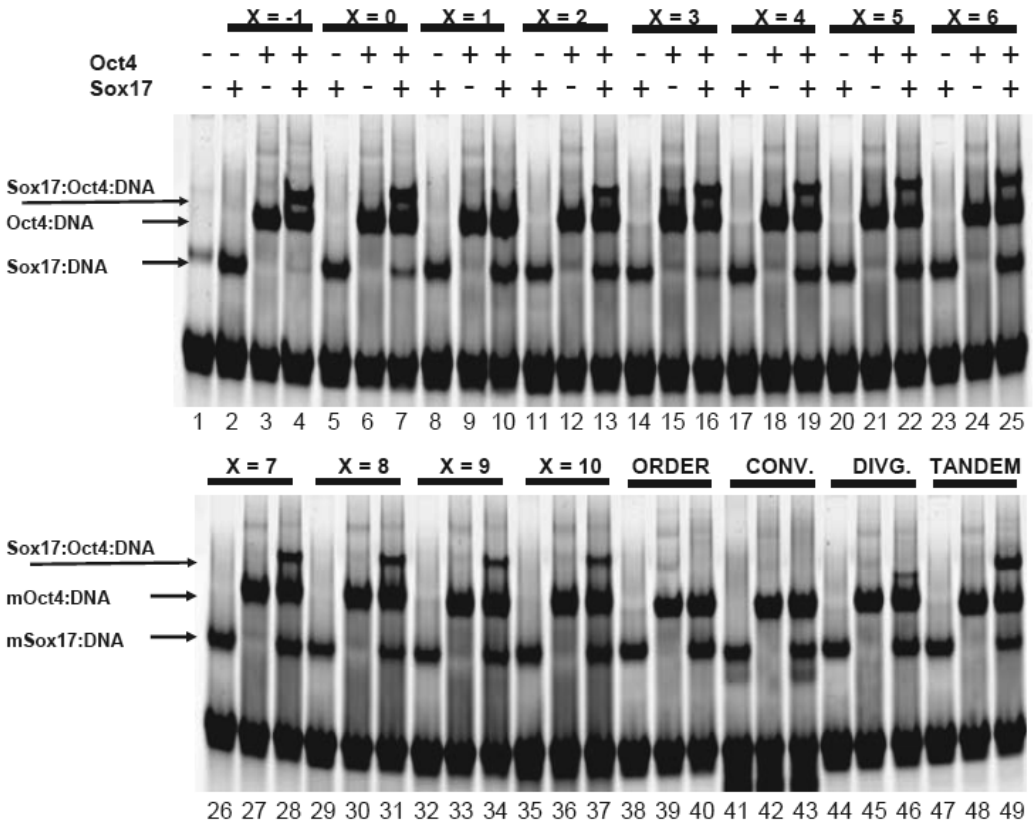


FIGURE 8D

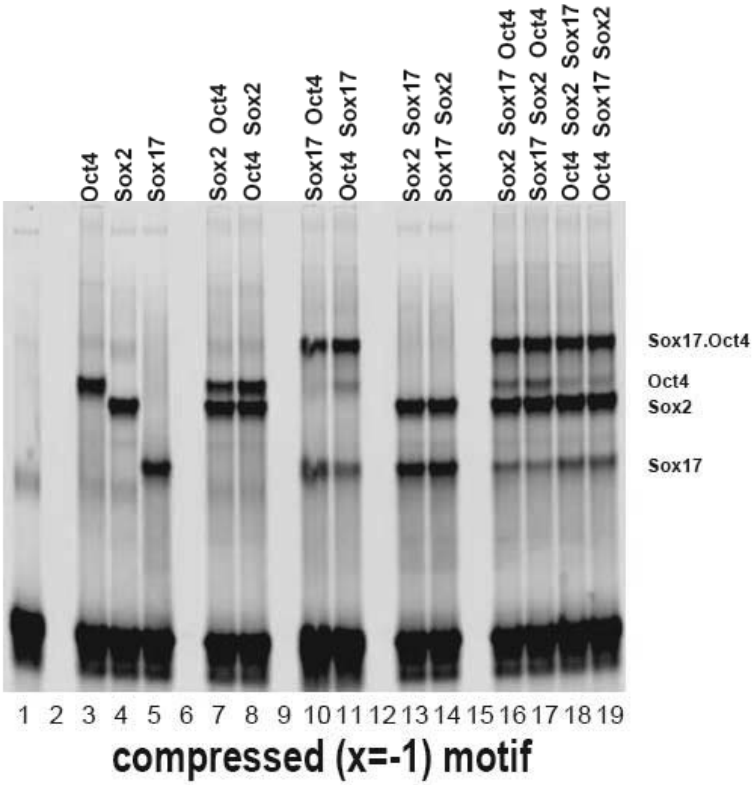

Oct4
Sox2
Sox17
Sox2 Oct4
Oct4 Sox2
Sox17 Oct4
Oct4 Sox17
Sox2 Sox17
Sox17 Sox2
Sox2 Sox17 Oct4
Sox17 Sox2 Oct4
Oct4 Sox2 Sox17
Oct4 Sox17 Sox2
Sox17.Oct4
Oct4
Sox2
Sox17
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
compressed (x=-1) motif

FIGURE 9A

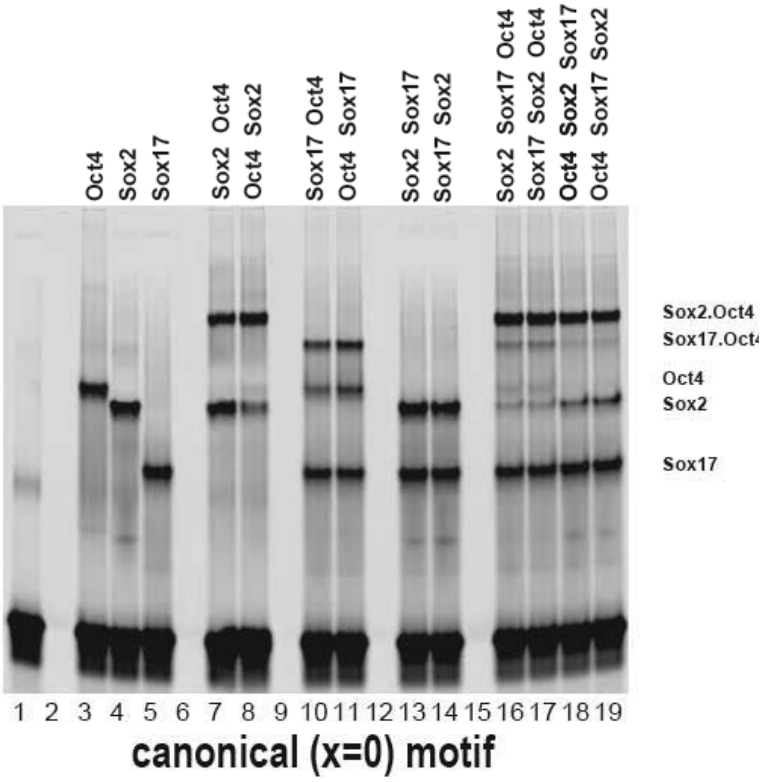


FIGURE 9B

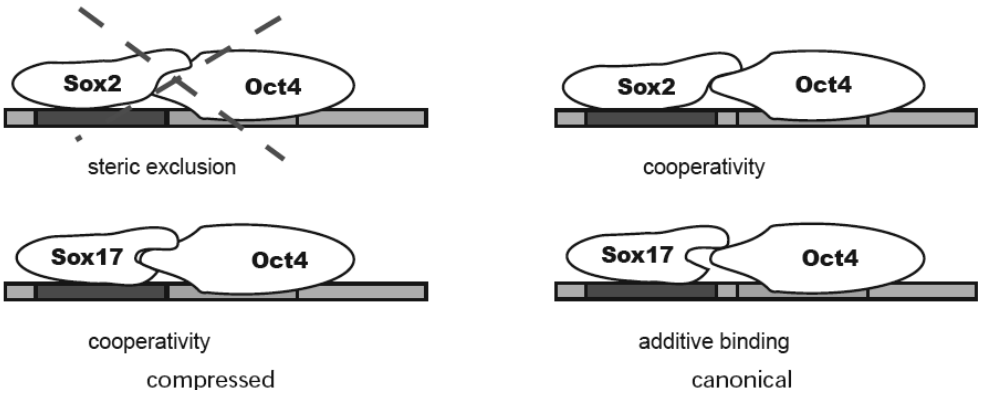


FIGURE 9C

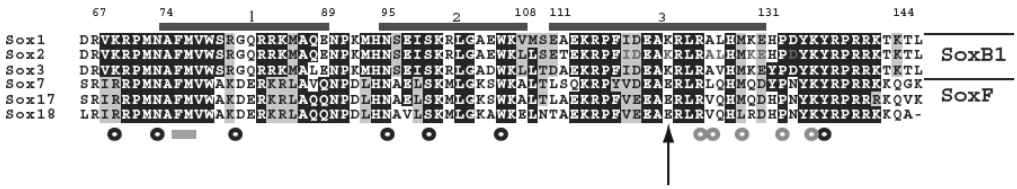


FIGURE 10A

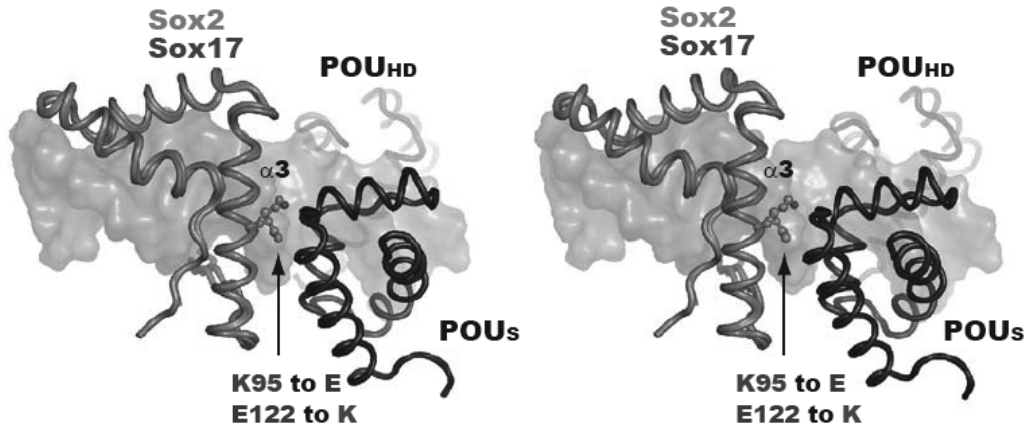


FIGURE 10B

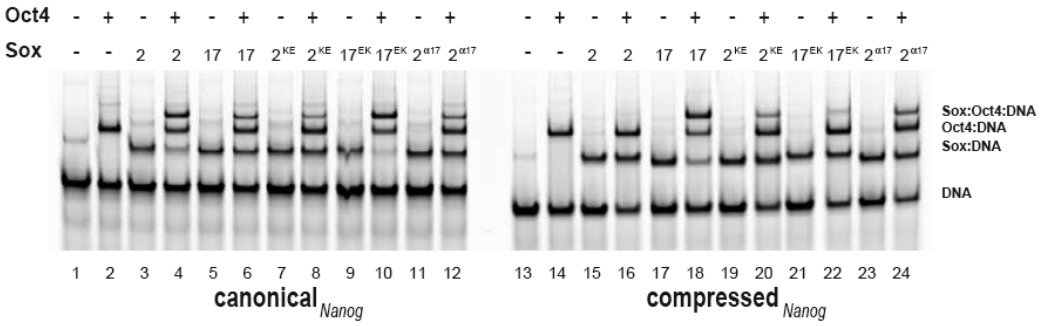


FIGURE 10C

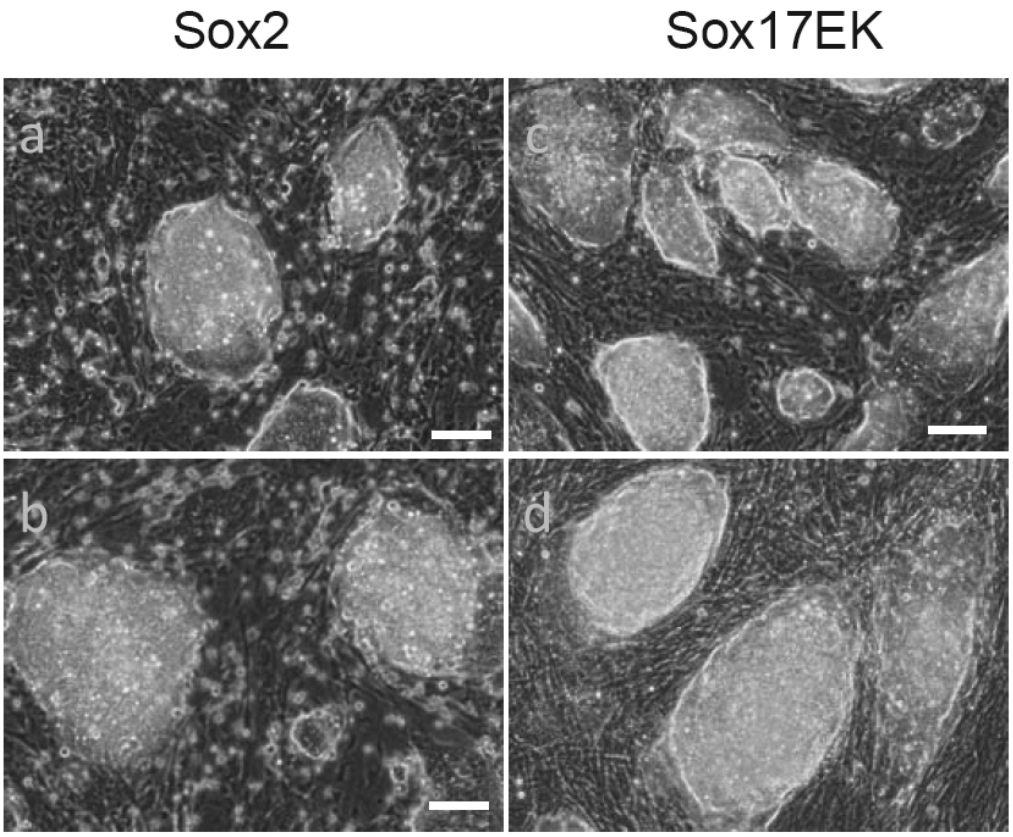


FIGURE 11A

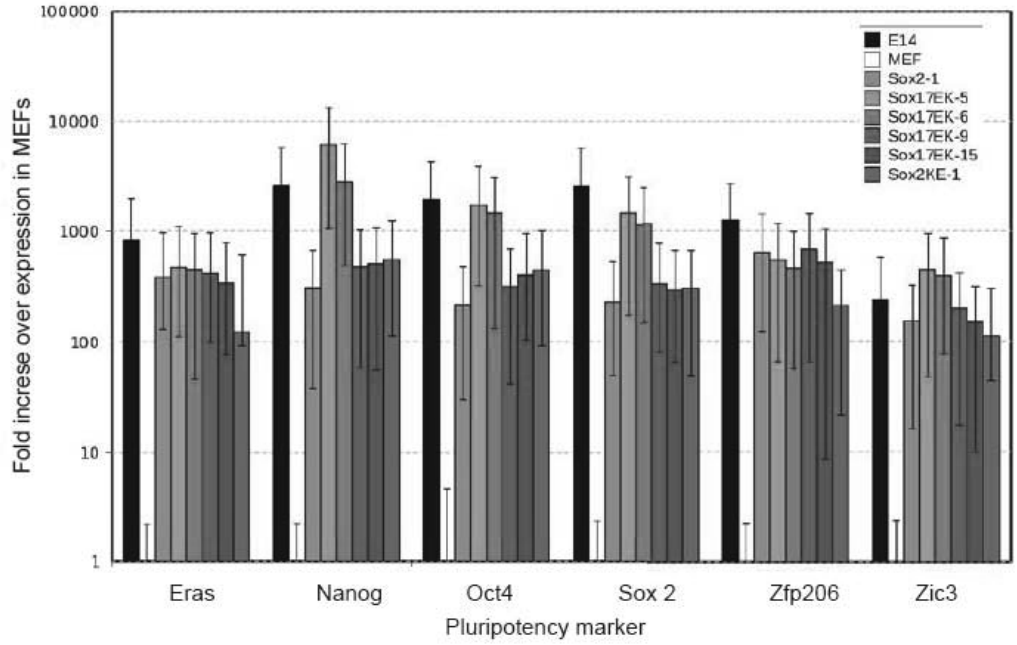


FIGURE 11B

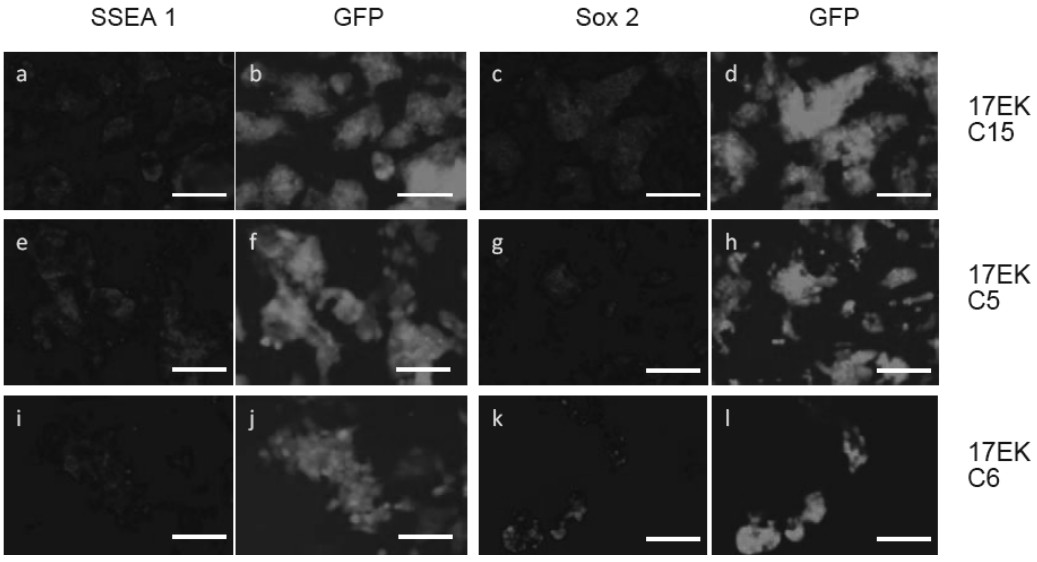


FIGURE 11C

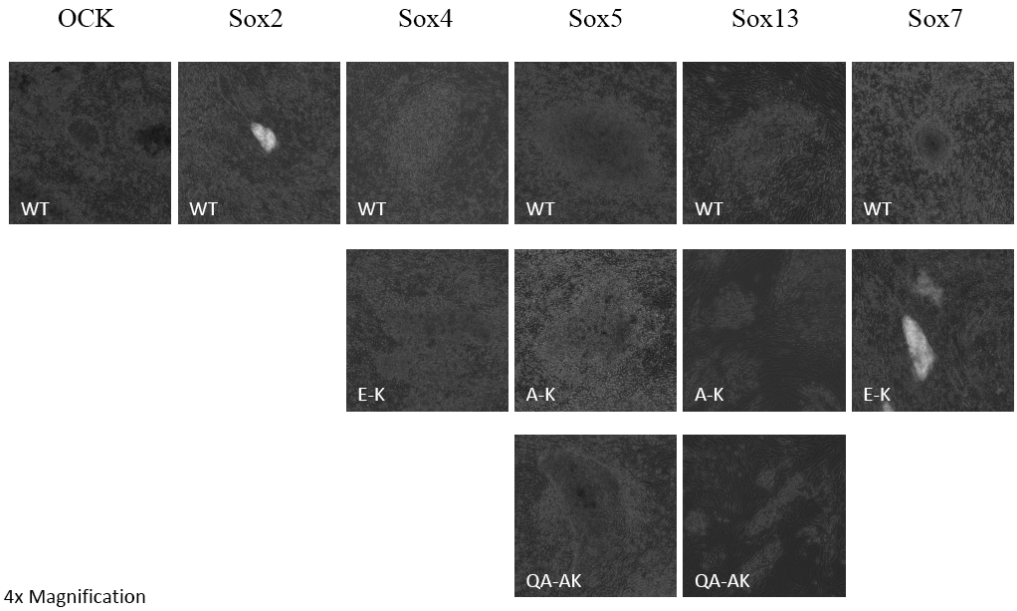


FIGURE 12A

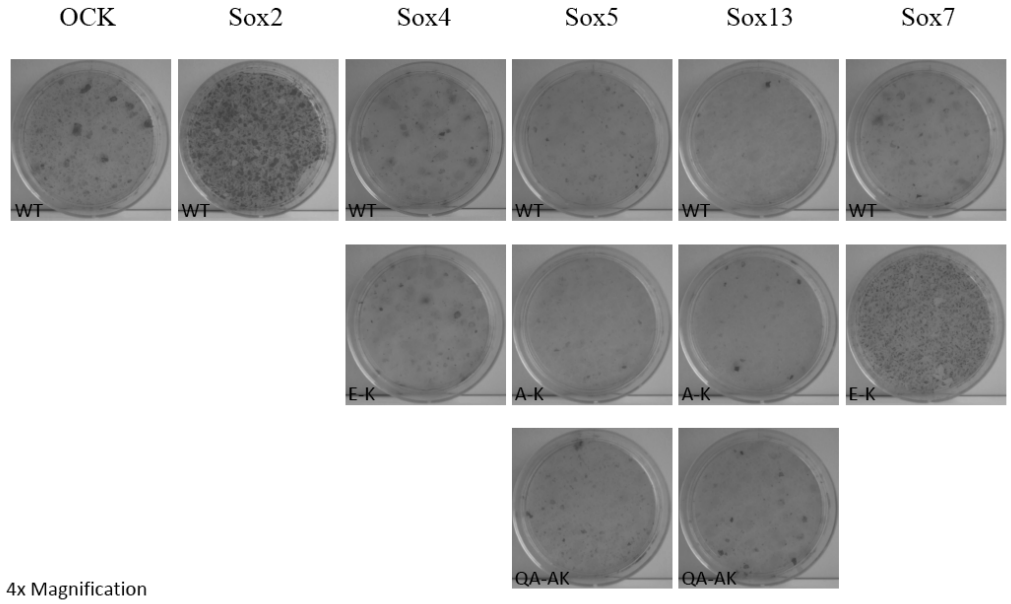


FIGURE 12B

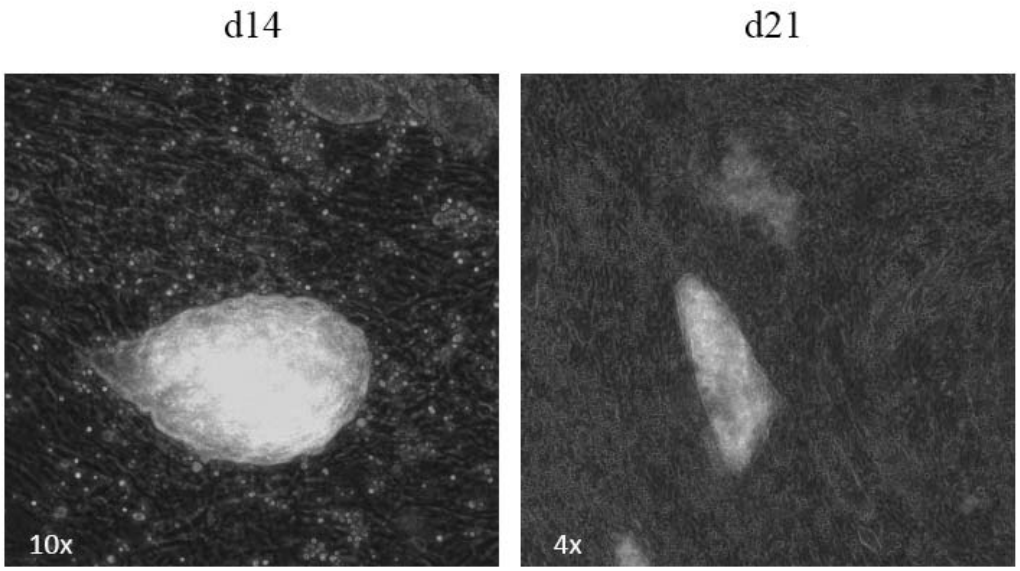


FIGURE 13

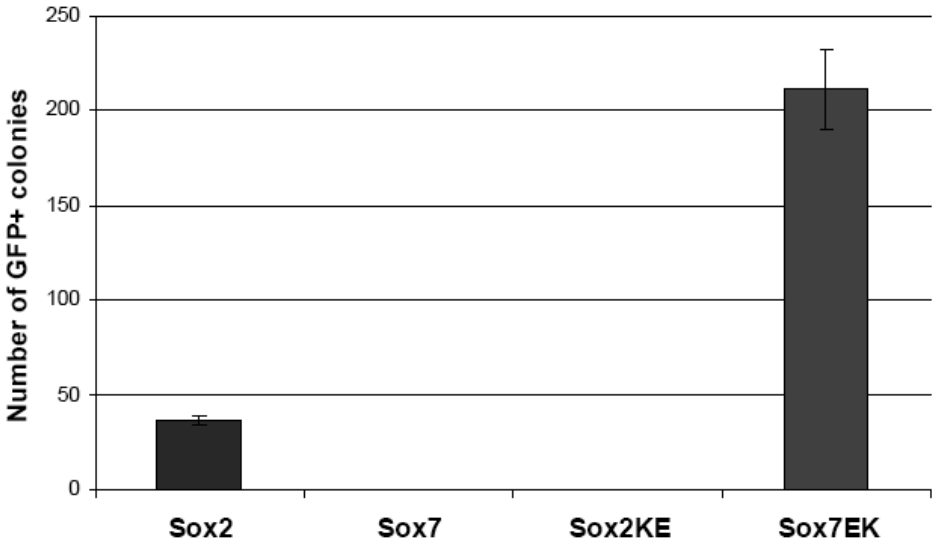


FIGURE 14A

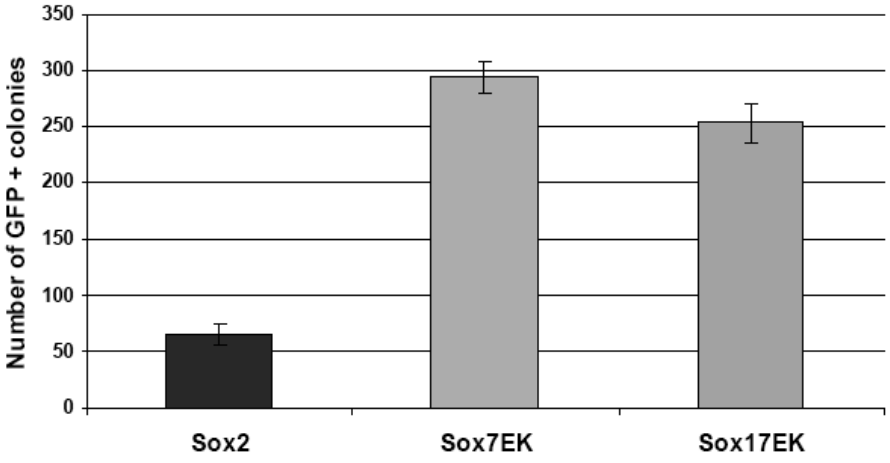

Number of GFP + colonies
350
300
250
200
150
100
50
0
Sox2
Sox7EK
Sox17EK

FIGURE 14B

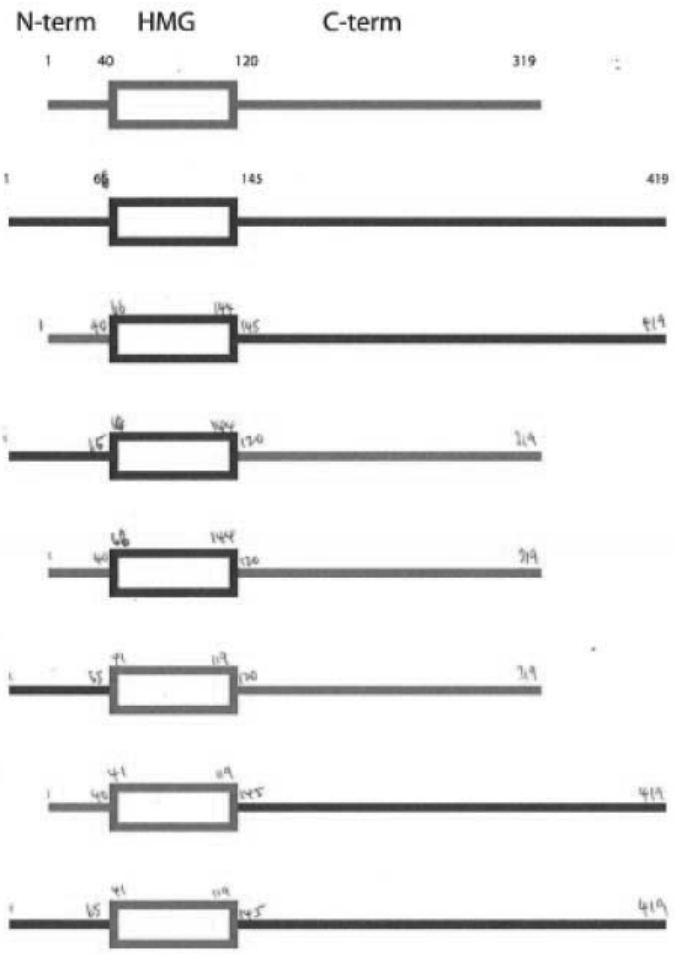


FIGURE 15A

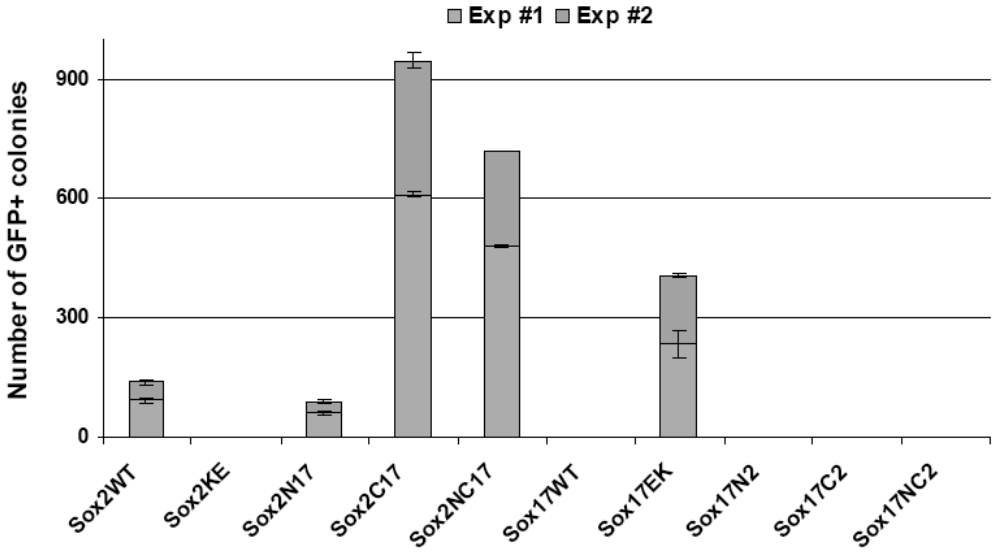


FIGURE 15B

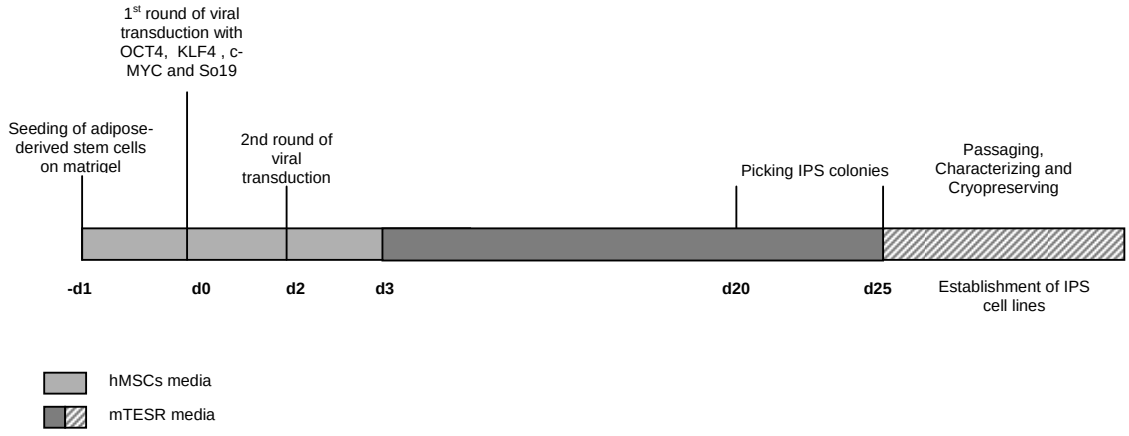


FIGURE 16

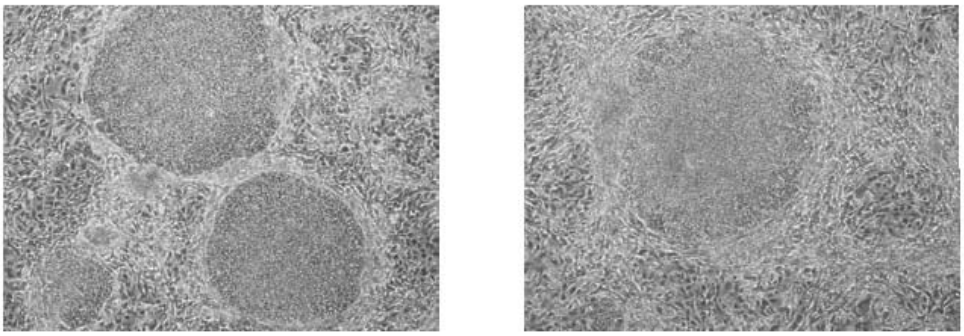


FIGURE 17