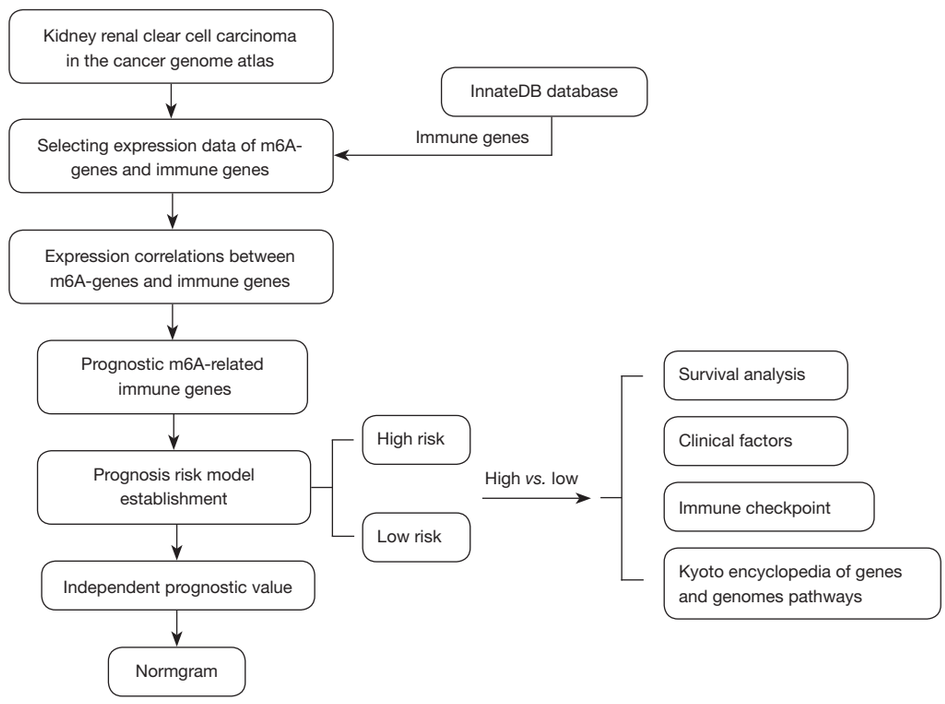

Figure S1 The workflow of this study.

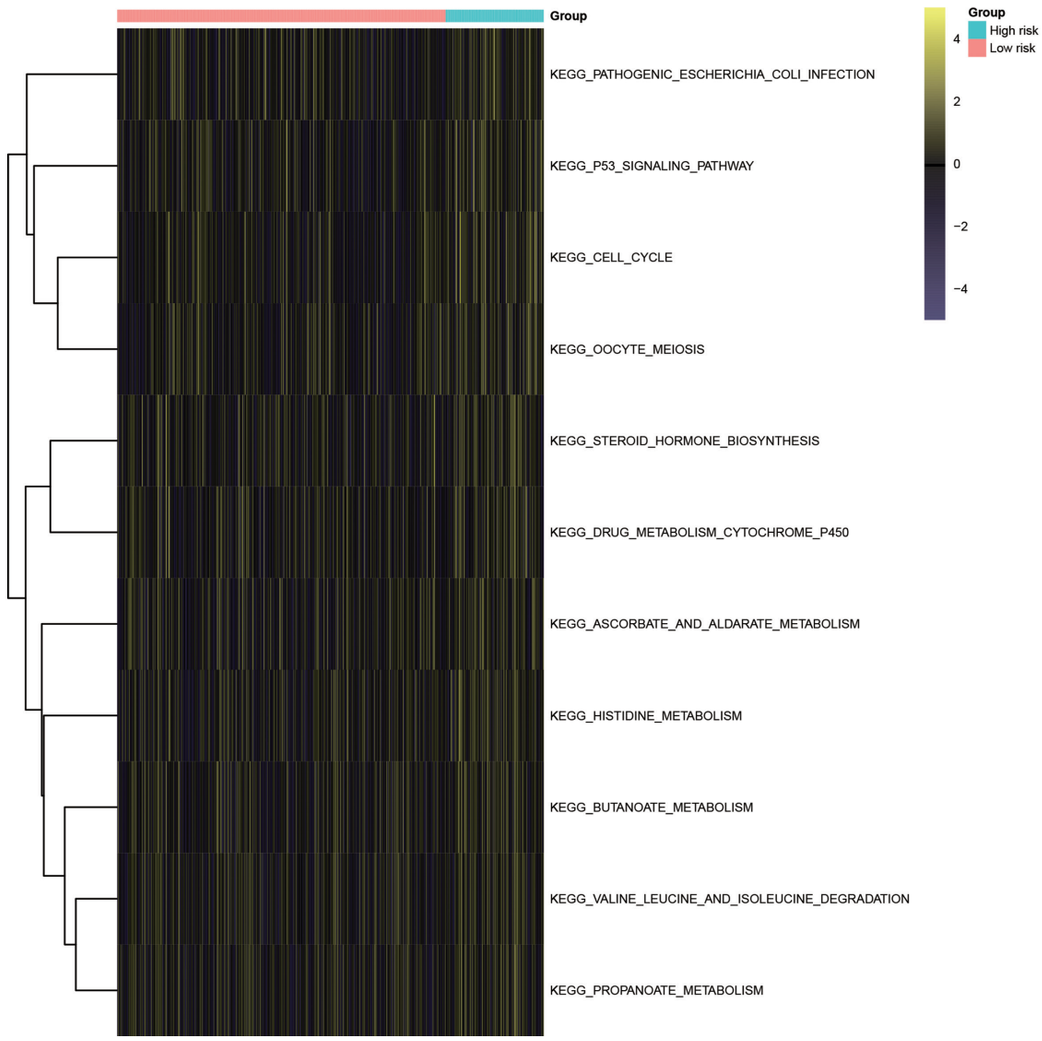

Figure S2 Heatmap shows the results of gene set variation analysis.

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Table S1 The 85 prognostic immune genes in univariate Cox regression analysis

Symbol	HR	Lower.95	Upper.95	P value
IGF2BP3	2.6470322	1.9664637	3.563137	1.37E-10
TPX2	2.42549622	1.82438665	3.2246629	1.08E-09
PPAP2B	0.56048276	0.46178566	0.6802743	4.68E-09
ITGA6	0.52834878	0.4265463	0.6544481	5.15E-09
RBCK1	2.28553863	1.72737286	3.0240644	7.20E-09
ANLN	2.07838721	1.59840009	2.7025107	4.75E-08
CCM2	2.93507924	1.97148078	4.3696546	1.14E-07
ADRM1	3.88501848	2.35226334	6.4165301	1.15E-07
BUB1	2.42662292	1.74477733	3.3749285	1.39E-07
ADH5	0.33953339	0.22664442	0.5086511	1.62E-07
PRKCE	0.26527201	0.1605931	0.4381834	2.19E-07
PRKAA2	0.42232018	0.30411561	0.5864689	2.67E-07
MYO6	0.4210945	0.30127931	0.5885588	4.13E-07
BCL2	0.53669841	0.4205023	0.6850026	5.76E-07
ALDH6A1	0.53217808	0.41378591	0.6844446	8.96E-07
AMOT	0.50927902	0.38808696	0.668317	1.14E-06
LIFR	0.55840867	0.44105288	0.7069906	1.30E-06
TGFBR2	0.62389789	0.51281329	0.7590454	2.41E-06
VAMP3	0.371455	0.24592463	0.5610614	2.52E-06
SGMS1	0.36735011	0.2420137	0.557597	2.56E-06
KLHL9	0.39792437	0.26964004	0.5872414	3.47E-06
DOCK9	0.53736118	0.41302411	0.6991288	3.73E-06
FNBP1L	0.54086001	0.41523258	0.7044957	5.18E-06
SNRK	0.49929985	0.37017284	0.6734701	5.38E-06
UBE2D3	0.28103387	0.16149879	0.4890442	7.10E-06
CTNNB1	0.49211498	0.3602923	0.6721685	8.31E-06
PRKD1	0.44509999	0.31099921	0.6370241	9.63E-06
METTL14	0.29046568	0.16780037	0.5028017	1.01E-05
SWAP70	0.53536097	0.40556218	0.7067014	1.03E-05
PKHD1	0.63409475	0.51635806	0.778677	1.38E-05
SNX2	0.4676748	0.33184433	0.6591034	1.42E-05
SOS2	0.39205381	0.25668845	0.5988045	1.47E-05
EPB41L5	0.41166225	0.27491863	0.6164217	1.64E-05
PSMG3	1.86960078	1.40265317	2.4919967	1.97E-05
CIB1	1.988076	1.44729955	2.7309109	2.21E-05
GNE	0.54798428	0.41454781	0.7243719	2.39E-05
TRAF6	0.36242497	0.2255257	0.5824252	2.75E-05
TSTA3	2.30060945	1.55620624	3.4010941	2.95E-05
MAP3K12	2.23830607	1.52470979	3.2858804	3.90E-05
RORA	0.45025435	0.3078154	0.6586057	3.92E-05
SOCS6	0.43401895	0.29053346	0.6483675	4.58E-05
FRK	0.39012008	0.24806581	0.6135214	4.61E-05
FCHO2	0.52133633	0.38094386	0.7134688	4.72E-05
ZFYVE9	0.47175394	0.32692726	0.6807379	5.94E-05
FAT4	0.48524896	0.34088129	0.6907582	5.99E-05
GAPVD1	0.34381156	0.20411464	0.5791176	5.99E-05
EXO1	2.19780598	1.49501743	3.2309664	6.19E-05
NME1	1.67581314	1.30061313	2.1592506	6.54E-05
SLK	0.5265663	0.38427633	0.7215434	6.59E-05
TCF7L2	0.35470721	0.21266942	0.5916093	7.15E-05

Table S1 (*continued*)

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Table S1 (*continued*)

Symbol	HR	Lower.95	Upper.95	P value
MEF2A	0.55880891	0.41759398	0.7477776	9.02E-05
WWP1	0.45736425	0.30810681	0.6789271	0.0001039
RAD9A	2.15878912	1.46184353	3.1880091	0.0001093
ACER2	0.50897633	0.36120944	0.7171931	0.0001135
CDK11A	2.45982634	1.55194265	3.8988204	0.000128
SIK2	0.47182131	0.31890552	0.6980605	0.0001709
MSH3	0.41358261	0.26091443	0.6555811	0.0001724
AMOTL1	0.5684305	0.42301138	0.7638405	0.000179
RALBP1	0.48801402	0.33248233	0.7163018	0.0002483
IFNAR1	0.50493817	0.35025881	0.7279262	0.0002506
ITFG3	1.95107746	1.36031585	2.7983966	0.000281
APC	0.4859482	0.32825905	0.7193881	0.0003116
CADPS2	0.46410243	0.30574882	0.7044706	0.000312
PRUNE2	0.77480711	0.67421726	0.8904045	0.0003231
SIRT1	0.51695653	0.3607777	0.7407444	0.0003242
GNRH1	1.79271564	1.30195607	2.4684622	0.0003478
TOPORS	0.4756313	0.31626492	0.7153027	0.000358
PTPRK	0.56587282	0.41382058	0.7737944	0.0003623
NFX1	0.44815943	0.28811818	0.6970989	0.0003697
ARHGAP5	0.56112332	0.40649838	0.7745649	0.0004429
ARHGEF12	0.57457148	0.42152854	0.7831792	0.0004541
KAT2A	1.56097031	1.21621924	2.003445	0.00047
PPFIBP1	0.63656802	0.49275629	0.8223514	0.0005463
OPHN1	0.31053264	0.15937431	0.6050569	0.0005898
ADD3	0.58987342	0.43559633	0.7987915	0.0006443
MZF1	1.75684372	1.27009586	2.4301314	0.0006631
RAB18	0.47025744	0.30378299	0.7279606	0.0007141
PLEKHA7	0.6061092	0.45275446	0.8114075	0.0007679
FNDC3A	0.6000922	0.44551384	0.8083041	0.0007784
POC1B	0.39419292	0.22873725	0.6793299	0.0008014
EIF5A	2.09718023	1.3600544	3.2338154	0.000803
RIN2	0.54804656	0.38519615	0.7797457	0.0008292
HSPG2	0.77270944	0.66390587	0.8993442	0.0008682
BMPR2	0.58097394	0.42193925	0.799951	0.0008756
GCLC	0.46106997	0.29160876	0.7290093	0.0009258

HR, hazard ratio.

Table S2 The five prognostic independent immune genes in multivariate Cox regression analysis

Symbol	β
PKHD1	–0.11495
IGF2BP3	0.938487
RORA	–0.54489
FRK	–0.56628
MZF1	0.585383

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