

**Figure S1** Data preprocessing. (A) All 160 common DEGs (154 upregulated genes and 6 downregulated genes). (B1) 89 DEGs are selected from 160 genes following a module analysis of the PPI network. (B2) The Cytoscape MCODE plug-in selected 19 genes. The red-gene models denote the selected genes. (B3) The prognostic information of the 19 key candidate genes. (C) Validation of 8 genes via R package. (D) 2 DEGs (*PRKCB* and *CYP1B1*) were identified and significantly enriched in the microRNAs in the cancer pathway. DEG, differentially expressed gene; PPI, protein-protein interaction; SKCM, skin cutaneous malignant melanoma.

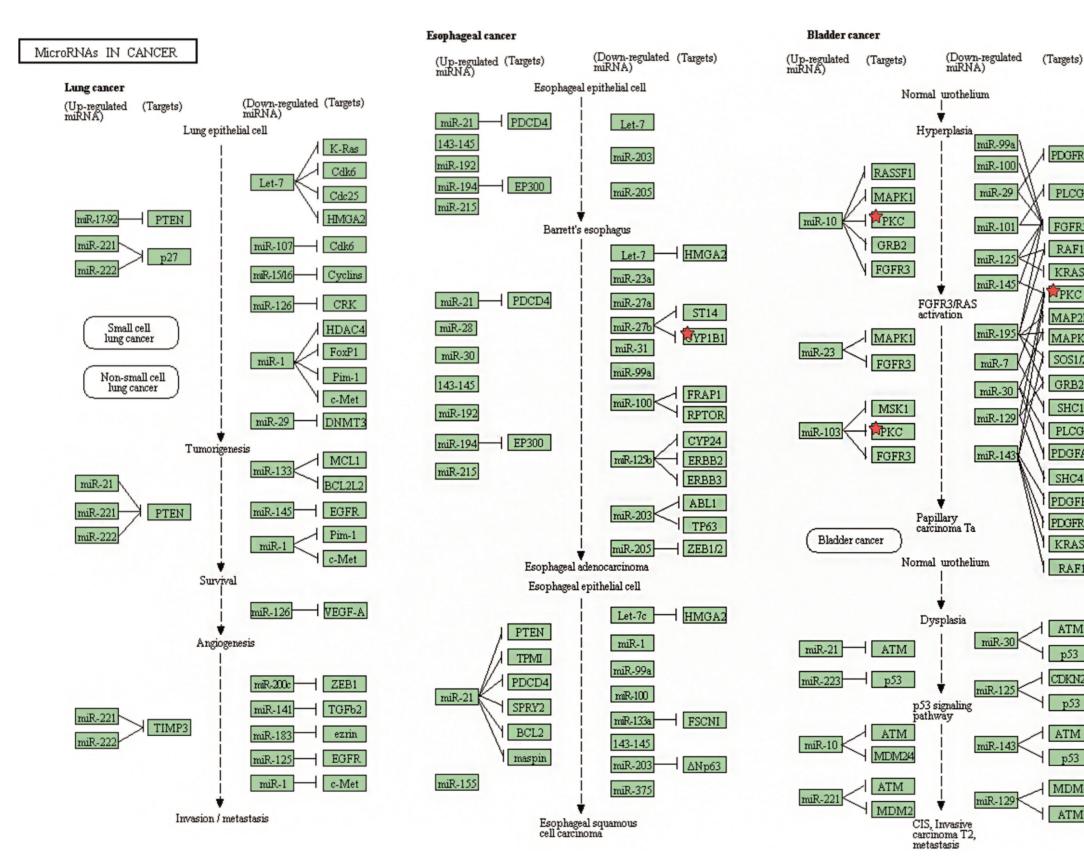


Figure S2 PRKCB and CYP1B1 were enriched in microRNAs in the cancer pathway. PKC refers to PRKCB.

PDGFRA

PLCG

FGFR3

RAF1

KRAS

**T**PKC

MAP2K

MAPK1

SOS1/2

GRB2

SHC1

PLCG

PDGFA

SHC4

PDGFB

PDGFRB

KRAS

RAF1

ATM

p53

CDKN2A

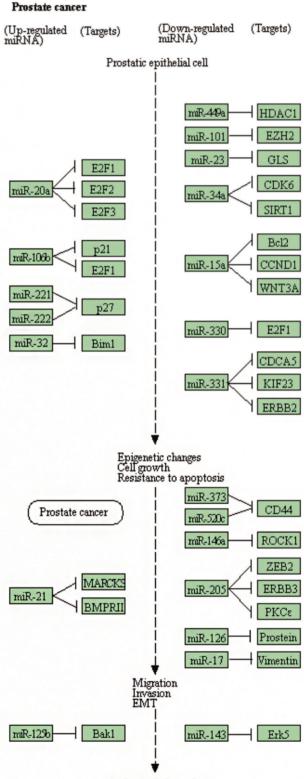
p53

ATM

p53

MDM4

ATM



Androgen independent growth