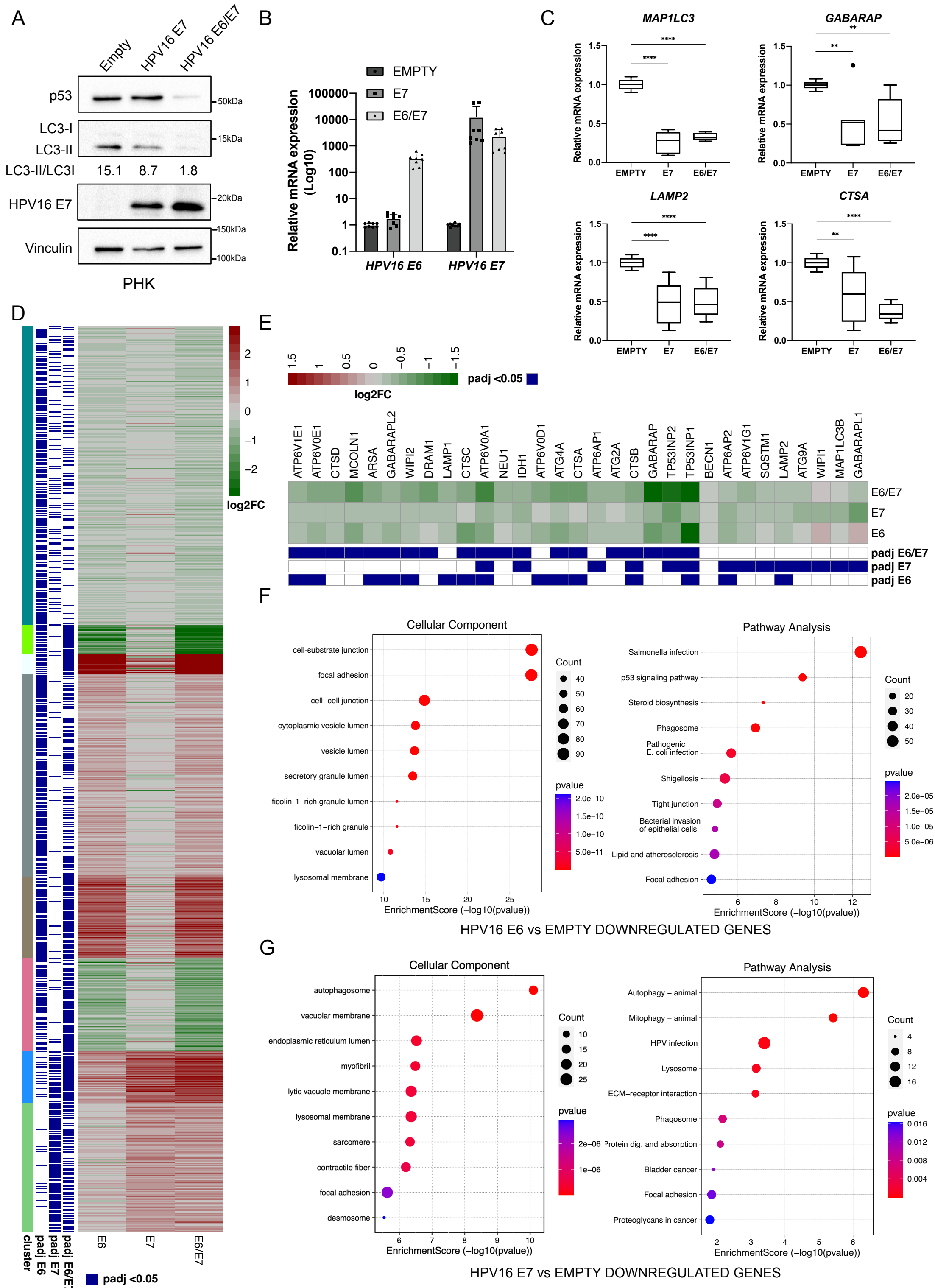
A
Empty
HPV16 E7
HPV16 E6/E7
p53
50kDa
LC3-I
LC3-II
15kDa
LC3-II/LC3I
15.1
8.7
1.8
HPV16 E7
20kDa
150kDa
Vinculin
100kDa
PHK
B
EMPTY
E7
E6/E7
Relative mRNA expression (Log10)
HPV16 E6
HPV16 E7
C
MAP1LC3
GABARAP
LAMP2
CTSA
Relative mRNA expression
EMPTY
E7
E6/E7
D
log2FC
padj <0.05
cluster
padj E6
padj E7
padj E6/E7
E6
E7
E6/E7
padj <0.05
E
log2FC
padj <0.05
ATP6V1E1
ATP6V0E1
CTSD
MCOLN1
ARSA
GABARAPL2
WIPI2
DRAM1
LAMP1
CTSC
ATP6V0A1
NEU1
IDH1
ATP6V0D1
ATG4A
CTSA
ATP6AP1
ATG2A
CTSB
GABARAP
TP53INP2
TP53INP1
BECN1
ATP6AP2
ATP6V1G1
SQSTM1
LAMP2
ATG9A
WIPI1
MAP1LC3B
GABARAPL1
E6/E7
E7
E6
padj E6/E7
padj E7
padj E6
F
Cellular Component
cell-substrate junction
focal adhesion
cell–cell junction
cytoplasmic vesicle lumen
vesicle lumen
secretory granule lumen
ficolin–1–rich granule lumen
ficolin–1–rich granule
vacuolar lumen
lysosomal membrane
EnrichmentScore (–log10(pvalue))
Count
pvalue
Pathway Analysis
Salmonella infection
p53 signaling pathway
Steroid biosynthesis
Phagosome
Pathogenic E. coli infection
Shigellosis
Tight junction
Bacterial invasion of epithelial cells
Lipid and atherosclerosis
Focal adhesion
EnrichmentScore (–log10(pvalue))
Count
pvalue
HPV16 E6 vs EMPTY DOWNREGULATED GENES
G
Cellular Component
autophagosome
vacuolar membrane
endoplasmic reticulum lumen
myofibril
lytic vacuole membrane
lysosomal membrane
sarcomere
contractile fiber
focal adhesion
desmosome
EnrichmentScore (–log10(pvalue))
Count
pvalue
Pathway Analysis
Autophagy – animal
Mitophagy – animal
HPV infection
Lysosome
ECM–receptor interaction
Phagosome
Protein dig. and absorption
Bladder cancer
Focal adhesion
Proteoglycans in cancer
EnrichmentScore (–log10(pvalue))
Count
pvalue
HPV16 E7 vs EMPTY DOWNREGULATED GENES