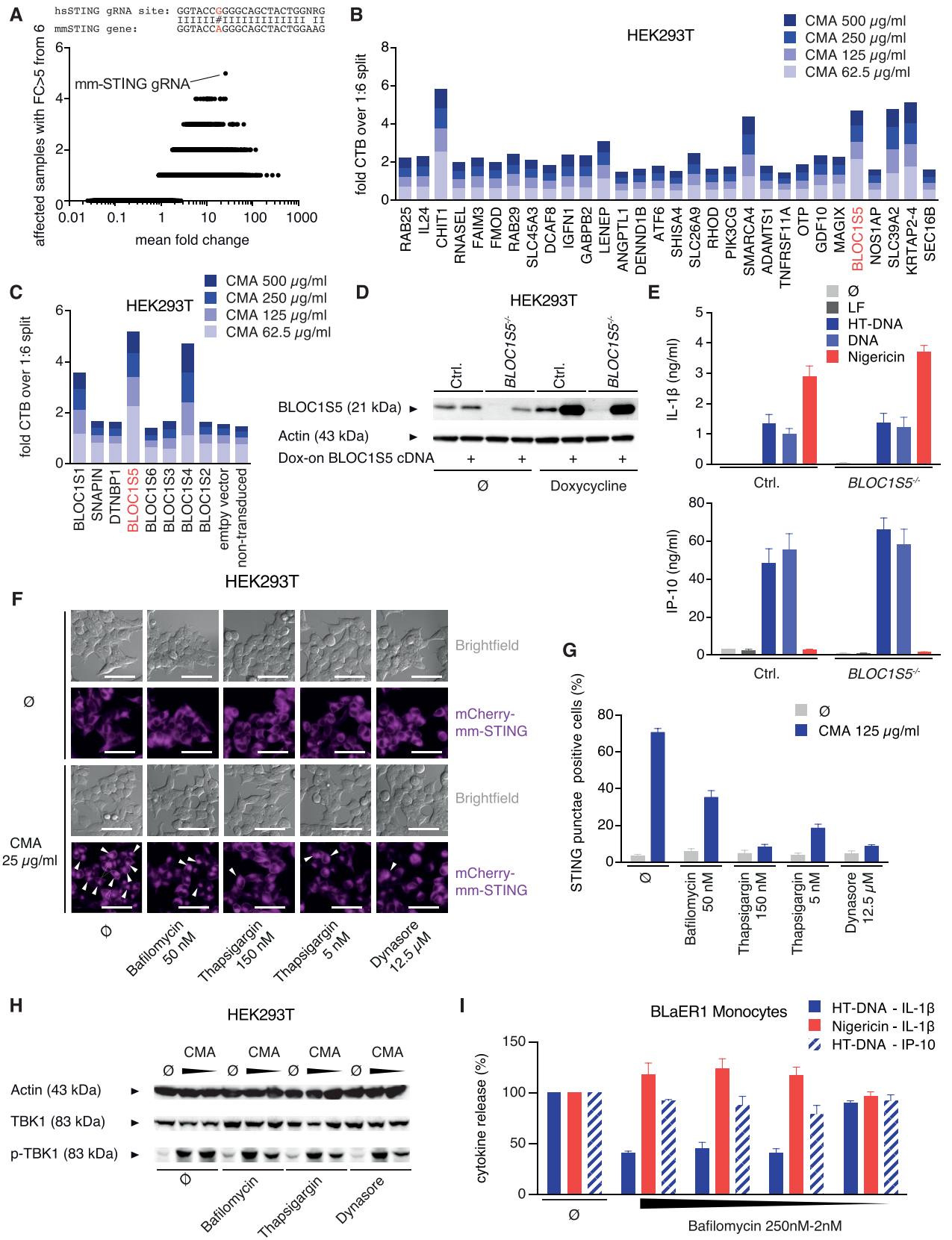
A
hsSTING gRNA site: GGTACCGGGGCAGCTACTGGNRG
IIIIII#IIIIIIIIIIIII II
mmSTING gene: GGTACCAGGGCAGCTACTGGAAG
mm-STING gRNA
affected samples with FC>5 from 6
mean fold change
B
HEK293T
CMA 500 μg/ml
CMA 250 μg/ml
CMA 125 μg/ml
CMA 62.5 μg/ml
fold CTB over 1:6 split
RAB25
IL24
CHIT1
RNASEL
FAIM3
FMOD
RAB29
SLC45A3
DCAF8
IGFN1
GABPB2
LENEP
ANGPTL1
DENND1B
ATF6
SHISA4
SLC26A9
RHOD
PIK3CG
SMARCA4
ADAMTS1
TNFRSF11A
OTP
GDF10
MAGIX
BLOC1S5
NOS1AP
SLC39A2
KRTAP2-4
SEC16B
C
HEK293T
CMA 500 μg/ml
CMA 250 μg/ml
CMA 125 μg/ml
CMA 62.5 μg/ml
fold CTB over 1:6 split
BLOC1S1
SNAPIN
DTNBP1
BLOC1S5
BLOC1S6
BLOC1S3
BLOC1S4
BLOC1S2
emtpy vector
non-transduced
D
HEK293T
Ctrl.
BLOC1S5-/-
Ctrl.
BLOC1S5-/-
BLOC1S5 (21 kDa)
Actin (43 kDa)
Dox-on BLOC1S5 cDNA
Ø
Doxycycline
E
Ø
LF
HT-DNA
DNA
Nigericin
IL-1β (ng/ml)
Ctrl.
BLOC1S5-/-
IP-10 (ng/ml)
Ctrl.
BLOC1S5-/-
F
HEK293T
Brightfield
mCherry-mm-STING
Ø
CMA 125 μg/ml
Brightfield
mCherry-mm-STING
Ø
Bafilomycin 50 nM
Thapsigargin 150 nM
Thapsigargin 5 nM
Dynasore 12.5 μM
G
Ø
CMA 125 μg/ml
STING punctae positive cells (%)
Ø
Bafilomycin 50 nM
Thapsigargin 150 nM
Thapsigargin 5 nM
Dynasore 12.5 μM
H
HEK293T
CMA
Ø
Actin (43 kDa)
TBK1 (83 kDa)
p-TBK1 (83 kDa)
Ø
Bafilomycin
Thapsigargin
Dynasore
I
BLaER1 Monocytes
HT-DNA - IL-1β
Nigericin - IL-1β
HT-DNA - IP-10
cytokine release (%)
Ø
Bafilomycin 250nM-2nM