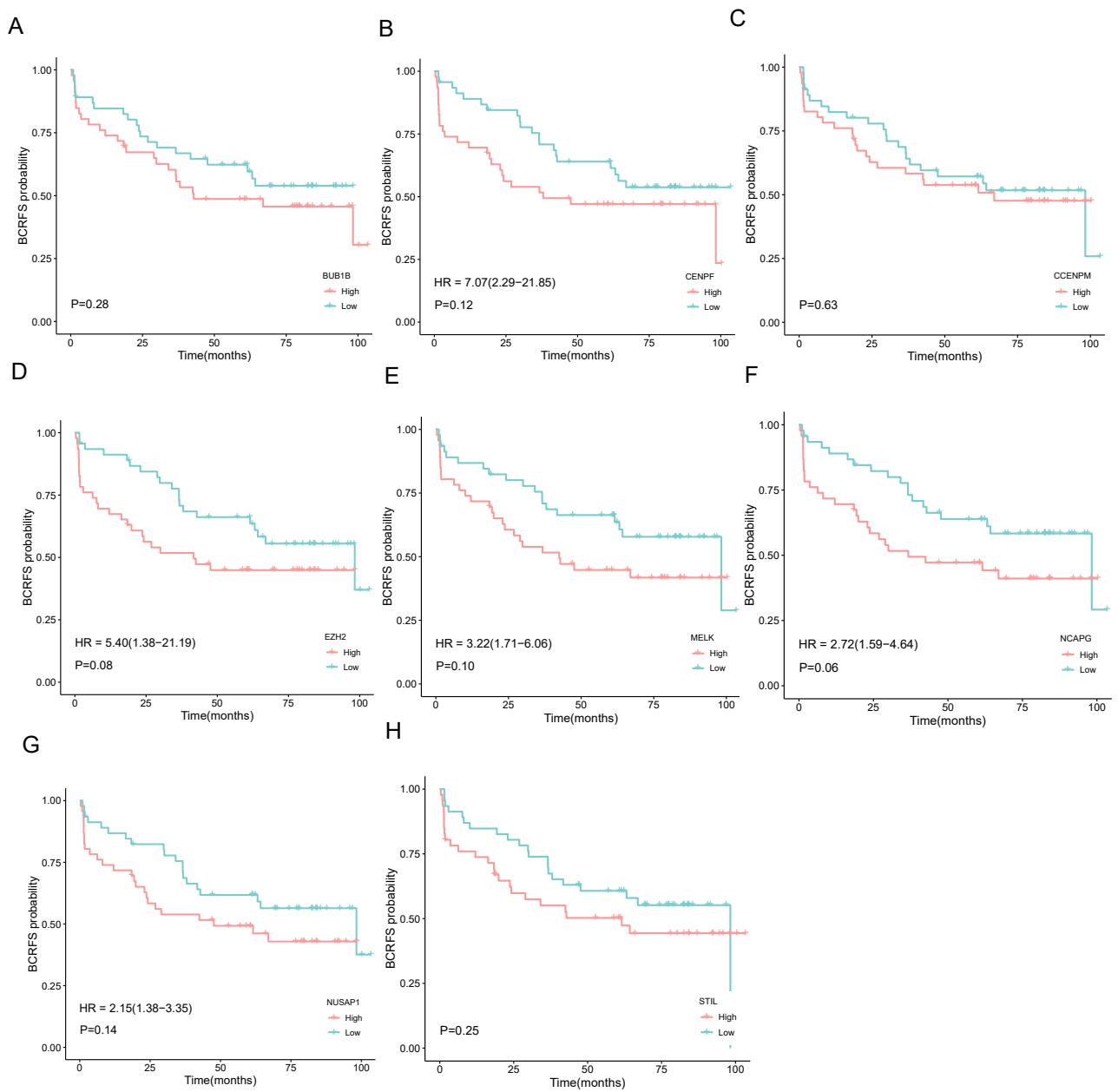


**Figure S1** The remaining 8 hub-key genes (A-H) in the Kaplan-Meier curves of BCRFS in TCGA-PRAD.



**Figure S2** The remaining 8 hub-key genes (A-H) in the Kaplan-Meier curves of BCRFS in GSE70769.

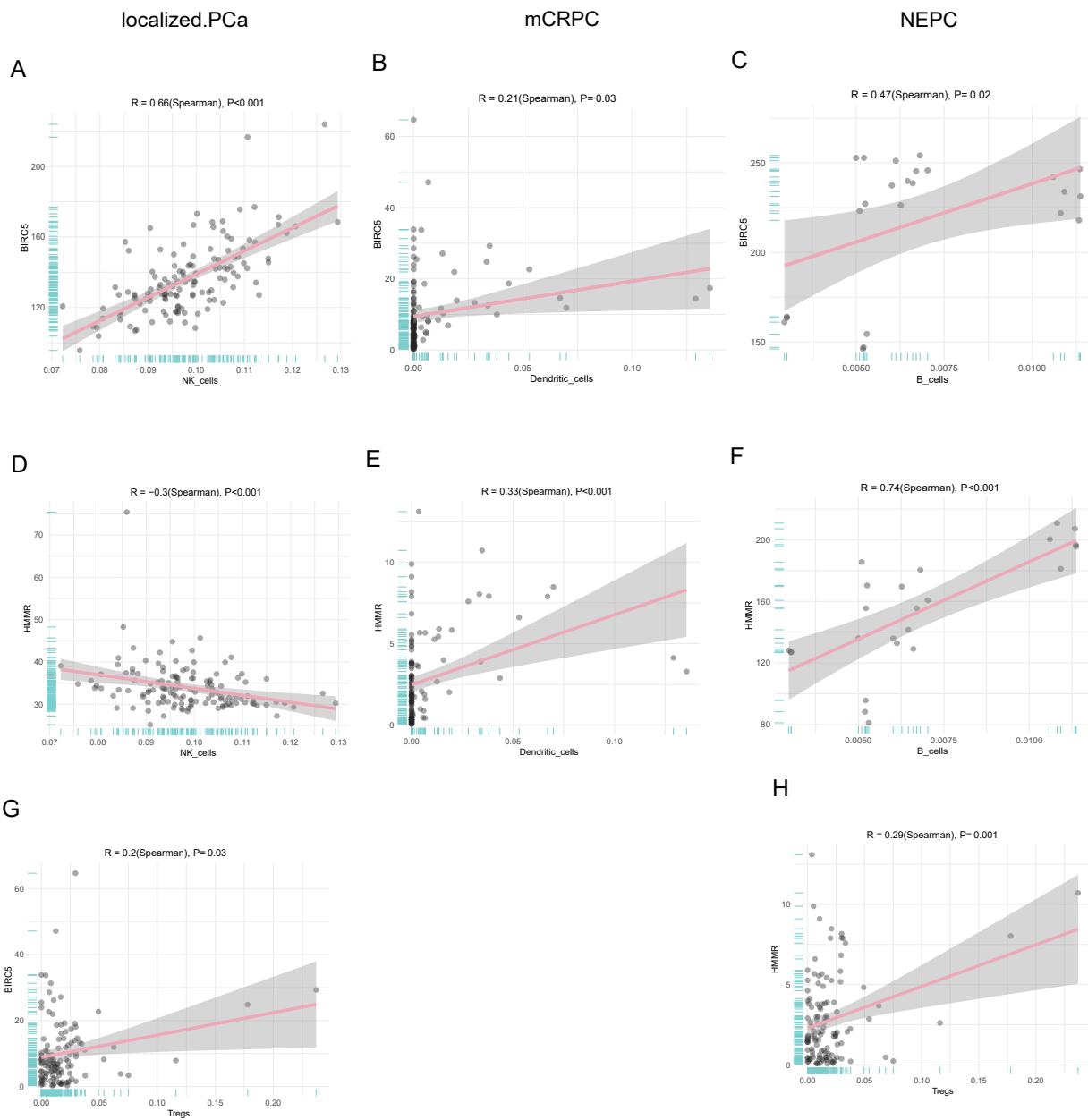


Figure S3 Correlation analysis of BIRC5 and HMMR expression with the infiltration of NK cell, Dendritic cell, B cell, and Treg. (A-C) Correlation analysis of BIRC5 expression with the infiltration levels of NK cell, Dendritic cell, and B cell in distinct PCa subgroups using the quanTIseq algorithm. (D-F) Correlation analysis of HMMR expression with the infiltration levels of NK cell, Dendritic cell, and B cell in distinct PCa subgroups using the quanTIseq algorithm. (G,H) Correlation analysis of BIRC5 and HMMR expression with the infiltration levels of Treg in mCRPC using the quanTIseq algorithm.