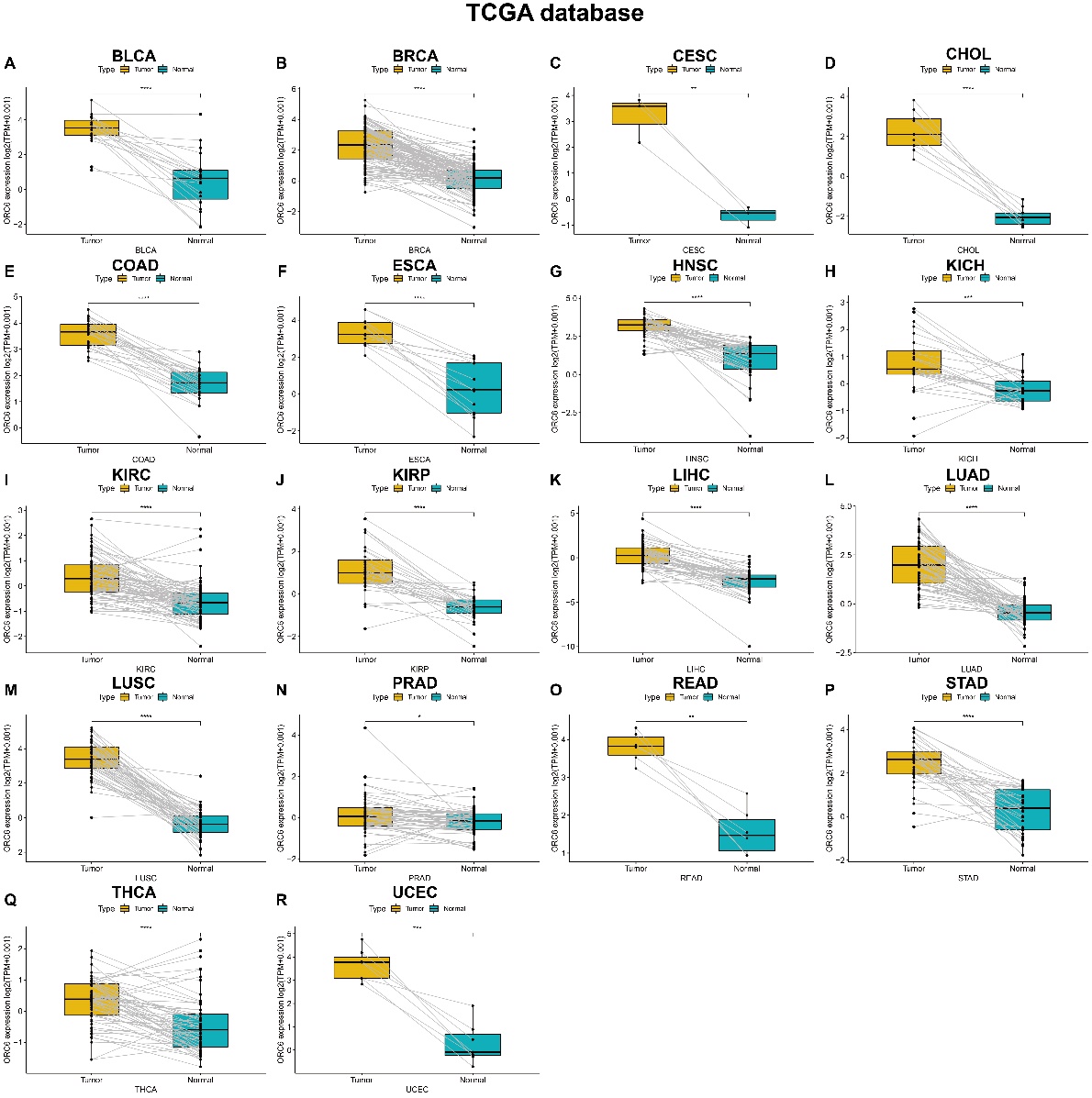
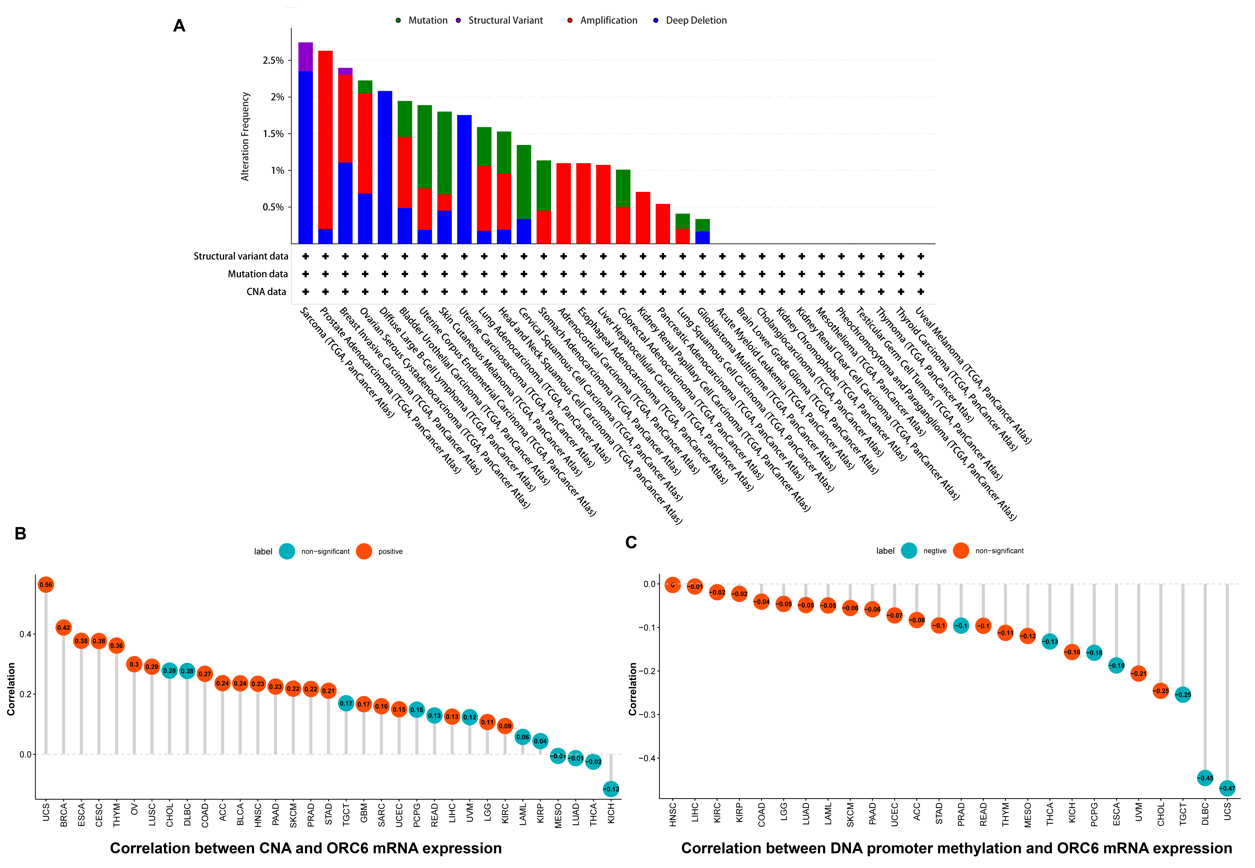
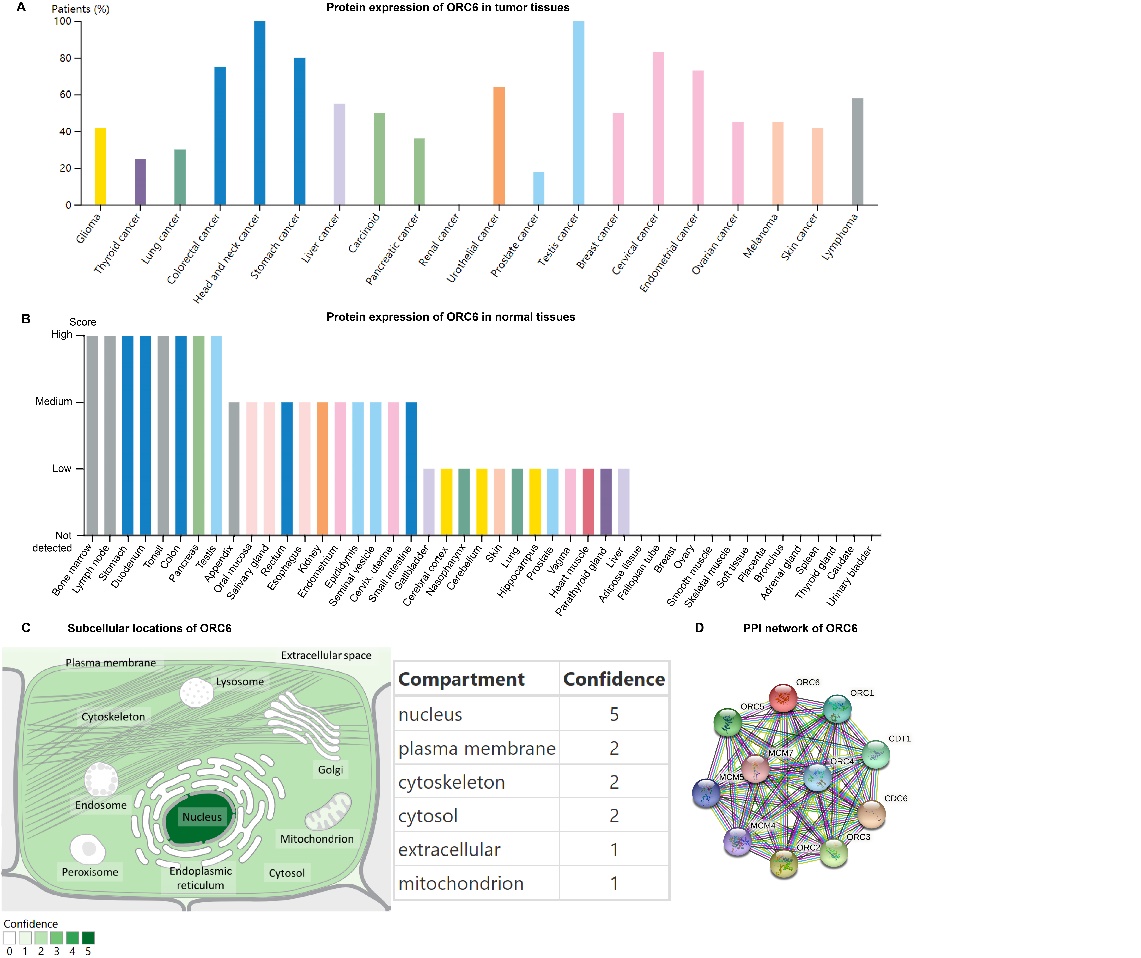
Supplementary Material

# Supplementary Figures

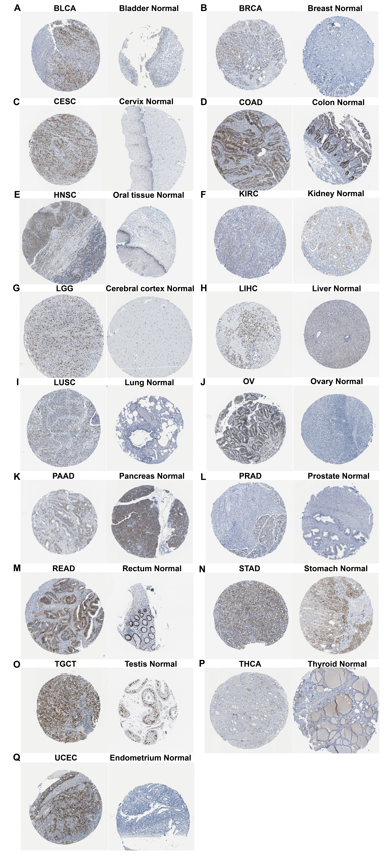


**Supplementary Figure 1.** **Pan-cancer paired ORC6 mRNA expression level. (A–R)** ORC6 mRNA expression level in tumor tissues and corresponding normal adjacent tissues from TCGA database. \*p < 0.05, \*\*p < 0.01, \*\*\*p < 0.001, \*\*\*\*p < 0.0001. Statistically non-significant results are not shown.

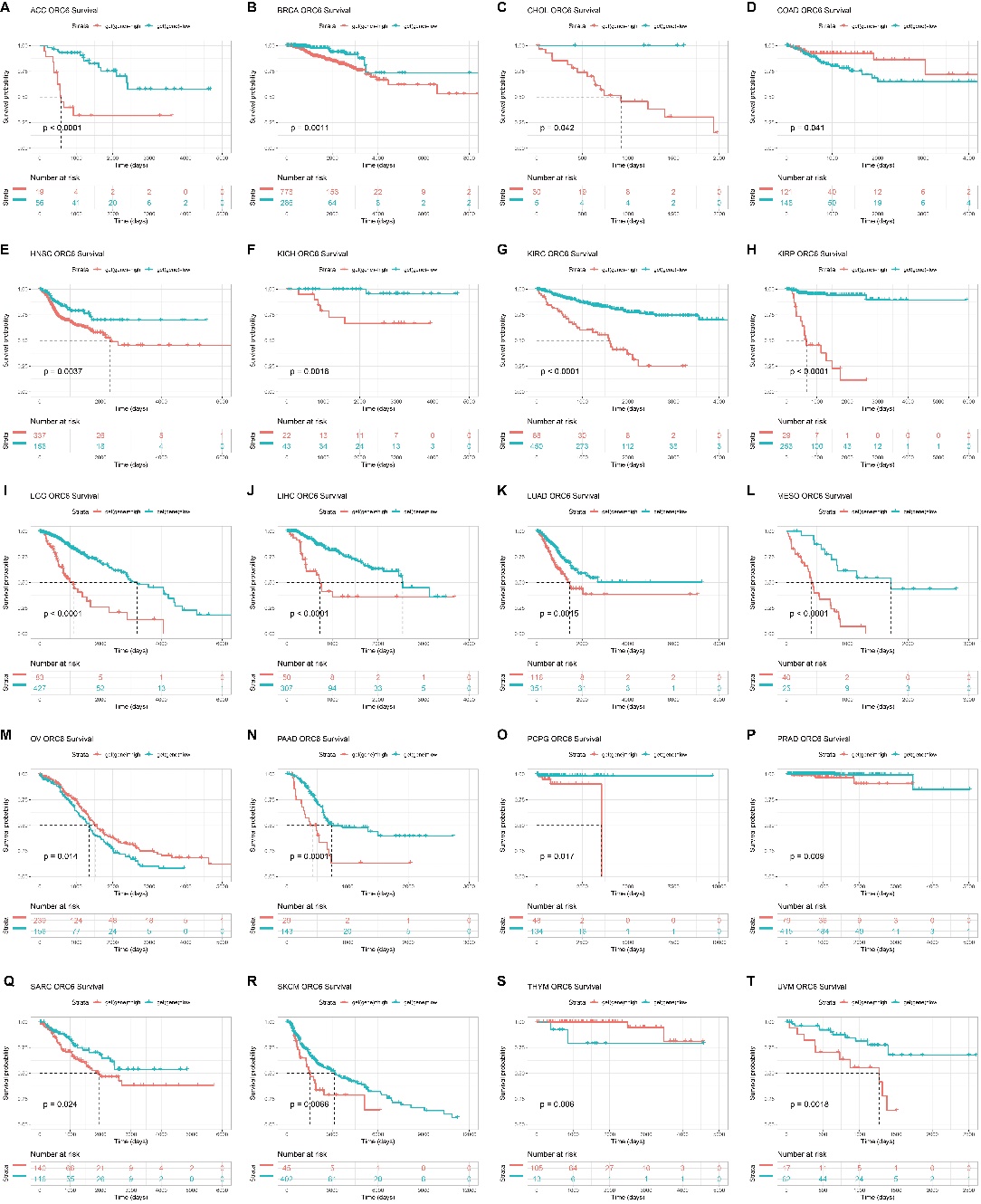
**Supplementary Figure 2.** **Genetic Alterations of *ORC6* in pan-cancer. (A)** The alteration frequency with mutation type of *ORC6* using cBioPortal database. **(B)** Correlation between CNA and *ORC6* mRNA expression. **(C)** Correlation between DNA promoter methylation and *ORC6* mRNA expression.



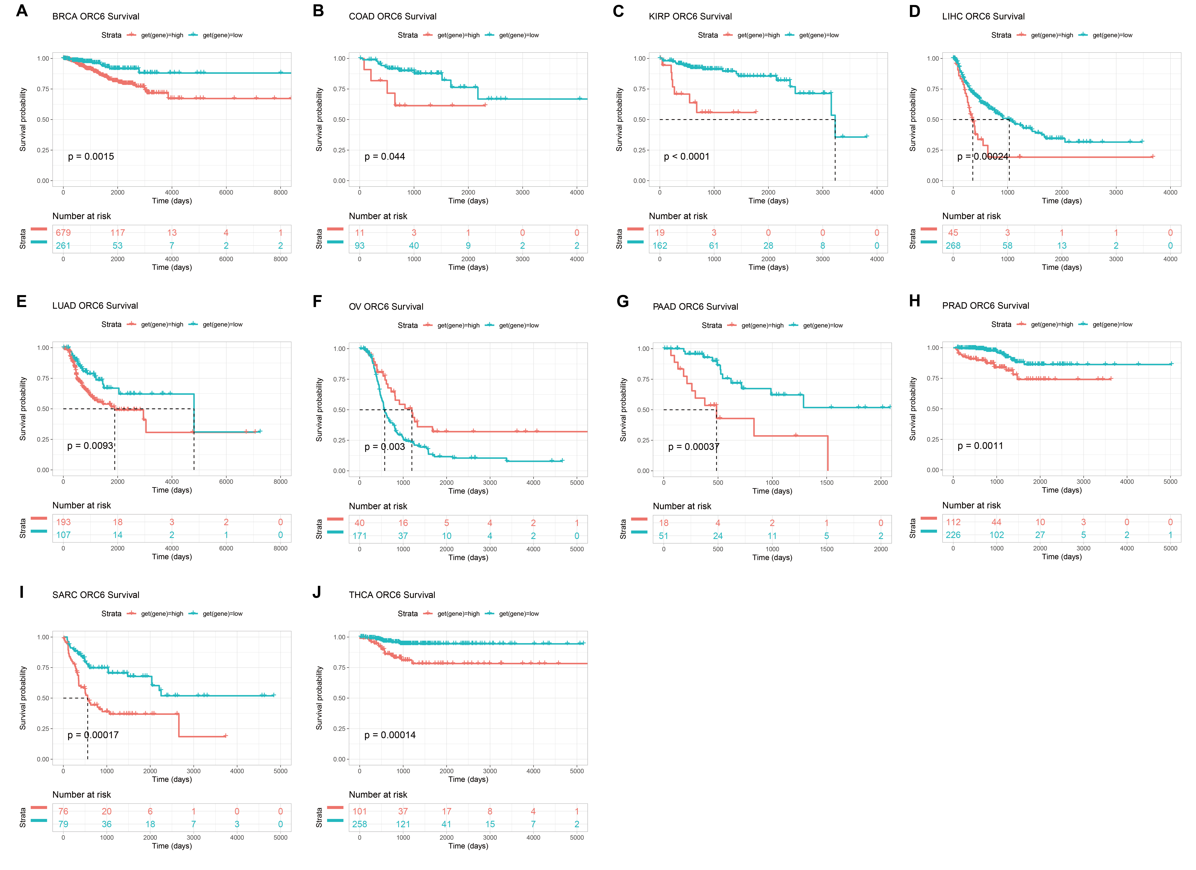
**Supplementary Figure 3. Protein expression, subcellular locations, and protein–protein interaction (PPI) network of ORC6. (A)** ORC6 protein expression in various tumor tissues using IHC staining data from the HPA database. **(B)** ORC6 protein expression level in indicated normal tissues using IHC staining data from the HPA database. **(C)** Subcellular locations of ORC6. **(D)** PPI network of ORC6 using pan-cancer data obtained from STRING.

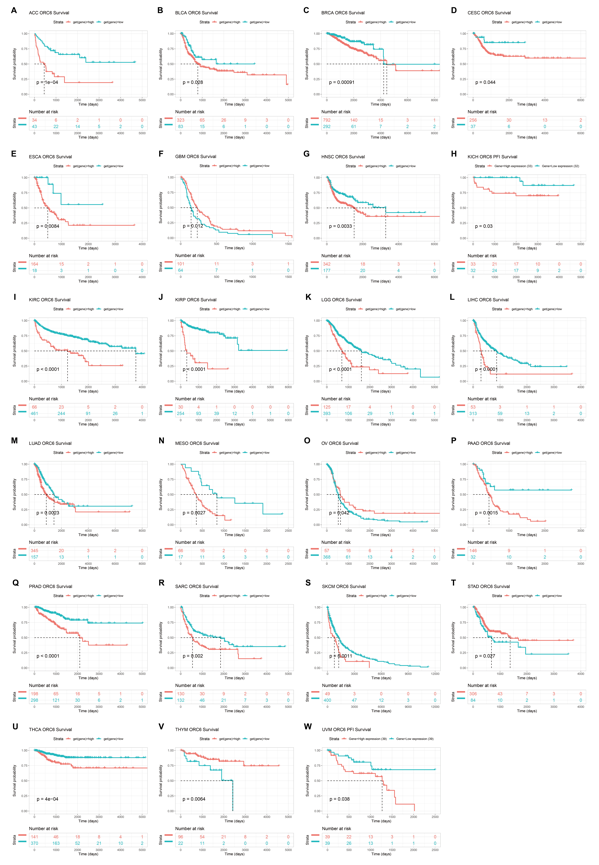


**Supplementary Figure 4. Immunohistochemical staining results of ORC6 in indicated tumor tissues and normal tissues from Human Protein Atlas.**

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**Supplementary Figure 5.** **Disease-specific survival (DSS) Analysis dependent on ORC6 expression. (A–T)** Kaplan-Meier curves of DSS in diverse types of cancers from TCGA database. Statistically non-significant results are not shown.

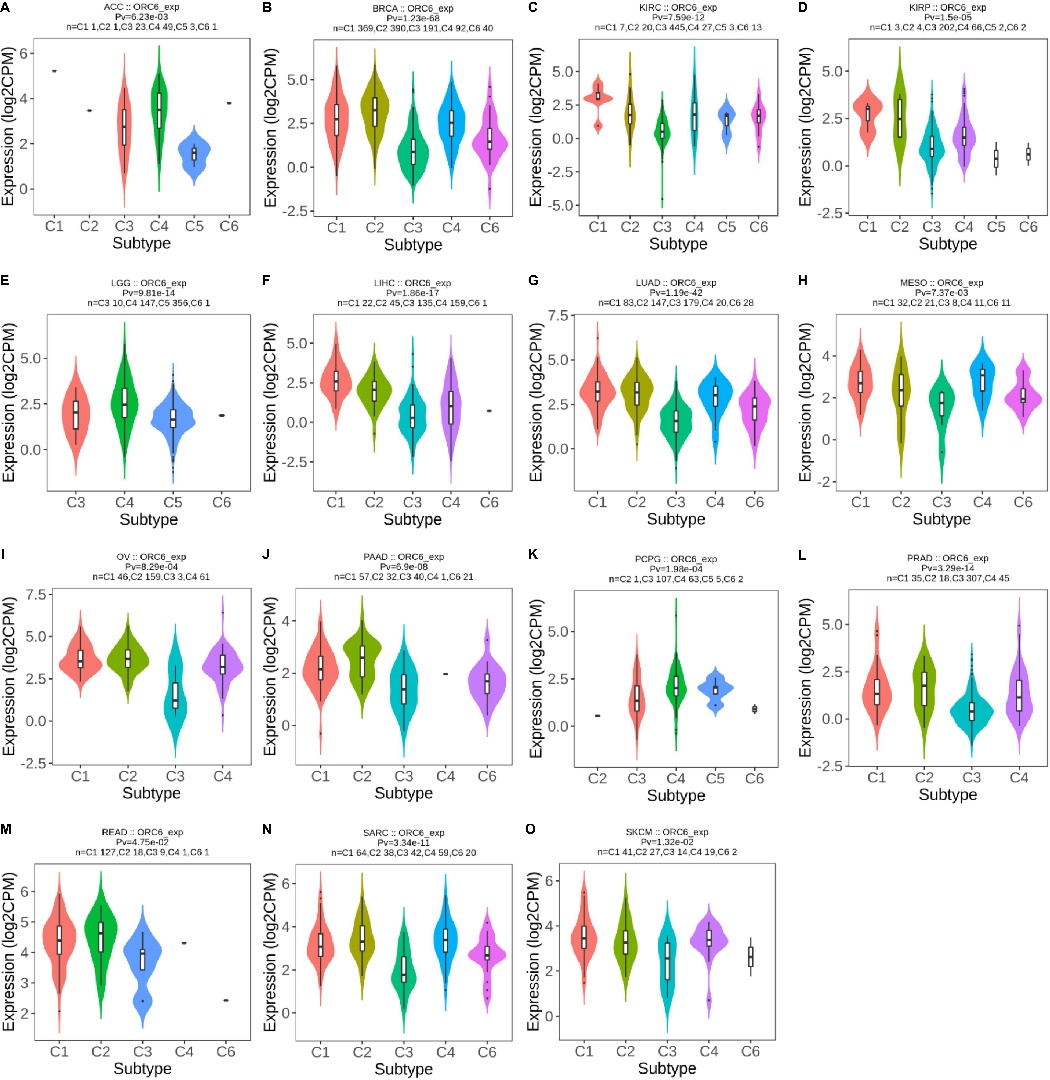
**Supplementary Figure 6. Correlation between ORC6 expression and disease-free interval (DFI).** **(A–W)** Kaplan-Meier curves of DFI in 33 The Cancer Genome Atlas tumor types. Statistically non-significant results are not shown.

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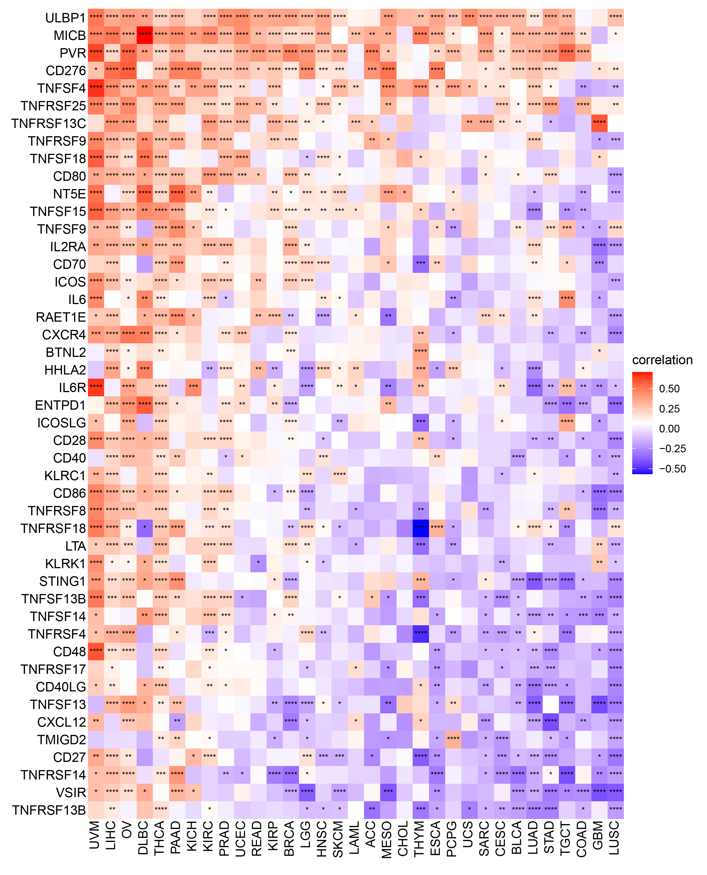
**Supplementary Figure 7. Correlation between ORC6 expression and progression-free interval (PFI).** **(A–J)** Kaplan-Meier curves of PFI in 33 The Cancer Genome Atlas tumor types. Statistically non-significant results are not shown.

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**Supplementary Figure 8. Gene set enrichment analysis (GSEA) of ORC6 across cancers. (A–S)** Kyoto Encyclopedia of Genes and Genomes results of *ORC6* GSEA in indicated tumor types using The Cancer Genome Atlas pan-cancer data.



**Supplementary Figure 9. Association between *ORC6* expression level and immune subtypes across tumors. (A-O)** *ORC6* expression level in different immune subtypes usingTISIDB database. Statistically non-significant results are not shown.



**Supplementary Figure 10. Correlation between ORC6 expression and immunostimulatory genes across cancers in The Cancer Genome Atlas.**