

Supplementary Material

Table S1 Tumor cell immunosurveillance related based collections

B2m
Ifngr1
Jak2
Socs1
Tap1
Tap2
Tapbp
Adar
Atg10
Atg101
Cflar
Fitm2
Gpaa1
Gpi1
Ifngr2
Ikbkg
Irf1
Jak1
Otud5
Ptpn2
Rbck1
Stat1
Stat2
Tnfaip3
Tnfrsf1a
Traf2
Atg12
Atg3
Atg5
Becn1
Chic2
Dnttip1
Emc8
Erap1
Erp44
Fadd
Hdac1
Ist1
Map3k7
Men1
Mogs

Ndufa13
Nxt1
Otulin
Pdia3
Pigs
Pigu
Ppp2r2a
Psmb8
Rb1cc1
Rbm15
Ric8
Rnf31
Scaf4
Smg7
Tab1
Tab2
Tmem127
Tnfrsf1b
Ube2g2
Ube2n
Vdac2
Vps29
Vps35
Vps4b
Wipi2
Zcchc14
Acad9
Actb
Ago2
Ahsa1
Anapc15
Arf6
Atg14
Atg7
Atg9a
Atp13a1
Atxn7l3
BC003331
Bcl2l1
Bola3
Brat1
Brpf1
Cad
Calr

Cep55
Chmp5
Cox6c
Crebbp
Cul3
Dcp1a
Det1
Dicer1
Dnajc13
Dot1l
Dph5
Eif3h
Emc2
Emc3
Emc4
Emc6
F8a
Fam58b
Fas
Fntb
Gale
Gls
H2-K1
Hcfc2
Hdgfrp2
Hexim1
Hira
Hspa13
Ifnar1
Ifnar2
Ikbkb
Ino80
Ippk
Irf9
Jagn1
Jmjd6
Kat6a
Klf16
Kmt2a
Lipt2
Mapk1
Med16
Med23
Med24

Mgat1
Mta2
N6amt1
Ncbp1
Ndufaf6
Nploc4
Nup188
Pcbp2
Pced1b
Pdcd6ip
Pdss2
Pi4kb
Pigk
Pigt
Pkn2
Ppp1ca
Ppp1r8
Ppp2r3c
Prkcsh
Psmb9
Psmg1
Ptar1
Rce1
Rgp1
Ric1
S100pbp
Sarnp
Setd1a
Setdb1
Slc25a32
Spcs1
Srrt
Srsf7
Stoml2
Susd6
Tbk1
Tfrc
Tgfbr2
Tmem208
Tradd
Trpm7
Ubr5
Ufc1
Ufl1

Usp7
 Uxs1
 Vps13a
 Vps16
 Wdr7
 Wdr83
 Wwp2
 Yap1
 Zc3h3

Table S2 Set of genes significantly associated with colon cancer prognosis

Symbol	HR	HR.95L	HR.95H	pvalue
SOCS1	0.69094	0.533505	0.894834	0.005076
FITM2	0.705251	0.587339	0.846835	0.000183
IRF1	0.797646	0.687248	0.925777	0.002933
MAP3K7	1.364532	1.08248	1.720075	0.008518
PIGU	0.795286	0.679684	0.930549	0.004261
PSMB8	0.830363	0.71091	0.969888	0.018987
RB1CC1	1.202538	1.039577	1.391044	0.013051
TNFRSF1B	0.741227	0.618523	0.888272	0.001182
ANAPC15	0.748782	0.589249	0.951508	0.017953
ATG14	1.362489	1.085047	1.710871	0.007754
EMC4	1.310545	1.004545	1.709759	0.046219
GLS	1.313982	1.007758	1.713259	0.043691
HCFC2	1.342646	1.112152	1.62091	0.002169
HEXIM1	1.215842	1.001961	1.475379	0.047724
HSPA13	1.177035	1.010459	1.371072	0.036296
JAGN1	0.634265	0.485342	0.828883	0.000855
KAT6A	1.409307	1.079128	1.84051	0.011766
KMT2A	1.513769	1.12225	2.041877	0.006621
MED16	0.788877	0.625902	0.994287	0.044591
MED24	0.644792	0.497358	0.835929	0.000923
PCBP2	0.689163	0.511873	0.927859	0.014151
PPP2R3C	1.48144	1.062144	2.066259	0.020607
PSMG1	0.855211	0.751175	0.973656	0.01811
SRRT	0.605964	0.440654	0.833288	0.002056
USP7	0.769159	0.596634	0.991572	0.042839

Table S3 16 key genes identified

ID	TE	lower	upper	p	HR
ATG3	-0.289	-0.537	-0.041	0.022	0.818
FITM2	-0.264	-0.415	-0.112	0.001	0.833
OTUD5	-0.235	-0.446	-0.024	0.029	0.85
PIGT	-0.32	-0.542	-0.098	0.005	0.801
PIGU	-0.15	-0.282	-0.017	0.027	0.901
PSMB8	-0.178	-0.314	-0.042	0.01	0.884
SOCS1	-0.233	-0.445	-0.021	0.031	0.851
SPCS1	-0.315	-0.582	-0.049	0.02	0.804
TNFRSF1B	-0.246	-0.397	-0.095	0.001	0.843
USP7	-0.231	-0.439	-0.024	0.029	0.852
DICER1	0.243	0.007	0.48	0.044	1.184
HCFC2	0.179	0.011	0.346	0.037	1.132
HEXIM1	0.169	0.012	0.326	0.035	1.124
MAP3K7	0.263	0.045	0.481	0.018	1.2
UXS1	0.201	0	0.401	0.05	1.149
ZC3H3	0.242	0.039	0.444	0.019	1.183