LncRNA ontology: inferring IncRNA functions based on chromatin states and expression patterns

Supplementary Material

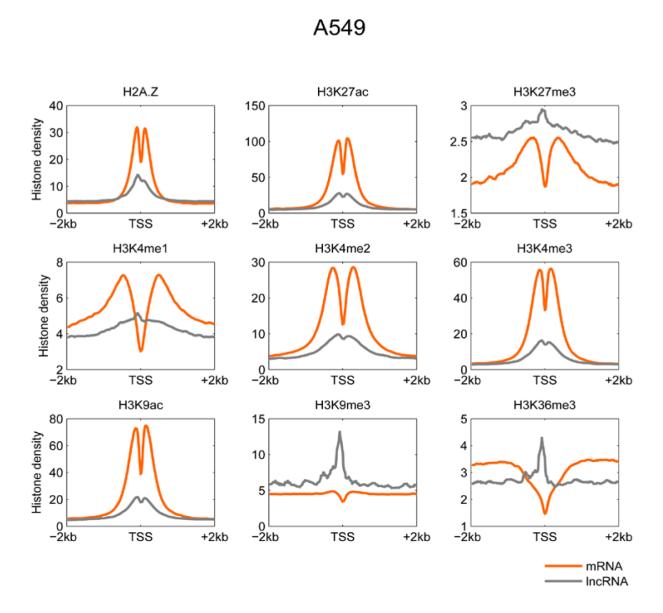


Figure S1 -The IncRNAs share common chromatin patterns with protein coding genes in A549 cell line.

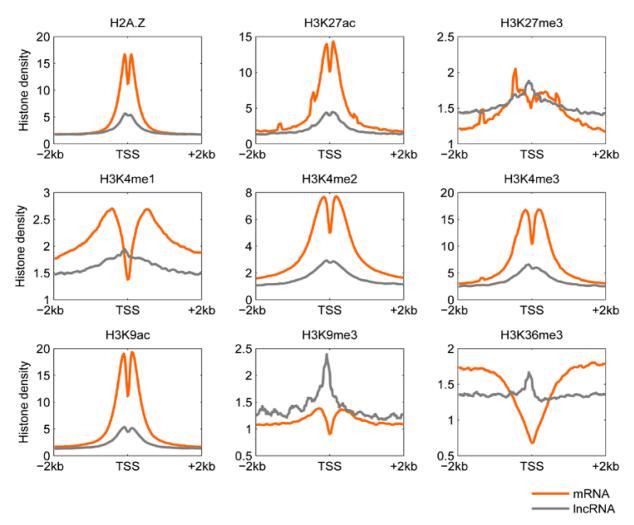


Figure S2 - The IncRNAs share common chromatin patterns with protein coding genes in GM12878 cell line.

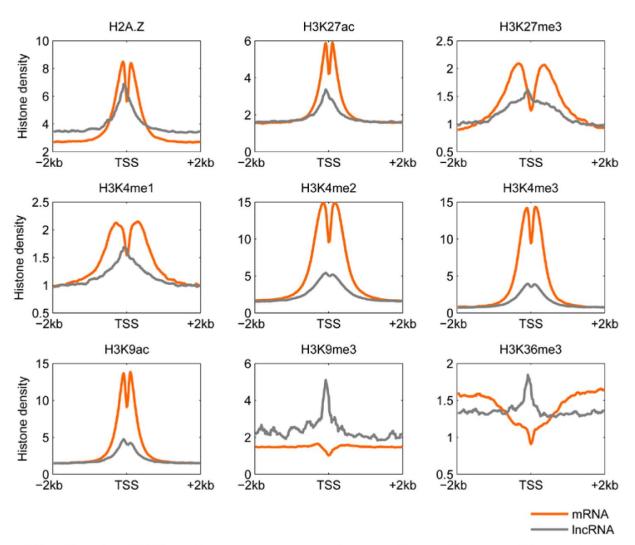


Figure S3 - The IncRNAs share common chromatin patterns with protein coding genes in H1 cell line.

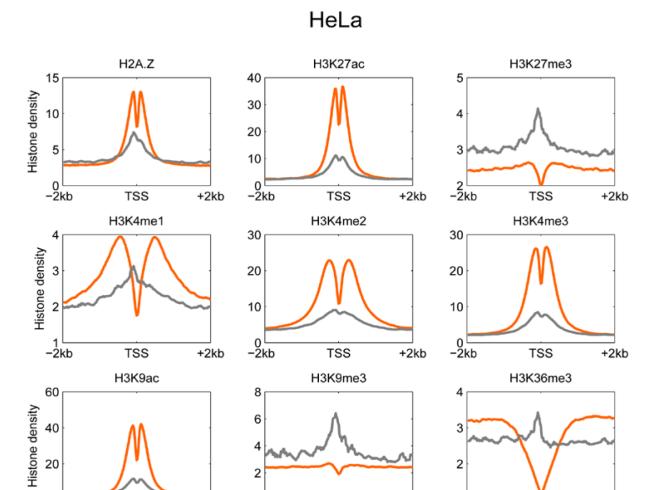


Figure S4 - The IncRNAs share common chromatin patterns with protein coding genes in HeLa cell line.

TSS

-2kb

+2kb

TSS

+2kb

mRNA IncRNA

0 └ -2kb

+2kb

0 [□] −2kb

TSS

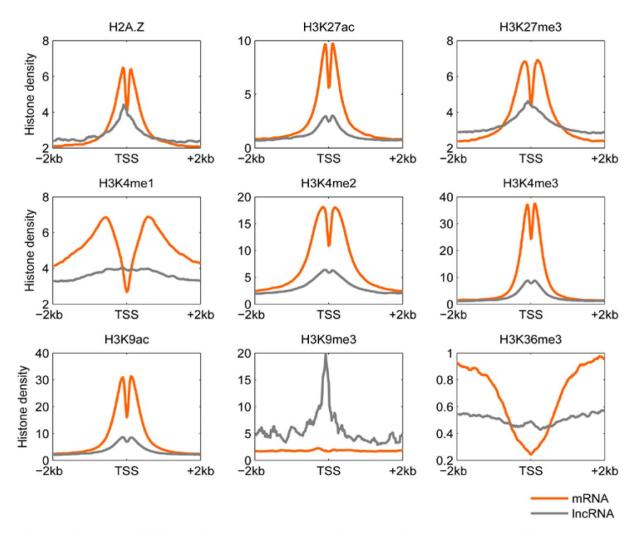


Figure S5 - The IncRNAs share common chromatin patterns with protein coding genes in HepG2 cell line.

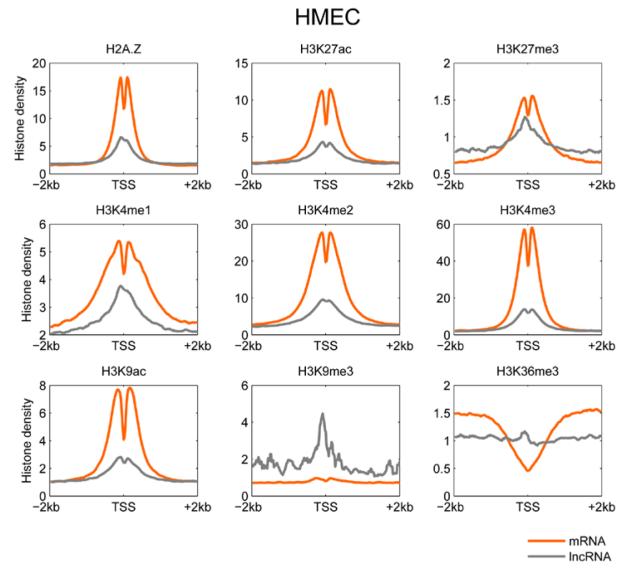


Figure S6 - The IncRNAs share common chromatin patterns with protein coding genes in HMEC cell line.

HUVEC

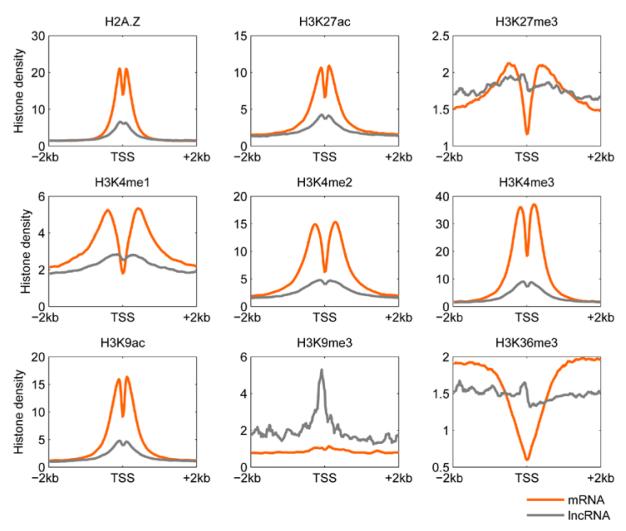


Figure S7 - The IncRNAs share common chromatin patterns with protein coding genes in HUVEC cell line.

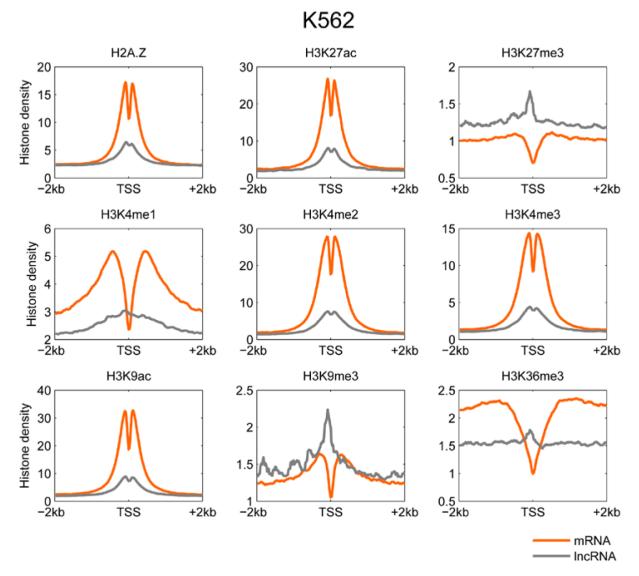


Figure S8 - The IncRNAs share common chromatin patterns with protein coding genes in K562 cell line.

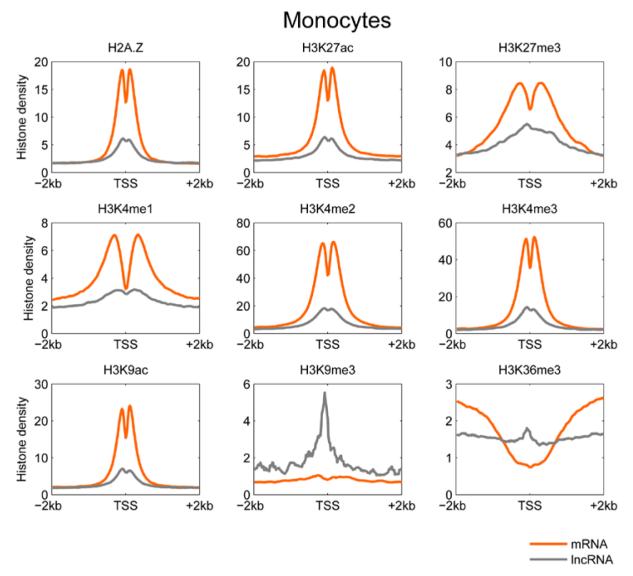


Figure S9 -The IncRNAs share common chromatin patterns with protein coding genes in Monocytes cell line.

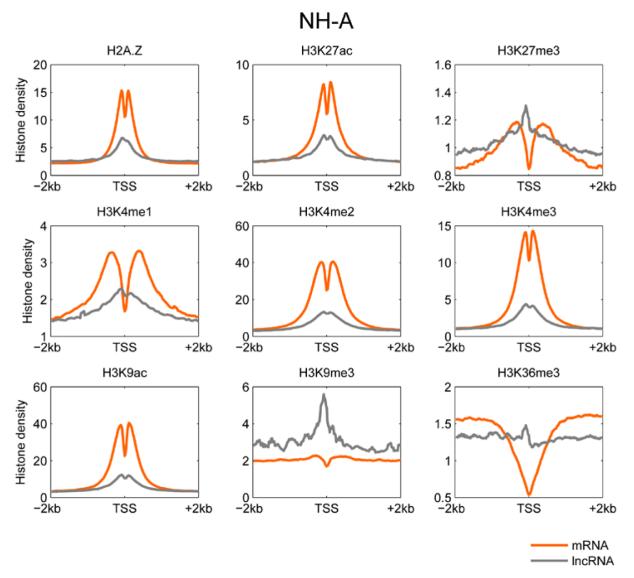


Figure S10 - The IncRNAs share common chromatin patterns with protein coding genes in NH-A cell line.

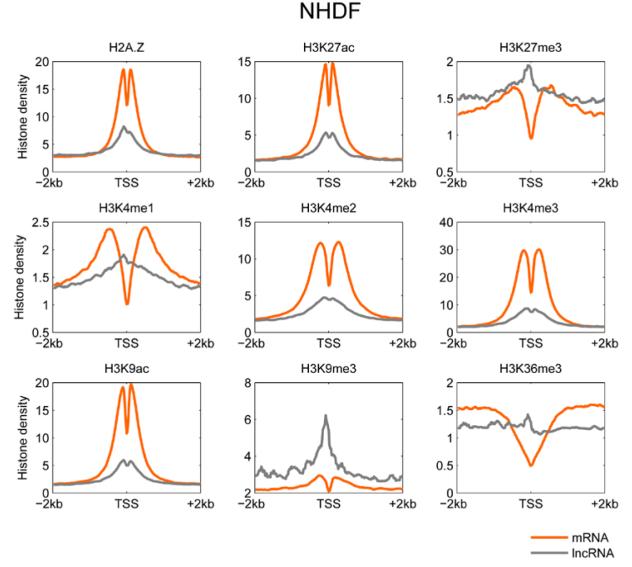


Figure S11 -The IncRNAs share common chromatin patterns with protein coding genes in NHDF cell line.

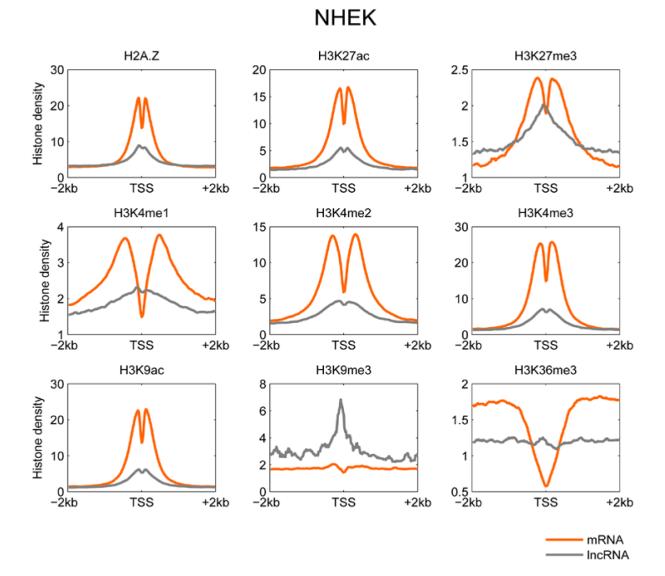


Figure S12 -The IncRNAs share common chromatin patterns with protein coding genes in NHEK cell line.

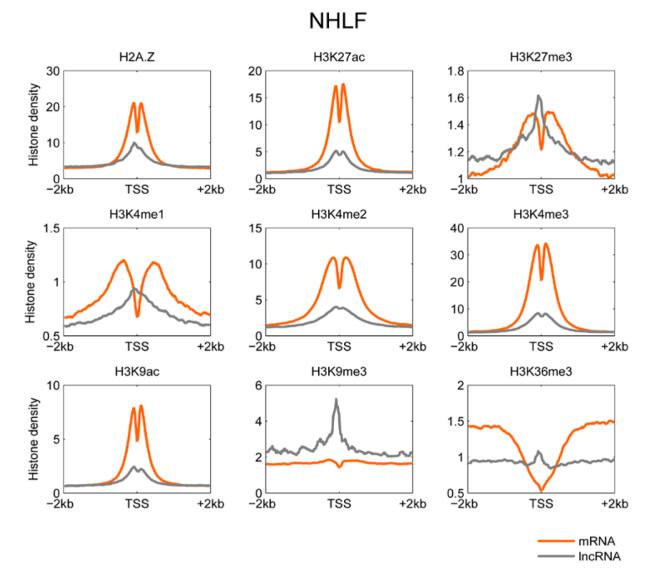


Figure S13 -The IncRNAs share common chromatin patterns with protein coding genes in NHLF cell line.

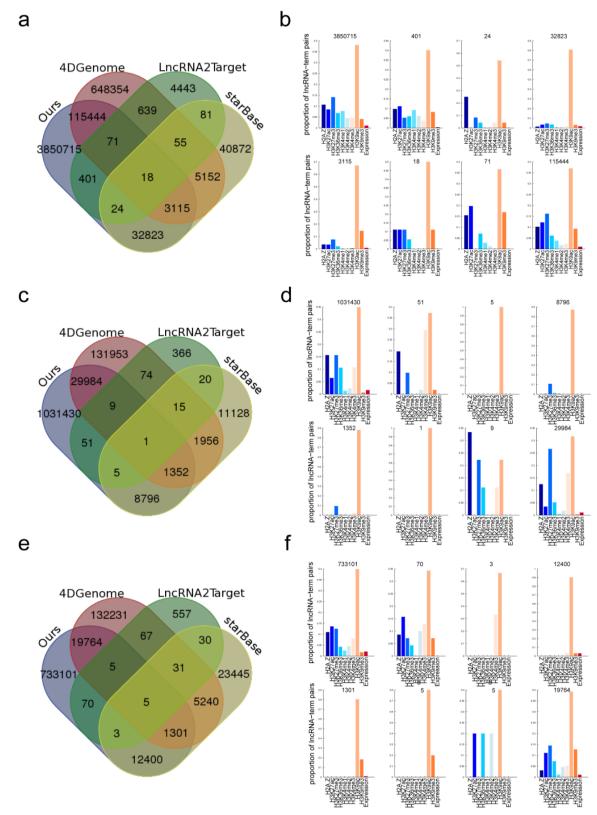


Figure S14-The venn figures show overlap and difference among four methods in terms of IncRNA function prediction.

The Venn diagrams show the overlap and difference between all four methods in terms of lncRNA function prediction in BP, CC and MF respectively (a, c and e). b, d and f show the number of lncRNA-GO term associations predicted by different chromatin and expression features in each subset of the corresponding left Venn diagram.

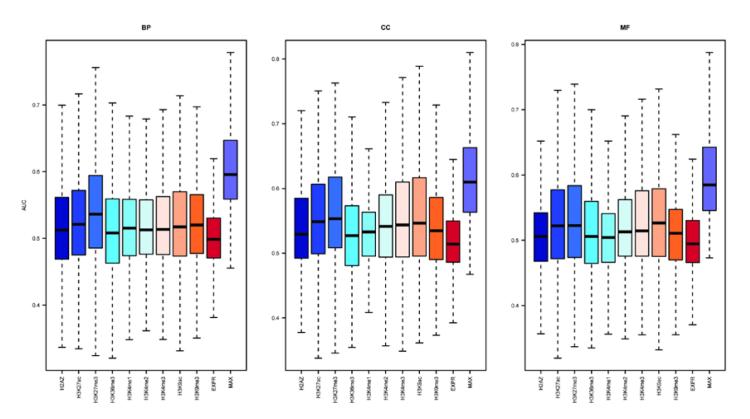


Figure S15 -The prediction power of the models using the signals from different chromatin or expression features using 12 samples.

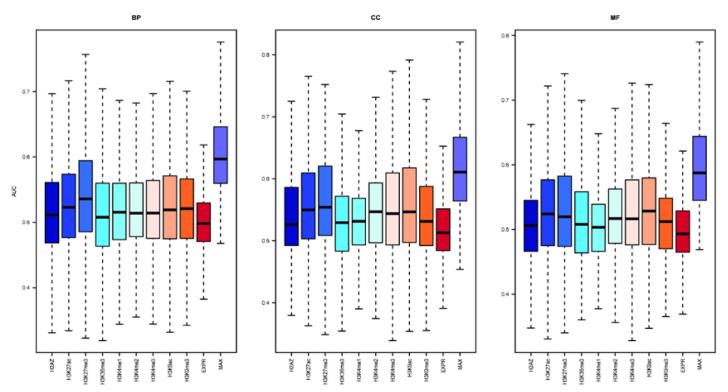


Figure S16 -The prediction power of the models using the signals from different chromatin or expression features using 11 samples.

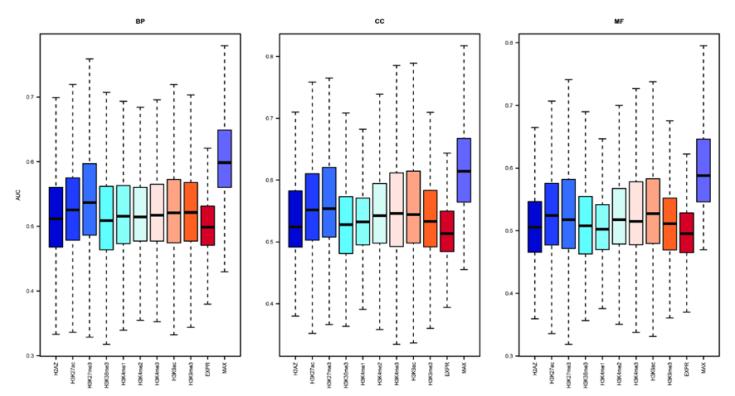


Figure S17 -The prediction power of the models using the signals from different chromatin or expression features using 10 samples.

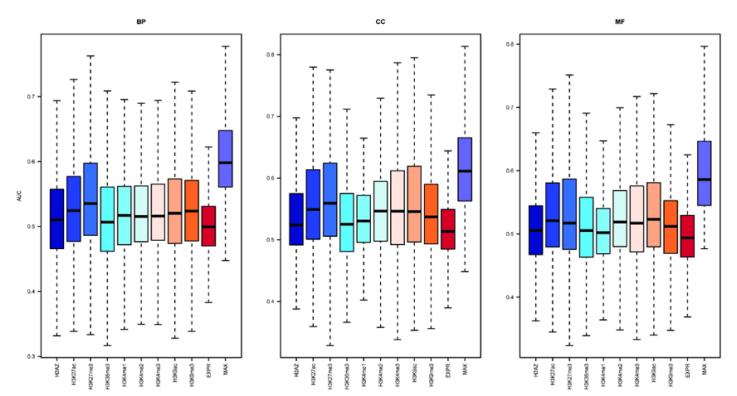


Figure S18 -The prediction power of the models using the signals from different chromatin or expression features using 9 samples.