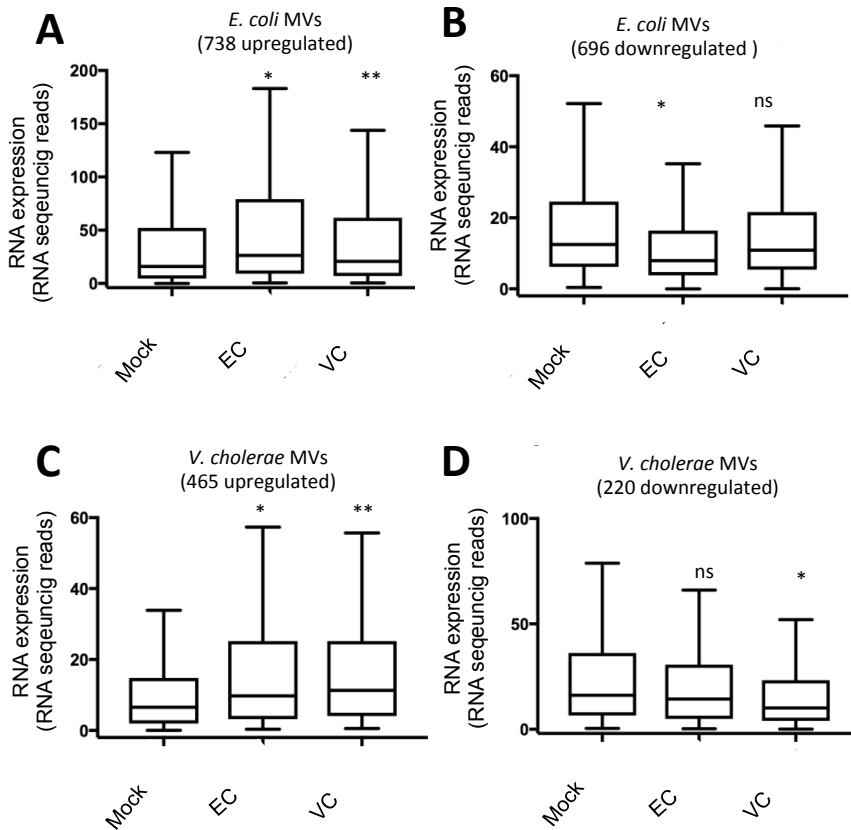


Supplementary Figures

Modulation of gene transcription and epigenetics of colon carcinoma cells by bacterial membrane vesicles

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Supplementary Figure 1



Mann-Whitney U test:

*: MVs *E. coli* (EC) vs mock ($p < 10^{-6}$)

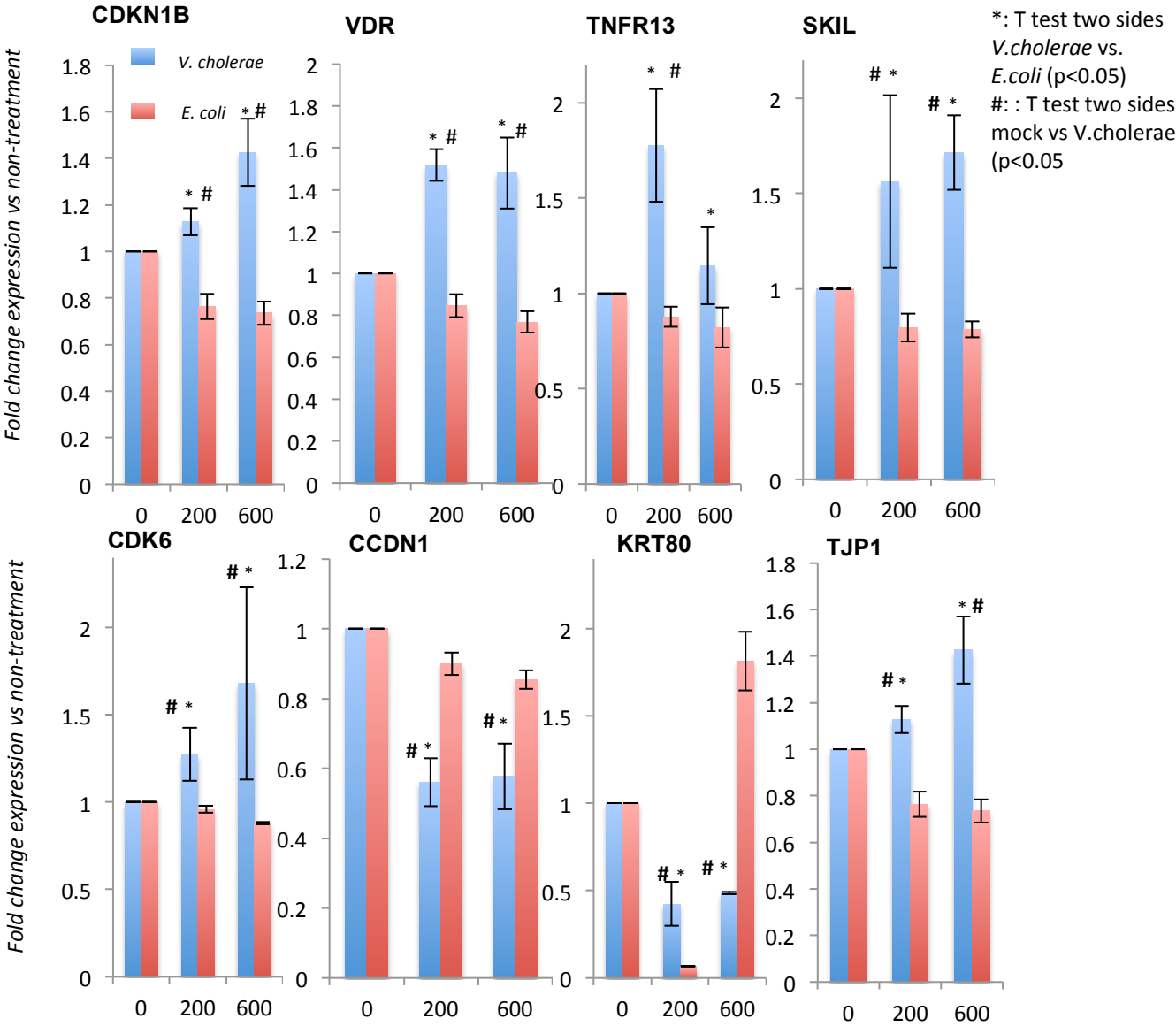
**: MVs *V. cholerae* (VC) vs mock ($p < 10^{-6}$)

ns: not significant

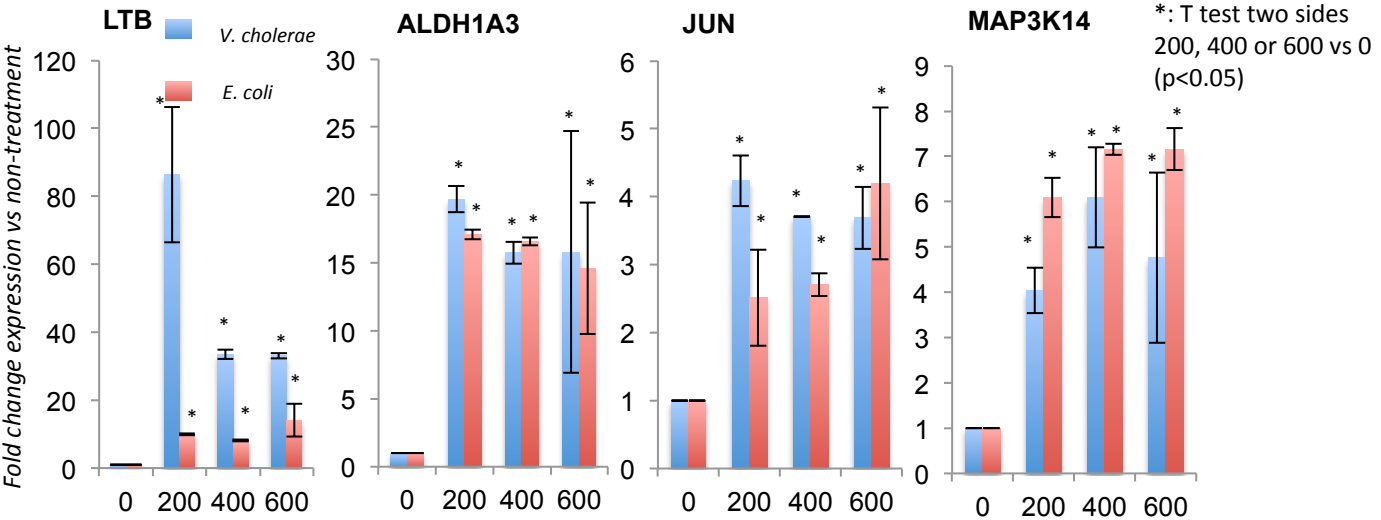
Figure S1. Box-plot indicating the expression of differentially regulated gene transcripts of HCT8 colorectal cancer cell line. A. Up-regulated genes after *E. coli* MV treatment. **B.** Down-regulated genes after *E. coli* MV treatment. **C.** Up-regulated genes after *V. cholerae* MV treatment. **D.** Down-regulated genes after *V. cholerae* MV treatment. Mann-Whitney U test was used to determine statistical differences.

Supplementary Figure 2

A Genes enriched towards GO term: epithelial cell differentiation: RNA expression in HCT8 cells



B *V. cholerae* MVs and *E. coli* up-regulated genes: RNA expression in HCT8 cells



Continuation of Supplementary Figure 2

C Genes enriched towards GO term: epithelial cell differentiation: RNA expression in MCF-7 cells for *Vibrio cholerae* MVs

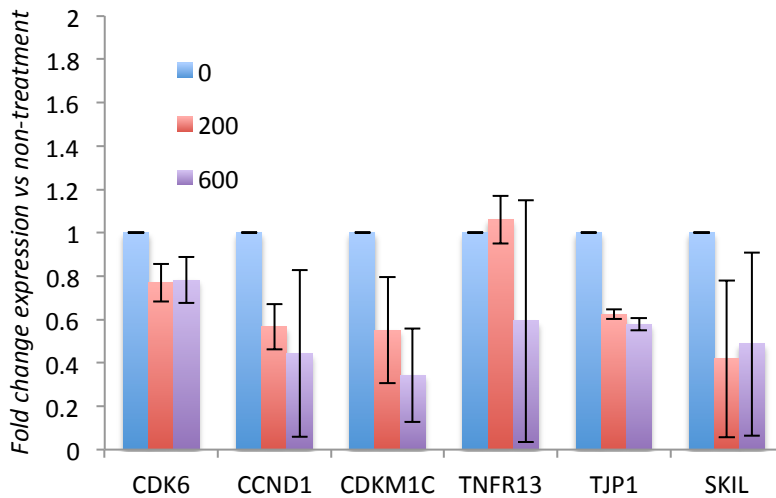
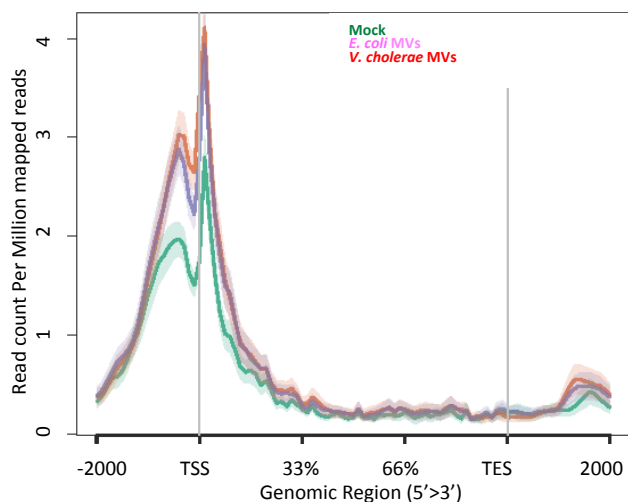


Figure S2. Supplementary information for Figure 1. A. Realtime PCR of gene transcripts enriched towards cell differentiation GO enrichment. The PCR was performed from HCT8 cells co-cultured with different concentrations of MVs from *E. coli* or *V. cholerae* for 5 hours. **B.** Realtime PCR of gene transcripts commonly regulated by MVs from *V. cholerae* or *E. coli*. The PCR was performed from HCT8 cells co-cultured with different concentrations of MVs from *E. coli* or *V. cholerae* for 5 hours. **C.** Realtime PCR of gene transcripts enriched towards cell differentiation GO enrichment. The PCR was performed from MCF-7 cells co-cultured with different concentrations of MVs from *V. cholerae* for 5 hours. The experiments were performed in triplicate and SD is shown.

Supplementary Figure 3

A *V. cholerae* MVs : downregulated genes (220)



B *E. coli* MVs: downregulated genes (696)

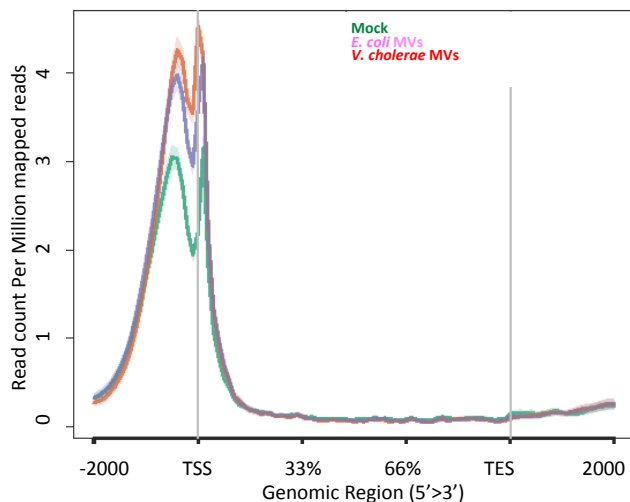


Figure S3. Supplementary information for Figure 2. A. H3K4me3 signal at TSS of down-regulated genes from HCT8 cells co-cultured with MVs from *V. cholerae*. **B.** H3K4me3 signal at TSS of downregulated genes from HCT8 cells co-cultured with MVs from *E. coli*.