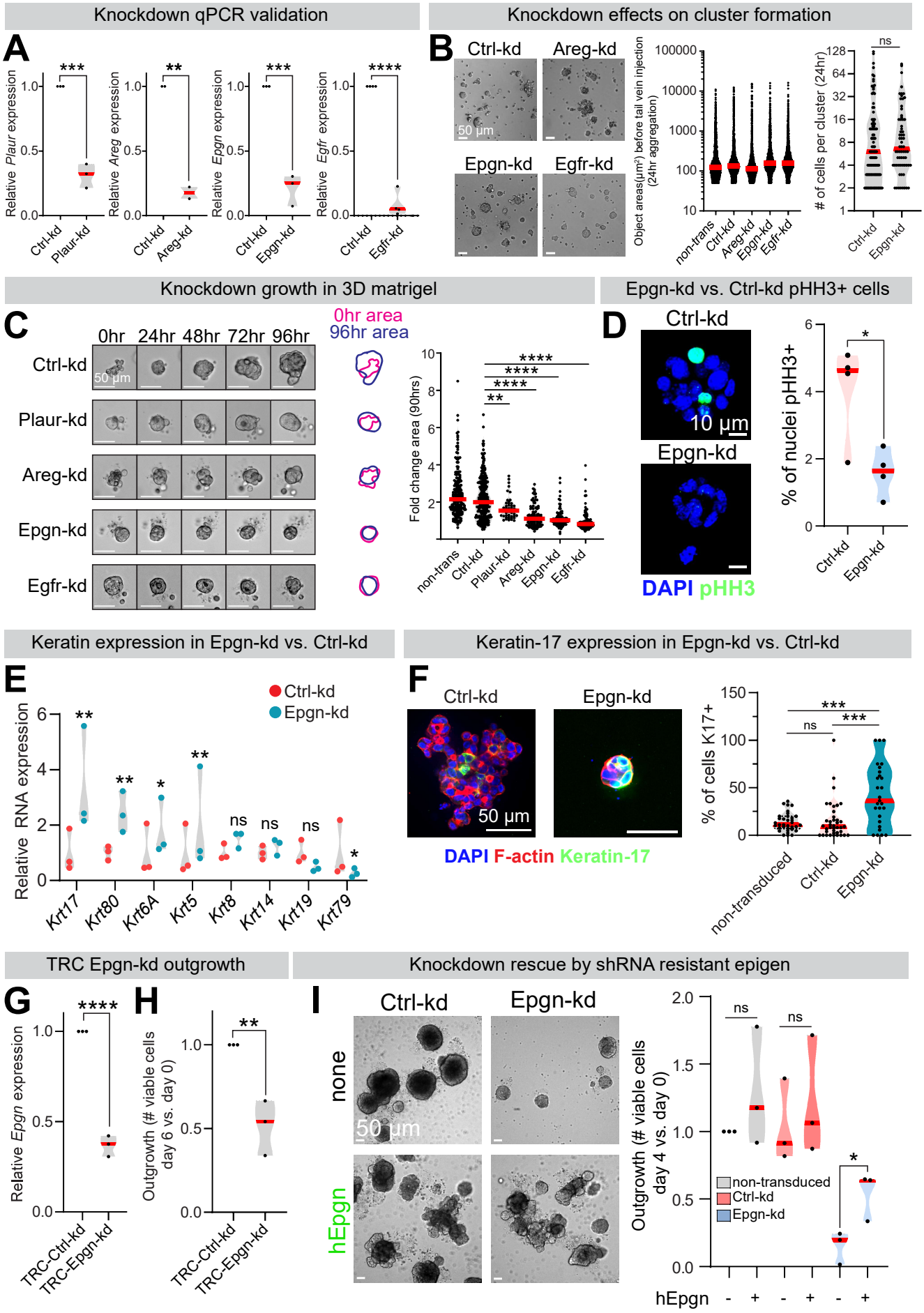
Knockdown qPCR validation
A
Relative Plaur expression
Relative Areg expression
Relative Epgn expression
Relative Egfr expression
Ctrl-kd
Plaur-kd
Areg-kd
Epgn-kd
Egfr-kd
Knockdown effects on cluster formation
B
Ctrl-kd
Areg-kd
Epgn-kd
Egfr-kd
50 µm
Object areas(µm²) before tail vein injection (24hr aggregation)
non-trans
# of cells per cluster (24hr)
ns
Knockdown growth in 3D matrigel
C
0hr 24hr 48hr 72hr 96hr
0hr area
96hr area
Fold change area (90hrs)
Epgn-kd vs. Ctrl-kd pHH3+ cells
D
10 µm
% of nuclei pHH3+
DAPI pHH3
Keratin expression in Epgn-kd vs. Ctrl-kd
E
Relative RNA expression
Krt17
Krt80
Krt6A
Krt5
Krt8
Krt14
Krt19
Krt79
Keratin-17 expression in Epgn-kd vs. Ctrl-kd
F
50 µm
% of cells K17+
DAPI F-actin Keratin-17
non-transduced
TRC Epgn-kd outgrowth
G
H
Relative Epgn expression
Outgrowth (# viable cells day 6 vs. day 0)
TRC-Ctrl-kd
TRC-Epgn-kd
Knockdown rescue by shRNA resistant epigen
I
none
hEpgn
Outgrowth (# viable cells day 4 vs. day 0)
hEpgn