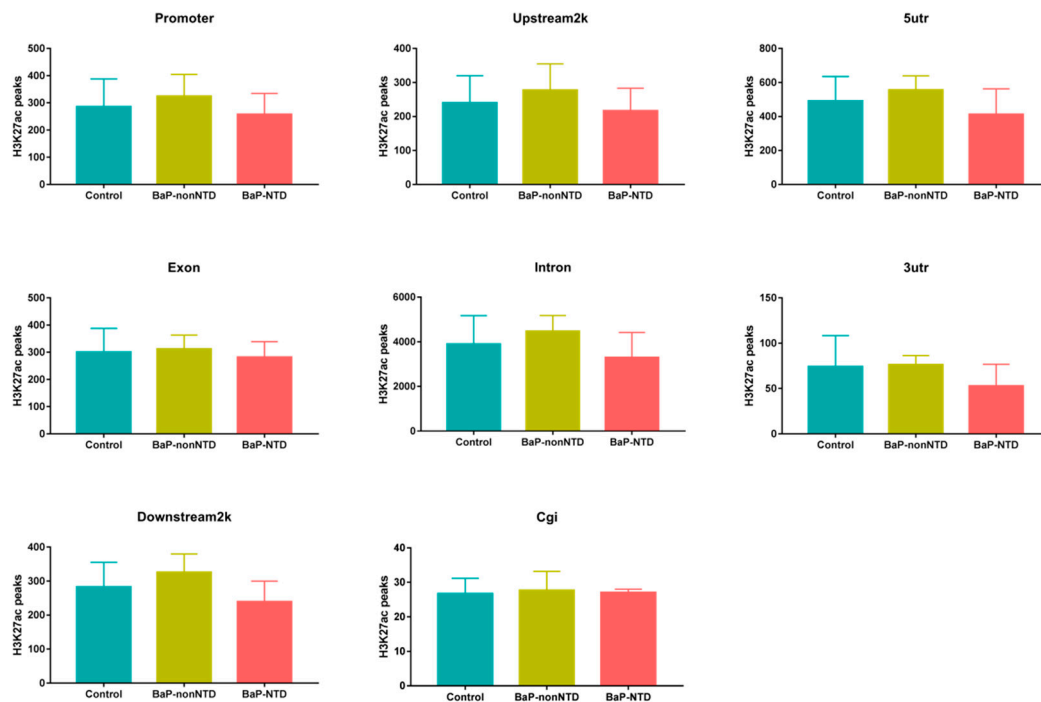
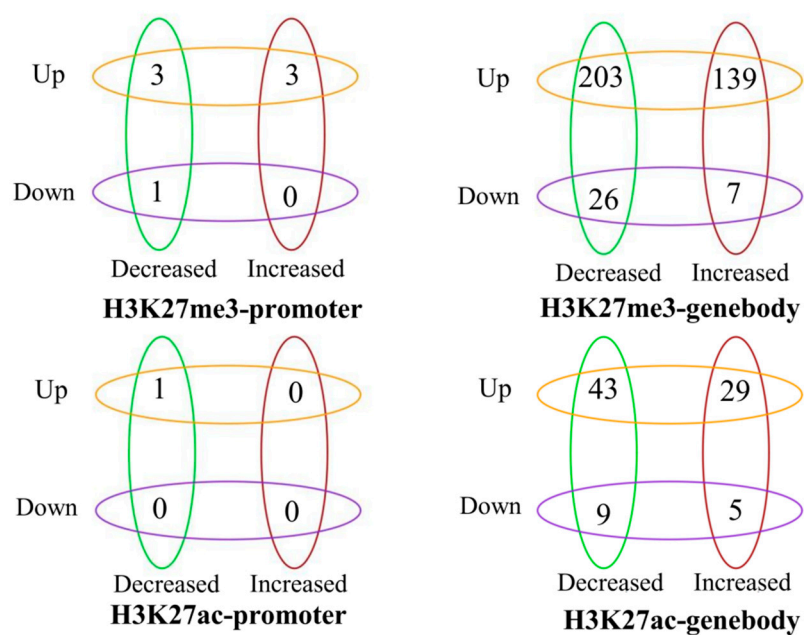


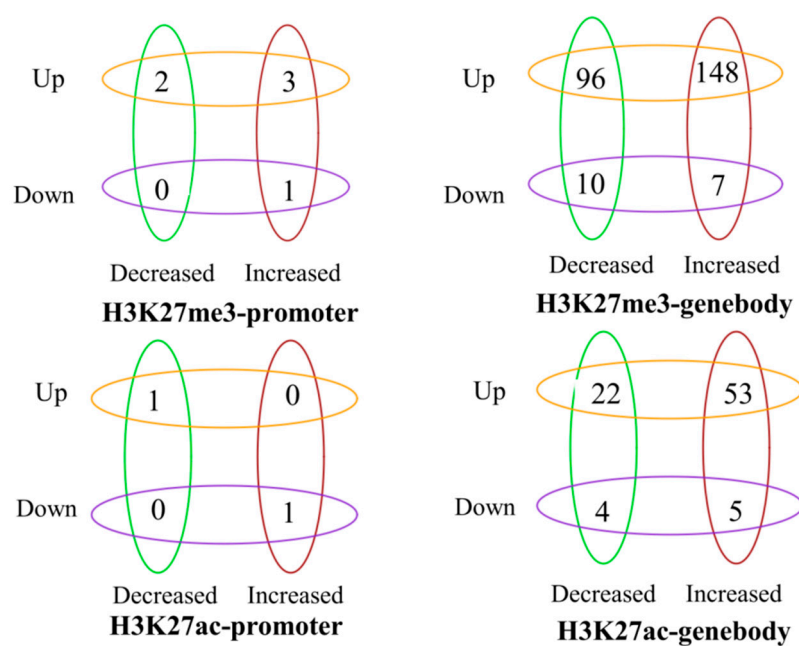
Supplementary figure S1 Genome-wide peak distribution of H3K27me3 in E9.5 embryos with and without neural tube defects. *, p -value < 0.05 , compared to control group.



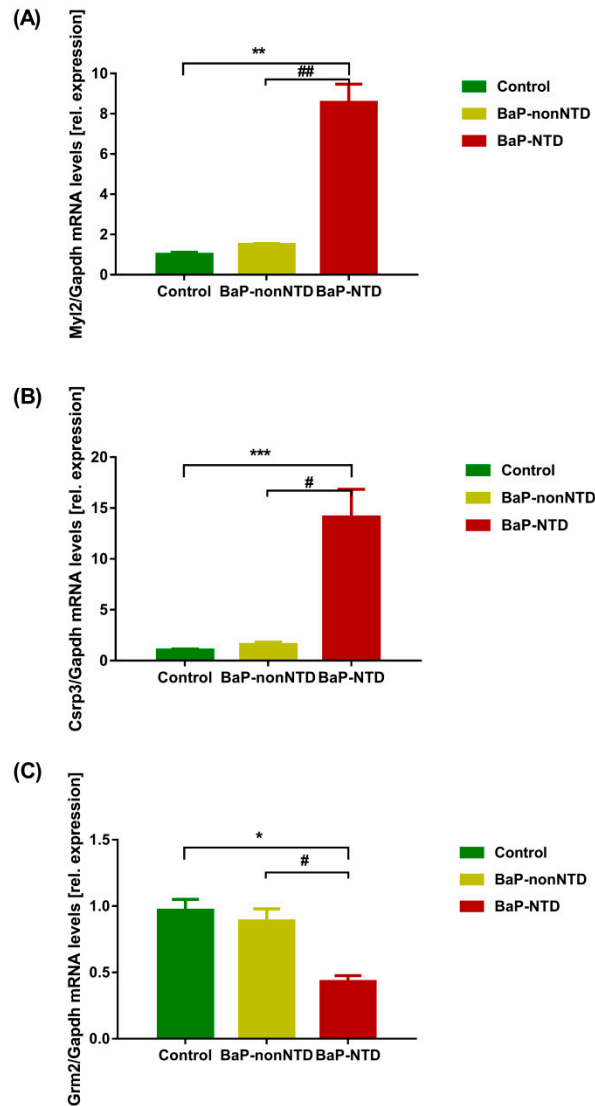
Supplementary figure S2 Genome-wide peak distribution of H3K27ac in E9.5 embryos with and without neural tube defects. *, p -value < 0.05 , compared to control group.



Supplementary figure S3 The relationships between fold change of CUT&Tag signals for H3K27me3/H3K27ac and fold change of gene expressions in BaP-NTD-vs-control comparison.



Supplementary figure S4 The relationships between fold change of CUT&Tag signals for H3K27me3/H3K27ac and fold change of gene expressions in BaP-nonNTD-vs-control comparison.



Supplementary figure S5 Relative expression of mRNA of E9.5 embryos E9.5 embryos with and without neural tube defects by real-time PCR. Data for Myl2, Csrp3 and Grm2 were normalized by Gapdh for each sample (mean \pm SE; n = 3). *, $p < 0.05$ or **, $p < 0.01$ or ***, $p < 0.001$ vs control; #, $p < 0.05$ or ##, $p < 0.01$ or ###, $p < 0.001$ vs BaP-nonNTD.