

Supplementary Information for Identification and Functional Characterization of PI3K/Akt/mTOR Pathway-Related lncRNAs in Lung Adenocarcinoma: A Retrospective Study

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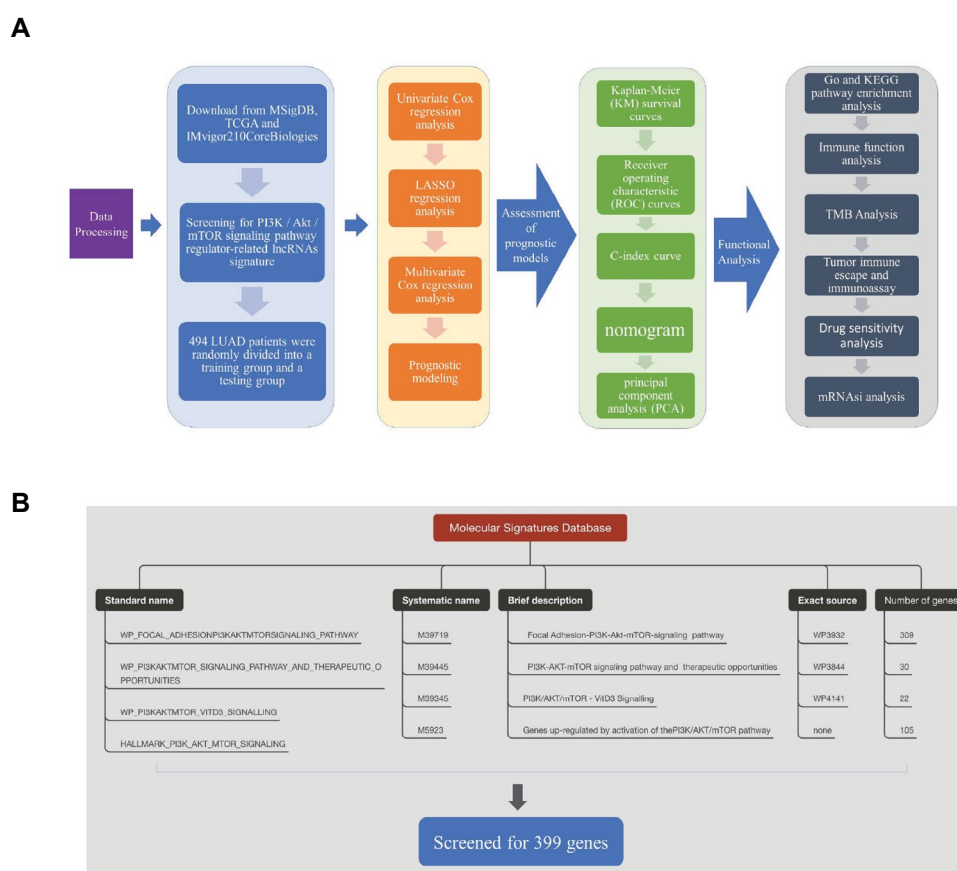


Fig.S1: The flowchart in this study and the genetic origin of signaling pathways. The flowchart in this study (A). On the genetic origin of the PI3K / Akt / mTOR signaling pathway (B).

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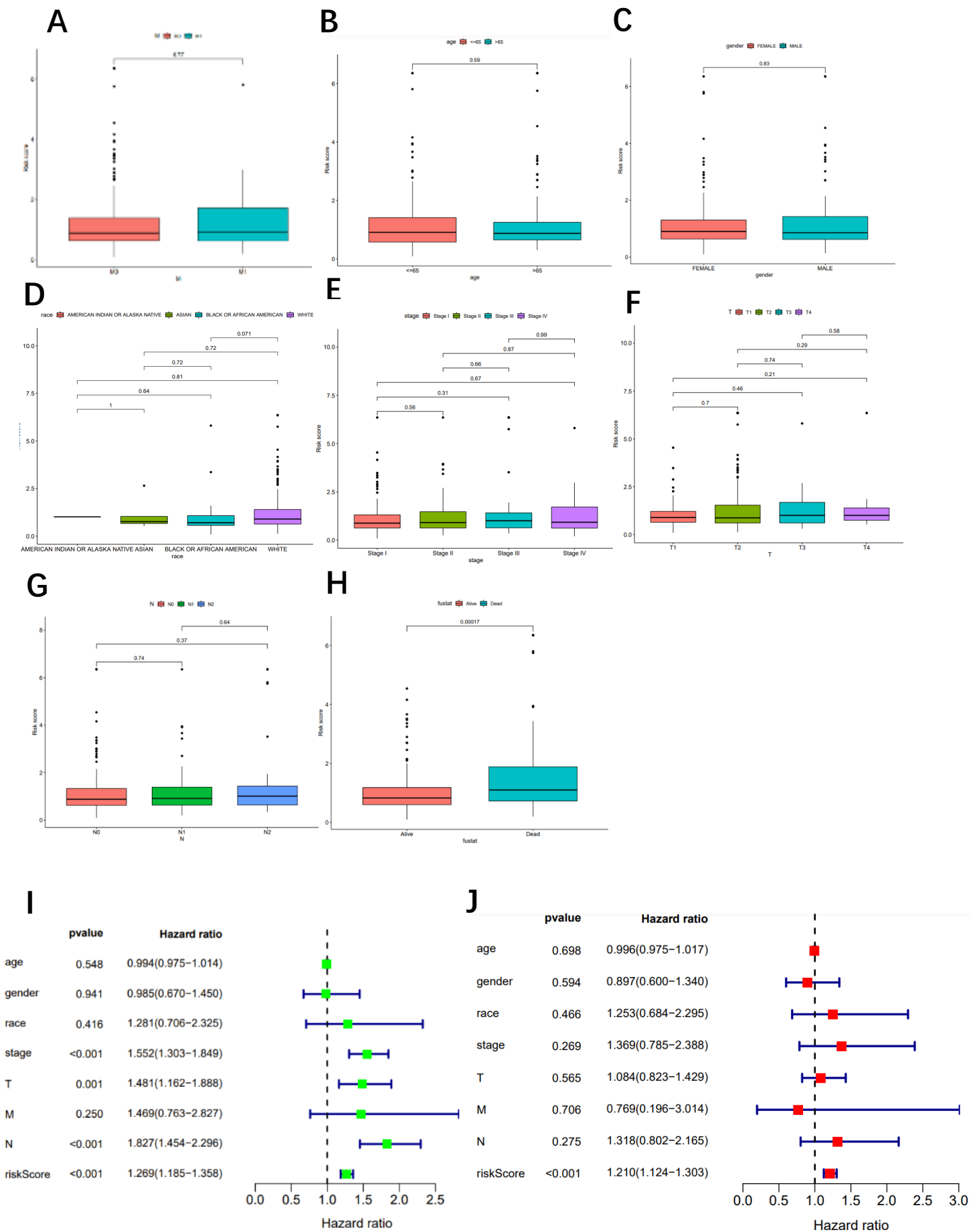


Figure S4. The images show the correlation between clinicopathological factors and risk scores.

These include M stage (A), age (B), gender (C), race (D), AJCC stage (E), stage T (F), stage N (G), and survival status (H). Univariate (A) and multivariate (B) Cox regression analysis of OS in the entire cohort.

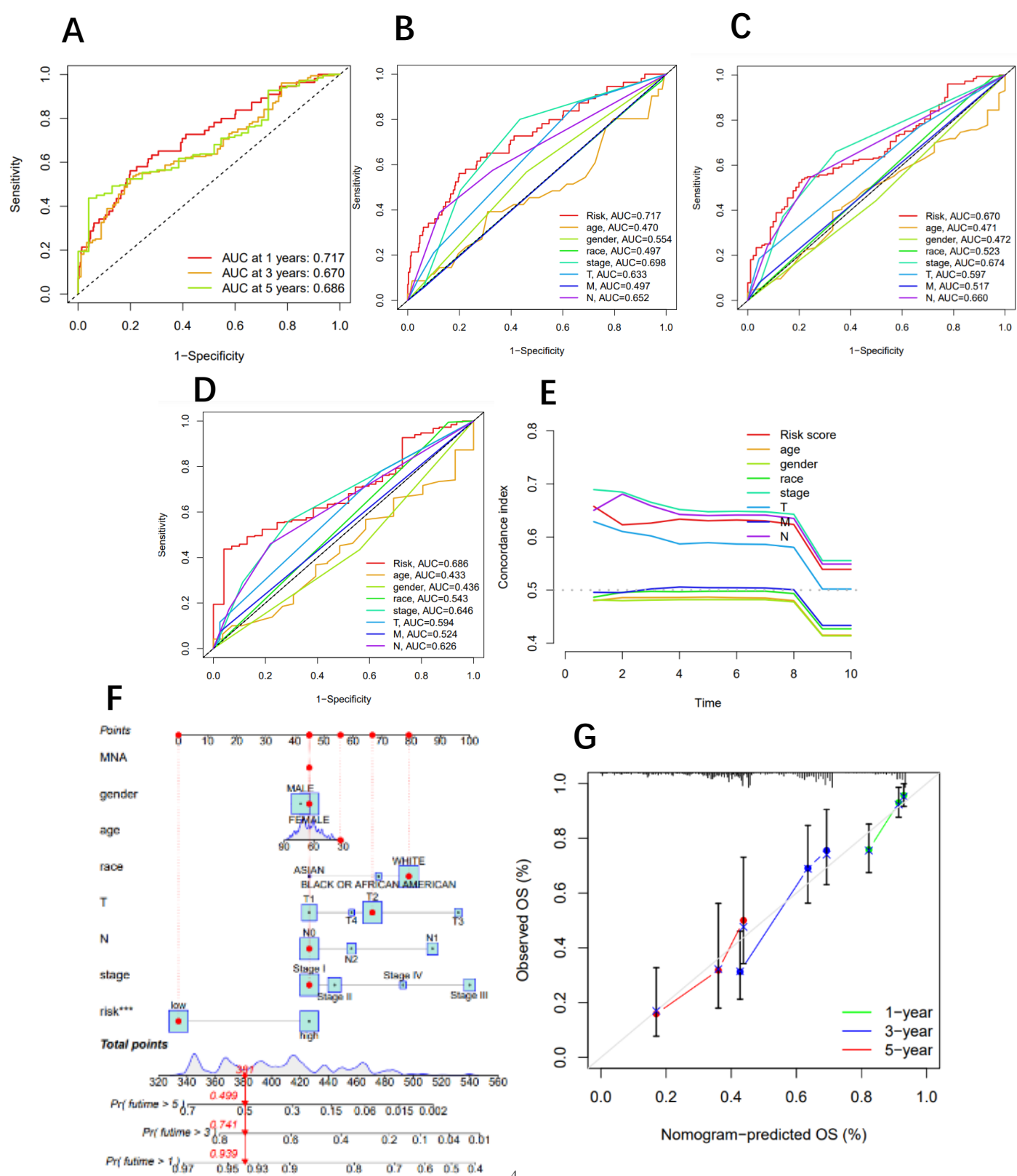
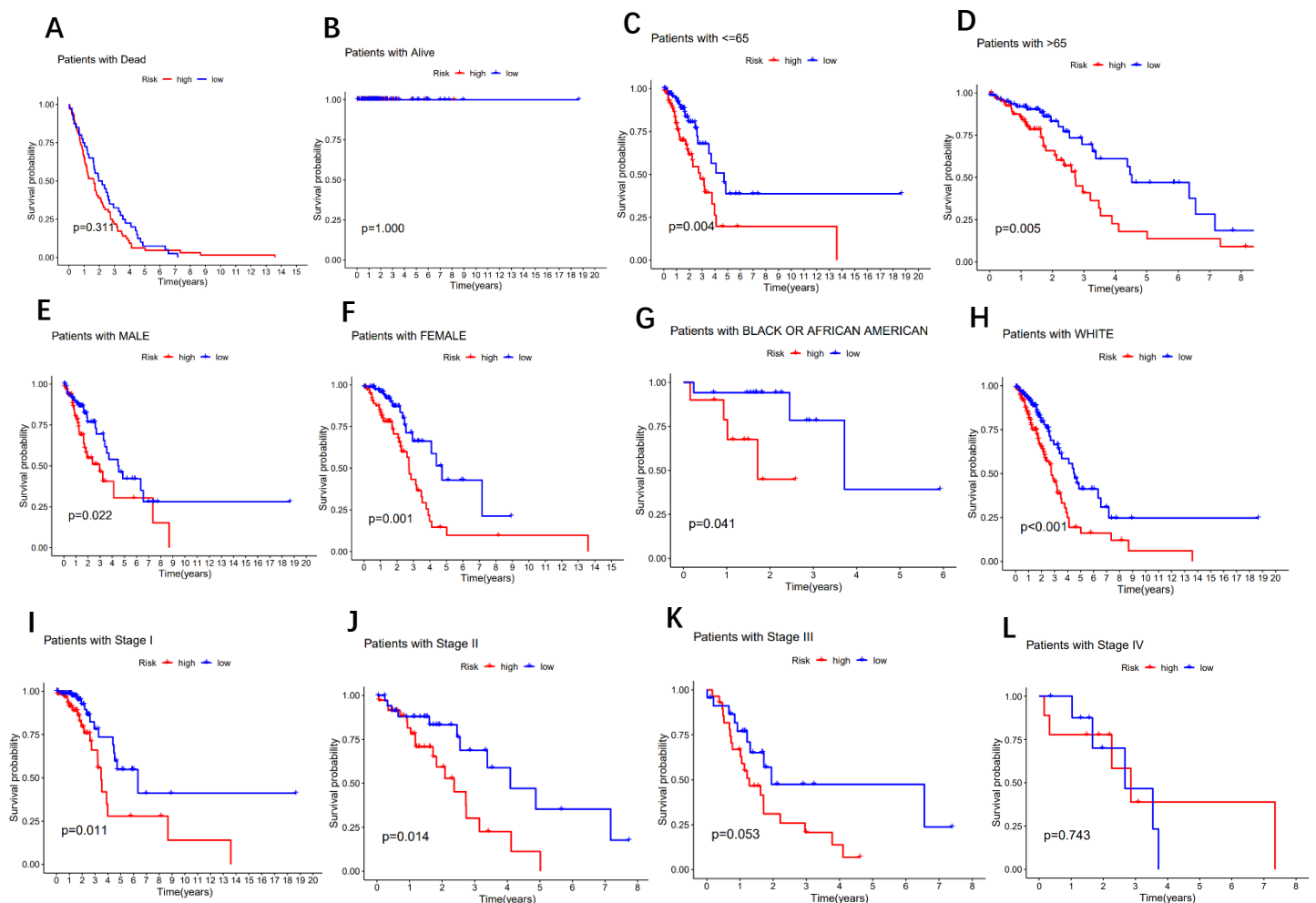


Figure S5. Prognostic modeling and evaluation of risk scores and clinicopathological factors constructed for patients with LUAD. The ROC curve AUCs for the prognostic model were 0.717, 0.670 and 0.686 at 1, 3 and 5 years, respectively (A). Clinicopathological indicators of 1-year (B), 3-year (C) and 5-year (D) survival probabilities. The C-index curves showed a C-index mostly between 0.6 and 0.7, with average accuracy (E). A nomogram was created to predict the 1-year, 3-year, and 5-year OS of LUAD patients. A vertical line was made from the value of each variable to the "point" axis to obtain the corresponding score, and the total score of all variables was calculated and projected onto the corresponding line at the bottom to obtain the 1-year, 3-year, and 5-year OS for LUAD patients (F). In the calibration curve of the prediction model, the gray line is the standard curve, and the green, blue and red lines represent the predicted values for 1, 3 and 5 years, respectively (G).



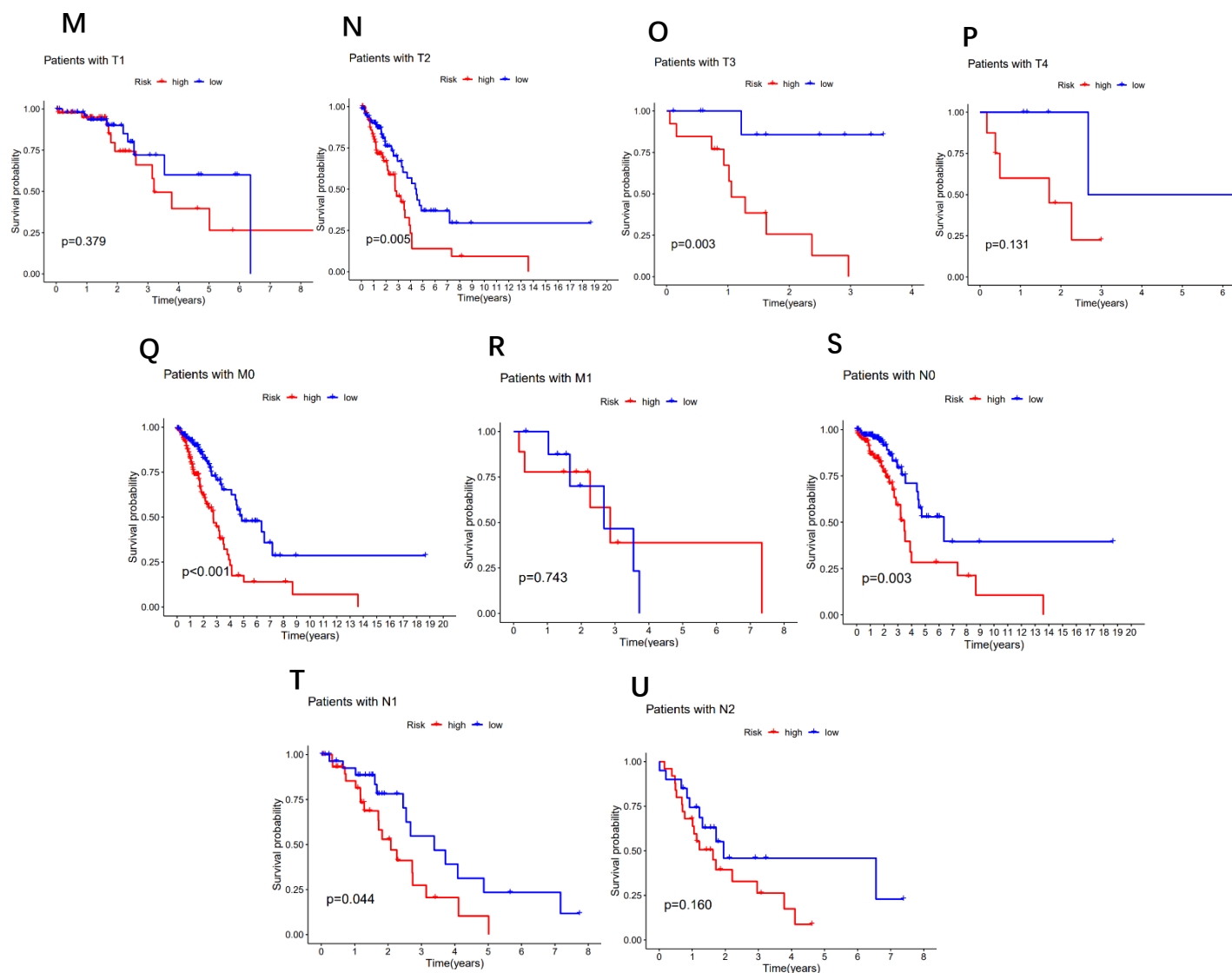


Figure S6. Overall survival in high- and low-risk subgroups based on clinicopathological factors in LUAD patients. Kaplan-Meier survival curves showing OS rates for high and low-risk subgroups stratified by death (A), alive (B), age ≤ 65 years (C), age > 65 years (D), male (E), female (F), black or African American (G), and patients with white (H) AJCC Stages I-IV, T1-T4, M0-M1, and N0-N2 (I-U).

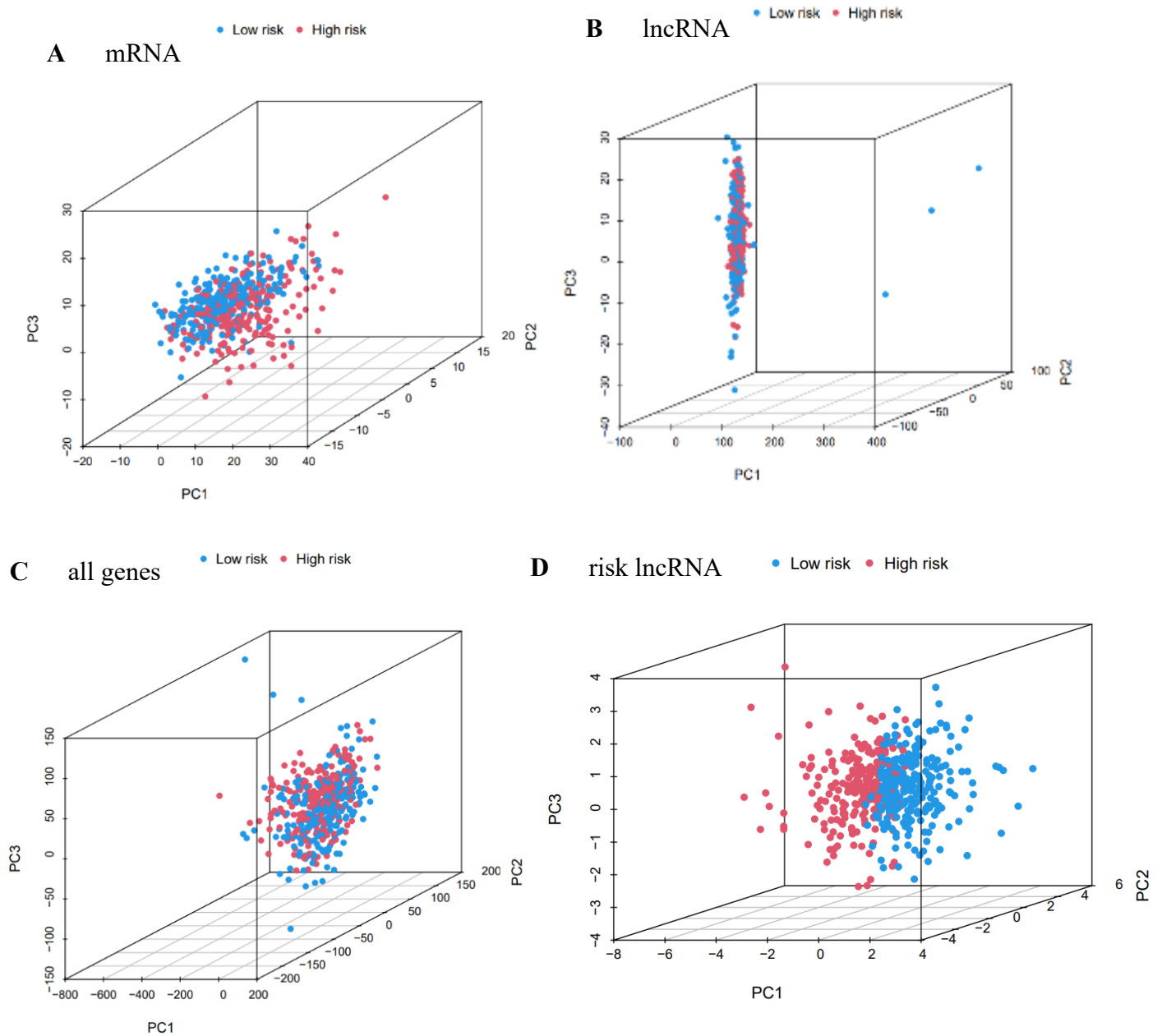


Figure S7. The results of principal component analysis. It revealed differences in gene expression between high-risk and low-risk subgroups in mRNA (A), lncRNA (B), all genes (C) and risk lncRNA (D).

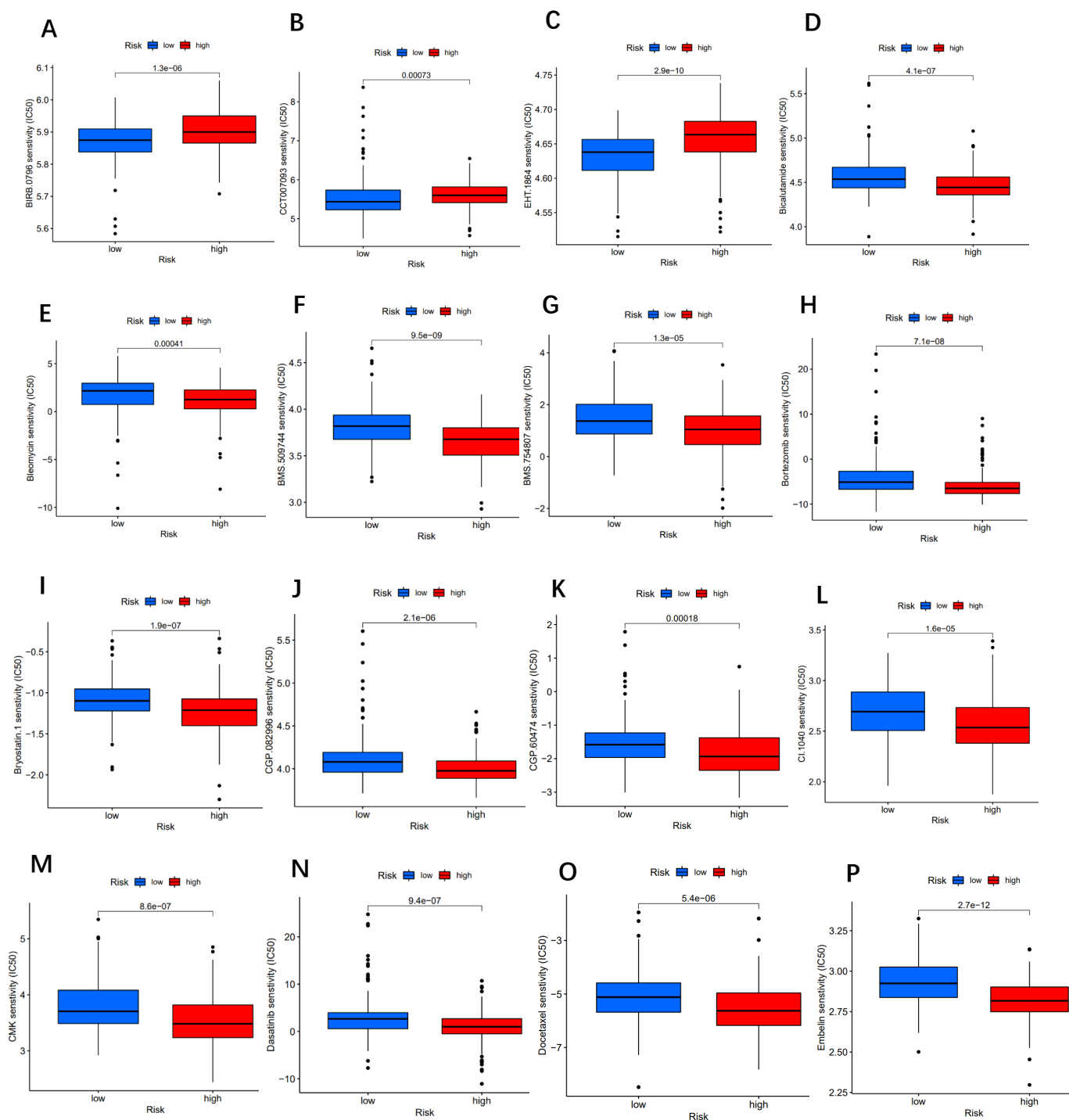


Figure S8. The figure below shows the top 16 drugs that might be used in LUAD patients.

Respectively, BIRB.0796 (A), CCT007093 (B), EHT.1864 (C), Bicalutamide (D), Bleomycin (E), BMS.509744 (F), BMS.754807 (G), Bortezomib (H), Bryostatin.1 (I), CGP.082996 (J), CGP.60474 (K), CI.1040 (L), CMK (M), Dasatinib (N), Docetaxel (O) and Embelin (P).

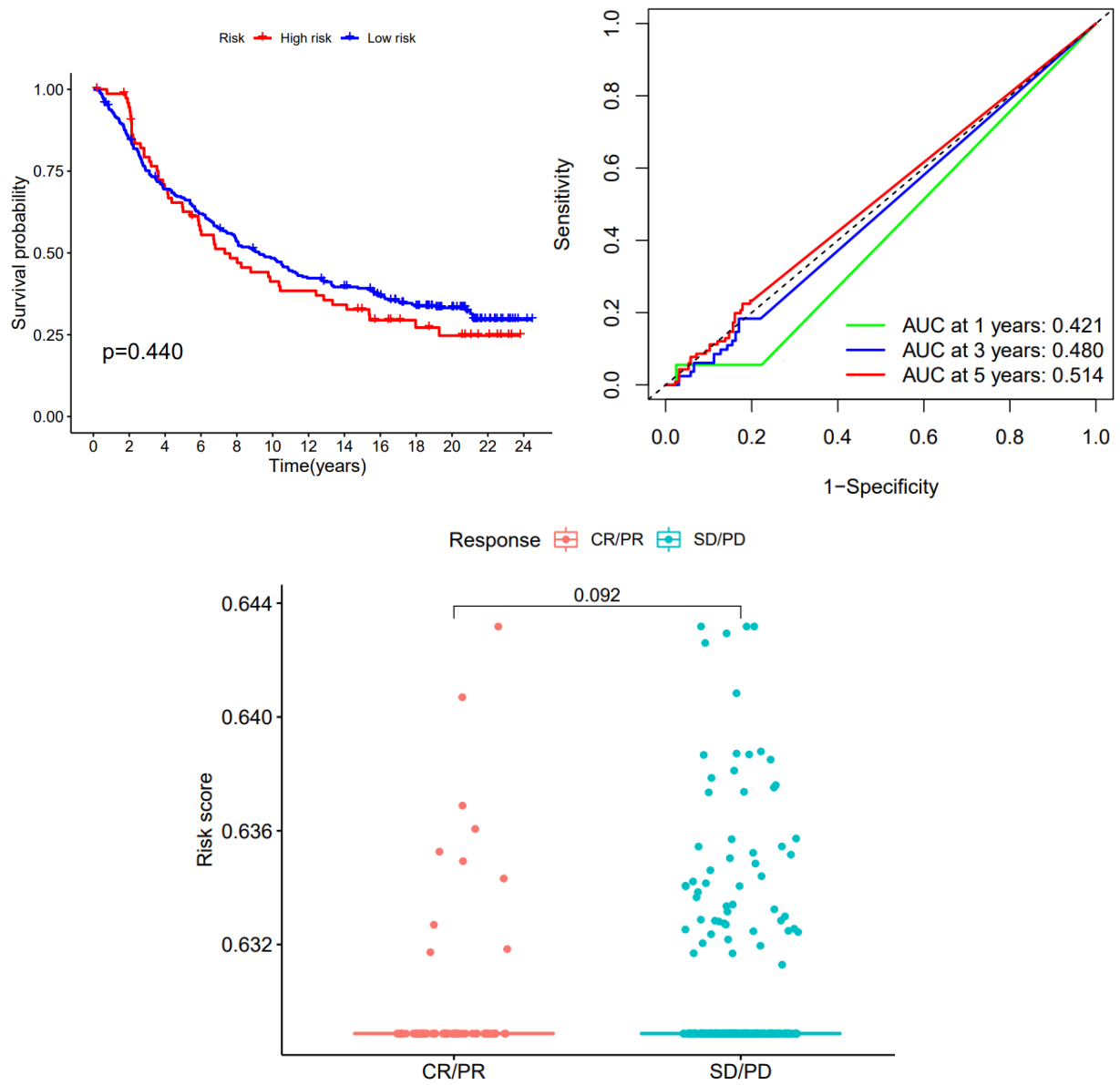


Figure S9. Validation with the IMvigor210 immunotherapy model. In the IMvigor210 model, there was no difference between high and low-risk subgroups (A). 1 and 3 years ROC curves were poorly predicted and 5 years ROC curves were well-predicted (B). No significant response to different immunotherapeutic agents (C).

Table S1. Results of 399 genes associated with the PI3K/Akt/mTOR pathway. The results show 399 genes after combining genes from four gene sets and excluding duplicates.

gene
<i>SLC2A1</i>
<i>RPS6KB1</i>
<i>LDHA</i>
<i>LAMA1</i>
<i>IL4</i>
<i>ADCY2</i>
<i>UBE2N</i>
<i>FGFR4</i>
<i>IGF1R</i>
<i>SLA</i>
<i>FGF10</i>
<i>RHEB</i>
<i>ULK1</i>
<i>GNG4</i>
<i>TSC2</i>
<i>ATF6B</i>
<i>CREB3L3</i>
<i>PDK1</i>
<i>LIPE</i>
<i>FGF20</i>
<i>LPAR2</i>
<i>PIK3R3</i>
<i>CSNK2B</i>
<i>PPP2R3C</i>
<i>CDC37</i>
<i>ITGA10</i>
<i>LPAR1</i>
<i>IRAK4</i>
<i>PAK4</i>
<i>ECSIT</i>
<i>ITGAD</i>
<i>VWF</i>
<i>CDKN1A</i>
<i>SLC2A4</i>
<i>RAF1</i>
<i>CSF3R</i>
<i>STK11</i>
<i>LAMC2</i>
<i>MKNK1</i>
<i>FOXO1</i>
<i>CRTC2</i>
<i>MYC</i>
<i>PRLR</i>

GNGT1
PIK3CA
HSP90AB1
EIF4E1B
AKT2
CDK4
FGF19
PGF
CAMK4
EIF4EBP1
INSR
FGF1
PTPN11
COL6A2
LAMA4
MAP2K6
IGF1
LAMB2
YWHAB
NOS2
EIF4E
SLC2A3
PIK3IP1
ATF2
PRL
IL4R
ITPR2
GYS2
FGF22
PPP2CA
ANGPT2
PPP1CA
ARF1
RELN
ANGPT1
RXRA
PDHA1
GNG3
COL4A6
CAB39L
MAPKAP1
INS
PIK3R2
PPARGC1A
RAB10
FGF2

TFEB
IL3RA
ITGA3
CASP9
PIK3C2B
THEM4
AKT1S1
VEGFA
FGF4
MAP2K1
STAT2
FGF12
TSC1
RIT1
FLT4
AKT3
THBS4
FN1
GNG12
FGF17
PIK3C2A
LPAR5
CALR
KIT
ITGAE
NOD1
SPP1
DAPP1
GYS1
EIF4E2
CAB39
ITGA2
FGF13
CD80
ITGB3
RAB2A
NGF
RB1CC1
SREBF1
AKT1
ACACA
GNG5
PPP2R2C
CDK2
PRKAA1
CREB3L1

LAMB3
NFKB1B
PDPK1
NRAS
FOXA1
MAPK10
PPP2R5A
RAB11B
CSF3
FGFR3
PFKFB1
CHRM1
VTN
ITGA7
FGF6
TBK1
COL11A1
COL4A4
OSMR
JAK2
COL5A2
SOS1
COL3A1
EFNA3
VEGFB
JAK1
ATF1
FGF11
KITLG
PIK3R4
PITX2
EPHA2
SMAD2
FGF7
FGF3
LAMC3
COL4A1
ITGB8
CSH1
GNB1
HSP90AA1
CSF1R
EFNA2
CREB3
KDR
EFNA1

PELO
LPAR4
PDGFRB
ITGAX
MAPK9
ITGAV
IL10
PHLPP1
PDGFD
GSK3B
GNB3
F2R
CYP24A1
LAMA3
PIK3CD
MAP2K3
ITGB6
RPS6KB2
IBSP
PFKFB2
IL2RB
RELA
HGF
RIPK1
MAPK1
ITGB7
KRAS
PHLPP2
TRIB3
DUSP3
ITGA5
PDGFB
ANGPT4
FGF8
FGF14
PPP2R3A
FOXO4
THBS1
ITGB4
ITGB2
LAMA2
TNC
MLST8
MET
FGF16
RPS6KA3

GNG2
CREB3L2
ATF4
RAC1
TBC1D1
PIK3CG
CDK1
GRK2
CSF1
HLA-DRA
HIF3A
CREB5
FGFR1
HRAS
PTK2
LPAR6
CFL1
DDIT3
PPP2R5B
ITGA6
COL1A2
COL5A1
PPP2R5D
ITGA2B
GRB2
GNG7
PTEN
ITGB1
MDM2
PLA2G12A
LAMC1
CREB1
TRAF2
GNB2
PFKFB3
PDGFRA
NGFR
PFN1
IL7R
LCK
PRKCB
VEGFD
PIK3R1
SFN
ITGAL
IRS1

TIAM1
LPAR3
NOS1
ITGA9
GNG10
LAMB1
CHRM2
SQSTM1
IFNAR2
PIK3R5
COL5A3
FASLG
ITGB5
JAK3
GNG13
TCL1B
PPP2R1B
IFNA7
PRKAA2
PPP2R5E
NCK1
BAD
CSHL1
MYD88
COMP
PPP2R1A
ACTR3
TNR
HSP90B1
THBS3
ITGA8
EPOR
MKKNK2
HK3
PIKFYVE
PIK3CB
CLTC
RAB8A
EGF
COL2A1
MAPK3
IL12A
FGF18
VAV3
PRKAG1
ITGA4

COL1A1
EPAS1
LAMA5
RPS6
MTOR
PLCB1
GNG8
RALB
PRKAR2A
FOXO3
PIN1
IL2RA
VEGFC
FGFR2
AP2M1
IL6R
IL2
FGF21
ATG13
FLT1
PLCG1
RPTOR
EPO
STRADA
SLC2A2
PPP2R5C
PPP2R2D
GHR
EFNA4
IRS4
IL2RG
IKBKG
GNG11
TNXB
COL4A2
VDR
CD86
CREB3L4
RAB14
GNGT2
IKKKB
GRB10
CDKN1B
RICTOR
CXCR4
E2F1

ARPC3
CHAD
MAPK8
OSM
EFNA5
HIF1A
MAP2K2
PPP2R2B
COL11A2
NOS3
FGF9
GNA14
ACTR2
IFNAR1
RPS6KA1
GNB4
PPP2CB
EGFR
DDIT4
TNFRSF1A
PDGFA
PFKFB4
IFNB1
TEK
IRS2
ARHGDIA
THBS2
PDGFC
ITGA11
UBE2D3
MAP3K7
EIF4B
TNN
ELAVL1

Table S2. Clinical information of LUAD patients. Table showing clinical information for a sample of LUAD patients.

Id	fustat	age	gender	race	stage	T	M	N
TCGA-L4-A4E5	Alive	<=65	FEMALE	WHITE	Stage I	T1	M0	N0
TCGA-50-6673	Dead	>65	FEMALE	WHITE	Stage I	T1	M0	N0
TCGA-35-4123	Alive	<=65	MALE	WHITE	Stage I	T1	M0	N0
TCGA-86-8076	Alive	<=65	MALE	WHITE	Stage I	T1	M0	N0
TCGA-NJ-A4YF	Alive	<=65	FEMALE	BLACK OR AFRICAN AMERICAN	Stage I	T1	M0	N0
TCGA-55-6980	Alive	<=65	MALE	WHITE	Stage I	T1	M0	N0
TCGA-83-5908	Alive	<=65	FEMALE	WHITE	Stage I	T1	M0	N0
TCGA-44-3918	Alive	<=65	FEMALE	WHITE	Stage I	T1	M0	N0
TCGA-50-7109	Dead	<=65	MALE	WHITE	Stage I	T1	M0	N0
TCGA-64-1681	Dead	<=65	FEMALE	WHITE	Stage I	T1	M0	N0
TCGA-44-6145	Alive	<=65	FEMALE	WHITE	Stage I	T1	M0	N0
TCGA-44-2655	Alive	<=65	FEMALE	WHITE	Stage I	T1	M0	N0
TCGA-73-4662	Alive	<=65	FEMALE	WHITE	Stage I	T1	M0	N0
TCGA-44-2664	Alive	>65	FEMALE	BLACK OR AFRICAN AMERICAN	Stage I	T1	M0	N0
TCGA-50-5942	Alive	>65	FEMALE	WHITE	Stage I	T1	M0	N0
TCGA-L4-A4E6	Alive	>65	MALE	WHITE	Stage I	T1	M0	N0
TCGA-44-2661	Alive	>65	FEMALE	WHITE	Stage I	T1	M0	N0
TCGA-50-5944	Alive	>65	FEMALE	WHITE	Stage I	T1	M0	N0
TCGA-35-4122	Alive	>65	MALE	WHITE	Stage I	T1	M0	N0
TCGA-67-3770	Alive	>65	FEMALE	WHITE	Stage I	T1	M0	N0
TCGA-44-3919	Alive	>65	FEMALE	WHITE	Stage I	T1	M0	N0
TCGA-MP-A4T2	Dead	>65	MALE	WHITE	Stage I	T1	M0	N0
TCGA-38-7271	Dead	>65	FEMALE	WHITE	Stage I	T1	M0	N0
TCGA-49-4487	Dead	>65	FEMALE	WHITE	Stage I	T1	M0	N0
TCGA-49-4486	Dead	>65	MALE	WHITE	Stage I	T1	M0	N0
TCGA-44-A47G	Alive	>65	FEMALE	WHITE	Stage I	T1	M0	N0
TCGA-55-1595	Alive	>65	FEMALE	ASIAN	Stage I	T1	M0	N0
TCGA-MP-A4TA	Dead	>65	FEMALE	WHITE	Stage I	T1	M0	N0
TCGA-78-7162	Dead	>65	MALE	WHITE	Stage I	T1	M0	N0
TCGA-67-3771	Alive	>65	FEMALE	BLACK OR AFRICAN AMERICAN	Stage I	T1	M0	N0
TCGA-55-6987	Alive	>65	MALE	WHITE	Stage I	T1	M0	N0
TCGA-49-4514	Alive	>65	FEMALE	WHITE	Stage I	T1	M0	N0
TCGA-91-6835	Alive	>65	FEMALE	WHITE	Stage I	T1	M0	N0
TCGA-50-5935	Dead	>65	FEMALE	WHITE	Stage I	T1	M0	N0
TCGA-97-A4M6	Alive	<=65	FEMALE	WHITE	Stage I	T1	M0	N0
TCGA-99-8028	Alive	<=65	FEMALE	BLACK OR AFRICAN AMERICAN	Stage I	T1	M0	N0
TCGA-97-A4M1	Alive	<=65	FEMALE	WHITE	Stage I	T1	M0	N0
TCGA-55-8089	Dead	<=65	MALE	WHITE	Stage I	T1	M0	N0
TCGA-67-6216	Alive	<=65	FEMALE	WHITE	Stage I	T1	M0	N0

TCGA-44-6144	Alive	<=65	MALE	WHITE	Stage I	T1	M0	N0
TCGA-64-1676	Alive	<=65	MALE	WHITE	Stage I	T1	M0	N0
TCGA-99-8032	Alive	<=65	MALE	WHITE	Stage I	T1	M0	N0
TCGA-50-8457	Alive	<=65	FEMALE	BLACK OR AFRICAN AMERICAN	Stage I	T1	M0	N0
TCGA-MN-A4N5	Alive	<=65	MALE	WHITE	Stage I	T1	M0	N0
TCGA-97-A4M2	Alive	>65	MALE	WHITE	Stage I	T1	M0	N0
TCGA-95-7947	Alive	>65	MALE	WHITE	Stage I	T1	M0	N0
TCGA-99-AA5R	Alive	>65	FEMALE	BLACK OR AFRICAN AMERICAN	Stage I	T1	M0	N0
TCGA-MP-A4TH	Alive	>65	FEMALE	WHITE	Stage I	T1	M0	N0
TCGA-91-6828	Alive	>65	MALE	WHITE	Stage I	T1	M0	N0
TCGA-95-7944	Alive	>65	MALE	WHITE	Stage I	T1	M0	N0
TCGA-69-8255	Alive	>65	MALE	WHITE	Stage I	T1	M0	N0
TCGA-97-8179	Alive	>65	MALE	WHITE	Stage I	T1	M0	N0
TCGA-50-8460	Alive	>65	MALE	WHITE	Stage I	T1	M0	N0
TCGA-86-A456	Alive	>65	FEMALE	ASIAN	Stage I	T1	M0	N0
TCGA-55-8090	Dead	>65	MALE	WHITE	Stage I	T1	M0	N0
TCGA-69-7980	Alive	>65	FEMALE	WHITE	Stage I	T1	M0	N0
TCGA-4B-A93V	Alive	<=65	FEMALE	BLACK OR AFRICAN AMERICAN	Stage I	T1	M0	N0
TCGA-44-7672	Alive	<=65	FEMALE	WHITE	Stage I	T1	M0	N0
TCGA-55-8206	Alive	<=65	MALE	WHITE	Stage I	T1	M0	N0
TCGA-MN-A4N4	Alive	<=65	MALE	WHITE	Stage I	T1	M0	N0
TCGA-73-7498	Alive	<=65	FEMALE	WHITE	Stage I	T1	M0	N0
TCGA-91-6840	Alive	<=65	FEMALE	WHITE	Stage I	T1	M0	N0
TCGA-44-6148	Alive	<=65	MALE	WHITE	Stage I	T1	M0	N0
TCGA-86-8668	Alive	<=65	FEMALE	WHITE	Stage I	T1	M0	N0
TCGA-55-8085	Alive	<=65	MALE	WHITE	Stage I	T1	M0	N0
TCGA-86-8669	Alive	<=65	MALE	WHITE	Stage I	T1	M0	N0
TCGA-S2-AA1A	Alive	>65	FEMALE	BLACK OR AFRICAN AMERICAN	Stage I	T1	M0	N0
TCGA-97-A4M3	Alive	>65	FEMALE	WHITE	Stage I	T1	M0	N0
TCGA-55-8203	Alive	>65	FEMALE	WHITE	Stage I	T1	M0	N0
TCGA-86-7953	Alive	>65	FEMALE	WHITE	Stage I	T1	M0	N0
TCGA-NJ-A4YQ	Alive	>65	FEMALE	WHITE	Stage I	T1	M0	N0
TCGA-69-7763	Alive	>65	MALE	WHITE	Stage I	T1	M0	N0
TCGA-55-7281	Alive	>65	FEMALE	WHITE	Stage I	T1	M0	N0
TCGA-55-8208	Alive	>65	FEMALE	WHITE	Stage I	T1	M0	N0
TCGA-55-7995	Alive	>65	FEMALE	WHITE	Stage I	T1	M0	N0
TCGA-44-A4SS	Alive	>65	MALE	WHITE	Stage I	T1	M0	N0
TCGA-97-A4M7	Alive	>65	MALE	WHITE	Stage I	T1	M0	N0
TCGA-69-7764	Alive	>65	MALE	WHITE	Stage I	T1	M0	N0
TCGA-44-3398	Alive	>65	FEMALE	WHITE	Stage I	T1	M0	N0
TCGA-55-A57B	Alive	>65	FEMALE	BLACK OR AFRICAN AMERICAN	Stage I	T1	M0	N0

TCGA-97-A4M5	Alive	>65	MALE	WHITE	Stage I	T1	M0	N0
TCGA-55-1592	Dead	<=65	MALE	WHITE	Stage I	T2	M0	N0
TCGA-50-5049	Alive	>65	MALE	WHITE	Stage I	T2	M0	N0
TCGA-44-3917	Alive	<=65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-44-2666	Dead	<=65	MALE	WHITE	Stage I	T2	M0	N0
TCGA-78-7535	Dead	<=65	MALE	WHITE	Stage I	T2	M0	N0
TCGA-71-6725	Alive	<=65	FEMALE	ASIAN	Stage I	T2	M0	N0
TCGA-44-2668	Alive	<=65	MALE	WHITE	Stage I	T2	M0	N0
TCGA-55-6969	Alive	<=65	MALE	WHITE	Stage I	T2	M0	N0
TCGA-62-A46R	Dead	<=65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-64-5781	Alive	<=65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-78-7542	Dead	<=65	MALE	WHITE	Stage I	T2	M0	N0
TCGA-35-3615	Alive	<=65	MALE	WHITE	Stage I	T2	M0	N0
TCGA-44-2656	Alive	<=65	MALE	WHITE	Stage I	T2	M0	N0
TCGA-71-8520	Dead	<=65	FEMALE	ASIAN	Stage I	T2	M0	N0
TCGA-64-5778	Alive	<=65	MALE	WHITE	Stage I	T2	M0	N0
TCGA-64-5774	Alive	<=65	MALE	WHITE	Stage I	T2	M0	N0
TCGA-78-7163	Alive	<=65	MALE	WHITE	Stage I	T2	M0	N0
TCGA-86-8673	Alive	<=65	MALE	WHITE	Stage I	T2	M0	N0
TCGA-78-7143	Dead	<=65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-78-7153	Alive	<=65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-62-A46O	Dead	<=65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-44-2662	Alive	<=65	MALE	WHITE	Stage I	T2	M0	N0
TCGA-78-7152	Alive	<=65	MALE	WHITE	Stage I	T2	M0	N0
TCGA-NJ-A4YG	Alive	<=65	MALE	WHITE	Stage I	T2	M0	N0
TCGA-62-A46P	Dead	<=65	MALE	WHITE	Stage I	T2	M0	N0
TCGA-86-8075	Alive	>65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-78-7540	Alive	>65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-49-4501	Dead	>65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-78-7633	Alive	>65	MALE	WHITE	Stage I	T2	M0	N0
TCGA-86-7954	Alive	>65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-78-7155	Dead	>65	MALE	WHITE	Stage I	T2	M0	N0
TCGA-50-6592	Dead	>65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-50-5066	Alive	>65	MALE	BLACK OR AFRICAN AMERICAN	Stage I	T2	M0	N0
TCGA-38-4631	Dead	>65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-50-6590	Dead	>65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-55-6972	Dead	>65	MALE	WHITE	Stage I	T2	M0	N0
TCGA-67-3774	Alive	>65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-62-A46S	Dead	>65	MALE	WHITE	Stage I	T2	M0	N0
TCGA-55-6986	Alive	>65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-50-5931	Dead	>65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-38-4630	Dead	>65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-NJ-A55A	Alive	>65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-MP-A5C7	Alive	>65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-62-A46V	Alive	>65	FEMALE	WHITE	Stage I	T2	M0	N0

TCGA-50-6597	Dead	>65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-73-4658	Dead	>65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-67-3772	Alive	>65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-67-3773	Alive	>65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-62-A470	Dead	>65	MALE	WHITE	Stage I	T2	M0	N0
TCGA-50-5939	Dead	>65	MALE	WHITE	Stage I	T2	M0	N0
TCGA-95-7948	Alive	<=65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-69-7973	Alive	<=65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-86-8358	Alive	<=65	MALE	WHITE	Stage I	T2	M0	N0
TCGA-67-6215	Alive	<=65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-NJ-A4YP	Alive	<=65	MALE	WHITE	Stage I	T2	M0	N0
TCGA-55-7576	Alive	<=65	MALE	BLACK OR AFRICAN AMERICAN	Stage I	T2	M0	N0
TCGA-55-A493	Alive	<=65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-44-8117	Alive	<=65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-97-8175	Alive	<=65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-86-8585	Alive	<=65	MALE	WHITE	Stage I	T2	M0	N0
TCGA-44-8120	Alive	<=65	MALE	BLACK OR AFRICAN AMERICAN	Stage I	T2	M0	N0
TCGA-55-8616	Alive	<=65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-86-8073	Alive	<=65	MALE	WHITE	Stage I	T2	M0	N0
TCGA-97-8177	Alive	<=65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-44-4112	Alive	<=65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-97-A4M0	Alive	<=65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-86-7955	Alive	<=65	MALE	WHITE	Stage I	T2	M0	N0
TCGA-86-A4P7	Alive	<=65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-44-7671	Alive	<=65	MALE	BLACK OR AFRICAN AMERICAN	Stage I	T2	M0	N0
TCGA-55-7574	Dead	<=65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-38-4625	Alive	>65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-44-7661	Alive	>65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-97-8172	Alive	>65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-44-A47B	Alive	>65	MALE	WHITE	Stage I	T2	M0	N0
TCGA-38-A44F	Alive	>65	MALE	WHITE	Stage I	T2	M0	N0
TCGA-73-7499	Alive	>65	FEMALE	WHITE	Stage I	T2	M0	N0
TCGA-97-A4LX	Alive	>65	MALE	WHITE	Stage I	T2	M0	N0
TCGA-86-A4D0	Dead	<=65	MALE	WHITE	Stage II	T2	M0	N0
TCGA-55-7910	Alive	<=65	FEMALE	BLACK OR AFRICAN AMERICAN	Stage II	T2	M0	N0
TCGA-86-8280	Alive	<=65	FEMALE	WHITE	Stage II	T2	M0	N0
TCGA-MP-A4TF	Dead	<=65	FEMALE	WHITE	Stage II	T2	M0	N0
TCGA-97-8174	Dead	>65	MALE	WHITE	Stage II	T2	M0	N0
TCGA-55-A48Y	Alive	>65	MALE	WHITE	Stage II	T2	M0	N0
TCGA-86-7713	Alive	>65	MALE	WHITE	Stage II	T2	M0	N0
TCGA-78-7539	Alive	>65	FEMALE	WHITE	Stage II	T2	M0	N0
TCGA-55-8205	Alive	>65	FEMALE	WHITE	Stage II	T2	M0	N0

TCGA-73-A9RS	Dead	<=65	MALE	BLACK OR AFRICAN AMERICAN	Stage II	T3	M0	N0
TCGA-86-A4JF	Alive	<=65	MALE	WHITE	Stage II	T3	M0	N0
TCGA-86-8672	Dead	<=65	MALE	WHITE	Stage II	T3	M0	N0
TCGA-69-A59K	Alive	<=65	FEMALE	BLACK OR AFRICAN AMERICAN	Stage II	T3	M0	N0
TCGA-44-6146	Alive	<=65	MALE	WHITE	Stage II	T3	M0	N0
TCGA-50-8459	Alive	>65	MALE	WHITE	Stage II	T3	M0	N0
TCGA-38-4629	Dead	>65	MALE	WHITE	Stage II	T3	M0	N0
TCGA-78-7161	Alive	>65	FEMALE	WHITE	Stage II	T3	M0	N0
TCGA-62-8397	Alive	>65	FEMALE	WHITE	Stage II	T3	M0	N0
TCGA-62-A472	Alive	>65	MALE	WHITE	Stage II	T3	M0	N0
TCGA-69-7760	Alive	>65	MALE	WHITE	Stage II	T3	M0	N0
TCGA-44-8119	Alive	>65	MALE	WHITE	Stage II	T3	M0	N0
TCGA-62-8395	Alive	>65	FEMALE	WHITE	Stage II	T3	M0	N0
TCGA-86-8056	Alive	<=65	FEMALE	WHITE	Stage III	T4	M0	N0
TCGA-64-5775	Dead	>65	MALE	WHITE	Stage III	T4	M0	N0
TCGA-99-7458	Alive	>65	FEMALE	WHITE	Stage III	T4	M0	N0
TCGA-53-7813	Alive	<=65	FEMALE	WHITE	Stage III	T4	M0	N0
TCGA-78-7149	Alive	>65	MALE	WHITE	Stage III	T4	M0	N0
TCGA-73-4666	Alive	<=65	FEMALE	WHITE	Stage IV	T1	M1	N0
TCGA-55-6968	Dead	<=65	MALE	WHITE	Stage IV	T1	M1	N0
TCGA-53-7624	Dead	<=65	FEMALE	WHITE	Stage IV	T2	M1	N0
TCGA-50-6591	Dead	<=65	FEMALE	WHITE	Stage IV	T2	M1	N0
TCGA-86-7701	Alive	>65	MALE	WHITE	Stage IV	T2	M1	N0
TCGA-73-4670	Alive	>65	FEMALE	WHITE	Stage IV	T2	M1	N0
TCGA-78-7167	Dead	>65	MALE	WHITE	Stage IV	T2	M1	N0
TCGA-93-A4JN	Alive	>65	MALE	WHITE	Stage IV	T2	M1	N0
TCGA-55-8094	Alive	<=65	MALE	WHITE	Stage IV	T2	M1	N0
TCGA-53-7626	Dead	>65	FEMALE	WHITE	Stage II	T1	M0	N1
TCGA-50-5055	Dead	>65	FEMALE	WHITE	Stage II	T1	M0	N1
TCGA-44-2659	Alive	<=65	FEMALE	WHITE	Stage II	T1	M0	N1
TCGA-44-7670	Alive	<=65	FEMALE	WHITE	Stage II	T1	M0	N1
TCGA-NJ-A55O	Alive	<=65	FEMALE	WHITE	Stage II	T1	M0	N1
TCGA-86-8074	Alive	<=65	FEMALE	WHITE	Stage II	T1	M0	N1
TCGA-55-A48X	Alive	<=65	FEMALE	WHITE	Stage II	T1	M0	N1
TCGA-38-4627	Dead	<=65	FEMALE	WHITE	Stage II	T1	M0	N1
TCGA-86-6851	Alive	>65	FEMALE	WHITE	Stage II	T1	M0	N1
TCGA-49-4510	Dead	<=65	FEMALE	BLACK OR AFRICAN AMERICAN	Stage II	T2	M0	N1
TCGA-MP-A4SW	Dead	<=65	MALE	WHITE	Stage II	T2	M0	N1
TCGA-55-1596	Alive	<=65	MALE	ASIAN	Stage II	T2	M0	N1
TCGA-44-2665	Alive	<=65	FEMALE	WHITE	Stage II	T2	M0	N1
TCGA-67-3776	Alive	<=65	FEMALE	WHITE	Stage II	T2	M0	N1
TCGA-55-6979	Dead	<=65	FEMALE	WHITE	Stage II	T2	M0	N1
TCGA-78-7150	Dead	<=65	MALE	WHITE	Stage II	T2	M0	N1

TCGA-49-4505	Dead	<=65	FEMALE	WHITE	Stage II	T2	M0	N1
TCGA-55-6975	Dead	<=65	MALE	WHITE	Stage II	T2	M0	N1
TCGA-MP-A4SY	Dead	<=65	MALE	WHITE	Stage II	T2	M0	N1
TCGA-86-8278	Alive	<=65	FEMALE	WHITE	Stage II	T2	M0	N1
TCGA-38-4628	Dead	<=65	FEMALE	WHITE	Stage II	T2	M0	N1
TCGA-73-4668	Alive	>65	FEMALE	AMERICAN INDIAN OR ALASKA NATIVE	Stage II	T2	M0	N1
TCGA-78-7147	Dead	>65	FEMALE	WHITE	Stage II	T2	M0	N1
TCGA-49-4506	Dead	>65	FEMALE	WHITE	Stage II	T2	M0	N1
TCGA-MP-A4T4	Dead	>65	FEMALE	WHITE	Stage II	T2	M0	N1
TCGA-62-A46U	Alive	>65	FEMALE	WHITE	Stage II	T2	M0	N1
TCGA-55-6984	Dead	>65	FEMALE	WHITE	Stage II	T2	M0	N1
TCGA-78-7148	Dead	>65	MALE	WHITE	Stage II	T2	M0	N1
TCGA-64-5815	Alive	>65	MALE	WHITE	Stage II	T2	M0	N1
TCGA-50-5932	Dead	>65	MALE	WHITE	Stage II	T2	M0	N1
TCGA-55-6982	Dead	>65	FEMALE	WHITE	Stage II	T2	M0	N1
TCGA-55-6983	Alive	>65	MALE	WHITE	Stage II	T2	M0	N1
TCGA-78-7166	Dead	>65	MALE	WHITE	Stage II	T2	M0	N1
TCGA-73-4676	Alive	<=65	MALE	WHITE	Stage II	T2	M0	N1
TCGA-86-8279	Alive	<=65	MALE	WHITE	Stage II	T2	M0	N1
TCGA-86-8674	Alive	<=65	MALE	WHITE	Stage II	T2	M0	N1
TCGA-86-6562	Dead	<=65	MALE	WHITE	Stage II	T2	M0	N1
TCGA-L9-A743	Alive	<=65	MALE	BLACK OR AFRICAN AMERICAN	Stage II	T2	M0	N1
TCGA-MN-A4N1	Alive	<=65	MALE	BLACK OR AFRICAN AMERICAN	Stage II	T2	M0	N1
TCGA-95-A4VN	Alive	<=65	FEMALE	WHITE	Stage II	T2	M0	N1
TCGA-95-8494	Alive	>65	MALE	WHITE	Stage II	T2	M0	N1
TCGA-L9-A7SV	Alive	>65	MALE	BLACK OR AFRICAN AMERICAN	Stage II	T2	M0	N1
TCGA-49-6742	Alive	>65	MALE	WHITE	Stage II	T2	M0	N1
TCGA-86-7711	Alive	>65	MALE	WHITE	Stage II	T2	M0	N1
TCGA-95-7562	Dead	>65	MALE	BLACK OR AFRICAN AMERICAN	Stage II	T2	M0	N1
TCGA-MP-A4TI	Dead	>65	MALE	WHITE	Stage II	T2	M0	N1
TCGA-67-6217	Alive	>65	FEMALE	WHITE	Stage II	T2	M0	N1
TCGA-86-8055	Dead	>65	MALE	WHITE	Stage II	T2	M0	N1
TCGA-95-7567	Alive	<=65	MALE	WHITE	Stage II	T2	M0	N1
TCGA-86-8054	Alive	<=65	MALE	WHITE	Stage II	T2	M0	N1
TCGA-62-A471	Alive	<=65	MALE	WHITE	Stage II	T2	M0	N1
TCGA-86-8671	Alive	>65	FEMALE	WHITE	Stage II	T2	M0	N1
TCGA-44-A47F	Alive	>65	MALE	WHITE	Stage II	T2	M0	N1
TCGA-73-4675	Alive	<=65	MALE	WHITE	Stage III	T3	M0	N1
TCGA-97-8176	Dead	<=65	MALE	WHITE	Stage III	T3	M0	N1
TCGA-49-4507	Dead	>65	FEMALE	WHITE	Stage III	T3	M0	N1

TCGA-NJ-A7XG	Alive	<=65	MALE	BLACK OR AFRICAN AMERICAN	Stage III	T4	M0	N1
TCGA-50-5044	Dead	>65	FEMALE	WHITE	Stage III	T4	M0	N1
TCGA-38-4632	Dead	<=65	MALE	BLACK OR AFRICAN AMERICAN	Stage IV	T2	M1	N1
TCGA-78-7145	Dead	<=65	FEMALE	WHITE	Stage IV	T4	M1	N1
TCGA-78-7156	Dead	<=65	MALE	WHITE	Stage IV	T4	M1	N1
TCGA-55-8512	Dead	<=65	MALE	WHITE	Stage IV	T1	M1	N1
TCGA-55-8620	Dead	<=65	MALE	WHITE	Stage IV	T1	M1	N1
TCGA-50-6593	Dead	<=65	FEMALE	WHITE	Stage III	T1	M0	N2
TCGA-55-6981	Dead	<=65	FEMALE	WHITE	Stage III	T1	M0	N2
TCGA-44-6774	Alive	<=65	FEMALE	WHITE	Stage III	T1	M0	N2
TCGA-64-1679	Alive	<=65	FEMALE	WHITE	Stage III	T1	M0	N2
TCGA-MP-A4TC	Dead	>65	MALE	WHITE	Stage III	T1	M0	N2
TCGA-86-7714	Dead	<=65	FEMALE	BLACK OR AFRICAN AMERICAN	Stage III	T1	M0	N2
TCGA-50-5051	Dead	<=65	FEMALE	WHITE	Stage III	T2	M0	N2
TCGA-50-5930	Dead	<=65	MALE	WHITE	Stage III	T2	M0	N2
TCGA-78-7220	Dead	<=65	FEMALE	WHITE	Stage III	T2	M0	N2
TCGA-62-8398	Dead	<=65	MALE	WHITE	Stage III	T2	M0	N2
TCGA-50-5936	Dead	<=65	MALE	WHITE	Stage III	T2	M0	N2
TCGA-35-5375	Alive	<=65	MALE	WHITE	Stage III	T2	M0	N2
TCGA-64-5779	Alive	<=65	MALE	WHITE	Stage III	T2	M0	N2
TCGA-62-8399	Alive	<=65	MALE	WHITE	Stage III	T2	M0	N2
TCGA-73-4659	Dead	>65	MALE	WHITE	Stage III	T2	M0	N2
TCGA-55-1594	Alive	>65	MALE	WHITE	Stage III	T2	M0	N2
TCGA-78-7536	Dead	>65	MALE	WHITE	Stage III	T2	M0	N2
TCGA-62-A46Y	Dead	>65	FEMALE	WHITE	Stage III	T2	M0	N2
TCGA-78-7146	Dead	>65	FEMALE	WHITE	Stage III	T2	M0	N2
TCGA-MP-A4TD	Dead	>65	MALE	WHITE	Stage III	T2	M0	N2
TCGA-62-8402	Dead	>65	FEMALE	WHITE	Stage III	T2	M0	N2
TCGA-44-3396	Alive	>65	FEMALE	WHITE	Stage III	T2	M0	N2
TCGA-50-6595	Dead	>65	FEMALE	WHITE	Stage III	T2	M0	N2
TCGA-50-5072	Dead	>65	MALE	WHITE	Stage III	T2	M0	N2
TCGA-64-1677	Dead	>65	FEMALE	WHITE	Stage III	T2	M0	N2
TCGA-NJ-A4YI	Dead	>65	FEMALE	WHITE	Stage III	T2	M0	N2
TCGA-50-5941	Alive	<=65	FEMALE	WHITE	Stage III	T2	M0	N2
TCGA-49-6745	Alive	>65	MALE	WHITE	Stage III	T2	M0	N2
TCGA-97-7554	Alive	>65	FEMALE	WHITE	Stage III	T2	M0	N2
TCGA-44-5643	Alive	<=65	MALE	BLACK OR AFRICAN AMERICAN	Stage III	T2	M0	N2
TCGA-95-A4VP	Alive	>65	FEMALE	WHITE	Stage III	T2	M0	N2
TCGA-95-A4VK	Alive	>65	FEMALE	WHITE	Stage III	T2	M0	N2
TCGA-49-4490	Dead	<=65	FEMALE	WHITE	Stage III	T3	M0	N2
TCGA-86-8359	Dead	<=65	MALE	WHITE	Stage III	T3	M0	N2

TCGA-99-8025	Alive	>65	FEMALE	BLACK OR AFRICAN AMERICAN	Stage III	T3	M0	N2
TCGA-78-7154	Dead	>65	MALE	WHITE	Stage III	T3	M0	N2
TCGA-49-4494	Dead	>65	MALE	WHITE	Stage III	T3	M0	N2
TCGA-50-6594	Dead	>65	FEMALE	BLACK OR AFRICAN AMERICAN	Stage III	T3	M0	N2
TCGA-78-7158	Dead	<=65	FEMALE	WHITE	Stage III	T4	M0	N2
TCGA-62-8394	Dead	<=65	FEMALE	WHITE	Stage III	T4	M0	N2
TCGA-50-5933	Dead	>65	MALE	WHITE	Stage III	T4	M0	N2
TCGA-64-1680	Alive	<=65	MALE	WHITE	Stage IV	T2	M1	N2
TCGA-78-7160	Alive	<=65	MALE	WHITE	Stage IV	T4	M1	N2
TCGA-97-8171	Alive	>65	MALE	ASIAN	Stage IV	T2	M1	N2
TCGA-L9-A5IP	Dead	<=65	FEMALE	BLACK OR AFRICAN AMERICAN	Stage IV	T3	M1	N2

Table S3. Results of one-way Cox regression analysis for the entire cohort. The results of the one-way Cox regression analysis show the p-values, risk ratios (HR) and confidence intervals (CI) for the 339 significant genes in the entire cohort.

gene	HR	HR.95L	HR.95H	pvalue
<i>AL365181.3</i>	1.010557933	1.005207073	1.015937277	0.000105621
<i>AL021154.1</i>	1.058439083	1.001546457	1.118563483	0.043927565
<i>AF111169.3</i>	0.707223513	0.550218895	0.909029302	0.006837771
<i>LINC02285</i>	0.769313368	0.600967471	0.984817126	0.037398583
<i>AL591848.2</i>	0.538803215	0.304178638	0.95440267	0.034010098
<i>GORAB-AS1</i>	1.111677262	1.012675128	1.220358139	0.026106021
<i>AC004080.2</i>	1.082934336	1.032151923	1.13621527	0.00114846
<i>NR2F2-AS1</i>	1.306599356	1.048744571	1.627852885	0.017111935
<i>FAM78B-AS1</i>	1.549695671	1.125310261	2.134128477	0.007295163
<i>AL606489.1</i>	1.08410455	1.045372141	1.124272047	1.36E-05
<i>AC011611.2</i>	1.386943343	1.149764428	1.673048661	0.000629853
<i>AC007728.2</i>	0.786468106	0.620938674	0.996124267	0.046352346
<i>AL590226.1</i>	0.82065802	0.719994365	0.935395633	0.00307412
<i>LINC00847</i>	0.986511773	0.973339409	0.9998624	0.047700379
<i>DEPDC1-AS1</i>	4.82770493	2.380010416	9.792702894	1.28E-05
<i>AC011477.3</i>	0.585933401	0.373413258	0.919404824	0.02004383
<i>AC008073.2</i>	0.407311154	0.169054945	0.981351808	0.045293251
<i>LINC00628</i>	1.882836486	1.315096629	2.695675098	0.00054841
<i>AC064875.1</i>	1.587872928	1.00553295	2.507466748	0.047296609
<i>AC090236.2</i>	0.662104917	0.449126354	0.976079263	0.037321518
<i>AC099788.1</i>	1.34695439	1.027329144	1.766022252	0.03115802
<i>LINC01082</i>	0.64104533	0.445837477	0.921724027	0.01640021
<i>DLGAP1-AS2</i>	1.021060581	1.005740489	1.036614039	0.006890962
<i>AC025048.4</i>	0.879104892	0.783194949	0.986759953	0.028808594
<i>LINC02742</i>	1.36045873	1.094028288	1.691773398	0.005638603
<i>AC011586.2</i>	1.261872188	1.108109735	1.436970877	0.00045086
<i>AF131215.6</i>	0.887368506	0.800090567	0.984167165	0.023692245
<i>HIF1A-AS1</i>	1.205193315	1.057886919	1.373011519	0.005016171
<i>AC012065.1</i>	1.076051078	1.019947741	1.13524044	0.007298153
<i>LUADT1</i>	1.196861163	1.000992956	1.431055668	0.048741194
<i>AC040174.1</i>	1.195937945	1.008012316	1.418898903	0.040222175
<i>AP001189.1</i>	0.828775844	0.692280538	0.992183603	0.040812642
<i>AL135960.1</i>	0.233303923	0.06776693	0.803204761	0.021032821
<i>LINC02323</i>	1.127370858	1.073902918	1.183500884	1.32E-06
<i>AL021026.1</i>	0.573753614	0.335903377	0.980023521	0.041968097
<i>LINC00996</i>	0.840768241	0.736831905	0.959365671	0.009991709
<i>LINC00551</i>	0.721610838	0.548829012	0.948787673	0.019469338
<i>AL136304.1</i>	0.905141689	0.831744178	0.985016185	0.020895598
<i>LINC01352</i>	0.697922329	0.494555746	0.984915414	0.040711954
<i>SH3BP5-AS1</i>	0.951126208	0.912470271	0.991419767	0.017931681
<i>AL512363.1</i>	1.136861707	1.035487312	1.248160673	0.007107875
<i>AL035458.2</i>	1.085463833	1.007397138	1.169580186	0.031279693

AC012085.2	1.037142441	1.012903986	1.061960914	0.002505953
AC246787.2	0.858309504	0.739606832	0.996063275	0.044230057
AP000302.1	0.380789585	0.159933577	0.906630807	0.029151933
AC004943.2	1.096559511	1.006662626	1.194484358	0.034675934
AC018529.1	0.63885936	0.451407665	0.904152308	0.01145316
AC084757.3	1.938696916	1.40457875	2.675923817	5.67E-05
AL031667.3	1.055275844	1.016132605	1.09592695	0.00527382
AP002026.1	0.787341291	0.650801143	0.952527997	0.013875688
AC006017.1	0.851433952	0.740034021	0.979603308	0.024576173
AC015914.1	0.793748458	0.633643571	0.994307594	0.044470351
FENDRR	0.893230476	0.820046902	0.972945184	0.009630406
AC010327.4	1.653166252	1.179305303	2.317430991	0.00353439
AL122010.1	0.914788403	0.862619366	0.970112492	0.002951181
AC087501.4	0.796909029	0.656399381	0.967496343	0.021799089
LINC00592	1.087937888	1.038646156	1.139568891	0.000366888
LINC01116	1.032557646	1.022259553	1.042959481	3.73E-10
AC087854.1	0.691122933	0.485657119	0.983514687	0.040139858
AC025279.1	0.198285619	0.043588409	0.902010141	0.036314309
AL353801.3	0.731647996	0.559237865	0.957211276	0.022671792
ABALON	1.118352717	1.032462494	1.21138812	0.006078346
AL355385.1	0.812120616	0.680419386	0.969313792	0.021155348
AC073316.1	1.135614569	1.004062564	1.284402483	0.04291815
AC123905.1	1.111921534	1.002489816	1.23329881	0.044748824
LINC01337	0.422101214	0.232985051	0.764724747	0.004446111
LINC01537	1.306531555	1.184129093	1.441586661	9.96E-08
LINC01415	1.373092184	1.125922437	1.674522227	0.001740627
AC083967.1	1.046358692	1.022015394	1.071281822	0.000161214
LINC01096	1.220322904	1.039942383	1.431990863	0.014692157
LINC02617	1.010415382	1.000833215	1.020089291	0.033066241
BZW1-AS1	1.527358042	1.272597466	1.833118996	5.39E-06
LINC00471	1.159071603	1.001187257	1.341853854	0.048172258
AP001178.1	1.263705069	1.004861171	1.589225007	0.045345748
AC004830.2	1.310311471	1.099999697	1.560833295	0.002464307
AC025166.1	1.092793613	1.020668814	1.170015056	0.010858604
LINC00578	0.951623737	0.920277587	0.984037587	0.003713106
AL049775.1	1.190728633	1.032466617	1.373249899	0.016437001
LINC01414	1.332835932	1.082095375	1.641677491	0.006893134
CASC15	1.03259359	1.007272358	1.058551357	0.011341822
AC021066.1	1.221131071	1.107402053	1.346539939	6.20E-05
AC127070.2	0.813202238	0.672826601	0.982865242	0.032457628
AC243960.3	0.760573966	0.59389706	0.974028659	0.030123562
AC023090.1	1.051186958	1.002725215	1.10199086	0.038174384
AC012050.1	1.207254856	1.069214997	1.363116202	0.002364009
PAN3-AS1	0.847303211	0.722325745	0.993904393	0.041845007
KCNQ1-AS1	1.38660822	1.143077944	1.682022094	0.00090985
AC245041.2	1.014388224	1.000331555	1.028642416	0.044800209

<i>AC002059.1</i>	0.878633725	0.777496817	0.992926537	0.03810385
<i>RASSF10-DT</i>	0.912176144	0.840707532	0.989720308	0.027231444
<i>AC026462.3</i>	1.093499334	1.027903565	1.163281103	0.004626879
<i>AL596223.1</i>	1.086789065	1.021003429	1.156813424	0.008990716
<i>AP002856.2</i>	0.584437158	0.382501429	0.892981742	0.013017513
<i>LINC0195</i>	1.058973565	1.007223868	1.113382085	0.024991054
<i>6 FAM30A</i>	0.916719953	0.844818444	0.994740916	0.036934112
<i>AL109811.1</i>	0.512169913	0.28061647	0.934791959	0.029285274
<i>AC034223.1</i>	1.435423082	1.227758716	1.678212013	5.80E-06
<i>AC010976.2</i>	0.810317325	0.676175095	0.971071209	0.022733337
<i>AC010999.2</i>	0.562749926	0.367079407	0.862721998	0.008355905
<i>SYNPR-AS1</i>	0.96404977	0.933114043	0.996011117	0.027796438
<i>AC007128.2</i>	1.105892419	1.024617944	1.193613726	0.009754496
<i>LINC00968</i>	0.790218359	0.635847641	0.98206711	0.033741958
<i>AC021086.1</i>	2.481531523	1.192793485	5.162669627	0.015030732
<i>AC122134.1</i>	1.11906127	1.05211642	1.190265737	0.000351362
<i>TDRKH-AS1</i>	0.920070388	0.854906213	0.990201622	0.02623695
<i>TMPO-AS1</i>	1.099220753	1.050127106	1.150609539	4.95E-05
<i>LINC02178</i>	1.04031107	1.02220198	1.058740976	1.03E-05
<i>LINC02587</i>	1.01053917	1.00416145	1.016957397	0.001172202
<i>AL591686.1</i>	0.342646192	0.137882288	0.85149742	0.021105381
<i>AP000695.2</i>	1.114021919	1.057223154	1.173872168	5.25E-05
<i>PRR34</i>	1.467169103	1.027510304	2.0949524	0.034919188
<i>AC090559.1</i>	0.941808337	0.898195661	0.987538664	0.013200298
<i>AL391807.1</i>	0.504235384	0.28053705	0.906309245	0.022090775
<i>ATP13A4-AS1</i>	0.946756479	0.903615246	0.991957401	0.021486819
<i>LINC00519</i>	1.045403901	1.022542401	1.068776527	8.29E-05
<i>IL12A-AS1</i>	1.099924253	1.038743831	1.164708107	0.001107114
<i>AC084117.1</i>	1.042067007	1.003520858	1.082093748	0.032135006
<i>AC007128.1</i>	1.063754136	1.008304471	1.122253144	0.023651253
<i>ZEB1-AS1</i>	1.07367728	1.027569023	1.12185447	0.001501835
<i>AC005332.4</i>	0.91656605	0.852017218	0.986005102	0.019375703
<i>AL355102.4</i>	1.23726697	1.002442547	1.527099542	0.047402902
<i>AF131215.5</i>	0.911574537	0.840305868	0.9888877	0.025813824
<i>AC009318.2</i>	1.082688727	1.015125777	1.154748412	0.015665776
<i>AL136295.6</i>	0.915516834	0.845152528	0.991739414	0.030521401
<i>AC005180.2</i>	0.781319591	0.615757312	0.991397571	0.042247546
<i>GACAT2</i>	1.137245881	1.007191023	1.284094242	0.037930661
<i>AC068228.2</i>	1.041974729	1.013540654	1.071206498	0.003582803
<i>ADPGK-AS1</i>	0.297316148	0.109276019	0.80893221	0.017540705
<i>AC104971.3</i>	0.86334478	0.750256663	0.993478959	0.040238158
<i>UCA1</i>	1.003195825	1.000013723	1.006388052	0.049018561
<i>MIR4527HG</i>	1.121364663	1.05771455	1.188845051	0.000122069
<i>LINC02320</i>	1.080322828	1.045020917	1.116817276	5.17E-06
<i>LINC00626</i>	1.113982574	1.026782333	1.208588361	0.009445927
<i>AC092171.2</i>	1.017951948	1.002707883	1.033427767	0.020819764

<i>LINC02802</i>	1.111789136	1.068083019	1.157283713	2.23E-07
<i>AC107021.2</i>	1.060752534	1.005722189	1.118793988	0.030015195
<i>RPARP-AS1</i>	0.957661035	0.922803778	0.993834962	0.022203617
<i>LEMD1-AS1</i>	1.363538416	1.006735667	1.846797599	0.045141366
<i>LINC01876</i>	1.055222773	1.007461876	1.105247878	0.022933194
<i>AC009275.1</i>	1.058793023	1.020483358	1.098540859	0.002378984
<i>AC009318.3</i>	1.106497465	1.016513364	1.204447165	0.019365336
<i>AC099524.1</i>	0.72835673	0.539526605	0.983275933	0.038441712
<i>AC005291.1</i>	1.039277216	1.011435646	1.067885174	0.005424553
<i>AC012464.1</i>	1.070173268	1.005792479	1.138675073	0.032159896
<i>AC026355.2</i>	0.916802154	0.870389078	0.965690184	0.001048816
<i>AL161431.1</i>	1.008174353	1.002287413	1.014095871	0.006437371
<i>AC018647.1</i>	0.312013376	0.147920145	0.658141232	0.002224433
<i>AC004817.3</i>	1.075770437	1.014654812	1.140567236	0.014385684
<i>AC135050.6</i>	0.989769813	0.98161109	0.997996347	0.014896499
<i>AC237221.1</i>	1.106328138	1.004122237	1.218937201	0.041038227
<i>AC010275.1</i>	1.061951236	1.011232149	1.115214175	0.016071006
<i>AC079313.2</i>	1.671281517	1.187906608	2.351348068	0.00319299
<i>L3MBTL2-AS1</i>	0.770753714	0.610807399	0.972583646	0.028219451
<i>AL354811.1</i>	1.29927157	1.110509823	1.520118577	0.001080658
<i>AC104072.1</i>	1.058584457	1.014597555	1.10447837	0.008557939
<i>AC026310.2</i>	0.295973674	0.08774283	0.99837692	0.049694705
<i>ST7-AS1</i>	1.022531858	1.003050282	1.042391811	0.023190396
<i>AC090948.1</i>	0.865076447	0.762808529	0.98105518	0.023950003
<i>AC010343.3</i>	1.121047473	1.051388163	1.195322033	0.000481295
<i>HLA-DQB1-AS1</i>	0.975567788	0.961741079	0.989593281	0.000682884
<i>MYO16-AS1</i>	1.023016563	1.006955734	1.039333561	0.004824577
<i>FGD5-AS1</i>	1.0066483	1.000820037	1.012510504	0.025309441
<i>AC008752.2</i>	0.536238438	0.302070665	0.95193508	0.03332179
<i>LINC01235</i>	1.123659032	1.036124246	1.218589011	0.004839098
<i>AC022034.4</i>	1.32772109	1.011440219	1.742904088	0.041160992
<i>LINC00239</i>	1.024292103	1.005320704	1.043621511	0.011859489
<i>AC104938.1</i>	0.621569274	0.397545715	0.971833798	0.037046187
<i>AC008655.2</i>	0.837456175	0.717392214	0.97761424	0.024658168
<i>AL121820.1</i>	1.158074104	1.056123853	1.269865864	0.001800263
<i>AC012615.1</i>	0.940942816	0.891983801	0.992589082	0.025561648
<i>KTN1-AS1</i>	1.153229837	1.053259053	1.262689415	0.002059369
<i>SMILR</i>	1.045403997	1.025164542	1.066043031	8.53E-06
<i>LINC00460</i>	1.006523089	1.002322427	1.010741356	0.002310594
<i>LINC02212</i>	1.166954929	1.047432327	1.300116267	0.005101873
<i>SLC2A1-AS1</i>	1.224471145	1.058300619	1.416733165	0.006499403
<i>AL117335.1</i>	1.302721333	1.063943904	1.595086793	0.010468278
<i>AP005137.2</i>	1.126239731	1.066440111	1.189392558	1.95E-05
<i>AC105036.3</i>	1.269835586	1.027776973	1.568903038	0.026837373
<i>AC079949.1</i>	1.010203792	1.000286106	1.020219812	0.043717118

<i>MIR193BHG</i>	1.098457878	1.053999678	1.144791346	8.39E-06
<i>AL606834.1</i>	1.057295742	1.004128165	1.113278489	0.034305671
<i>AL691432.2</i>	0.949654441	0.918921468	0.981415265	0.002086598
<i>AL009178.2</i>	1.213844885	1.018436508	1.446746453	0.030467607
<i>NKILA</i>	1.0359833	1.02106517	1.05111939	1.78E-06
<i>HAGLR</i>	0.994663907	0.989501019	0.999853734	0.043898925
<i>HOXA10-AS</i>	1.212375326	1.06164957	1.384500096	0.004466686
<i>AL359878.1</i>	0.712798689	0.521658622	0.973974071	0.033542924
<i>HAS2-AS1</i>	1.151461039	1.068070815	1.241362002	0.000236129
<i>AC123595.1</i>	0.795476777	0.686959109	0.921136782	0.002230269
<i>DDX11-AS1</i>	1.214759137	1.057504246	1.395398427	0.005951813
<i>AL024497.1</i>	1.123126183	1.046601753	1.205245853	0.001259545
<i>AP000438.1</i>	0.411747232	0.202345309	0.837853785	0.014363866
<i>AL162497.1</i>	1.842753908	1.106583316	3.068672658	0.018814245
<i>AP002840.2</i>	0.936446637	0.882050899	0.994196939	0.031509458
<i>KHDRBS2-OT1</i>	0.808177291	0.655241969	0.996808147	0.046609286
<i>FAM66C</i>	1.511295301	1.140214763	2.003143234	0.004069069
<i>MIR31HG</i>	1.028717635	1.005128794	1.05286007	0.016748026
<i>APCDD1L-DT</i>	1.077852311	1.022940076	1.135712279	0.004952454
<i>AC009065.4</i>	0.903233394	0.822637116	0.991725937	0.032827098
<i>LINC01800</i>	0.159773076	0.044083746	0.57906685	0.005245642
<i>AC025419.1</i>	1.022107018	1.012496922	1.031808328	5.71E-06
<i>AL359232.1</i>	1.66091549	1.050364242	2.626365363	0.029996673
<i>AL021368.2</i>	0.761648876	0.580252637	0.999752476	0.049791871
<i>AC024896.1</i>	1.020899423	1.009685226	1.032238171	0.000242265
<i>FOCAD-AS1</i>	0.666813592	0.450880406	0.986160324	0.042380174
<i>GSEC</i>	1.047876551	1.02258318	1.073795548	0.000175902
<i>LINC00598</i>	1.282973887	1.11474256	1.476593838	0.000511547
<i>LINC00941</i>	1.037225559	1.026203577	1.048365923	2.01E-11
<i>AC009743.1</i>	1.162558735	1.081307297	1.249915558	4.61E-05
<i>LINC02163</i>	1.072269071	1.029299247	1.117032743	0.000826171
<i>AP003064.2</i>	0.795293091	0.642010146	0.98517306	0.036019406
<i>AC046134.2</i>	1.126410604	1.033321124	1.227886298	0.006835611
<i>LINC02360</i>	1.046899739	1.010074356	1.085067706	0.012120729
<i>AC009974.1</i>	0.874813872	0.767809691	0.996730465	0.044520085
<i>LINC01686</i>	1.161911482	1.012100621	1.333897306	0.033110106
<i>AC027601.2</i>	0.689052299	0.499322836	0.950873935	0.023419554
<i>LINC01048</i>	2.477286994	1.287858311	4.765237602	0.006569656
<i>AC024075.2</i>	0.956851687	0.925783617	0.98896236	0.008818576
<i>AC012676.4</i>	0.661909175	0.455714996	0.961398591	0.030259806
<i>VIM-AS1</i>	0.942484016	0.904809704	0.981727004	0.004427067
<i>AC108136.1</i>	1.073737122	1.04254361	1.105863961	2.25E-06
<i>LINC01117</i>	1.204270313	1.132287046	1.280829796	3.41E-09
<i>AL360270.1</i>	1.136150535	1.007353352	1.281415342	0.037588916
<i>AC245041.1</i>	1.02469437	1.010036683	1.03956477	0.000905015

<i>LINC01150</i>	0.863347547	0.766981071	0.97182188	0.014962121
<i>LINC01385</i>	1.081698859	1.029928338	1.136071686	0.001698365
<i>AC060234.2</i>	0.506881559	0.273383869	0.939810078	0.031003206
<i>AC034102.8</i>	0.75289254	0.602980774	0.940075043	0.012229738
<i>LINC01600</i>	1.457417177	1.057064035	2.009400337	0.021526096
<i>LINC01638</i>	1.153015386	1.040621413	1.277548649	0.006510751
<i>AL121985.1</i>	0.455818791	0.207952639	0.999125431	0.049745124
<i>AC005034.3</i>	1.037577236	1.015412905	1.060225367	0.00081311
<i>AP001528.1</i>	1.097766237	1.018284893	1.183451429	0.014995369
<i>AL356608.1</i>	0.255017943	0.070854663	0.917852802	0.036515016
<i>AP003548.1</i>	0.204841288	0.055209419	0.760014398	0.017778906
<i>AC114550.2</i>	0.537777959	0.290685719	0.994906576	0.048128451
<i>AC103808.6</i>	1.156912255	1.026888805	1.303399121	0.016567364
<i>CRNDE</i>	0.986888111	0.977503692	0.996362624	0.006779819
<i>GCC2-AS1</i>	1.291240222	1.072221737	1.554996744	0.007032888
<i>PPP1R12A-AS1</i>	1.206564915	1.007444289	1.445041587	0.041294502
<i>LINC00892</i>	0.75146881	0.607346068	0.929791766	0.008538081
<i>ABCA9-AS1</i>	1.567709086	1.283962628	1.914161458	1.02E-05
<i>AC107959.1</i>	0.765476361	0.594108125	0.986275115	0.038749139
<i>LINC00602</i>	1.748816911	1.236888506	2.472624308	0.001561119
<i>AC004704.1</i>	1.020940511	1.009200998	1.032816583	0.000444555
<i>LINC02410</i>	0.509924384	0.260126444	0.99960186	0.049864612
<i>AL359962.1</i>	1.058611232	1.013091851	1.10617585	0.011085332
<i>AC008764.2</i>	0.96430039	0.932004169	0.997715754	0.036479816
<i>AC010998.1</i>	0.762926945	0.584942734	0.995067533	0.045885401
<i>AL031600.2</i>	0.450346933	0.253046479	0.801482642	0.006680274
<i>HOXA11-AS</i>	1.114004328	1.028241035	1.206920948	0.008258418
<i>AC009226.1</i>	1.23021162	1.020750369	1.482654993	0.029582901
<i>AL162632.3</i>	3.695901635	1.69840779	8.042643809	0.000983583
<i>AC105020.5</i>	0.686704909	0.530769393	0.888452948	0.004237272
<i>AL138826.1</i>	1.081918195	1.003449042	1.166523592	0.040404193
<i>AL590428.1</i>	1.461180399	1.119350562	1.907399015	0.005284131
<i>GLCCI1-DT</i>	0.661247844	0.447525873	0.977035604	0.037838445
<i>AC108174.1</i>	1.09560557	1.000717017	1.199491509	0.048214677
<i>AC087752.3</i>	0.849131091	0.766026139	0.941251966	0.001857739
<i>PLUT</i>	1.207351278	1.096369489	1.329567378	0.000128103
<i>LINC02404</i>	1.012478295	1.000747729	1.024346365	0.037008192
<i>AP000346.1</i>	0.628936281	0.404247267	0.978512108	0.039754972
<i>ITGB1-DT</i>	1.017452248	1.006661401	1.028358767	0.001470699
<i>COLCA1</i>	0.977889062	0.958681441	0.997481518	0.027167152
<i>AC103591.3</i>	0.947287851	0.897790108	0.999514546	0.047962833
<i>AL442125.1</i>	1.032706274	1.003200839	1.063079501	0.029552016
<i>MANCR</i>	1.056360523	1.0163666	1.097928203	0.005363192
<i>AC034223.2</i>	1.045836998	1.018342939	1.074073363	0.000976443
<i>MMP2-AS1</i>	0.921511527	0.866019617	0.98055919	0.009894085

<i>AC010327.6</i>	1.16948204	1.00126327	1.365962661	0.048166423
<i>AL138789.1</i>	1.038011263	1.013629782	1.062979207	0.002096051
<i>LINC00707</i>	1.021070557	1.012762422	1.029446847	5.67E-07
<i>AP000977.1</i>	0.291992556	0.092806311	0.918683784	0.035292162
<i>AL049555.1</i>	1.023427521	1.010228589	1.036798901	0.000471329
<i>AC079061.1</i>	1.63700646	1.131837759	2.367645122	0.008852105
<i>AC046143.1</i>	1.1011228	1.042017881	1.163580245	0.000621294
<i>AC007671.1</i>	0.643030113	0.425912425	0.970828043	0.035656813
<i>AC026356.1</i>	1.066578976	1.003872934	1.133201895	0.037069134
<i>LNCAROD</i>	1.020632366	1.007622889	1.033809809	0.001807313
<i>LINC01747</i>	2.277931742	1.366151381	3.798241611	0.001599421
<i>CYP1B1-AS1</i>	0.750027118	0.563999287	0.997413811	0.047954784
<i>GAS6-DT</i>	1.033523453	1.006472118	1.061301857	0.014821969
<i>LINC01138</i>	1.098581531	1.038645205	1.161976559	0.001021227
<i>LINC00671</i>	0.322219065	0.106249596	0.977181372	0.045420097
<i>AC008105.1</i>	1.139684855	1.018229664	1.275627312	0.022955227
<i>AP001094.3</i>	1.225739043	1.005455273	1.494284471	0.044031609
<i>AC093673.1</i>	1.011318769	1.003937623	1.018754182	0.00260004
<i>DIRC3</i>	1.117901687	1.054523193	1.185089329	0.000182015
<i>AC090617.5</i>	0.907419292	0.8395815	0.980738346	0.014263096
<i>AC090023.2</i>	1.123323834	1.063139905	1.186914751	3.48E-05
<i>TESC-AS1</i>	1.151222412	1.024322027	1.293844129	0.018116001
<i>TRHDE-AS1</i>	1.244647685	1.030786439	1.50287955	0.022894405
<i>DLGAP1-</i>	1.008803118	1.000317726	1.017360488	0.041984366
<i>AS1</i>	1.046334102	1.012593087	1.081199415	0.006763683
<i>AC112721.2</i>	1.799945462	1.437009643	2.254545529	3.13E-07
<i>FLG-AS1</i>				
<i>TSPOAP1-</i>	0.720639205	0.54757979	0.948393043	0.019381398
<i>AS1</i>	0.610590436	0.387570077	0.961943923	0.03339778
<i>AC007613.1</i>	0.625632803	0.396747439	0.986563154	0.04357275
<i>LINC02728</i>	1.026161423	1.012255933	1.040257935	0.000207359
<i>AL161668.1</i>	0.925074796	0.866124856	0.988036969	0.020438247
<i>MIR223HG</i>	1.299719611	1.058978439	1.595189293	0.01213272
<i>AL358115.1</i>	1.138634374	1.059795219	1.223338448	0.000390672
<i>AF121898.1</i>	1.068802649	1.010346237	1.130641221	0.020414559
<i>LINC01711</i>	1.175817332	1.011318767	1.367072819	0.035175013
<i>AC006058.3</i>	1.106056162	1.015162111	1.205088547	0.021227715
<i>LINC01338</i>	0.419906892	0.206999504	0.851798167	0.016197009
<i>LINC00639</i>				
<i>MIR4435-2H</i>	1.035433808	1.005628083	1.066122943	0.01946166
<i>G MIR497HG</i>	0.621359817	0.413525904	0.933648941	0.021996633
<i>AC125807.2</i>	1.10080618	1.039560672	1.165659954	0.001007757
<i>AC016168.1</i>	1.262564503	1.014834586	1.570767439	0.036429308
<i>ZEB2-AS1</i>	0.445124159	0.206371132	0.960093184	0.039036309
<i>STXBP5-AS1</i>	1.636536755	1.151818965	2.325237413	0.005983707
<i>AC131254.1</i>	2.359625285	1.281544179	4.344627033	0.005843392

<i>SATB2-AS1</i>	2.1497628	1.403626884	3.292527487	0.000433443
<i>AC107959.3</i>	1.088871642	1.041546307	1.138347326	0.000173033
<i>MIR1-1HG-AS1</i>	0.261037985	0.072311841	0.942319107	0.040298586
<i>AC005291.2</i>	1.021318746	1.00887915	1.033911724	0.000741416
<i>LINC02310</i>	1.197449903	1.079869984	1.327832324	0.000632815
<i>FRMD6-AS1</i>	1.584761118	1.250944422	2.007657379	0.00013606
<i>AC079949.2</i>	1.081098298	1.052403367	1.110575627	1.34E-08
<i>AC005180.1</i>	0.695936866	0.499239309	0.970132185	0.032445208
<i>AL137779.1</i>	0.649380947	0.441341573	0.955485819	0.028447772
<i>AP000695.1</i>	1.064896756	1.027451617	1.103706572	0.00057579
<i>AC244153.1</i>	1.038072342	1.012103941	1.064707036	0.003843168
<i>LINC02147</i>	0.100883916	0.021672901	0.469598633	0.003463647
<i>AC007686.2</i>	0.242396846	0.075328008	0.780005111	0.017471814
<i>AC091057.1</i>	1.121974531	1.021803951	1.23196514	0.015864765
<i>AC026368.1</i>	1.039398709	1.013263202	1.066208339	0.002939186
<i>AC244250.1</i>	1.398925224	1.121985306	1.744222294	0.002858403
<i>AL590666.2</i>	1.014515947	1.005936872	1.023168189	0.000880689
<i>AL049836.1</i>	1.032089163	1.017160489	1.047236942	2.15E-05
<i>LINC00377</i>	1.322247484	1.106745719	1.57971102	0.002088727
<i>LINC01312</i>	1.899501027	1.578384814	2.285947076	1.12E-11
<i>AC092384.1</i>	0.203092605	0.042093888	0.979871627	0.047112479
<i>ZFHX4-AS1</i>	1.215366094	1.052344445	1.403641887	0.007947861
<i>OGFRP1</i>	1.302639341	1.141952079	1.485937356	8.28E-05
<i>AL513218.1</i>	0.924332569	0.859676022	0.993851958	0.033449545
<i>PICSAR</i>	1.016868451	1.002024535	1.031932264	0.025778827
<i>AL157931.1</i>	1.04727287	1.001107854	1.095566736	0.044632498

Table S4. Results of the univariate Cox regression analysis of the training cohort. Results of one-way Cox regression analysis showed p-values and risk ratios (HR) with confidence intervals (CI) for 415 differentially expressed genes in the training cohort.

Id	HR	HR.95L	HR.95H	pvalue
AL365181.3	1.121524	1.012109	1.242768	0.028541
AF111169.3	0.6554	0.436699	0.983627	0.041384
AL591848.2	0.422923	0.208686	0.857094	0.016947
GORAB-AS1	2.106562	1.149762	3.859585	0.015879
AC013403.2	0.705704	0.506625	0.98301	0.039274
AL035658.1	0.536224	0.293985	0.978063	0.042123
AC004080.2	1.68244	1.132271	2.499935	0.010031
NR2F2-AS1	1.585951	1.013403	2.481976	0.043567
AC009970.1	0.334589	0.160076	0.699353	0.003607
AL606489.1	1.328958	1.097768	1.608836	0.003539
AC011611.2	1.99153	1.300014	3.050884	0.001548
AC005785.1	0.705691	0.501853	0.992321	0.045039
AL590226.1	0.733049	0.548819	0.979121	0.03548
AC104984.2	0.351308	0.13988	0.882312	0.025984
AC084876.1	0.591629	0.371553	0.942061	0.027006
LINC02418	0.805688	0.655108	0.99088	0.040682
DEPDC1-AS1	3.731495	1.268312	10.97842	0.016772
LNC SRLR	1.341388	1.011427	1.778992	0.041466
AC011477.3	0.466363	0.261186	0.832719	0.009913
LINC00628	2.372081	1.435054	3.920946	0.000755
AC024075.3	0.748961	0.565776	0.991459	0.043393
AC011444.1	0.658098	0.473801	0.914082	0.012566
AL078645.1	0.361341	0.191324	0.682441	0.001703
Z69666.1	0.539512	0.292786	0.99415	0.047841
DLGAP1-AS2	1.242808	1.050134	1.470832	0.011435
AC090844.2	0.575906	0.366791	0.904243	0.016518
AC020978.3	0.69087	0.4948	0.964636	0.029903
AC011483.1	1.77888	1.100471	2.87551	0.018739
LINC01811	0.285883	0.082892	0.985972	0.047442
AC027117.1	0.840714	0.736276	0.959966	0.010357
IGBP1-AS2	0.36377	0.162669	0.813486	0.01379
AC008870.2	0.747707	0.572887	0.975876	0.032381
LINC02742	1.902716	1.266303	2.858974	0.001959
HIF1A-AS1	1.64015	1.205158	2.232149	0.001651
AC079193.2	0.145523	0.025192	0.840633	0.031243
SEPSECS-AS1	0.63819	0.417598	0.975308	0.03794
DRAIC	0.885025	0.795445	0.984693	0.024879
LUADT1	3.001165	1.53447	5.869774	0.001323
AC007036.2	0.58431	0.355386	0.960696	0.034174
ILF3-DT	0.662218	0.48579	0.902719	0.009123
LINC02323	1.596329	1.321773	1.927914	1.19E-06
U91328.1	0.608196	0.431587	0.857074	0.004494

AC024257.3	0.697589	0.489221	0.994705	0.046669
Z97989.1	0.635312	0.409129	0.986537	0.043349
LINC00996	0.714139	0.531722	0.959137	0.025273
LINC01215	0.71354	0.544278	0.93544	0.014564
AL136304.1	0.77237	0.597693	0.998097	0.048322
AC091544.4	0.719373	0.52724	0.98152	0.037744
AC006942.1	0.721516	0.540889	0.962461	0.026403
LINC01010	0.629138	0.414679	0.954508	0.029341
SH3BP5-AS1	0.766118	0.622935	0.942211	0.011607
AL512363.1	1.499905	1.166022	1.929395	0.001602
AC119424.1	0.576554	0.336807	0.986958	0.044662
AC246787.2	0.705471	0.515834	0.964825	0.028952
AP000302.1	0.354708	0.142567	0.882516	0.025834
AC004943.2	1.561721	1.125273	2.167451	0.007682
AC018529.1	0.568153	0.35463	0.910238	0.01872
AC084757.3	4.639914	2.384598	9.028276	6.22E-06
AL611929.1	0.696224	0.525692	0.922076	0.01154
ZFAS1	1.269639	1.023286	1.575301	0.030074
AP002026.1	0.668353	0.459136	0.972905	0.035435
AC006017.1	0.726768	0.540217	0.977739	0.03497
GUSBP11	0.615601	0.394726	0.96007	0.032381
FENDRR	0.782338	0.622086	0.983872	0.035817
AC010327.4	2.882363	1.601604	5.187309	0.000414
AL122010.1	0.612343	0.443538	0.845393	0.002876
LINC01820	0.27101	0.081648	0.899552	0.032933
AC087501.4	0.561897	0.350362	0.901148	0.016763
LINC00592	1.337816	1.099084	1.628404	0.003708
LINC01116	1.319456	1.151557	1.511835	6.55E-05
AC087854.1	0.446235	0.245661	0.810573	0.008059
AC078852.1	0.501564	0.26111	0.963449	0.038288
AC025279.1	0.182428	0.034899	0.953618	0.043774
AC018809.1	0.745077	0.56083	0.989854	0.042323
AL353801.3	0.54232	0.359046	0.819147	0.003637
ABALON	1.497968	1.11136	2.019063	0.007974
AL355385.1	0.701823	0.502732	0.979757	0.037515
LINC01337	0.397568	0.19936	0.792842	0.008816
LINC01537	2.12927	1.365078	3.32127	0.000862
AC015871.3	0.735357	0.581579	0.929797	0.010227
LINC01415	1.829631	1.108053	3.021111	0.018228
AC083967.1	1.246077	1.005244	1.544608	0.044676
AC131009.1	1.420159	1.080664	1.866308	0.011852
COPDA1	0.778267	0.62211	0.97362	0.02824
AC005070.3	0.500836	0.287349	0.872932	0.014712
AC091544.5	0.61133	0.40641	0.919574	0.018154
BZW1-AS1	2.280438	1.491225	3.487331	0.000143
AC004830.2	1.629979	1.15651	2.297282	0.005263

LINC00637	0.369463	0.141333	0.965823	0.042266
AC007431.1	0.054674	0.004339	0.688951	0.024565
AC008937.3	0.514346	0.290029	0.912156	0.022936
CASC15	1.239571	1.048446	1.465537	0.011948
AC021066.1	1.439329	1.050656	1.971785	0.02335
AC127070.2	0.635297	0.418695	0.963951	0.032962
EP300-AS1	0.76975	0.597262	0.992053	0.043218
AL031772.1	0.073804	0.005481	0.99389	0.049462
AC023090.1	1.355413	1.129313	1.626781	0.001091
AL139123.1	0.663452	0.480518	0.916029	0.012672
PAN3-AS1	0.579678	0.399577	0.840955	0.004073
KCNQ1-AS1	2.19568	1.166747	4.13201	0.014768
AC092718.5	1.492727	1.146284	1.943874	0.002947
AL590822.2	0.278926	0.084013	0.926042	0.037027
RASSF10-DT	0.707524	0.558236	0.896735	0.004218
AC026462.3	1.338182	1.024446	1.748001	0.032586
AC010401.1	0.027882	0.001212	0.641488	0.025257
AL596223.1	1.544566	1.211703	1.968869	0.000447
AC025569.1	0.627835	0.416698	0.945953	0.026039
AC004233.1	0.676688	0.472459	0.969198	0.033118
AC104458.1	3.50558	1.444839	8.505507	0.005542
LINC00926	0.757149	0.602726	0.951138	0.016829
FAM30A	0.765726	0.603496	0.971566	0.02799
AL109811.1	0.432345	0.207845	0.899334	0.02484
AC120498.2	0.811297	0.675655	0.97417	0.02507
AC034223.1	2.224613	1.571981	3.148193	6.39E-06
AC010976.2	0.65349	0.454171	0.940282	0.021926
CSNK1G2- AS1	0.362899	0.143294	0.919058	0.032517
AC010999.2	0.441567	0.247961	0.786341	0.005497
SYNPR-AS1	0.816387	0.704346	0.94625	0.007071
LINC01572	1.663946	1.072154	2.582385	0.023169
AC007128.2	1.274264	1.011241	1.6057	0.039905
AC007114.2	0.399832	0.162819	0.981859	0.045511
LINC00662	1.363575	1.011804	1.837647	0.041646
AC119403.1	0.597131	0.401337	0.888443	0.010977
AL513320.1	0.776324	0.612755	0.983556	0.035966
AC122134.1	1.690002	1.203117	2.373922	0.002474
TMPO-AS1	1.398643	1.066975	1.833409	0.015125
AC015795.1	0.469949	0.229431	0.962608	0.039005
LINC02178	1.358744	1.198596	1.54029	1.66E-06
AL591686.1	0.350363	0.127592	0.962085	0.041855
AP000695.2	1.535965	1.239967	1.902621	8.52E-05
AC079148.1	0.545622	0.327928	0.907833	0.01969
AL391807.1	0.417016	0.198128	0.877728	0.021254
ATP13A4-AS1	0.802141	0.661364	0.972883	0.025145

LINC00519	1.337838	1.072918	1.668171	0.009736
AC111170.3	0.472685	0.236737	0.943795	0.033676
ERCC8-AS1	0.532886	0.289397	0.98124	0.043304
ZEB1-AS1	1.786114	1.265586	2.520732	0.000967
AC005332.4	0.718851	0.538878	0.958933	0.024756
Z69706.1	0.781343	0.61711	0.989283	0.040417
AC005550.1	2.154241	1.053092	4.406788	0.035586
AC108472.1	0.44081	0.237333	0.818739	0.009513
AL139300.2	0.398756	0.172496	0.921798	0.031522
AF131215.5	0.769585	0.60118	0.985164	0.037655
AC009318.2	1.577862	1.114803	2.233262	0.010079
HCFC1-AS1	0.552701	0.34897	0.875374	0.011494
RAMP2-AS1	0.597839	0.382303	0.934891	0.024127
AC016168.2	1.534136	1.15384	2.039775	0.003235
AL136090.1	0.250842	0.074347	0.846321	0.025821
ADPGK-AS1	0.159823	0.045681	0.559164	0.004108
AC104971.3	0.663316	0.489607	0.898656	0.008057
UCA1	1.148265	1.03762	1.270709	0.007488
LINC02802	1.711988	1.392621	2.104595	3.33E-07
AC107021.2	1.537087	1.189164	1.986805	0.001027
RPARP-AS1	0.717258	0.53983	0.953001	0.021907
LINC01705	1.216168	1.018126	1.452732	0.030924
AP003170.3	0.801604	0.646712	0.993593	0.043525
AC133065.1	0.372111	0.147839	0.936603	0.035814
AC092718.1	0.23123	0.069384	0.770602	0.017114
AC009275.1	1.343677	1.122496	1.608442	0.001285
FGF14-IT1	0.032723	0.001376	0.778453	0.034443
LINC01798	0.235846	0.065605	0.847854	0.026913
AC099524.1	0.518044	0.321683	0.834266	0.006824
AC026355.2	0.745471	0.612204	0.907747	0.003465
AL161431.1	1.285001	1.156695	1.427538	2.98E-06
AC018647.1	0.375811	0.164674	0.857656	0.020088
AC024361.1	0.786077	0.631061	0.979172	0.031732
AP001107.9	0.739049	0.579862	0.941936	0.014554
AC004817.3	1.894772	1.308534	2.743651	0.000715
AC135050.6	0.645224	0.499307	0.833782	0.000809
AC109479.1	2.048983	1.058451	3.966488	0.033294
AL360091.2	0.125035	0.016143	0.968429	0.046516
AC079313.2	3.224681	1.47604	7.044911	0.003319
AC106038.1	4.457702	1.015035	19.57676	0.047734
L3MBTL2-AS1	0.536826	0.339425	0.849029	0.007821
AL354811.1	1.70588	1.22719	2.371293	0.001482
AC026310.2	0.270427	0.074684	0.979208	0.046375
AL117379.1	0.775896	0.614622	0.979489	0.032819
AL445309.1	0.583887	0.397477	0.857718	0.006103
AC090948.1	0.679154	0.497878	0.926431	0.014593

AC010343.3	1.390438	1.097742	1.761176	0.006271
HLA-DQB1- AS1	0.861572	0.751705	0.987497	0.032296
AC022809.1	1.682079	1.001077	2.826345	0.049527
FGD5-AS1	1.512442	1.054474	2.169309	0.024564
AC008752.2	0.370867	0.170336	0.807479	0.012468
LINC01235	1.318153	1.064506	1.632238	0.011302
AC026979.2	0.691563	0.550231	0.869197	0.001568
U47924.1	0.673521	0.476992	0.951024	0.024754
LINC01781	0.775145	0.625912	0.95996	0.01957
AC008764.8	0.666357	0.445973	0.995648	0.047563
AC104938.1	0.436639	0.233363	0.816982	0.009533
AC008655.2	0.684454	0.509909	0.918748	0.011598
THOC7-AS1	0.293888	0.087023	0.992496	0.048599
AC009075.1	1.67772	1.008603	2.790736	0.046266
AC012615.1	0.653949	0.508428	0.841122	0.000942
KTN1-AS1	1.701193	1.185353	2.441516	0.003946
SMILR	1.59771	1.264147	2.019289	8.79E-05
LINC00460	1.187654	1.065855	1.323372	0.001838
AC073130.1	1.972066	1.012462	3.841175	0.045893
SLC2A1-AS1	1.398069	1.006646	1.941692	0.045555
AC039056.2	1.379891	1.023944	1.859573	0.034395
AC016737.2	0.538572	0.333421	0.869949	0.011425
AP005137.2	1.519342	1.260768	1.830947	1.11E-05
AC105036.3	1.747028	1.073453	2.843263	0.024755
AC079949.1	1.231995	1.052125	1.442615	0.00957
MIR193BHG	1.317442	1.074192	1.615777	0.008117
AC111170.2	0.123738	0.026882	0.569559	0.007305
AL691432.2	0.580615	0.45155	0.746571	2.25E-05
AL009178.2	1.518967	1.001037	2.304869	0.049433
NKILA	1.318079	1.093801	1.588344	0.003706
AC011503.1	0.597037	0.38851	0.917488	0.018633
LINC02520	0.519623	0.271392	0.994902	0.048224
AL158835.2	0.649707	0.470099	0.897939	0.009001
AL033523.1	0.666032	0.488255	0.90854	0.010305
HOXA10-AS	1.514474	1.098466	2.088031	0.011305
AC232271.1	0.749008	0.572524	0.979895	0.035021
AL359878.1	0.614676	0.386558	0.977412	0.039734
HAS2-AS1	1.531345	1.15511	2.030123	0.003053
AC123595.1	0.667824	0.494816	0.901323	0.008313
LIFR-AS1	0.677124	0.474765	0.965735	0.031363
AC091132.2	0.619604	0.384351	0.99885	0.049451
AL024497.1	1.487349	1.198188	1.846295	0.000319
AC012178.1	0.186384	0.04826	0.719828	0.014817
LINC00893	0.763677	0.601549	0.969501	0.026804
LINC00601	1.376625	1.04338	1.816306	0.023805

KHDRBS2-				
OT1	0.689219	0.483149	0.98318	0.040019
FAM66C	1.682095	1.05276	2.687645	0.02963
MIR31HG	1.244956	1.082719	1.431504	0.002101
AL133367.1	0.695096	0.505086	0.956586	0.025589
APCDD1L-DT	1.469324	1.135229	1.901742	0.00346
NFYC-AS1	0.756811	0.576005	0.994371	0.045447
AC009065.4	0.638232	0.473845	0.859649	0.003125
LINC01800	0.161816	0.041326	0.633609	0.008917
AC122129.1	0.679892	0.46934	0.9849	0.041308
AC025419.1	1.367716	1.087656	1.71989	0.00739
CPNE8-AS1	1.337446	1.040705	1.718799	0.023106
AC024896.1	1.533534	1.189631	1.976852	0.000966
GACAT3	0.511583	0.279623	0.935964	0.029654
Z97192.2	0.389307	0.157103	0.964717	0.041595
FOCAD-AS1	0.342154	0.181048	0.64662	0.000958
GSEC	1.387449	1.147587	1.677446	0.000721
ASMTL-AS1	0.862807	0.752304	0.98954	0.034829
LINC00598	2.237948	1.221587	4.099921	0.009109
AL731557.1	0.303055	0.144772	0.634392	0.001538
AL121957.1	0.27195	0.086139	0.858575	0.026424
AL390719.2	0.844874	0.735038	0.971123	0.017675
LINC00941	1.482475	1.276119	1.7222	2.63E-07
DAAM2-AS1	0.645149	0.425411	0.978389	0.039132
AF064858.1	0.719909	0.527186	0.983084	0.038707
AL590729.1	0.63574	0.41238	0.980079	0.040259
AL158212.2	0.710341	0.509516	0.99032	0.04366
AP003064.2	0.683304	0.484783	0.963121	0.029665
LINC02360	1.854366	1.119429	3.07181	0.016482
AC009974.1	0.722096	0.541927	0.962163	0.026192
AC027601.2	0.606295	0.374631	0.981215	0.041633
MIR600HG	0.741835	0.572949	0.960504	0.02347
LINC01048	3.606442	1.749389	7.434835	0.000511
AC024075.2	0.685851	0.526538	0.893368	0.005174
AC133644.1	1.264313	1.018441	1.569543	0.033539
AC012676.4	0.489973	0.291413	0.823827	0.007125
VIM-AS1	0.787006	0.641172	0.96601	0.021982
AL034550.2	0.145408	0.027222	0.776719	0.0241
AC012645.3	0.73579	0.564283	0.959425	0.02346
AC108136.1	1.927433	1.481789	2.507104	1.00E-06
LINC01117	1.574718	1.250423	1.983119	0.000114
AL360270.1	1.51894	1.12612	2.048785	0.006182
AC245041.1	1.224394	1.067084	1.404896	0.003909
AC006946.3	0.527443	0.323828	0.859087	0.010164
LINC02576	0.741703	0.560499	0.981489	0.036555
DLEU1	1.435327	1.009202	2.041378	0.044332

AP001469.1	0.553486	0.327569	0.935211	0.027088
AC087742.1	0.637459	0.419813	0.96794	0.034612
LINC01150	0.77229	0.598695	0.996221	0.046689
AC093484.1	0.390612	0.166143	0.918355	0.031143
AC060234.2	0.367077	0.166916	0.807268	0.012687
AC008124.1	0.627868	0.421659	0.934921	0.021949
AC034102.8	0.638561	0.442802	0.920865	0.016336
CYTOR	1.593061	1.248155	2.033274	0.000184
EMX2OS	1.710665	1.137347	2.572984	0.009939
LINC02752	0.266593	0.086254	0.823982	0.021662
LINC01600	9.118357	3.320315	25.04113	1.80E-05
LINC01638	1.685621	1.153046	2.464185	0.007039
AL133445.2	0.495038	0.256768	0.95441	0.035792
AC005034.3	1.610731	1.155698	2.244924	0.004889
MIR583HG	0.483532	0.249918	0.93552	0.030935
AL356608.1	0.262792	0.069909	0.98785	0.047922
AP003548.1	0.231009	0.063763	0.836935	0.025682
AL136456.1	0.242162	0.060338	0.971897	0.045482
AL031666.1	0.683512	0.514663	0.907755	0.008576
AC137932.3	0.730239	0.540327	0.986901	0.040779
CRNDE	0.773605	0.666111	0.898445	0.000771
LINC02397	0.262219	0.070207	0.97937	0.046484
GCC2-AS1	1.963776	1.220891	3.15869	0.005386
AC005277.2	0.583509	0.366044	0.930169	0.02356
LINC00892	0.668116	0.463514	0.963033	0.030627
ABCA9-AS1	1.545626	1.085593	2.200604	0.015711
AC107959.1	0.570559	0.355093	0.916766	0.020388
AC131391.1	0.229009	0.065178	0.804646	0.021507
AC012181.1	0.762255	0.585713	0.992009	0.043419
AC004704.1	1.267744	1.110741	1.446939	0.000437
AC008764.2	0.750987	0.595218	0.947521	0.015758
AC010300.1	0.524438	0.310494	0.885797	0.015804
LINC00484	0.370281	0.146511	0.935819	0.035712
AC010998.1	0.594285	0.380019	0.929359	0.022543
ARNTL2-AS1	1.728833	1.125409	2.655801	0.012442
AL031600.2	0.376171	0.19033	0.743468	0.004912
Z97192.3	0.236365	0.058188	0.960138	0.043712
AF131215.7	0.6556	0.431634	0.995777	0.047725
AC009226.1	1.732154	1.195612	2.509475	0.003678
AL162632.3	3.150381	1.303967	7.611313	0.010782
FMR1-IT1	0.757502	0.580739	0.988066	0.040509
AC105020.5	0.466345	0.300737	0.723147	0.000654
AL138826.1	1.402759	1.037606	1.896416	0.027812
IFNG-AS1	0.646289	0.443394	0.942027	0.02317
AC110597.1	1.86329	1.135829	3.056664	0.013729
AC109460.1	0.621664	0.405444	0.953192	0.029273

IRAIN	1.304879	1.01235	1.681937	0.039904
AC087752.3	0.577779	0.430971	0.774598	0.000245
PLUT	1.483074	1.09352	2.011402	0.011244
AC135012.3	0.19723	0.039012	0.997108	0.049592
AP000346.1	0.456459	0.250188	0.832792	0.010577
ITGB1-DT	1.351133	1.185463	1.539955	6.51E-06
COLCA1	0.778946	0.669947	0.905679	0.001162
AC103591.3	0.78801	0.647924	0.958382	0.017051
AC034223.2	1.487281	1.218538	1.815295	9.47E-05
MMP2-AS1	0.821833	0.675798	0.999426	0.049331
AL139383.1	0.295607	0.128719	0.678871	0.004065
AL138789.1	1.471359	1.070189	2.022911	0.017426
LINC00707	1.362202	1.190401	1.558798	6.99E-06
ATP11A-AS1	0.222479	0.05015	0.986974	0.048018
AP000977.1	0.222559	0.061578	0.804386	0.021905
AC005387.1	0.681138	0.503734	0.921019	0.012616
AC124312.3	0.687404	0.490977	0.962418	0.029031
AL049555.1	1.211027	1.078146	1.360285	0.001243
AC046143.1	1.529367	1.100757	2.124867	0.011338
AC026356.1	1.428513	1.091105	1.870258	0.009481
LNCAROD	1.2668	1.120437	1.432283	0.00016
LINC01747	5.849211	2.496561	13.70416	4.78E-05
AL049840.7	0.567713	0.344742	0.934899	0.026117
MIR34AHG	0.580707	0.380126	0.887128	0.01194
LINC01138	1.341441	1.032184	1.743357	0.02803
LINC00671	0.253161	0.073266	0.874769	0.029897
TRMT2B-AS1	0.575082	0.350003	0.944904	0.028988
AC093673.1	1.42648	1.139839	1.785204	0.001912
AC073534.2	0.686815	0.521701	0.904186	0.007409
AC018845.3	0.642303	0.428397	0.963015	0.032166
AC022960.1	0.500573	0.274486	0.912883	0.02399
AC137894.1	0.716452	0.549214	0.934615	0.01395
AC090617.5	0.679477	0.476684	0.968541	0.032622
AC007663.4	0.567656	0.386021	0.834756	0.004003
AC011899.1	0.350713	0.129775	0.947789	0.038859
AC090023.2	1.361432	1.018006	1.820714	0.037499
AC017006.2	0.104461	0.022332	0.48862	0.004107
FLG-AS1	2.860023	1.746082	4.684621	3.00E-05
AL031963.3	0.642187	0.463571	0.889625	0.007738
WARS2-AS1	1.358139	1.001122	1.842475	0.049164
TSPOAP1- AS1	0.555209	0.345171	0.893055	0.015251
MECOM-AS1	0.696047	0.507198	0.955211	0.024851
AC007613.1	0.38926	0.19998	0.757693	0.005495
LINC02728	0.421501	0.217138	0.818204	0.010685
AL161668.1	1.771038	1.374673	2.281689	9.79E-06

AL121832.3	0.705651	0.499625	0.996634	0.047804
MIR223HG	0.661768	0.523096	0.837201	0.00058
AL358115.1	1.59359	1.045384	2.429278	0.030288
AF121898.1	1.813992	1.353055	2.431954	6.85E-05
LINC01711	1.323787	1.066617	1.642963	0.010923
AC006058.3	1.58582	1.11375	2.257979	0.010543
SBF2-AS1	1.354564	1.00356	1.828335	0.047346
LINC00639	0.250517	0.09908	0.633413	0.003447
DHDDS-AS1	0.70935	0.504784	0.996818	0.047892
MIR4435-2HG	1.638695	1.224038	2.19382	0.000906
AL031716.1	0.748372	0.572423	0.978403	0.034038
AC125807.2	1.454496	1.117676	1.892821	0.005307
AC078864.1	0.490986	0.266666	0.904003	0.022371
AL390208.1	0.640626	0.434649	0.944213	0.024449
AC016168.1	1.597202	1.046794	2.437017	0.029848
STXBP5-AS1	2.287399	1.214198	4.309176	0.010449
SNHG16	1.352182	1.00629	1.816968	0.045332
SATB2-AS1	3.477153	1.447696	8.351611	0.005311
AL161757.2	0.413045	0.204605	0.833834	0.013626
LINC02310	2.022608	1.476372	2.770943	1.16E-05
FRMD6-AS1	1.686807	1.070107	2.658909	0.024335
AC079949.2	1.284598	1.092246	1.510824	0.002477
AC100823.1	0.30633	0.10318	0.909459	0.033097
CASC19	1.138201	1.003605	1.290848	0.043799
LINC02489	0.841144	0.750058	0.943292	0.003093
AC138356.1	0.247624	0.080688	0.759939	0.014696
AL137779.1	0.54172	0.317758	0.923535	0.024308
AL162724.2	0.640917	0.481204	0.85364	0.002349
AC074032.1	0.587858	0.39368	0.877812	0.009403
AC007998.3	1.327427	1.014731	1.736484	0.038766
AP000695.1	1.432631	1.164807	1.762035	0.000662
LINC02147	0.194701	0.047341	0.800749	0.023332
AC092279.1	0.69452	0.552549	0.872968	0.001782
AC092127.2	0.385414	0.153386	0.968432	0.04254
AC007686.2	0.240767	0.066159	0.8762	0.030735
CADM3-AS1	0.420005	0.200204	0.881122	0.021748
LINC01754	0.294478	0.130232	0.665867	0.003315
AL161729.4	0.690034	0.477905	0.99632	0.047745
AC114763.1	1.678696	1.091732	2.58124	0.018286
AL590666.2	1.125116	1.000513	1.265236	0.049007
AC008770.3	0.698258	0.49222	0.990541	0.04409
LINC01312	2.616484	1.838735	3.723204	9.09E-08
LINC01614	1.151081	1.018647	1.300732	0.024056
AP000808.1	0.635539	0.407519	0.991144	0.045587
ZFHX4-AS1	1.640964	1.085114	2.481548	0.018923

EMSLR	1.222519	1.062975	1.406009	0.004864
AC106820.4	0.539538	0.326159	0.892514	0.016272
AL359710.1	0.310628	0.10398	0.927961	0.036272
JARID2-AS1	0.60715	0.409837	0.899458	0.012832
AC121761.2	0.72062	0.531474	0.977081	0.034925
OGFRP1	1.823749	1.271731	2.61538	0.001088
AC060780.1	0.747703	0.568888	0.982725	0.037076
PICSAR	1.200231	1.021385	1.410392	0.026624
AL359091.3	0.64862	0.441181	0.953595	0.027692
AC009690.2	0.638456	0.412341	0.988565	0.044271

Table S5. Results of multifactorial Cox regression analysis. The results showed that the p-values and risk ratios of the seven differentially expressed PAM-SRFLncSigs ended up with confidence intervals.

Id	Coef	HR	HR.95L	HR.95H	p-value
AC084757.3	0.522931	1.686965	0.885638	3.213333	0.111707
AC010999.2	-0.81805	0.441292	0.239008	0.814778	0.008931
LINC02802	0.304035	1.355316	1.059335	1.733995	0.015585
AC026979.2	-0.19422	0.823479	0.641174	1.057618	0.128211
AC024896.1	0.300512	1.35055	1.039926	1.753956	0.024225
LINC00941	0.18412	1.20216	1.005835	1.436804	0.042978
LINC01312	0.903007	2.467009	1.713395	3.55209	1.20E-06