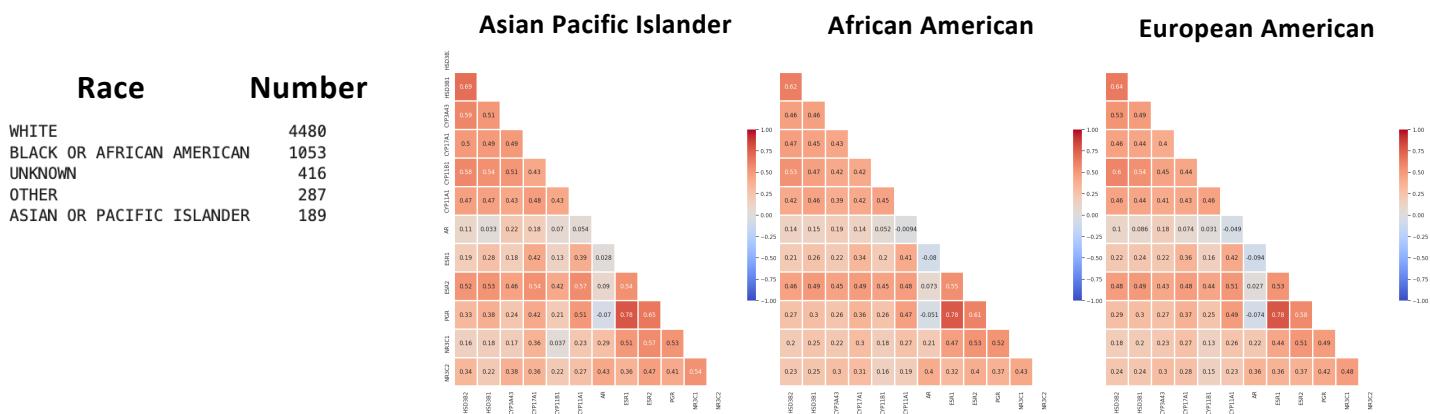
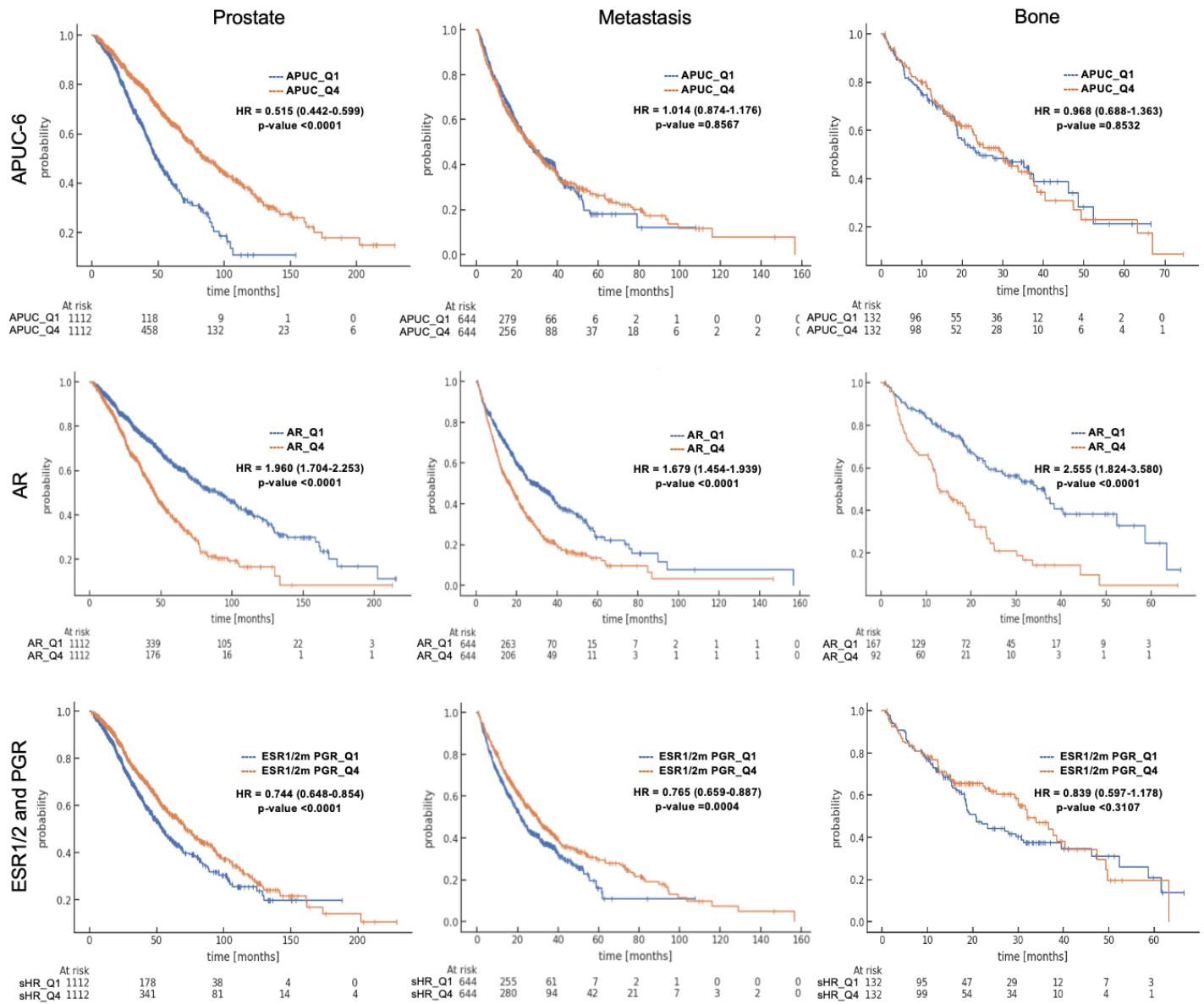


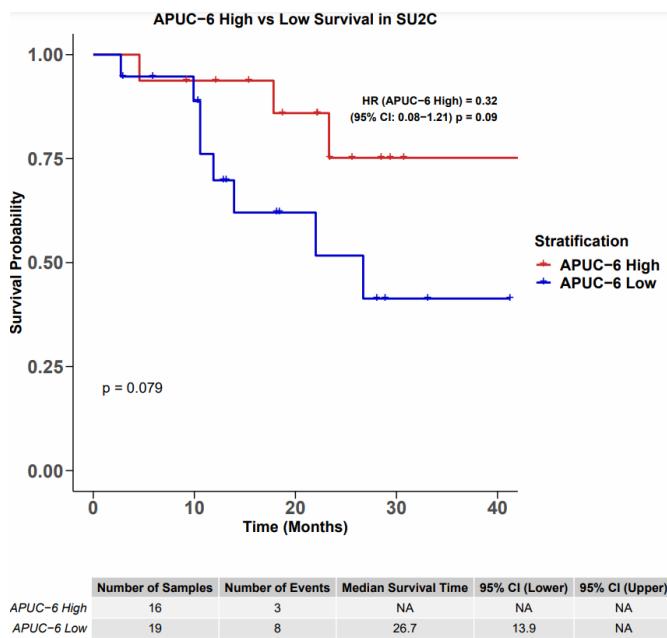
Supplemental Figure 1. (A) AR amplification status (no/low/high amplifications) was examined based on metastatic tumors as stratified by APUC-6 high and low status. Wilcoxon tests was applied to determine if there is a significant difference between the two groups. (B and C) The testosterone levels and RNA-seq data were collected from tumors formed from C4-2 xenografts from our prior study Li et al. 2023. The testosterone levels (B) and the average APUC-6 gene expression (C) is shown based on the 4 replicates in each experimental arm.



Supplemental Figure 2. Based on WTS from the Caris database, we examined the Spearman correlation between APUC-6 genes, AR, ESR1, ESR2, PGR, GR (NR3C1), and MR (NR3C2) based on biopsy sites. The number of samples are indicated based on self-reported race.



Supplemental Figure 3. Caris samples were stratified based on the aggregate expression of APUC-6, AR, or alternative hormone receptors (ESR1, ESR2, and PGR). Kaplan-Meier analysis was used to depict the effects on OS between each of the gene sets as compared to the control group.



Supplemental Figure 4. Of the metastatic PC samples from Abida et al. 2019, we stratified patients by APUC-6 expression high and low. The samples with available survival data were subsequently analyzed through Kaplan Meier curves.

	No treatment	ADT	Differential Score
<i>HSD3B2</i>	1.35	1.29	-0.06
<i>HSD3B1</i>	-0.94	3.03	3.96
<i>CYP3A43</i>	0.00	0.36	0.36
<i>CYP17A1</i>	-0.72	0.62	1.34
<i>CYP11B1</i>	-1.25	-0.34	0.90
<i>CYP11A1</i>	-0.77	-0.46	0.31
<i>CYP17A1</i>	-0.72	0.62	1.34
AVERAGE, APUC-6	-0.43	0.73	1.16
GLOBAL AVERAGE	0.00	0.06	0.06

Supplemental Table 1.