

FDR q-value	Name of hallmark geneset
Upregulated in TN	
0.00E+00	HALLMARK_CHOLESTEROL_HOMEOSTASIS
0.00E+00	HALLMARK_MTORC1_SIGNALING
0.00E+00	HALLMARK_OXIDATIVE_PHOSPHORYLATION
0.00E+00	HALLMARK_INTERFERON_ALPHA_RESPONSE
6.78E-04	HALLMARK_BILE_ACID_METABOLISM
5.65E-04	HALLMARK_REACTIVE_OXIGEN_SPECIES_PATHWAY
4.85E-04	<u>HALLMARK_P53_PATHWAY</u>
4.24E-04	HALLMARK_INTERFERON_GAMMA_RESPONSE
3.77E-04	HALLMARK_UV_RESPONSE_UP
3.39E-04	HALLMARK_XENOBIOTIC_METABOLISM
2.04E-03	HALLMARK_PEROXISOME
2.73E-03	<u>HALLMARK_APOPTOSIS</u>
3.46E-03	HALLMARK_ESTROGEN_RESPONSE_LATE
3.50E-03	HALLMARK_FATTY_ACID_METABOLISM
3.27E-03	HALLMARK_ADIPOGENESIS
4.53E-03	HALLMARK_ANDROGEN_RESPONSE
7.30E-03	HALLMARK_PROTEIN_SECRETION
8.19E-03	HALLMARK_MYOGENESIS
1.71E-02	HALLMARK_IL6_JAK_STAT3_SIGNALING
1.65E-02	HALLMARK_COAGULATION
1.68E-02	HALLMARK_HEME_METABOLISM
1.77E-02	HALLMARK_MYC_TARGETS_V1
1.69E-02	HALLMARK_COMPLEMENT
3.51E-02	HALLMARK_ESTROGEN_RESPONSE_EARLY
5.04E-02	HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION
6.08E-02	HALLMARK_TNFA_SIGNALING_VIA_NFKB
6.72E-02	HALLMARK_KRAS_SIGNALING_UP
6.62E-02	HALLMARK_GLYCOLYSIS
1.16E-01	HALLMARK_IL2_STAT5_SIGNALING
1.23E-01	HALLMARK_UNFOLDED_PROTEIN_RESPONSE
1.30E-01	HALLMARK_INFLAMMATORY_RESPONSE
1.74E-01	HALLMARK_ANGIOGENESIS
Downregulated in TN	
3.48E-02	HALLMARK_MITOTIC_SPINDLE
2.25E-02	HALLMARK_UV_RESPONSE_DN
1.60E-02	HALLMARK_APICAL_JUNCTION
2.81E-02	HALLMARK_MYC_TARGETS_V2
5.77E-02	HALLMARK_E2F_TARGETS
9.82E-02	HALLMARK_G2M_CHECKPOINT
1.14E-01	HALLMARK_HYPOXIA
Upregulated in ME	
0.00E+00	HALLMARK_OXIDATIVE_PHOSPHORYLATION
0.00E+00	HALLMARK_CHOLESTEROL_HOMEOSTASIS
0.00E+00	HALLMARK_MTORC1_SIGNALING

0.00E+00	HALLMARK_REACTIVE_OXIGEN_SPECIES_PATHWAY
0.00E+00	HALLMARK_PROTEIN_SECRETION
0.00E+00	HALLMARK_ADIPOGENESIS
0.00E+00	HALLMARK_HEME_METABOLISM
4.51E-04	HALLMARK_BILE_ACID_METABOLISM
4.01E-04	HALLMARK_MYOGENESIS
1.66E-03	HALLMARK_FATTY_ACID_METABOLISM
1.82E-03	HALLMARK_P53_PATHWAY
2.84E-03	HALLMARK_PEROXISOME
3.08E-03	HALLMARK_KRAS_SIGNALING_UP
3.44E-03	HALLMARK_ESTROGEN_RESPONSE_LATE
4.96E-03	HALLMARK_APOPTOSIS
4.86E-03	HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION
4.85E-03	HALLMARK_COAGULATION
5.22E-03	HALLMARK_XENOBIOTIC_METABOLISM
1.18E-02	HALLMARK_COMPLEMENT
1.83E-02	HALLMARK_UV_RESPONSE_DN
1.80E-02	HALLMARK_ESTROGEN_RESPONSE_EARLY
1.94E-02	HALLMARK_DNA_REPAIR
2.02E-02	HALLMARK_UNFOLDED_PROTEIN_RESPONSE
3.21E-02	HALLMARK_PI3K_AKT_MTOR_SIGNALING
3.12E-02	HALLMARK_ANGIOGENESIS
5.10E-02	HALLMARK_UV_RESPONSE_UP
4.93E-02	HALLMARK_APICAL_SURFACE
4.98E-02	HALLMARK_MYC_TARGETS_V1
6.92E-02	HALLMARK_ANDROGEN_RESPONSE
8.27E-02	HALLMARK_IL2_STAT5_SIGNALING
9.34E-02	HALLMARK_GLYCOLYSIS
1.98E-01	HALLMARK_INFLAMMATORY_RESPONSE

Downregulated in ME

1.49E-03	HALLMARK_E2F_TARGETS
2.03E-03	HALLMARK_G2M_CHECKPOINT
1.36E-03	HALLMARK_WNT_BETA_CATENIN_SIGNALING
1.60E-01	HALLMARK_TNFA_SIGNALING_VIA_NFKB
1.64E-01	HALLMARK_MITOTIC_SPINDLE
2.34E-01	HALLMARK_HYPOXIA

Upregulated in OT

0.00E+00	HALLMARK_INTERFERON_ALPHA_RESPONSE
0.00E+00	HALLMARK_INTERFERON_GAMMA_RESPONSE
0.00E+00	HALLMARK_CHOLESTEROL_HOMEOSTASIS
7.36E-04	HALLMARK_XENOBIOTIC_METABOLISM
9.04E-04	HALLMARK_P53_PATHWAY
9.26E-04	HALLMARK_BILE_ACID_METABOLISM
7.94E-04	HALLMARK_REACTIVE_OXIGEN_SPECIES_PATHWAY
4.55E-03	HALLMARK_COAGULATION
5.92E-03	HALLMARK_FATTY_ACID_METABOLISM

5.48E-03	HALLMARK_ESTROGEN_RESPONSE_LATE
6.57E-03	HALLMARK_MYOGENESIS
6.67E-03	HALLMARK_APOPTOSIS
6.89E-03	HALLMARK_UV_RESPONSE_UP
6.48E-03	HALLMARK_HEME_METABOLISM
8.08E-03	HALLMARK_MTORC1_SIGNALING
1.11E-02	HALLMARK_COMPLEMENT
1.23E-02	HALLMARK_ADIPOGENESIS
1.25E-02	HALLMARK_KRAS_SIGNALING_UP
2.34E-02	HALLMARK_ESTROGEN_RESPONSE_EARLY
3.09E-02	HALLMARK_IL2_STAT5_SIGNALING
4.57E-02	HALLMARK_PEROXISOME
9.33E-02	HALLMARK_ANGIOGENESIS
1.11E-01	HALLMARK_IL6_JAK_STAT3_SIGNALING
1.43E-01	HALLMARK_APICAL_SURFACE
1.47E-01	HALLMARK_PROTEIN_SECRETION
1.72E-01	HALLMARK_OXIDATIVE_PHOSPHORYLATION
1.95E-01	HALLMARK_ANDROGEN_RESPONSE
1.98E-01	HALLMARK_KRAS_SIGNALING_DN

Downregulated in OT

0.00E+00	HALLMARK_E2F_TARGETS
0.00E+00	HALLMARK_G2M_CHECKPOINT
0.00E+00	HALLMARK_MYC_TARGETS_V1
0.00E+00	HALLMARK_MYC_TARGETS_V2
1.38E-04	HALLMARK_MITOTIC_SPINDLE
3.37E-03	HALLMARK_HYPOXIA
4.98E-03	HALLMARK_UV_RESPONSE_DN
6.41E-03	HALLMARK_UNFOLDED_PROTEIN_RESPONSE
8.88E-03	HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION
8.51E-03	HALLMARK_TNFA_SIGNALING_VIA_NFKB
2.40E-02	HALLMARK_APICAL_JUNCTION
5.91E-02	HALLMARK_DNA_REPAIR