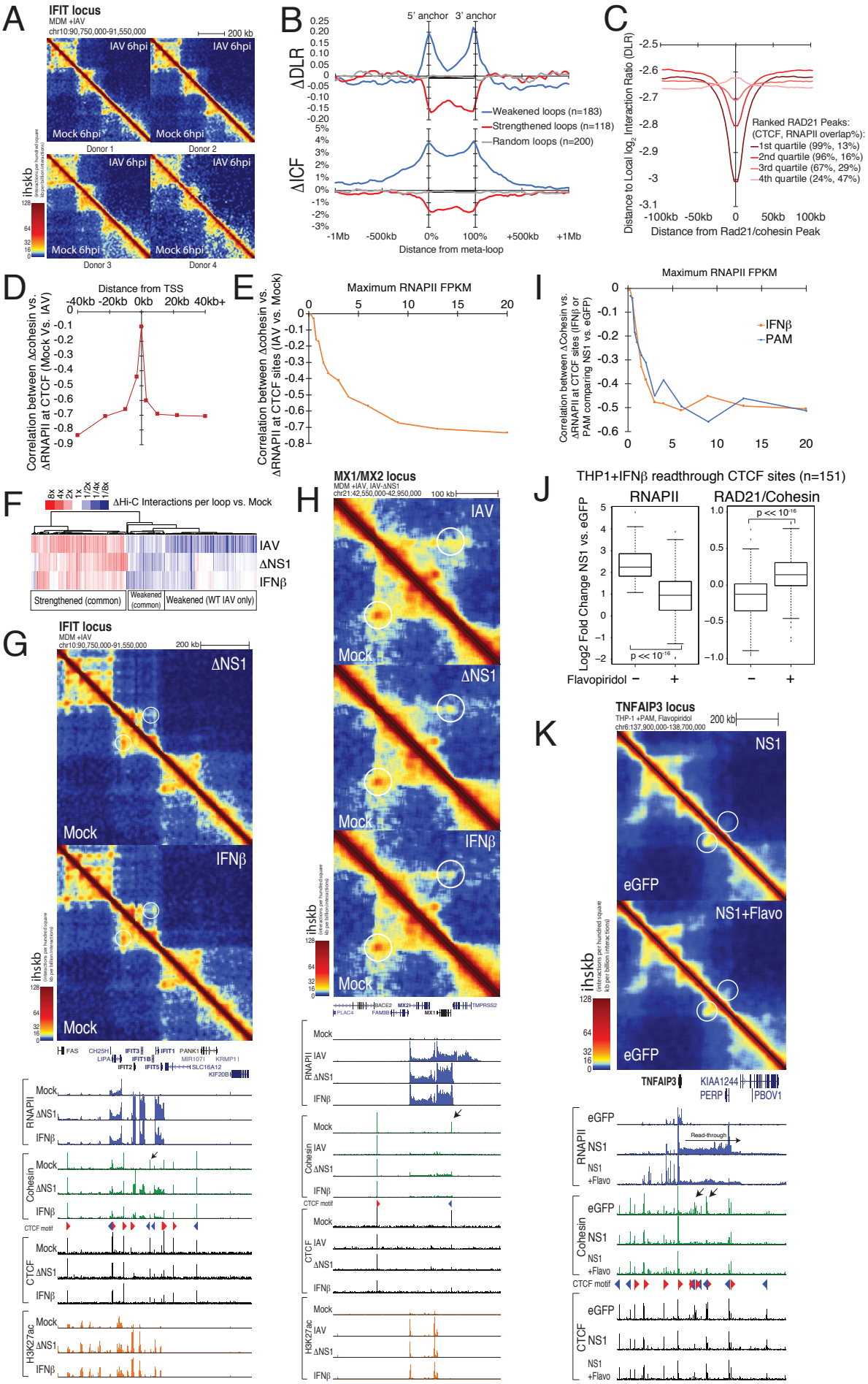
Figure S3


A
IFIT locus
MDM +IAV
chr10:90,750,000-91,550,000
200 kb
IAV 6hpi
Mock 6hpi
Donor 1
Donor 2
Donor 3
Donor 4
ihskb
B
5' anchor 3' anchor
ΔDLR
ΔICF
Weakened loops (n=183)
Strengthened loops (n=118)
Random loops (n=200)
-1Mb -500kb 0% 100% +500kb +1Mb
Distance from meta-loop
C
Distance to Local log2 Interaction Ratio (DLR)
Ranked RAD21 Peaks:
(CTCF, RNAPII overlap%):
1st quartile (99%, 13%)
2nd quartile (96%, 16%)
3rd quartile (67%, 29%)
4th quartile (24%, 47%)
-100kb -50kb 0 50kb 100kb
Distance from Rad21/cohesin Peak
D
Distance from TSS
-40kb -20kb 0kb 20kb 40kb+
Correlation between Δcohesin vs. ΔRNAPII at CTCF (Mock Vs. IAV)
E
Maximum RNAPII FPKM
Correlation between Δcohesin vs. ΔRNAPII at CTCF sites (IAV vs. Mock)
I
Maximum RNAPII FPKM
Correlation between ΔCohesin vs. ΔRNAPII at CTCF sites (IFNβ or PAM comparing NS1 vs. eGFP)
IFNβ
PAM
F
ΔHi-C Interactions per loop vs. Mock
IAV
ΔNS1
IFNβ
Strengthened (common)
Weakened (common)
Weakened (WT IAV only)
G
IFIT locus
MDM +IAV
chr10:90,750,000-91,550,000
200 kb
ΔNS1
IFNβ
Mock
RNAPII
Cohesin
CTCF motif
CTCF
H3K27ac
H
MX1/MX2 locus
MDM +IAV, IAV-ΔNS1
chr21:42,550,000-42,950,000
100 kb
IAV
ΔNS1
IFNβ
Mock
J
THP1+IFNβ readthrough CTCF sites (n=151)
RNAPII
RAD21/Cohesin
Log2 Fold Change NS1 vs. eGFP
Flavopiridol
K
TNFAIP3 locus
THP-1 +PAM, Flavopiridol
chr6:137,900,000-138,700,000
200 kb
NS1
eGFP
NS1+Flavo
Read-through
CTCF motif