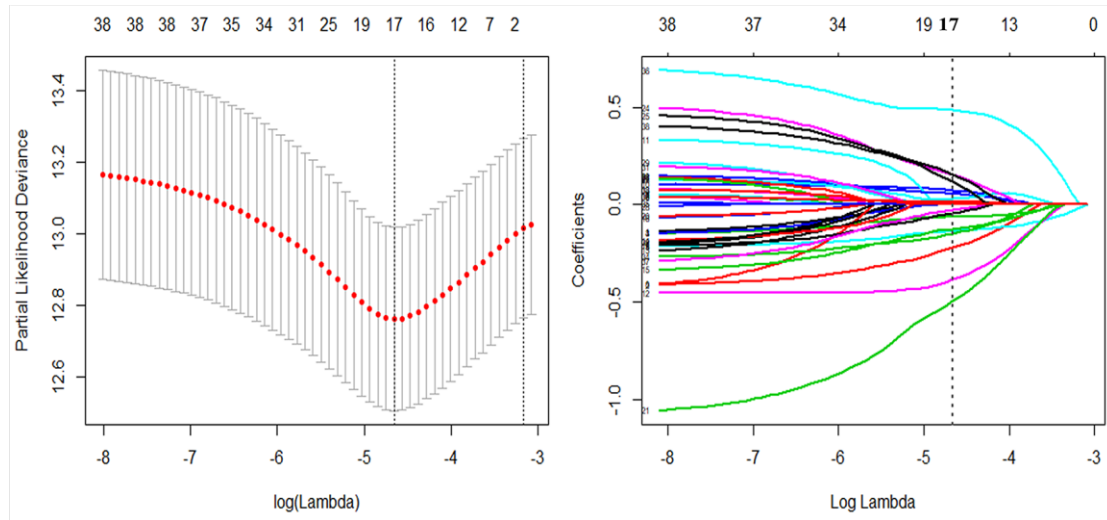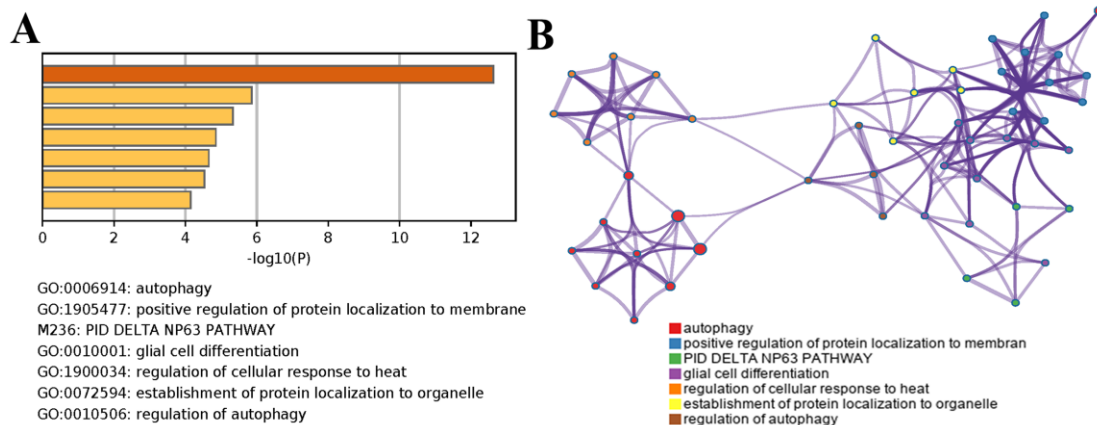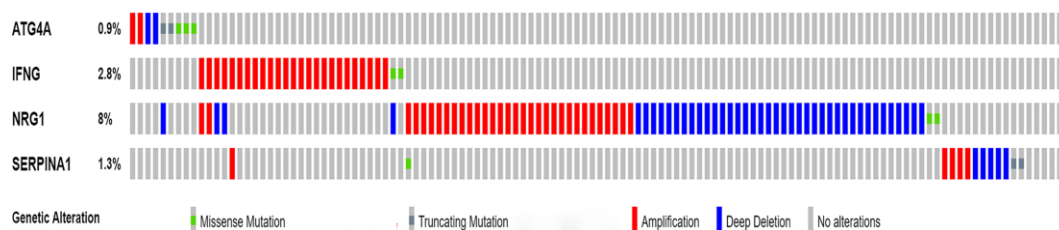**Supplementary Figure 1**. The least absolute shrinkage and selection operator (LASSO) algorithms to identify the ARGs signature in the training cohort



**Supplementary Figure 2**. Functional enrichment analysis of the 17 ARGs in the Metascape database **(A)** The 7 enrichment terms. **(B)** The network of the enrichment terms.



**Supplementary Figure 3**. Genetic alterations of the four ARGs in TCGA database.

**Supplementary Figure 4**. Visualization of the relationship between the four ARGs and DNA methylation in TCGA database via the MEXPRESS tool