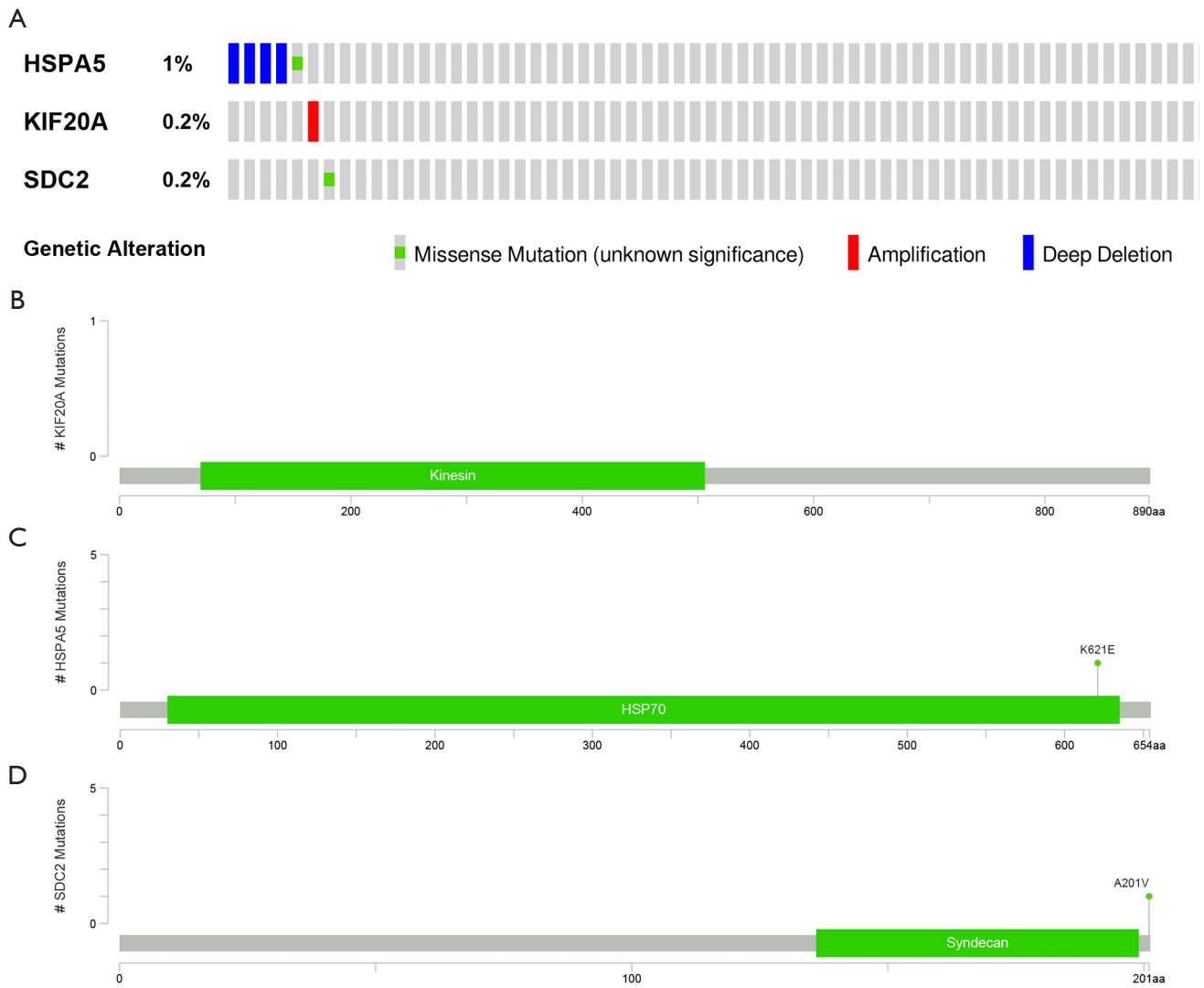
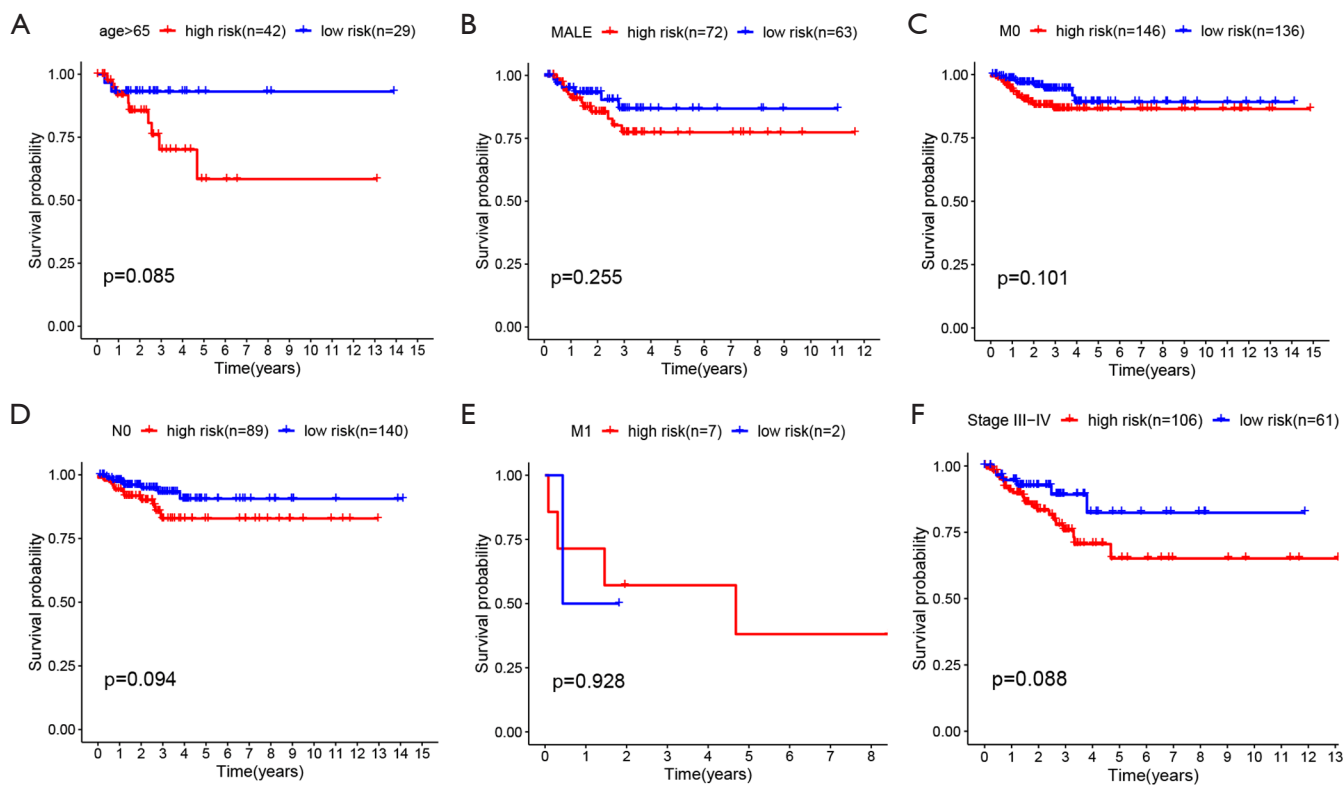


**Table S1** Fifty-two differentially expressed glycolysis-related genes

Gene	conMean	treatMean	logFC	P value
<i>AC016586.1</i>	0.541199	0.252303	-1.101	4.06E-14
<i>ACTN3</i>	0.05002	0.015548	-1.68578	1.12E-15
<i>AGRN</i>	22.1092	46.1904	1.062946	5.30E-27
<i>ANGPTL4</i>	8.47078	22.02692	1.378701	1.44E-10
<i>B3GAT1</i>	1.056808	4.091612	1.952957	1.29E-23
<i>B3GNT3</i>	0.343202	18.62594	5.762113	1.45E-18
<i>CD44</i>	23.64155	55.27598	1.225328	8.79E-24
<i>CHST2</i>	5.880716	25.84026	2.135557	1.19E-25
<i>CHST6</i>	0.036072	0.21004	2.541727	1.62E-17
<i>CITED2</i>	221.0603	68.17017	-1.69723	2.54E-26
<i>CLDN9</i>	1.030933	6.584371	2.675096	3.18E-20
<i>COL5A1</i>	2.005016	7.003881	1.804541	9.28E-08
<i>CTH</i>	5.16804	1.626699	-1.66767	3.30E-26
<i>DCN</i>	33.77995	8.477774	-1.99441	7.23E-25
<i>DPYSL4</i>	0.31194	0.944202	1.597825	0.037904
<i>DSC2</i>	1.184663	2.625639	1.148192	5.75E-08
<i>EFNA3</i>	0.706924	1.521173	1.105558	3.36E-20
<i>ELF3</i>	1.867485	7.641938	2.032842	1.70E-14
<i>ENO4</i>	0.437242	0.171567	-1.34966	1.14E-25
<i>FBP2</i>	0.098322	0.021292	-2.20719	9.49E-10
<i>GALE</i>	2.196281	18.68538	3.088775	8.78E-29
<i>GCKR</i>	0.02943	0.157077	2.416115	4.27E-14
<i>GPC3</i>	7.262081	0.815459	-3.1547	2.32E-32
<i>GPR87</i>	0.024971	0.420158	4.072619	2.33E-13
<i>GYS2</i>	0.096623	0.033104	-1.54537	9.34E-20
<i>HDAC4</i>	2.713549	1.10965	-1.29008	6.08E-27
<i>HKDC1</i>	4.254272	1.696967	-1.32595	4.16E-20
<i>HS6ST2</i>	0.321417	3.755313	3.546417	2.90E-07
<i>HTR2A</i>	0.050591	0.018263	-1.46996	2.90E-15
<i>IGFBP3</i>	8.277112	26.33518	1.669792	1.55E-10
<i>INSR</i>	6.885022	14.03193	1.027181	5.50E-26
<i>KDEL3</i>	4.718449	12.77691	1.437154	9.74E-23
<i>MET</i>	11.81067	69.16071	2.549862	4.53E-24
<i>MIOX</i>	9.232944	3.455103	-1.41806	8.10E-23
<i>MLXIPL</i>	0.744173	2.654179	1.834555	4.71E-14
<i>NT5E</i>	9.665598	26.37453	1.448214	7.61E-11
<i>OGDHL</i>	15.59248	5.8479	-1.41486	5.80E-22
<i>P4HA2</i>	2.849222	10.59953	1.895361	6.93E-32
<i>PC</i>	4.044894	11.66517	1.528034	1.09E-24
<i>PFKFB1</i>	0.405589	0.143794	-1.49602	2.64E-25
<i>PFKFB2</i>	18.7996	8.333122	-1.17377	1.99E-23
<i>PKP2</i>	0.244379	0.829063	1.762359	1.52E-09
<i>PPARGC1A</i>	8.456713	2.259498	-1.90409	1.31E-26
<i>QSOX1</i>	6.222757	18.44137	1.56732	3.62E-22
<i>SDC1</i>	22.69221	46.84309	1.045639	1.03E-17
<i>SDC2</i>	177.716	86.774	-1.03424	1.56E-23
<i>SDC3</i>	7.684957	19.25227	1.32492	5.21E-22
<i>TFF3</i>	802.1512	86.20233	-3.21808	6.66E-32
<i>TGFA</i>	3.401024	19.52026	2.520931	9.18E-28
<i>TGFBI</i>	4.196403	14.60663	1.799399	2.39E-17
<i>TKTL1</i>	0.029211	0.014387	-1.02176	2.49E-08
<i>VCAN</i>	0.912372	3.25451	1.834746	8.05E-05



**Figure S1** Identification of mutations in model genes.



**Figure S2** Relationship between survival probability and clinical features of thyroid cancer patients ( $P>0.05$ ).