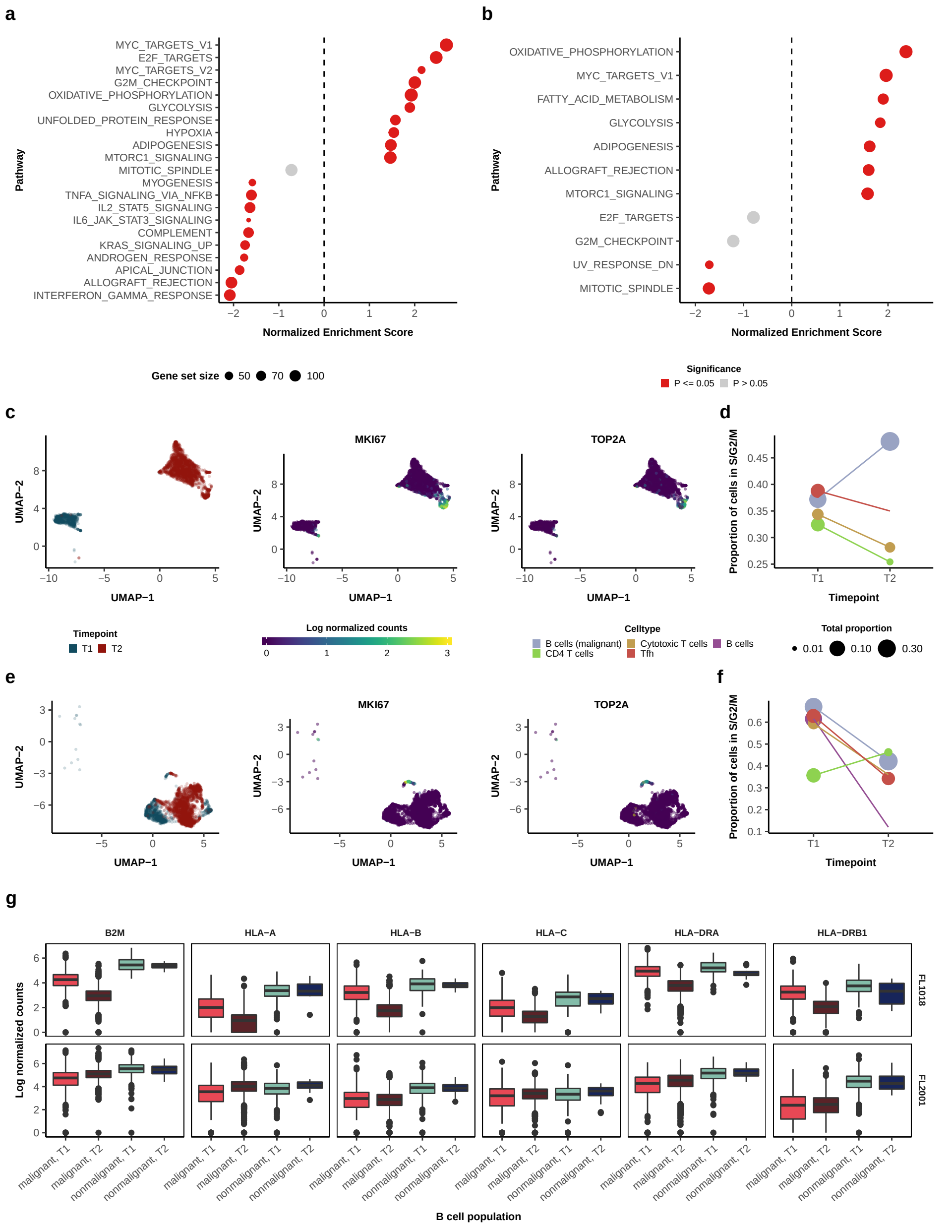
a
MYC_TARGETS_V1
E2F_TARGETS
MYC_TARGETS_V2
G2M_CHECKPOINT
OXIDATIVE_PHOSPHORYLATION
GLYCOLYSIS
UNFOLDED_PROTEIN_RESPONSE
HYPOXIA
ADIPOGENESIS
MTORC1_SIGNALING
MITOTIC_SPINDLE
MYOGENESIS
TNFA_SIGNALING_VIA_NFKB
IL2_STAT5_SIGNALING
IL6_JAK_STAT3_SIGNALING
COMPLEMENT
KRAS_SIGNALING_UP
ANDROGEN_RESPONSE
APICAL_JUNCTION
ALLOGRAFT_REJECTION
INTERFERON_GAMMA_RESPONSE
Pathway
Normalized Enrichment Score
Gene set size 50 70 100
b
OXIDATIVE_PHOSPHORYLATION
MYC_TARGETS_V1
FATTY_ACID_METABOLISM
GLYCOLYSIS
ADIPOGENESIS
ALLOGRAFT_REJECTION
MTORC1_SIGNALING
E2F_TARGETS
G2M_CHECKPOINT
UV_RESPONSE_DN
MITOTIC_SPINDLE
Pathway
Normalized Enrichment Score
Significance
P <= 0.05 P > 0.05
c
UMAP−2
UMAP−1
MKI67
TOP2A
Timepoint
T1 T2
Log normalized counts
d
Proportion of cells in S/G2/M
Timepoint
T1 T2
Celltype
B cells (malignant) Cytotoxic T cells B cells
CD4 T cells Tfh
Total proportion
0.01 0.10 0.30
e
UMAP−2
UMAP−1
MKI67
TOP2A
f
Proportion of cells in S/G2/M
Timepoint
T1 T2
g
B2M
HLA−A
HLA−B
HLA−C
HLA−DRA
HLA−DRB1
FL1018
FL2001
Log normalized counts
malignant, T1
malignant, T2
nonmalignant, T1
nonmalignant, T2
B cell population