



SUPPLEMENTARY FIG. S2. (A) Risk score distribution of the six-autophagy-related gene signature, *red dots* represent high risk and *green dots* represent low risk. (B) Scatter plot displaying the survival status of AML patients in the OS model, *red dots* represent the dead and *green dots* represent the patients who are alive.

SUPPLEMENTARY TABLE S1. DIFFERENT EXPRESSION AUTOPHAGY-RELATED GENES IN GSE1159

<i>Gene symbol</i>	<i>AveExpr</i>	<i>LogFC</i>	<i>p</i>	<i>Adj. p</i>
IPPK	6.707836	-0.6018	5.24E-14	2.08E-11
FOXO1	6.638833	-1.31814	1.02E-13	2.08E-11
BCL2L1	5.664	-1.28298	4.05E-13	5.53E-11
ITGA3	5.975191	0.597602	1.20E-11	1.23E-09
C5	5.812638	0.782863	2.14E-11	1.75E-09
HSPB8	5.952367	0.641515	2.68E-11	1.83E-09
ARSA	7.434716	0.851438	6.70E-11	3.92E-09
MYOM1	5.656599	0.500932	1.68E-10	8.61E-09
TMEM39A	6.255261	-0.65692	2.11E-10	9.60E-09
PINK1	7.682175	0.507614	2.71E-10	1.11E-08
FAM134B	5.016953	-0.60139	9.86E-10	3.67E-08
DDIT3	8.271122	1.440454	1.11E-08	3.24E-07
WIPI1	5.17127	-1.10703	2.74E-08	7.49E-07
FCGR3B	6.425424	-1.19398	4.61E-08	1.18E-06
CDKN1B	8.132531	-1.43798	7.13E-08	1.72E-06
FBXO7	9.847752	-0.85893	8.97E-08	2.04E-06
MAP2K1	8.673138	-1.03228	2.86E-07	5.59E-06
ZNF189	4.550334	-0.75152	4.20E-07	7.82E-06
HDAC1	9.009715	0.869406	4.41E-07	7.86E-06
DNAJB9	6.000425	-0.80527	6.03E-07	1.03E-05
NFE2L2	8.145392	-0.84718	8.16E-07	1.29E-05
CHAF1B	5.76547	-0.50371	1.36E-06	2.06E-05
DAP	8.638311	0.531253	2.93E-06	4.01E-05
MAPK1	7.549141	-0.6797	3.17E-06	4.07E-05
PTEN	7.5596	0.59424	4.35E-06	5.41E-05
LAMP2	7.473301	0.901246	5.00E-06	6.02E-05
SERPINB10	5.930287	-0.76514	9.49E-06	0.000102
CXCR4	10.42784	-1.59504	9.93E-06	0.000104
CALCOCO2	9.503198	0.835738	1.14E-05	0.000112
KLHL24	6.78171	0.611003	1.62E-05	0.000141
RAB1A	8.282968	0.560274	1.77E-05	0.000151
ATG2A	7.954709	-0.51266	1.90E-05	0.000159
HIST1H3G	7.076209	0.680636	2.02E-05	0.000166
BNIP3L	8.895302	-0.88984	2.63E-05	0.000208
TREM1	8.051871	-1.71509	3.41E-05	0.000264
NTHL1	5.905755	0.844473	4.52E-05	0.000319
ATPIF1	9.087575	-0.56038	5.19E-05	0.000355
ATF4	10.80208	0.625251	5.86E-05	0.000388
EIF2AK3	6.200995	-0.95991	7.24E-05	0.000471
VAMP8	10.31766	0.615233	8.79E-05	0.000554
UBQLN2	7.018886	1.011947	9.52E-05	0.000591
LAMTOR2	8.110448	0.582405	9.88E-05	0.000604
S100A9	11.00707	-2.76469	0.000114	0.00067
PFKP	8.330692	0.864849	0.000135	0.000761
BIRC5	6.923467	-0.6345	0.000143	0.000793
MAP1S	6.167428	0.656173	0.000154	0.000831
OPTN	6.470183	-0.68471	0.000193	0.000985
ITPR1	6.764999	0.606915	0.000207	0.001037
S100A8	9.344939	-1.73614	0.000256	0.001235
PRKAA1	5.512809	0.522007	0.00045	0.002034
DAPK1	6.758408	0.622951	0.000729	0.003216
VPS37C	7.31042	-0.55389	0.001211	0.005016
DRAM1	7.399425	0.641307	0.001224	0.005017
CASP3	6.739968	0.657432	0.001372	0.005482
BAX	6.226386	0.578454	0.002934	0.010108
NAMPT	8.039446	-1.17984	0.003445	0.011674
FAS	6.163774	-0.50293	0.003495	0.011745
XBP1	9.771154	0.628137	0.00377	0.012567
VEGFA	6.835215	-0.61668	0.005148	0.016488
ANXA5	8.624568	-1.21251	0.005469	0.017384
ATP1B1	7.310118	1.234743	0.006171	0.018881
FOXO3	8.854046	-0.66898	0.007001	0.020951
DNAJB1	8.482266	-0.64316	0.008313	0.024698
PPP1R15A	9.149207	0.625345	0.008787	0.02555
FKBP1B	5.798453	-0.6673	0.014567	0.038041
SERPINA1	7.324556	-1.08154	0.017615	0.044037