FIGURE 6

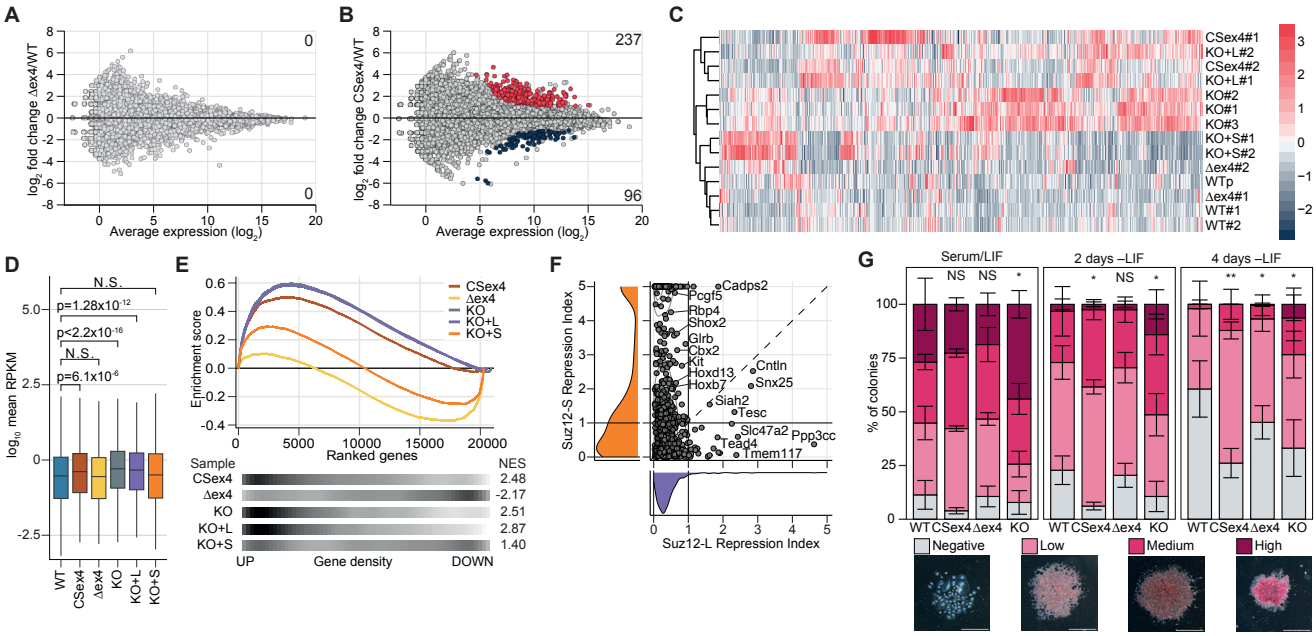
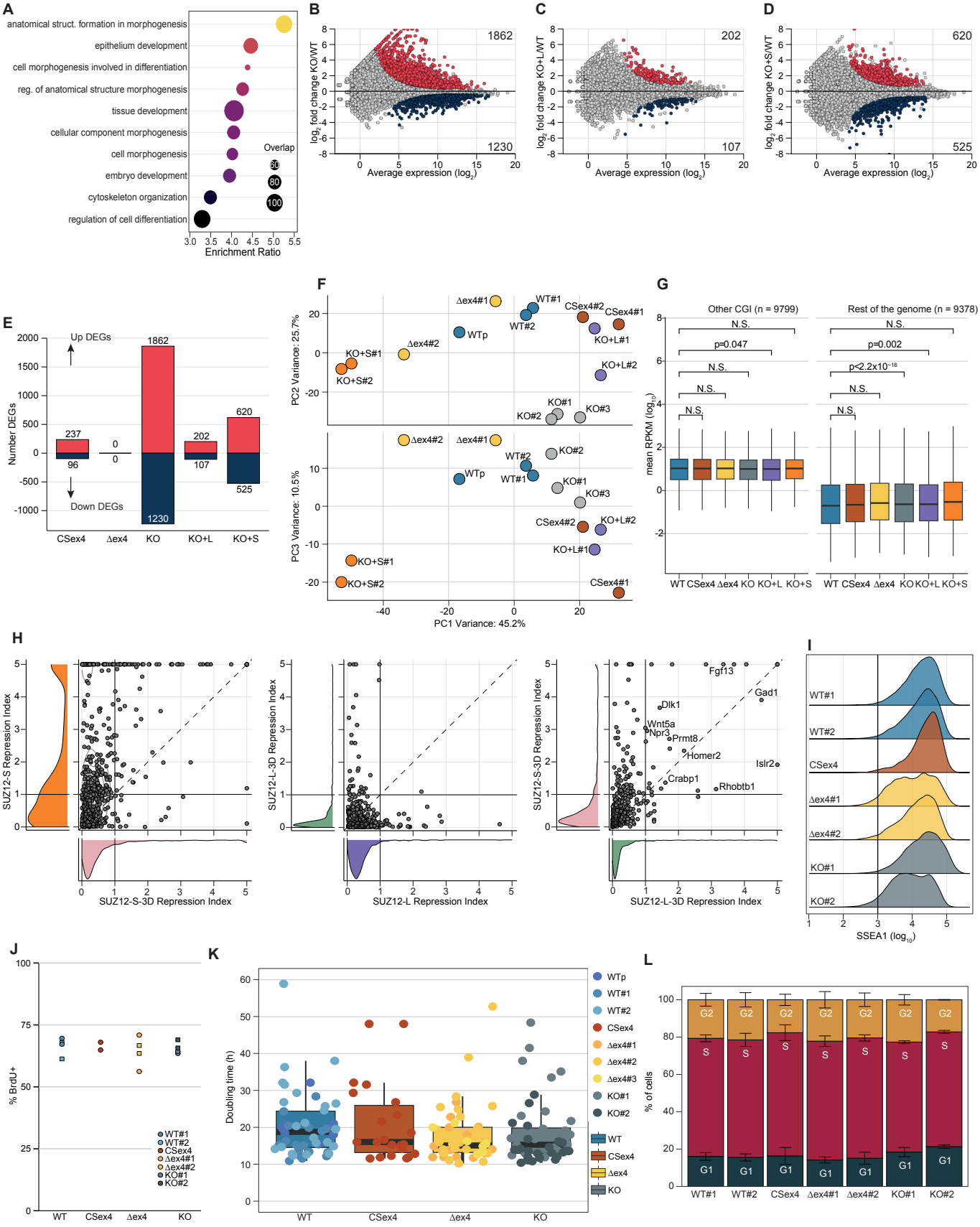

A
log2 fold change Δex4/WT
Average expression (log2)
0
0
B
log2 fold change CSex4/WT
Average expression (log2)
237
96
C
CSex4#1
KO+L#2
CSex4#2
KO+L#1
KO#2
KO#1
KO#3
KO+S#1
KO+S#2
Δex4#2
WTp
Δex4#1
WT#1
WT#2
D
log10 mean RPKM
N.S.
p=1.28x10-12
p<2.2x10-16
N.S.
p=6.1x10-6
WT
CSex4
Δex4
KO
KO+L
KO+S
E
Enrichment score
Ranked genes
CSex4
Δex4
KO
KO+L
KO+S
Sample
NES
CSex4 2.48
Δex4 -2.17
KO 2.51
KO+L 2.87
KO+S 1.40
UP
Gene density
DOWN
F
Suz12-S Repression Index
Suz12-L Repression Index
Cadps2
Pcgf5
Rbp4
Shox2
Glrb
Cbx2
Gt
Hoxd13
Hoxb7
Cntln
Snx25
Siah2
Tesc
Slc47a2
Ppp3cc
Tead4
Tmem117
G
Serum/LIF
2 days –LIF
4 days –LIF
% of colonies
WT CSex4 Δex4 KO
Negative
Low
Medium
High

FIGURE S6


A
anatomical struct. formation in morphogenesis
epithelium development
cell morphogenesis involved in differentiation
reg. of anatomical structure morphogenesis
tissue development
cellular component morphogenesis
cell morphogenesis
embryo development
cytoskeleton organization
regulation of cell differentiation
Overlap
30
80
100
3.0 3.5 4.0 4.5 5.0 5.5
Enrichment Ratio
B
1862
1230
log2 fold change KO/WT
Average expression (log2)
C
202
107
log2 fold change KO+L/WT
Average expression (log2)
D
620
525
log2 fold change KO+S/WT
Average expression (log2)
E
Up DEGs
Down DEGs
Number DEGs
2000
1500
1000
500
0
-500
-1000
237
96
0
0
1862
1230
202
107
620
525
CSex4
Δex4
KO
KO+L
KO+S
F
PC2 Variance: 25.7%
PC3 Variance: 10.5%
PC1 Variance: 45.2%
Δex4#1
Δex4#2
WTp
WT#1
WT#2
CSex4#1
CSex4#2
KO+L#1
KO+L#2
KO+S#1
KO+S#2
KO#1
KO#2
KO#3
G
Other CGI (n = 9799)
Rest of the genome (n = 9378)
mean RPKM (log10)
N.S.
p=0.047
p=0.002
p<2.2x10-16
WT CSex4 Δex4 KO KO+L KO+S
H
SUZ12-S Repression Index
SUZ12-L-3D Repression Index
SUZ12-S-3D Repression Index
SUZ12-L Repression Index
SUZ12-L-3D Repression Index
Fgf13
Gad1
Dlk1
Wnt5a
Npr3
Prmt8
Homer2
Islr2
Crabp1
Rhobtb1
I
WT#1
WT#2
CSex4
Δex4#1
Δex4#2
KO#1
KO#2
SSEA1 (log10)
J
% BrdU+
WT CSex4 Δex4 KO
K
Doubling time (h)
WTp
WT#1
WT#2
CSex4
Δex4#1
Δex4#2
Δex4#3
KO#1
KO#2
WT
CSex4
Δex4
KO
L
% of cells
G2
S
G1
WT#1 WT#2 CSex4 Δex4#1 Δex4#2 KO#1 KO#2