

Table S1

Univariate Cox model results of each gene in 3 risk-related genes

Gene	Coefficient	HR (95%CI)	Z Score	P value
CDC6	-0.4269	0.6526(0.4909-0.8674)	-2.94	0.00328 **
RRM2	-0.3154	0.7295(0.5319-1.001)	-1.957	0.0504
HMMR	-0.3866	0.6794(0.5196-0.8883)	-2.825	0.00472 **

Figure S1

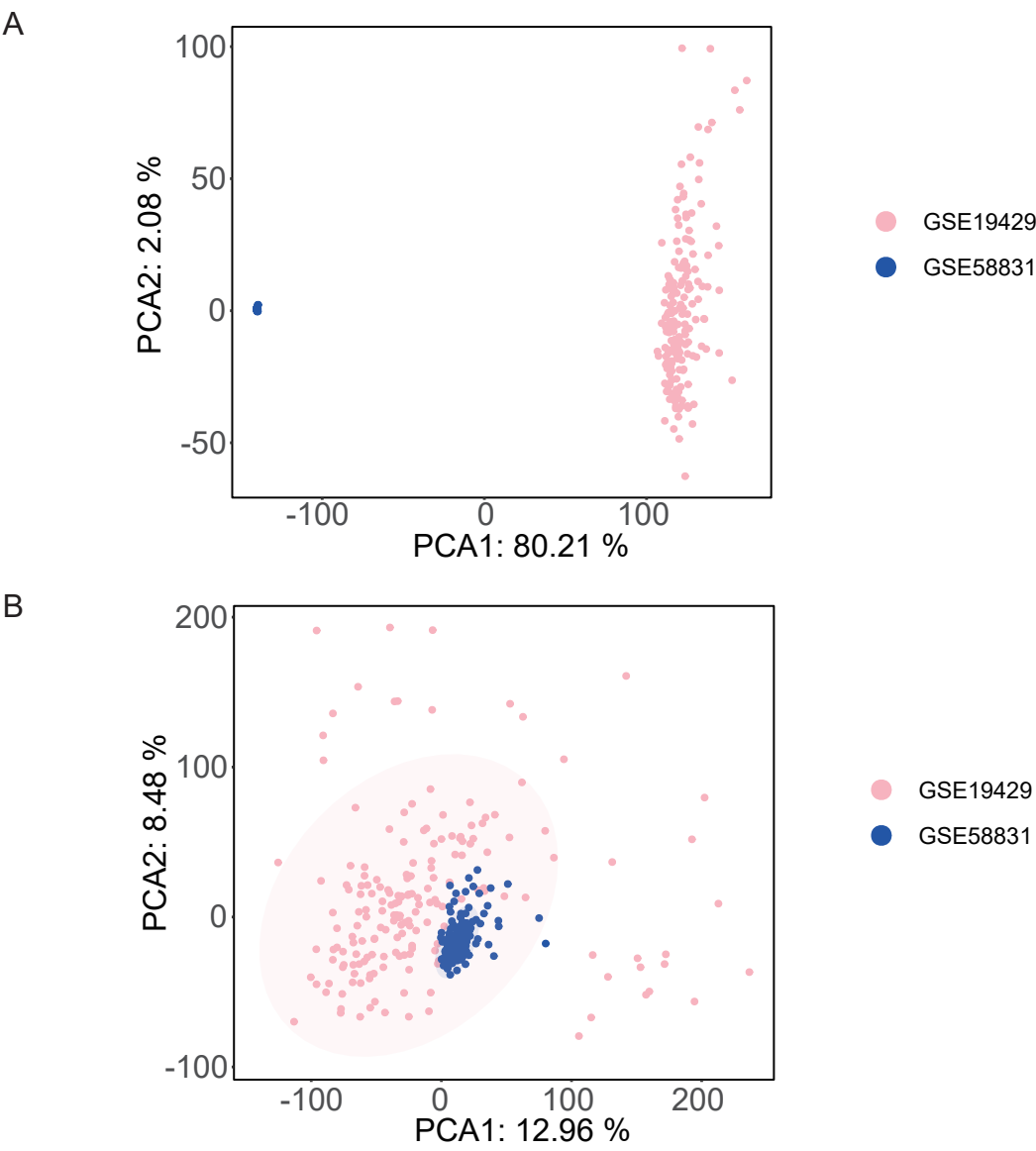


Table S2 Immune cell type abundance

id	Low-Risk (N=190)	High-Risk (N=190)	Method	P value
B cells naive	0.017362254	0.010842217	Mann Whitney test	0.135
B cells memory	0.045253478	0.040717572	Mann Whitney test	0.428
Plasma cells	0.092097596	0.093585462	Mann Whitney test	0.182
T cells CD8	0.011899334	0.01724325	Mann Whitney test	0.014
T cells CD4 naive	0.022588037	0.01727659	Mann Whitney test	0.078
T cells CD4 memory resting	0.064412095	0.069105096	Mann Whitney test	0.231
T cells CD4 memory activated	0.000451026	0.00065583	Mann Whitney test	0.425
T cells follicular helper	0.011174364	0.009887412	Mann Whitney test	0.962
T cells regulatory (Tregs)	0.007406698	0.018959579	Mann Whitney test	<0.001
T cells gamma delta	0.003412597	0.001146167	Mann Whitney test	0.005
NK cells resting	0.009152735	0.012687103	Mann Whitney test	0.561
NK cells activated	0.039380402	0.036115713	Mann Whitney test	0.613
Monocytes	0.107914309	0.102993418	Mann Whitney test	0.885
Macrophages M0	0.004727822	0.003886333	Mann Whitney test	0.69
Macrophages M1	0.002208155	0.002377027	Mann Whitney test	0.636
Macrophages M2	0.065441906	0.052413386	Mann Whitney test	0.016
Dendritic cells resting	0.001926899	0.003422331	Mann Whitney test	0.359
Dendritic cells activated	0.006607097	0.007759297	Mann Whitney test	0.291
Mast cells resting	0.232797537	0.178590989	Mann Whitney test	0.06
Mast cells activated	0.131733778	0.127614818	Mann Whitney test	0.794
Eosinophils	0.116773079	0.187220782	Mann Whitney test	<0.01
Neutrophils	0.005278802	0.005499627	Mann Whitney test	0.036

Legend

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Figure S1 Two-dimensional PCA cluster plot before and after sample correction.

A: PCA cluster plot before sample correction. B: A PCA cluster plot after sample correction.

The pink dot represents the sample of GSE19429 and the blue dot represents the sample of GSE58831.

Table S2 Immune cell type abundance between low-risk and high-risk MDS samples in the total set.