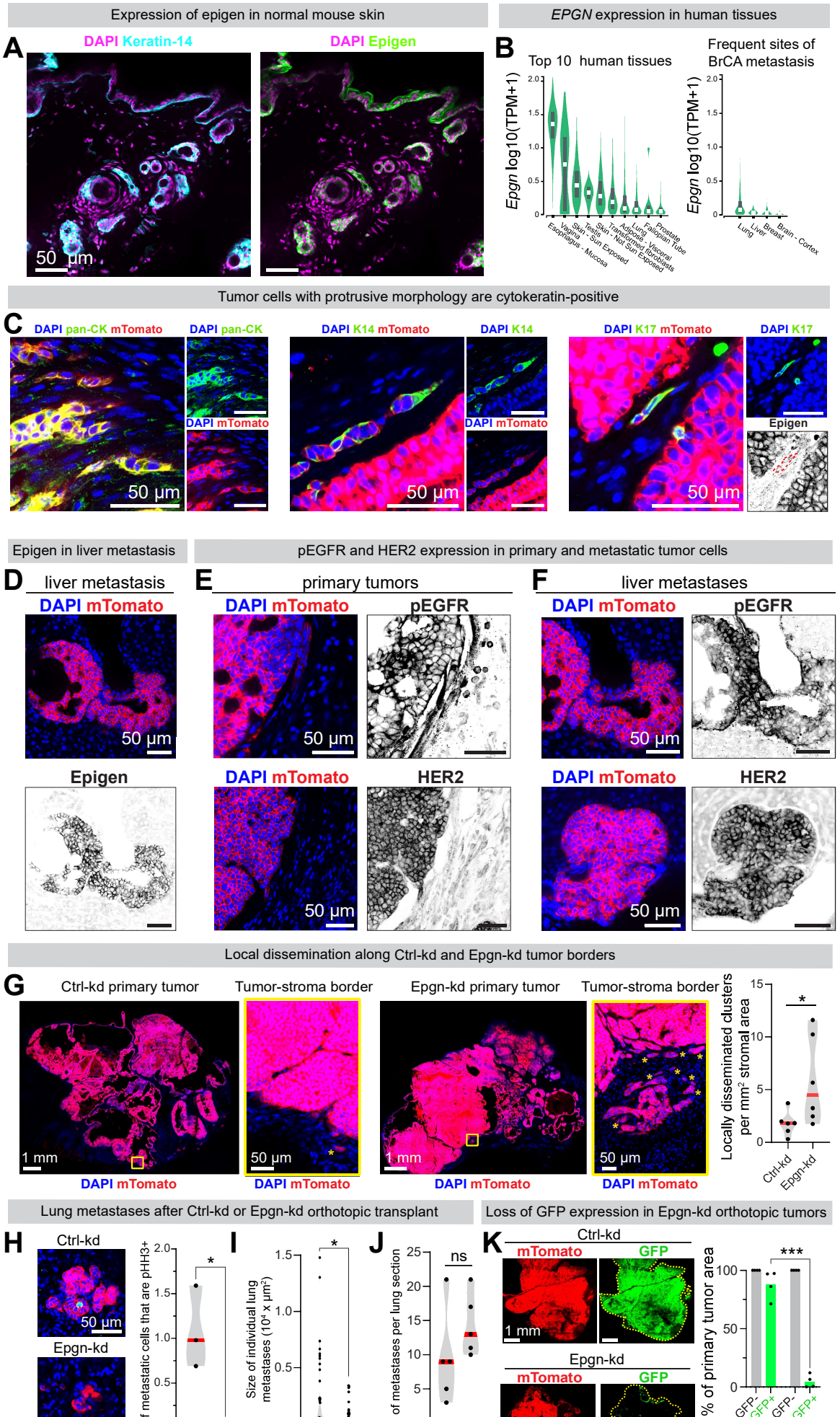
Expression of epigen in normal mouse skin
A
DAPI Keratin-14
DAPI Epigen
50 µm
EPGN expression in human tissues
B
Top 10 human tissues
Frequent sites of BrCA metastasis
Epgn log10(TPM+1)
Esophagus - Mucosa
Vagina
Skin - Sun Exposed
Testis
Skin - Not Sun Exposed
Transformed fibroblasts
Adipose - Visceral
Lung
Fallopian tube
Prostate
Lung
Liver
Breast
Brain - Cortex
Tumor cells with protrusive morphology are cytokeratin-positive
C
DAPI pan-CK mTomato
DAPI pan-CK
DAPI mTomato
DAPI K14 mTomato
DAPI K14
DAPI mTomato
DAPI K17 mTomato
DAPI K17
Epigen
50 µm
Epigen in liver metastasis
pEGFR and HER2 expression in primary and metastatic tumor cells
D
liver metastasis
E
primary tumors
F
liver metastases
DAPI mTomato
pEGFR
Epigen
HER2
Local dissemination along Ctrl-kd and Epgn-kd tumor borders
G
Ctrl-kd primary tumor
Tumor-stroma border
Epgn-kd primary tumor
Tumor-stroma border
1 mm
50 µm
Locally disseminated clusters per mm² stromal area
Ctrl-kd
Epgn-kd
Lung metastases after Ctrl-kd or Epgn-kd orthotopic transplant
H
Ctrl-kd
Epgn-kd
DAPI mTomato pHH3
% of metastatic cells that are pHH3+
I
Size of individual lung metastases (10⁴ x µm²)
J
# of metastases per lung section
ns
Loss of GFP expression in Epgn-kd orthotopic tumors
K
mTomato
GFP
% of primary tumor area
GFP-
GFP+