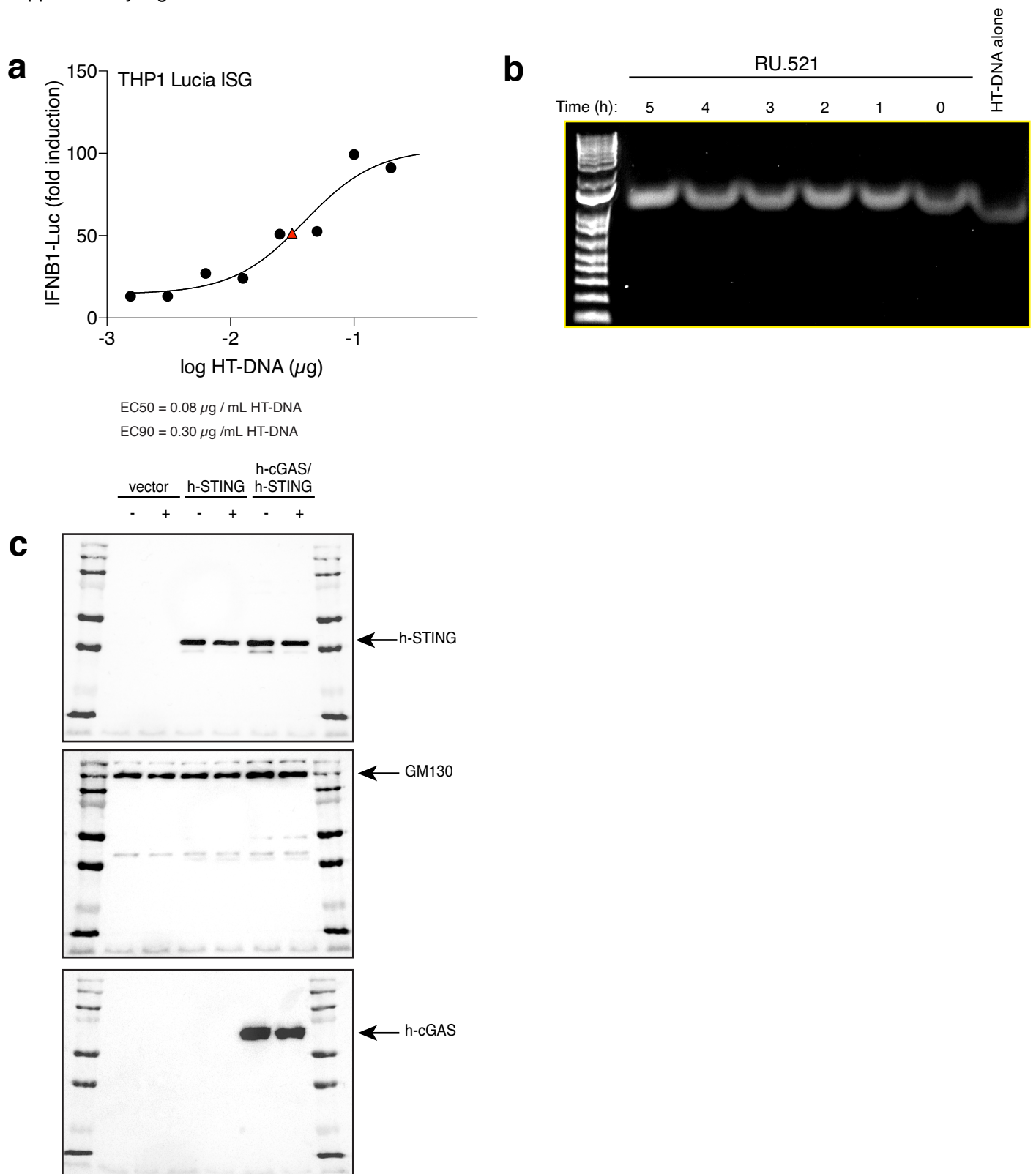
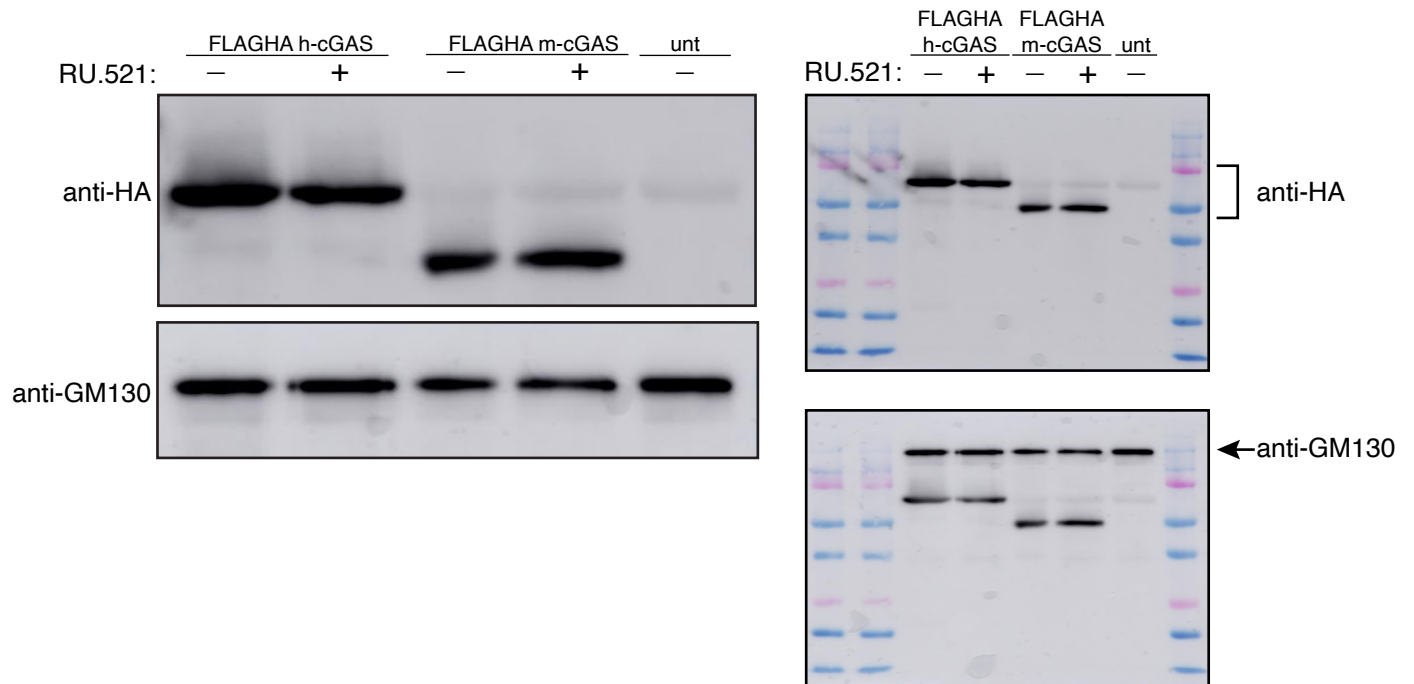


Supplementary Figure 1:



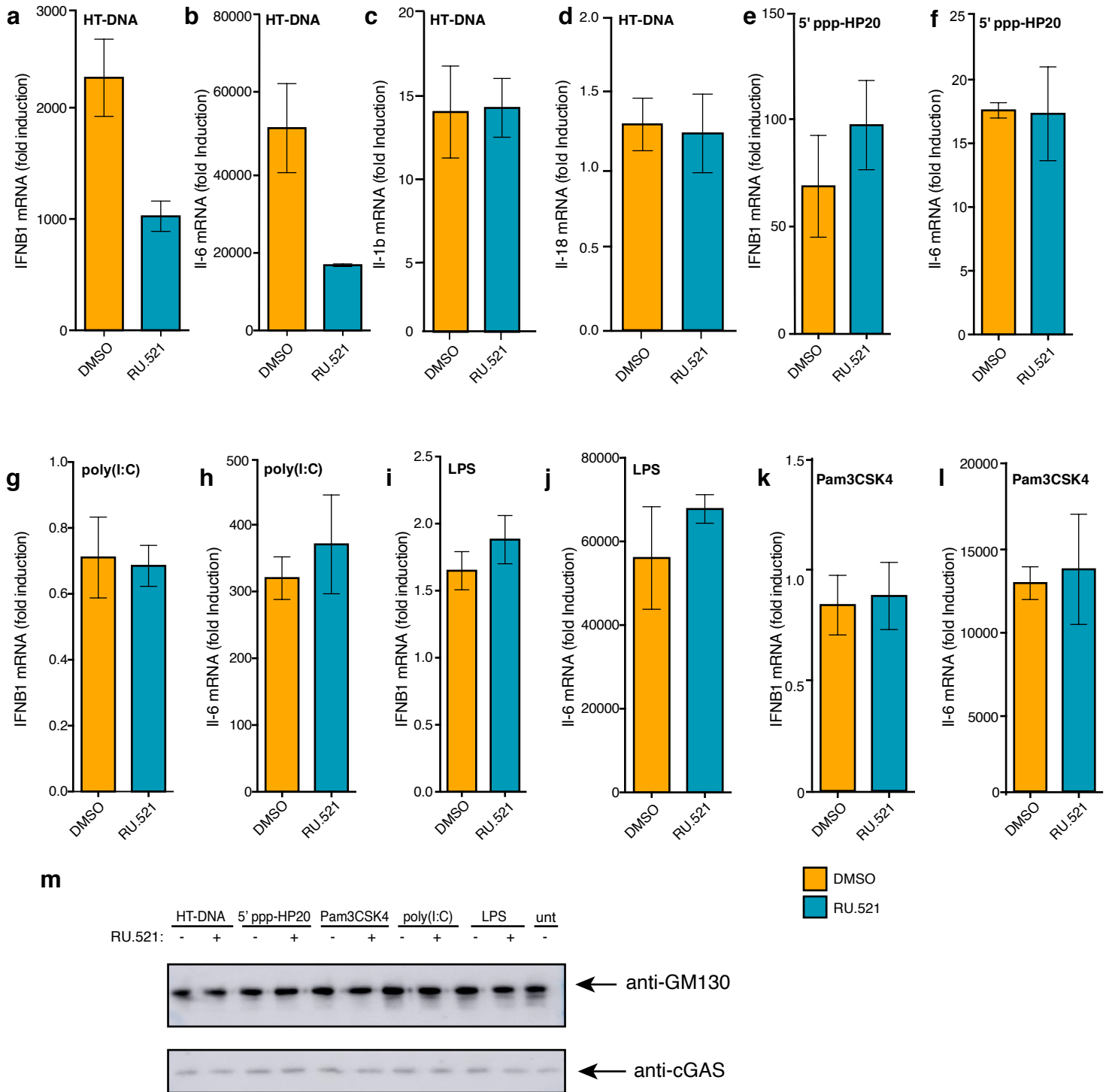
Supplementary Fig. 1: HT-DNA dose-response curve to determine appropriate concentration of HT-DNA for cGAS-mediated immune activation of THP-1 cells. EC90 was determined to be 0.3 μg HT-DNA/ mL of media (a). RU.521 does not degrade dsDNA. Using the established EC90 of 0.3 μg HT-DNA/ mL and an IC50 of 0.8 μM RU.521, both reagents were added to 1x PBS and incubated from 0-5 hours and then run on a 1.0% agarose gel (b). Full blot images from Figure 1 (c).

Supplementary Figure 2:



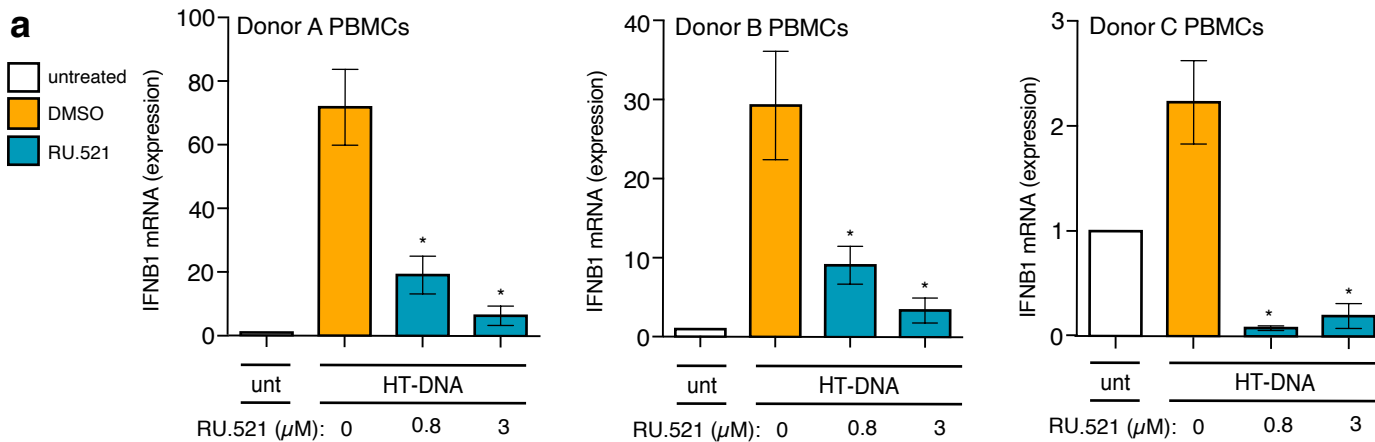
Supplementary Fig. 2: Western Blot of HEK293 cellular lysate transiently transfected with either human or mouse cGAS (with N-terminal Flag and HA tags). The presence of RU.521 does not alter protein levels of m-cGAS or h-cGAS. GM130 served as the loading control. 10 μ g of total protein was loaded into each well.

Supplementary Figure 3:



Supplementary Fig. 3: Actual gene expression values shown in Figure 2 (a-l). Immunoblot verification to ensure protein levels across samples remain consistent in the presence of RU.521 (m).

Supplementary Figure 4:



Supplementary Fig. 4: Actual IFNB1 mRNA expression values for each respective Donor (A,B, & C) shown in Figure 5.