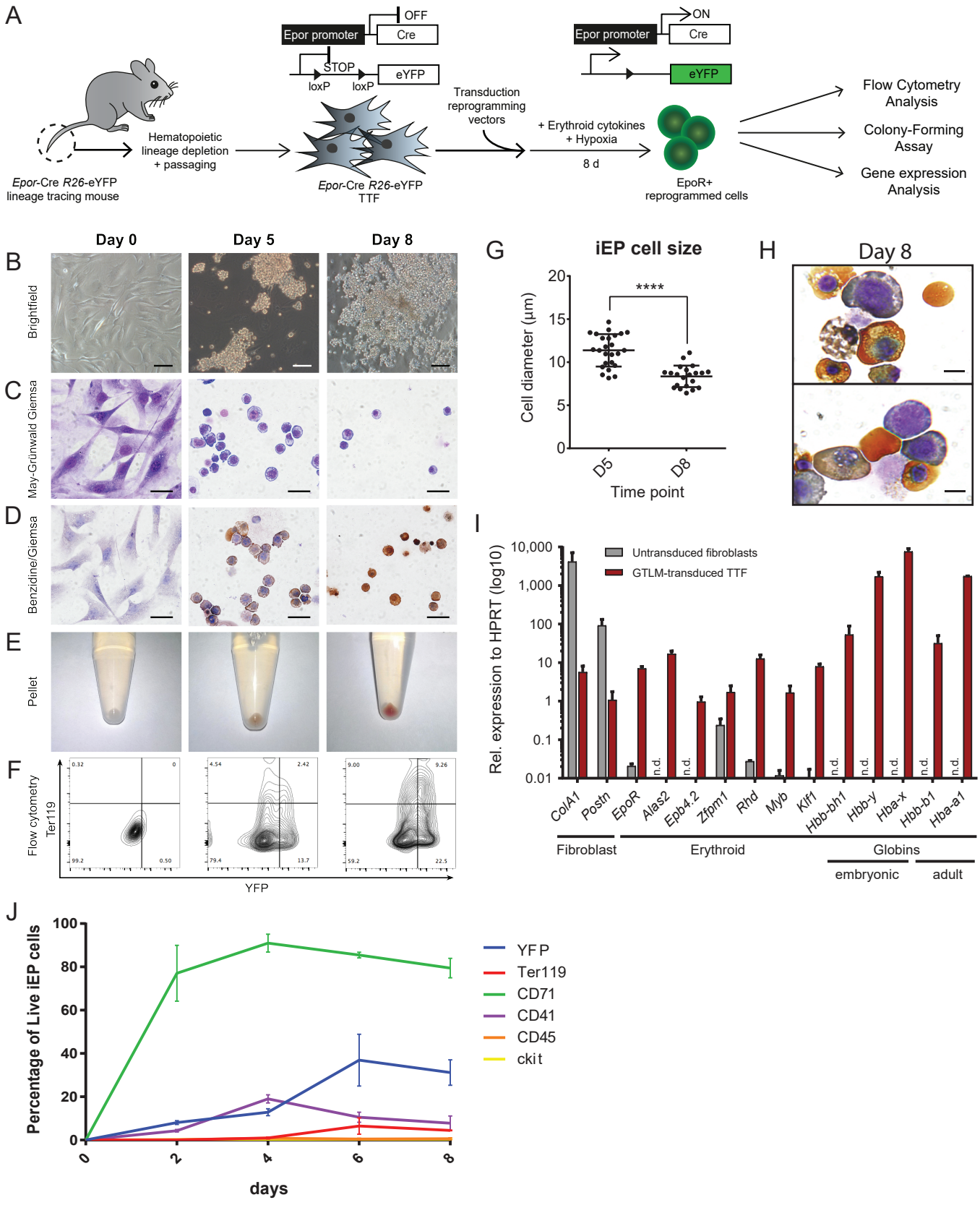
A
OFF
Epor promoter
Cre
STOP
loxP
loxP
eYFP
ON
Epor promoter
Cre
eYFP
Hematopoietic lineage depletion + passaging
Epor-Cre R26-eYFP lineage tracing mouse
Epor-Cre R26-eYFP TTF
Transduction reprogramming vectors
+ Erythroid cytokines + Hypoxia
8 d
EpoR+ reprogrammed cells
Flow Cytometry Analysis
Colony-Forming Assay
Gene expression Analysis
Day 0
Day 5
Day 8
B
Brightfield
C
May-Grünwald Giemsa
D
Benzidine/Giemsa
E
Pellet
F
Flow cytometry
Ter119
YFP
G
iEP cell size
Cell diameter (µm)
****
D5
D8
Time point
H
Day 8
I
Rel. expression to HPRT (log10)
Untransduced fibroblasts
GTLM-transduced TTF
n.d.
Col1A1
Postn
EpoR
Alas2
Epb4.2
Zfpm1
Rhd
Myb
Klf1
Hbb-bh1
Hbb-y
Hba-x
Hbb-b1
Hba-a1
Fibroblast
Erythroid
Globins
embryonic
adult
J
Percentage of Live iEP cells
days
YFP
Ter119
CD71
CD41
CD45
ckit