Supplementary

Table S1 Difference in the DNA methylation between KIRC and KIRP normal

Sites	KIRP(N)_mean	KIRC(N)_mean	KIRP(N)_median	KIRC(N)_median	diff_mean	diff_median	P-value	FDR
cg22274117	0.43	0.43	0.43	0.43	0.00	0.00	0.82	0.82
cg20740711	0.88	0.87	0.88	0.88	-0.01	0.00	0.30	0.34

diff_mean: KIRC(N)_mean minus KIRP(N)_mean; diff_median: KIRC(N)_median minus KIRP(N)_median

Table S2 Characteristics of 15 methylation markers and their corresponding genes in RCC diagnosis and prognosis

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Sample	Marker	Ref Gene	Diagnosis	Prognosis
Normal	cg20740711	Intergenic	\checkmark	
	cg22274117	ATXN1	\checkmark	
KIRC	cg09643398	BCL6	\checkmark	
	cg23264429	STAMBPL1	\checkmark	\checkmark
	cg03290131	DUSP5	\checkmark	
	cg16284684	C7orf50	\checkmark	
	cg24170040	EGLN3	\checkmark	\checkmark
	cg08163918	SHMT2	\checkmark	\checkmark
KIRP	cg06215107	LRBA	\checkmark	\checkmark
	cg22571393	ATP11A	\checkmark	\checkmark
	cg08223003	NDRG1	\checkmark	\checkmark
	cg12496156	TNS1	\checkmark	\checkmark
	cg16283183	LIMD1	\checkmark	\checkmark
	cg05548488	ΜΑΡΚΑΡΚ3	\checkmark	\checkmark
	cg23528791	CNKSR3	\checkmark	\checkmark

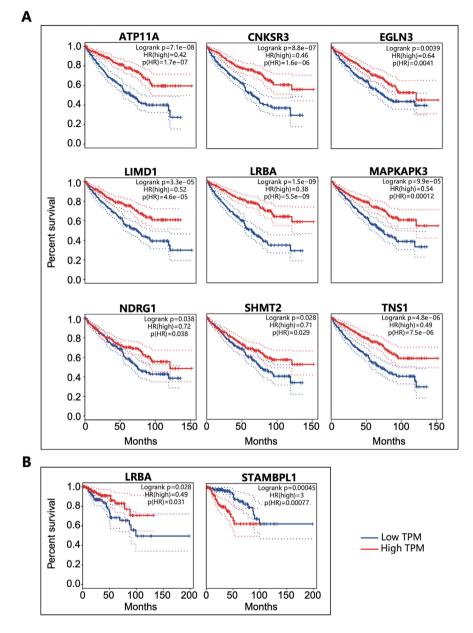


Figure S1 The genes DNA methylation markers located could predict the prognosis of KIRC and KIRP. Ten genes were associated with the prognosis of KIRC and KIRP; 9 of 10 genes improved the predictive ability of KIRC (A), n(high)=258, n(low)=258, and 2 of 10 genes had value for predicting the prognosis of KIRP (B), n(high)=141, n(low)=141. LRBA could be used as a shared predictive factor for the prognosis of KIRP and KIRP.