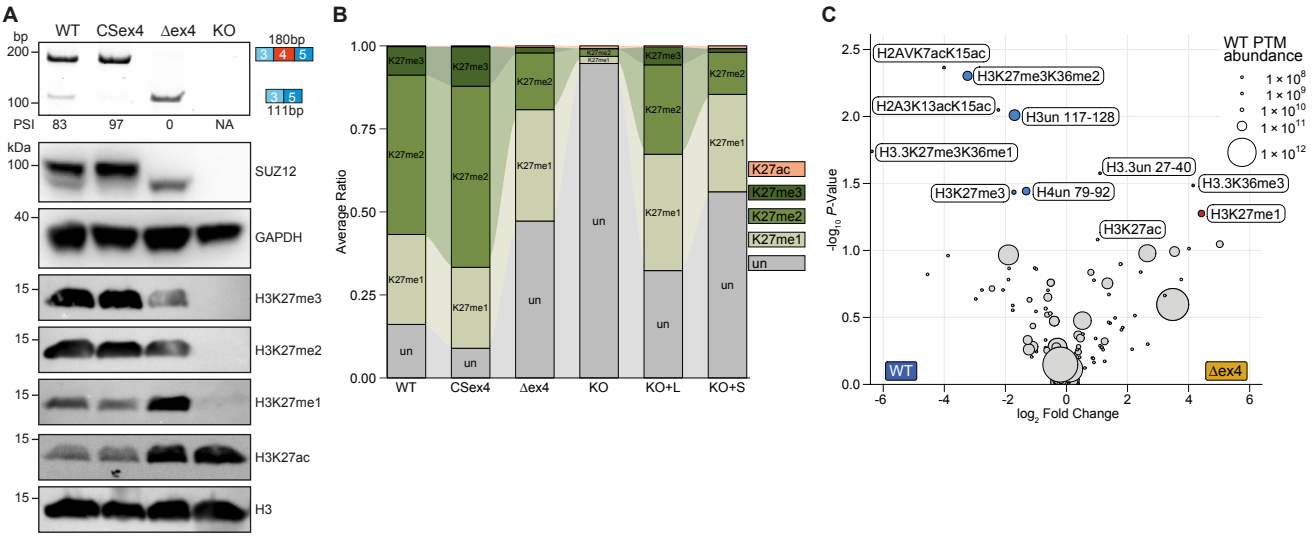
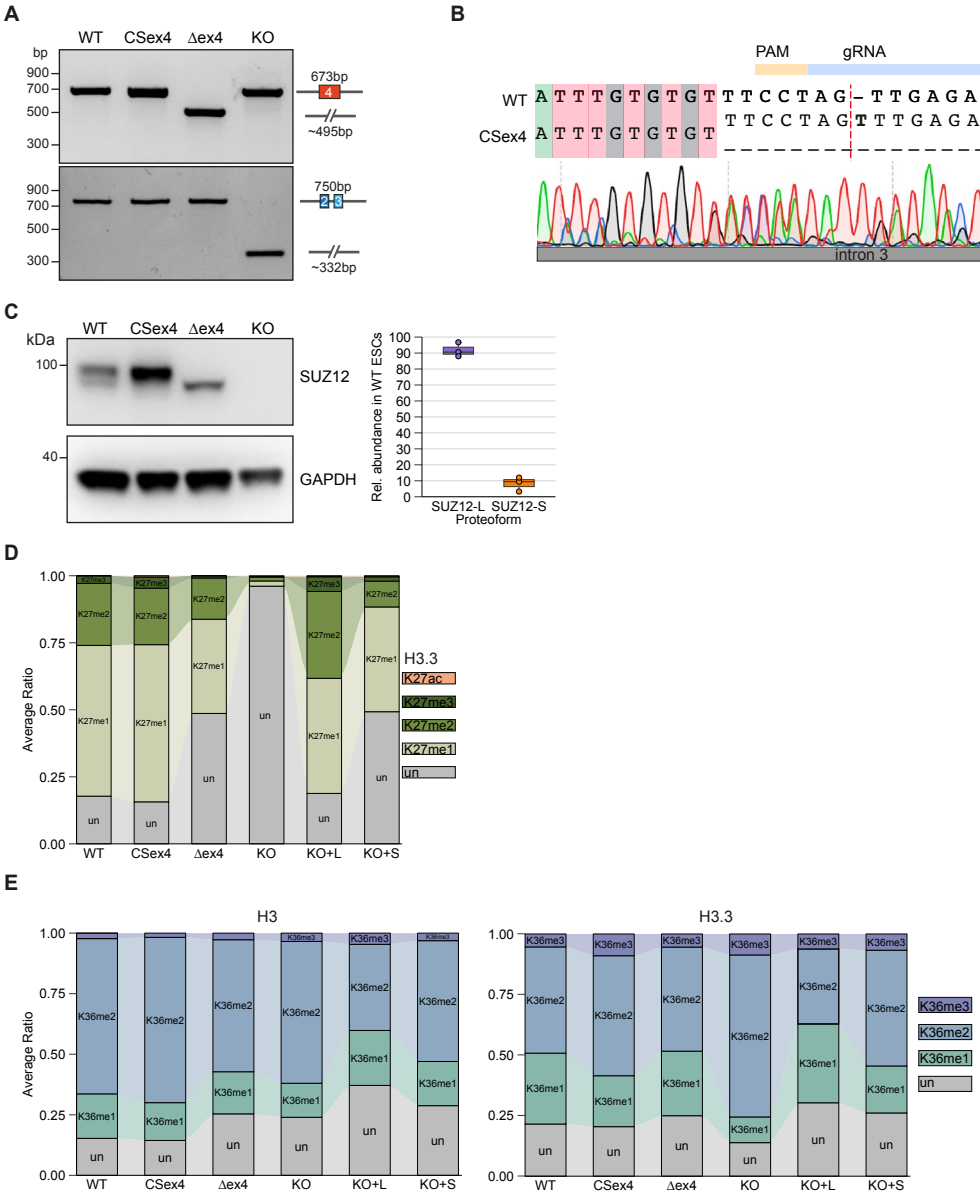
# FIGURE 4


A
WT
CSex4
Δex4
KO
bp
200
100
180bp
3 4 5
3 5
111bp
PSI
83
97
0
NA
kDa
100
SUZ12
40
GAPDH
15
H3K27me3
15
H3K27me2
15
H3K27me1
15
H3K27ac
15
H3
B
Average Ratio
1.00
0.75
0.50
0.25
0.00
K27me3
K27me2
K27me1
un
WT
CSex4
Δex4
KO
KO+L
KO+S
K27ac
K27me3
K27me2
K27me1
un
C
WT PTM abundance
1 × 10^8
1 × 10^9
1 × 10^10
1 × 10^11
1 × 10^12
H2AVK7acK15ac
H3K27me3K36me2
H2A3K13acK15ac
H3un 117-128
H3.3K27me3K36me1
H3.3un 27-40
H3K27me3
H4un 79-92
H3.3K36me3
H3K27me1
H3K27ac
WT
Δex4
-log10 P-Value
log2 Fold Change
2.5
2.0
1.5
1.0
0.5
0.0
-6
-4
-2
0
2
4
6

# FIGURE S4


A
WT
CSex4
Δex4
KO
bp
900
700
500
300
673bp
4
~495bp
750bp
2 2
~332bp
B
PAM
gRNA
branch point
WT
CSex4
intron 3
C
kDa
100
40
SUZ12
GAPDH
Rel. abundance in WT ESCs
SUZ12-L
SUZ12-S
Proteoform
D
Average Ratio
H3.3
K27ac
K27me3
K27me2
K27me1
un
WT
CSex4
Δex4
KO
KO+L
KO+S
E
H3
H3.3
K36me3
K36me2
K36me1
un