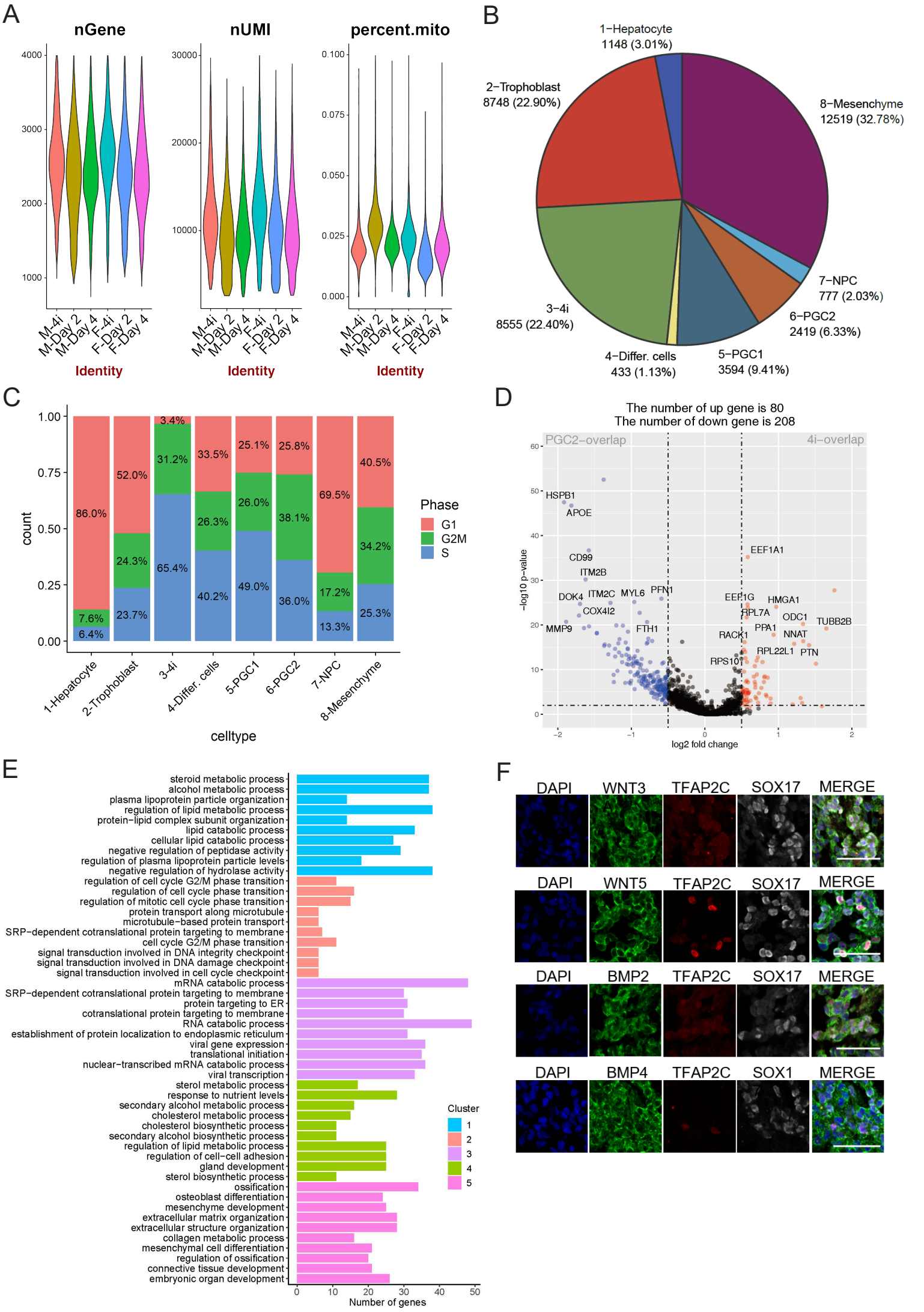
A
nGene
nUMI
percent.mito
M-4i
M-Day 2
M-Day 4
F-4i
F-Day 2
F-Day 4
Identity
B
1−Hepatocyte
1148 (3.01%)
2−Trophoblast
8748 (22.90%)
8−Mesenchyme
12519 (32.78%)
7−NPC
777 (2.03%)
6−PGC2
2419 (6.33%)
5−PGC1
3594 (9.41%)
4−Differ. cells
433 (1.13%)
3−4i
8555 (22.40%)
C
Phase
G1
G2M
S
count
celltype
1-Hepatocyte
2-Trophoblast
3-4i
4-Differ. cells
5-PGC1
6-PGC2
7-NPC
8-Mesenchyme
D
The number of up gene is 80
The number of down gene is 208
PGC2−overlap
4i−overlap
−log10 p−value
log2 fold change
HSPB1
APOE
CD99
ITM2B
DOK4
ITM2C
MYL6
PFN1
COX4I2
MMP9
FTH1
EEF1A1
EEF1G
HMGA1
RPL7A
ODC1
TUBB2B
PPA1
RACK1
NNAT
RPL22L1
PTN
RPS10
E
steroid metabolic process
alcohol metabolic process
plasma lipoprotein particle organization
regulation of lipid metabolic process
protein−lipid complex subunit organization
lipid catabolic process
cellular lipid catabolic process
negative regulation of peptidase activity
regulation of plasma lipoprotein particle levels
negative regulation of hydrolase activity
regulation of cell cycle G2/M phase transition
regulation of cell cycle phase transition
regulation of mitotic cell cycle phase transition
protein transport along microtubule
microtubule−based protein transport
SRP−dependent cotranslational protein targeting to membrane
cell cycle G2/M phase transition
signal transduction involved in DNA integrity checkpoint
signal transduction involved in DNA damage checkpoint
signal transduction involved in cell cycle checkpoint
mRNA catabolic process
SRP−dependent cotranslational protein targeting to membrane
protein targeting to ER
cotranslational protein targeting to membrane
RNA catabolic process
establishment of protein localization to endoplasmic reticulum
viral gene expression
translational initiation
nuclear−transcribed mRNA catabolic process
viral transcription
sterol metabolic process
response to nutrient levels
secondary alcohol metabolic process
cholesterol metabolic process
cholesterol biosynthetic process
secondary alcohol biosynthetic process
regulation of lipid metabolic process
regulation of cell−cell adhesion
gland development
sterol biosynthetic process
ossification
osteoblast differentiation
mesenchyme development
extracellular matrix organization
extracellular structure organization
collagen metabolic process
mesenchymal cell differentiation
regulation of ossification
connective tissue development
embryonic organ development
Cluster
Number of genes
F
DAPI
WNT3
TFAP2C
SOX17
MERGE
WNT5
BMP2
BMP4
SOX1