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**Supplementary Figure S1** The characteristics of differentially methylated probes (DMPs). **A-B.** The distribution of DMPs in featured regions. **C-D.** The distribution of DMPs in CpG regions.

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**Supplementary Figure S2** The venn plot showed the hyper- and hypomethylated PDMPs in 4 alcohol-associate cancers.

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**Supplementary Figure S3** The distribution of PDMPs in featured (**A and B**) and CpG regions (**C and D**).

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**Supplementary Figure S4** The beta values of CpG probes in CpG island: *chr19:58220189-58220517* in 4 alcohol-associated cancers.

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**Supplementary Figure S5** The beta values of CpG probes in CpG island: *chr19:58220189-58220517* in GSE123781.

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**Supplementary Figure S6** The beta values of CpG probes in CpG island: *chr19:58220189-58220517* were divided into 4 groups based on tissue origin and alcohol consumption.

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**Supplementary Figure S7** The Pearson Coefficient Correlations (PCCs) were estimated between PDMPs and the closet 10 upstream/downstream genes separately.