

SUPPLEMENTARY TABLES

Supplementary Table 11. The two-gene expression risk stratification in GSE28735.

	ID	HIST1H1C	ANLN	Surtime	Surstat	Riskscore	Groupby
1	GSM711904	4.59351	3.478818	4.25	1	0.401283	Low risk
2	GSM711906	5.383048	6.50617	0.58	1	1.851105	High risk
3	GSM711908	4.642691	6.541408	0.25	1	3.62942	High risk
4	GSM711910	3.707255	2.865696	3.5	1	0.555705	Low risk
5	GSM711914	4.629382	5.674897	3	1	1.945416	High risk
6	GSM711916	4.828843	4.864498	0.17	1	0.902076	Low risk
7	GSM711922	4.808846	4.835817	1.58	1	0.89889	Low risk
8	GSM711924	4.515929	5.470503	1.08	1	1.849385	High risk
9	GSM711926	4.718713	4.651367	1.33	1	0.849599	Low risk
10	GSM711928	4.044202	4.589405	3.42	1	1.464419	Low risk
11	GSM711930	4.380305	5.038249	0.25	1	1.516759	High risk
12	GSM711932	4.133895	6.320266	1	1	4.815825	High risk
13	GSM711934	4.482482	4.605157	2.08	1	1.009769	Low risk
14	GSM711936	4.709863	2.9729	3.17	0	0.250142	Low risk
15	GSM711938	4.472675	2.621358	0.08	0	0.237873	Low risk
16	GSM711940	5.041278	5.580661	1.08	1	1.266404	Low risk
17	GSM711942	4.77368	5.394913	1.92	1	1.396585	Low risk
18	GSM711944	4.523715	5.181269	0.92	1	1.485881	Low risk
19	GSM711946	3.95196	3.259936	2.42	1	0.598995	Low risk
20	GSM711948	4.34825	3.772391	2.33	1	0.616691	Low risk
21	GSM711950	4.441237	3.769534	2.33	0	0.567338	Low risk
22	GSM711952	5.284748	5.607847	1.17	1	1.044138	Low risk
23	GSM711954	4.415777	5.321105	0.58	1	1.809254	High risk
24	GSM711956	5.069863	4.410287	2.33	0	0.523712	Low risk
25	GSM711958	5.338916	5.728907	2	0	1.088248	Low risk
26	GSM711960	4.75965	4.458094	2	0	0.71143	Low risk
27	GSM711962	4.692492	6.405433	0.67	1	3.145077	High risk
28	GSM711964	4.87009	5.140327	1.83	0	1.065114	Low risk
29	GSM711966	5.500636	5.748288	1.75	0	0.958246	Low risk
30	GSM711968	4.71547	5.310038	1.75	0	1.380871	Low risk
31	GSM711970	5.056518	4.657617	0.75	1	0.635193	Low risk
32	GSM711972	5.393925	6.276303	1.42	0	1.549226	High risk
33	GSM711974	4.565349	5.451879	0.5	1	1.747143	High risk
34	GSM711976	4.734871	4.955239	1.33	0	1.046703	Low risk
35	GSM711978	4.637025	4.249571	0.42	1	0.679697	Low risk
36	GSM711980	4.19272	4.349029	0.92	0	1.07827	Low risk
37	GSM711982	4.914539	6.970197	0.33	1	3.918385	High risk
38	GSM711984	4.047127	2.808281	0.83	1	0.395805	Low risk
39	GSM711986	5.846707	5.333412	0.83	0	0.522338	Low risk
40	GSM711988	4.780226	4.680945	1.25	1	0.82275	Low risk
41	GSM711990	4.518276	3.429367	0.42	1	0.413314	Low risk
42	GSM711992	4.661236	4.14586	1.08	1	0.616738	Low risk

Supplementary Table 12. The two-gene expression risk stratification in GSE62452.

	Sample	Fultime	Fustate	Type	Express_ANLN	Express_HIST1HC	Riskscore	Groupby
1	GSM1527105	4.258333	1	Tumor	3.28581	4.15587	0.69245	Low risk
2	GSM1527107	0.575	1	Tumor	6.37726	4.98483	3.641451	High risk
3	GSM1527109	0.225	1	Tumor	6.27981	4.12032	1.334185	High risk
4	GSM1527111	3.466667	1	Tumor	2.72845	3.3195	0.235374	Low risk
5	GSM1527115	2.991667	1	Tumor	5.47523	4.14786	1.141673	High risk
6	GSM1527117	0.2	1	Tumor	4.65815	4.3633	1.20571	High risk
7	GSM1527123	1.625	1	Tumor	4.63507	4.33638	1.163162	High risk
8	GSM1527125	1.05	1	Tumor	5.27076	4.1233	1.058728	High risk
9	GSM1527127	1.333333	1	Tumor	4.42231	4.23132	0.982557	High risk
10	GSM1527129	3.408333	1	Tumor	4.39364	3.68734	0.526347	Low risk
11	GSM1527131	0.233333	1	Tumor	4.76962	3.9566	0.779813	Low risk
12	GSM1527133	0.966667	1	Tumor	6.14909	3.71616	0.818008	Low risk
13	GSM1527135	2.058333	1	Tumor	4.45058	4.10903	0.860839	Low risk
14	GSM1527137	3.333333	0	Tumor	2.82307	4.17296	0.633992	Low risk
15	GSM1527139	0.1	1	Tumor	2.48363	3.94183	0.450665	Low risk
16	GSM1527141	1.1	1	Tumor	5.38821	4.62335	1.919456	High risk
17	GSM1527143	1.933333	1	Tumor	5.20154	4.40832	1.439838	High risk
18	GSM1527145	0.9	1	Tumor	5.02687	4.06697	0.93839	Low risk
19	GSM1527147	2.416667	1	Tumor	3.0661	3.52321	0.32084	Low risk
20	GSM1527149	2.308333	1	Tumor	3.55992	3.9235	0.566902	Low risk
21	GSM1527151	2.3	0	Tumor	3.56466	3.98591	0.609194	Low risk
22	GSM1527154	1.15	1	Normal	2.30865	3.24949	0.197173	Low risk
23	GSM1527155	0.566667	1	Tumor	5.07569	4.01034	0.890008	Low risk
24	GSM1527157	2.35	0	Tumor	4.21571	4.71055	1.613475	High risk
25	GSM1527159	0.816667	1	Tumor	5.63999	4.9959	3.106545	High risk
26	GSM1527161	1.966667	0	Tumor	4.26289	4.30718	1.03195	High risk
27	GSM1527163	0.641667	1	Tumor	6.21958	4.25898	1.539909	High risk
28	GSM1527165	1.816667	0	Tumor	4.95109	4.51506	1.533367	High risk
29	GSM1527167	1.766667	0	Tumor	5.56318	5.1566	3.662255	High risk
30	GSM1527169	1.758333	0	Tumor	5.08181	4.21906	1.129573	High risk
31	GSM1527171	0.741667	1	Tumor	4.47359	4.67485	1.645144	High risk
32	GSM1527173	1.441667	0	Tumor	6.17811	5.04493	3.722144	High risk
33	GSM1527175	0.533333	1	Tumor	5.21309	4.07266	0.986266	High risk
34	GSM1527177	1.366667	0	Tumor	4.75762	4.28066	1.123428	High risk
35	GSM1527179	0.383333	1	Tumor	4.04649	4.23222	0.901257	Low risk
36	GSM1527181	0.883333	0	Tumor	4.1425	3.71913	0.514734	Low risk
37	GSM1527183	0.35	1	Tumor	6.79223	4.4891	2.284431	High risk
38	GSM1527185	0.858333	1	Tumor	2.80611	3.64402	0.346414	Low risk
39	GSM1527187	0.808333	0	Tumor	5.15503	5.44705	4.631561	High risk
40	GSM1527189	1.241667	1	Tumor	4.50642	4.38521	1.193225	High risk
41	GSM1527191	0.375	1	Tumor	3.26562	4.09829	0.645597	Low risk
42	GSM1527193	1.075	1	Tumor	3.95943	4.3022	0.956221	Low risk
43	GSM1527196	0.791667	1	Tumor	4.54332	3.84922	0.654933	Low risk
44	GSM1527198	0.525	1	Tumor	5.90911	4.32916	1.551464	High risk
45	GSM1527199	0.075	1	Tumor	4.35018	4.08732	0.820502	Low risk
46	GSM1527200	0.491667	1	Tumor	3.4362	3.42219	0.311788	Low risk
47	GSM1527202	0.816667	1	Tumor	4.83738	4.44265	1.375509	High risk
48	GSM1527204	0.441667	1	Tumor	6.22746	4.1379	1.344611	High risk

49	GSM1527205	1.791667	1	Tumor	3.64831	4.32354	0.911297	Low risk
50	GSM1527207	1.183333	1	Tumor	6.01381	4.34821	1.624452	High risk
51	GSM1527209	2.666667	1	Tumor	5.50742	4.31662	1.393137	High risk
52	GSM1527210	1.908333	1	Tumor	5.93411	5.57191	6.39679	High risk
53	GSM1527212	3.825	1	Tumor	3.47327	3.88402	0.531243	Low risk
54	GSM1527213	1.825	1	Tumor	5.24938	3.28717	0.407756	Low risk
55	GSM1527215	3.5	0	Tumor	3.08215	3.39736	0.279167	Low risk
56	GSM1527216	3.191667	0	Tumor	3.19303	3.81927	0.462455	Low risk
57	GSM1527218	1.141667	1	Tumor	7.66299	4.93645	4.647977	High risk
58	GSM1527219	0.908333	1	Tumor	5.13991	4.24769	1.18276	High risk
59	GSM1527220	1.775	1	Tumor	6.3008	4.59253	2.291621	High risk
60	GSM1527223	0.775	1	Tumor	3.63132	3.69955	0.447	Low risk
61	GSM1527225	1.658333	1	Tumor	3.98875	4.95504	2.020132	High risk
62	GSM1527227	5.9	0	Tumor	3.59565	3.98568	0.61344	Low risk
63	GSM1527228	5.666667	0	Tumor	3.56692	4.14986	0.734199	Low risk
64	GSM1527230	5.641667	0	Tumor	3.65724	4.28682	0.875908	Low risk
65	GSM1527232	4.141667	1	Tumor	3.11183	4.27017	0.75713	Low risk
66	GSM1527234	0.266667	1	Tumor	3.60256	4.10509	0.703624	Low risk

Supplementary Table 13. The C-index of nomogram model.

Univariate analysis					
Age(36-84)	1.00	1.05	0.018	1.03	1.03(1.00,1.05)
Sex(Male/Female)	0.56	1.42	0.628	0.99	0.99(0.56,1.42)
Grade(G1-2/G3-4)	0.60	1.59	0.929	1.10	1.10(0.60,1.59)
Stage(III-IV/I-II)	0.17	2.07	0.417	1.12	1.12(0.17,2.07)
Size(1.8-12)	0.92	1.34	0.259	1.13	1.13(0.92,1.34)
Residual(R0/non-R0)	0.39	1.01	0.054	0.70	0.70(0.39,1.01)
Prognostic model()	1.43	2.16	0.000	1.80	1.80(1.43,2.16)
Multivariate analysis		0.000			
Age	1.00	1.05	0.021	1.03	1.03(1.00,1.05)
Residual	0.40	1.03	0.067	0.72	0.72(0.40,1.03)
Riskscore	1.48	2.21	0.000	1.85	1.85(1.48,2.21)

Items	C-index
Age	0.55
Residual	0.577
riskscore	0.647
nomogram model	0.664
ANLN	0.633
HIST1H1C	0.553