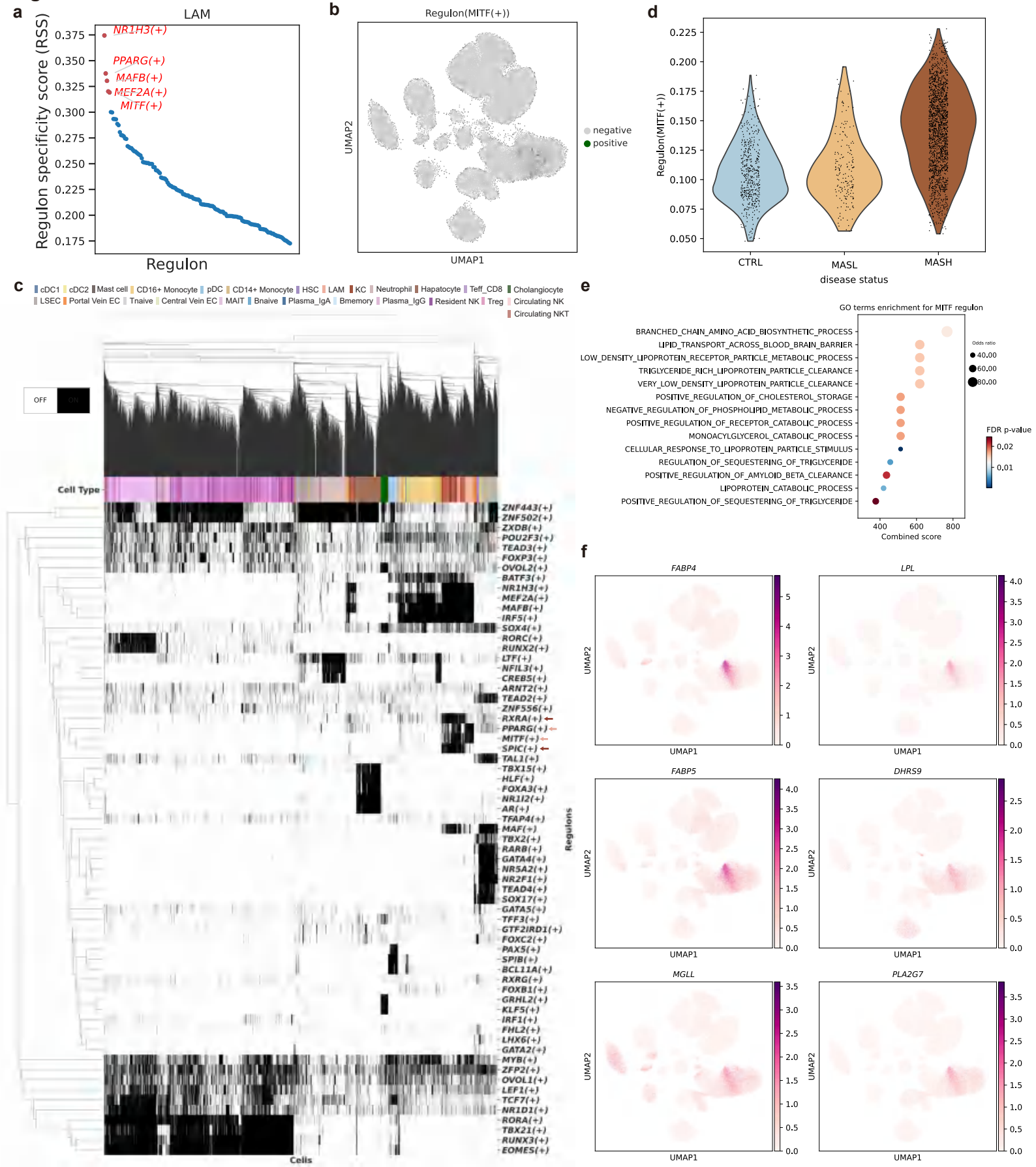
Figure 3


a
LAM
Regulon specificity score (RSS)
Regulon
NR1H3(+)
PPARG(+)
MAFB(+)
MEF2A(+)
MITF(+)
b
Regulon(MITF(+))
UMAP2
UMAP1
negative
positive
d
Regulon(MITF(+))
CTRL
MASL
MASH
disease status
c
cDC1 cDC2 Mast cell CD16+ Monocyte pDC CD14+ Monocyte HSC LAM KC Neutrophil Hapatocyte Teff_CD8 Cholangiocyte
LSEC Portal Vein EC Tnaive Central Vein EC MAIT Bnaive Plasma_IgA Bmemory Plasma_IgG Resident NK Treg Circulating NK
Circulating NKT
OFF
ON
Cell Type
Regulons
Cells
e
GO terms enrichment for MITF regulon
BRANCHED_CHAIN_AMINO_ACID_BIOSYNTHETIC_PROCESS
LIPID_TRANSPORT_ACROSS_BLOOD_BRAIN_BARRIER
LOW_DENSITY_LIPOPROTEIN_RECEPTOR_PARTICLE_METABOLIC_PROCESS
TRIGLYCERIDE_RICH_LIPOPROTEIN_PARTICLE_CLEARANCE
VERY_LOW_DENSITY_LIPOPROTEIN_PARTICLE_CLEARANCE
POSITIVE_REGULATION_OF_CHOLESTEROL_STORAGE
NEGATIVE_REGULATION_OF_PHOSPHOLIPID_METABOLIC_PROCESS
POSITIVE_REGULATION_OF_RECEPTOR_CATABOLIC_PROCESS
MONOACYLGLYCEROL_CATABOLIC_PROCESS
CELLULAR_RESPONSE_TO_LIPOPROTEIN_PARTICLE_STIMULUS
REGULATION_OF_SEQUESTERING_OF_TRIGLYCERIDE
POSITIVE_REGULATION_OF_AMYLOID_BETA_CLEARANCE
LIPOPROTEIN_CATABOLIC_PROCESS
POSITIVE_REGULATION_OF_SEQUESTERING_OF_TRIGLYCERIDE
Combined score
Odds ratio
FDR p-value
f
FABP4
LPL
FABP5
DHRS9
MGLL
PLA2G7
UMAP1
UMAP2
g
MITF
TREM2
DAPI
20 μm
CTRL
MASL
MASH
h
EV
MITF-OE
Relative mRNA in THP-1
P < 0.0001
P = 0.0038
GPNMB
LPL
DHRS9
LGALS3
CTSD
PLD3
PLA2G7