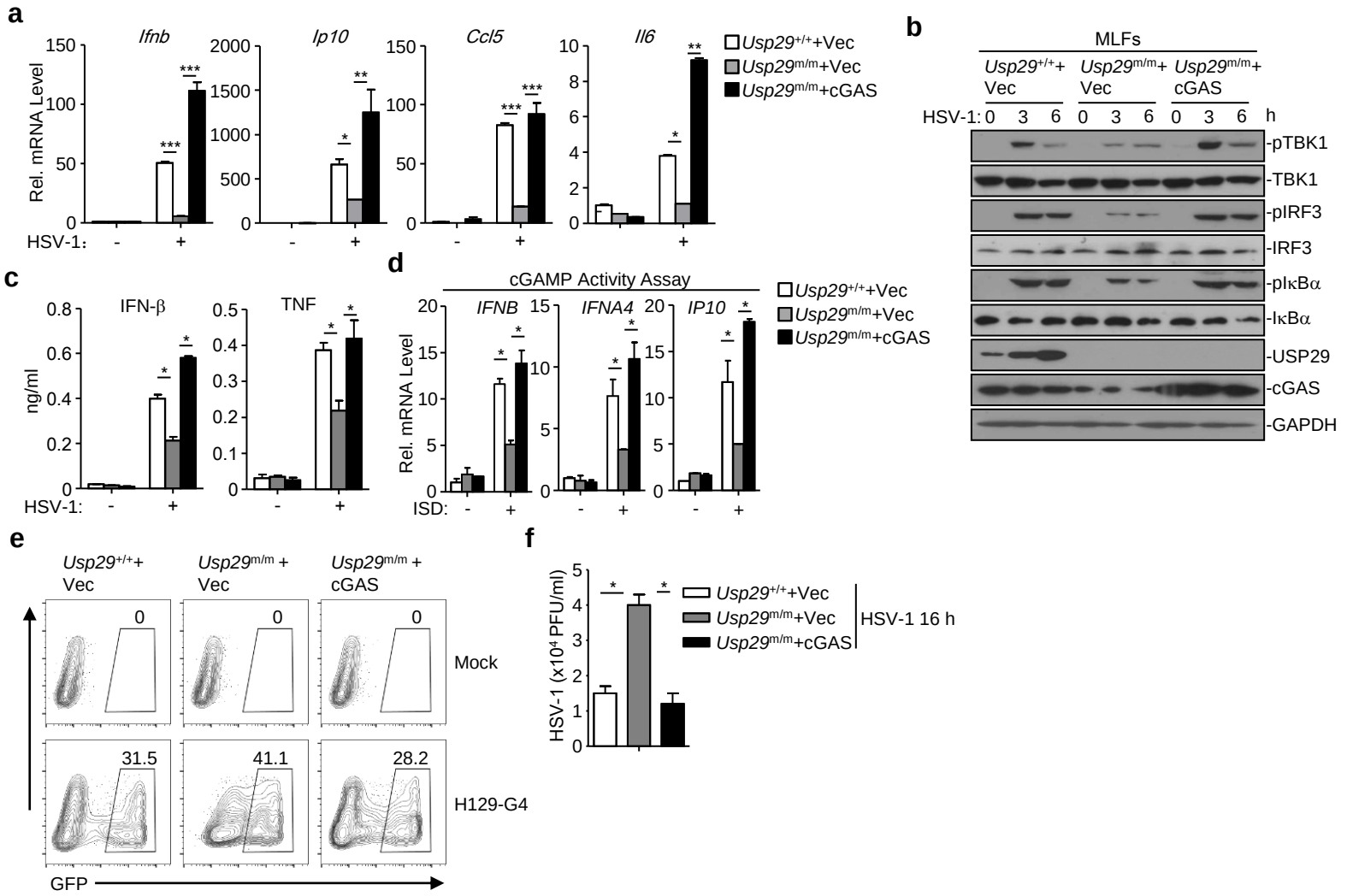
Supplementary information, Figure S6



Supplementary information, Fig. S6 USP29 regulates antiviral responses in a cGAS-dependent manner.
a qRT-PCR analysis of *Ifnb*, *Ip10*, *Ccl5* or *Il6* mRNA in *Usp29*$^{+/+}$ MLFs reconstituted with the empty vector (*Usp29*$^{+/+}$ +Vec) or in *Usp29*$^{m/m}$ MLFs reconstituted with the empty vector (*Usp29*$^{m/m}$ +Vec) or cGAS (*Usp29*$^{m/m}$ +cGAS) infected with HSV-1 for 0-6 h. **b** Immunoblot analysis of phosphorylated and total TBK1, IRF3 and IκBα, USP29 and GAPDH in *Usp29*$^{+/+}$ MLFs reconstituted with the empty vector (*Usp29*$^{+/+}$ +Vec) or in *Usp29*$^{m/m}$ MLFs reconstituted with the empty vector (*Usp29*$^{m/m}$ +Vec) or cGAS (*Usp29*$^{m/m}$ +cGAS) infected with HSV-1 for 0-6 h. **c** ELISA analysis of IFN-β and TNF in the supernatants of *Usp29*$^{+/+}$ MLFs reconstituted with the empty vector (*Usp29*$^{+/+}$ +Vec) or in *Usp29*$^{m/m}$ MLFs reconstituted with the empty vector (*Usp29*$^{m/m}$ +Vec) or cGAS (*Usp29*$^{m/m}$ +cGAS) infected with HSV-1 for 12 h. **d** *Usp29*$^{+/+}$ MLFs reconstituted with the empty vector (*Usp29*$^{+/+}$ +Vec) or *Usp29*$^{m/m}$ MLFs reconstituted with the empty vector (*Usp29*$^{m/m}$ +Vec) or cGAS (*Usp29*$^{m/m}$ +cGAS) were left untransfected or transfected with ISD45 for 4 h. The cell extracts containing cGAMP were delivered to digitonin-permeabilized HFFs for 4 h followed by qRT-PCR analysis. **e** Flow cytometry analysis of *Usp29*$^{+/+}$ MLFs reconstituted with the empty vector (*Usp29*$^{+/+}$ +Vec) or *Usp29*$^{m/m}$ MLFs reconstituted with the empty vector (*Usp29*$^{m/m}$ +Vec) or cGAS (*Usp29*$^{m/m}$ +cGAS) infected with or without H129-G4 for 16 h. **f** Plaque assays of *Usp29*$^{+/+}$ MLFs reconstituted with the empty vector (*Usp29*$^{+/+}$ +Vec) or *Usp29*$^{m/m}$ MLFs reconstituted with the empty vector (*Usp29*$^{m/m}$ +Vec) or cGAS (*Usp29*$^{m/m}$ +cGAS) infected with or without HSV-1 for 16 h.
P*<0.05; ***P*<0.001; ****P*<0.001 (analysis of two-way ANOVA followed by Bonferroni post-test).Data are representative of two (d**) or three (**a**, **b**, **c**, **e**, **f**) independent experiments (mean ± S.D. in **a**, **c**, **d**, **f**).