

Table S6. Enriched gene sets in the HALLMARK collection in the high - risk group (| NES |> 1, NOM p-val <0.05, and FDR q-val <0.25).

NAME	SIZE	ES	NES	NOM p-val	FDR q-val
HALLMARK_GLYCOLYSIS	198	0.6157583	2.435045	0	0
HALLMARK_MTORC1_SIGNALING	195	0.6617577	2.367918	0	0
HALLMARK_MYC_TARGETS_V1	194	0.7126898	2.244757	0	0.00199329
HALLMARK_G2M_CHECKPOINT	190	0.8055129	2.122603	0	0.0048087
HALLMARK_UNFOLDED_PROTEIN_RESPONSE	107	0.5096629	2.023303	0.00587084	0.00955388
HALLMARK_E2F_TARGETS	195	0.8141462	2.015133	0	0.00844166
HALLMARK_HYPOXIA	191	0.5383175	2.000561	0.0019802	0.00820638
HALLMARK_MYC_TARGETS_V2	58	0.7213504	1.938975	0	0.01247109
HALLMARK_MITOTIC_SPINDLE	198	0.554668	1.745394	0.01372549	0.06412087
HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION	197	0.6564598	1.729229	0.0349076	0.06382557
HALLMARK_ESTROGEN_RESPONSE_LATE	197	0.3659114	1.503542	0.03710938	0.1855146