

Supplementary Table S1

HALLMARK_UP_after overexpression of NB.

NAME	SIZE	ES	NES	NOM p-val	FDR q-val	FWER p-val	RANK AT MAX	LEADING EDGE
HALLMARK_MYC_TARGETS_V1	192	0.622434	2.840546	0	0	0	3057	tags=51%, list=16%, signal=60%
HALLMARK_MYC_TARGETS_V2	57	0.702477	2.660136	0	0	0	2476	tags=56%, list=13%, signal=64%
HALLMARK_UNFOLDED_PROTEIN_RESPONSE	108	0.602621	2.560462	0	0	0	3277	tags=46%, list=17%, signal=56%
HALLMARK_MTORC1_SIGNALING	191	0.530877	2.427818	0	0	0	2907	tags=41%, list=15%, signal=48%
HALLMARK_TGF_BETA_SIGNALING	52	0.628352	2.352043	0	0	0	1070	tags=31%, list=6%, signal=33%
HALLMARK_TNFA_SIGNALING_VIA_NFKB	187	0.48556	2.206892	0	0	0	2179	tags=35%, list=12%, signal=39%
HALLMARK_HYPOXIA	186	0.430701	1.94592	0	4.08E-04	0.002	2807	tags=31%, list=15%, signal=36%
HALLMARK_IL2_STAT5_SIGNALING	174	0.406451	1.812379	0	0.002114	0.012	3186	tags=33%, list=17%, signal=39%
HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION	179	0.392798	1.781783	0	0.00235	0.015	1572	tags=23%, list=8%, signal=25%
HALLMARK_G2M_CHECKPOINT	196	0.38163	1.750537	0	0.002249	0.016	3963	tags=35%, list=21%, signal=44%
HALLMARK_GLYCOLYSIS	182	0.380393	1.731173	0	0.003012	0.023	2771	tags=25%, list=15%, signal=29%
HALLMARK_ANGIOGENESIS	33	0.494588	1.677325	0.0062241	0.004944	0.041	2842	tags=42%, list=15%, signal=50%
HALLMARK_PI3K_AKT_MTOR_SIGNALING	100	0.394239	1.65176	0	0.00538	0.049	2032	tags=29%, list=11%, signal=32%
HALLMARK_E2F_TARGETS	194	0.357314	1.619656	0	0.006611	0.065	3955	tags=31%, list=21%, signal=39%
HALLMARK_OXIDATIVE_PHOSPHORYLATION	180	0.337697	1.534368	0.0023923	0.014339	0.138	5140	tags=45%, list=27%, signal=61%
HALLMARK_CHOLESTEROL_HOMEOSTASIS	69	0.385961	1.503046	0.019272	0.018988	0.195	2318	tags=28%, list=12%, signal=31%
HALLMARK_ESTROGEN_RESPONSE_EARLY	186	0.323133	1.461466	0.0044053	0.026436	0.267	1685	tags=19%, list=9%, signal=21%
HALLMARK_ANDROGEN_RESPONSE	94	0.347467	1.412803	0.0272109	0.03737	0.391	3531	tags=34%, list=19%, signal=42%
HALLMARK_UV_RESPONSE_UP	139	0.313491	1.362562	0.0393013	0.055196	0.542	3356	tags=32%, list=18%, signal=39%
HALLMARK_UV_RESPONSE_DN	141	0.306127	1.32863	0.0274262	0.069782	0.669	3206	tags=31%, list=17%, signal=37%