# Supporting Information

## Hall et al. 10.1073/pnas.1209724109

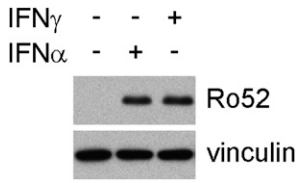


**Fig. S1.** Equivalent levels of Ro52 expression by IFN-α and IFN-γ. Protein lysates from untreated HSGs or HSGs treated with IFN-α (1,000 U/mL) or IFN-γ (50 ng/mL) for 24 h were analyzed by Western blotting. Ro52 was induced at equal levels by IFN-α and IFN-γ. Vinculin is included as a loading control.

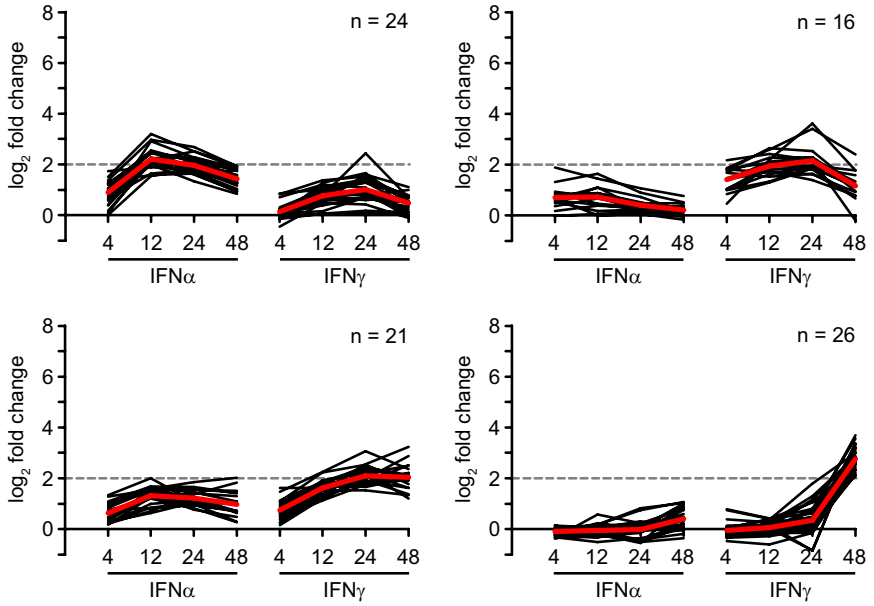


**Fig. S2.** Groups of transcripts with low differential expression. A total of 87 (20.9%) of the 416 IFN-induced transcripts was clustered by SOM into four groups. These groups contained transcripts with either low differential expression between IFN-α and IFN-γ, or those that had an average induction by IFN-α or IFN-γ above fourfold at only one time point. Individual transcripts are shown in black. Mean values for the group at each time point are shown in red. The *y*-axis represents $\log_2$ fold change in expression relative to untreated cells. The dashed lines indicate a fourfold increase.

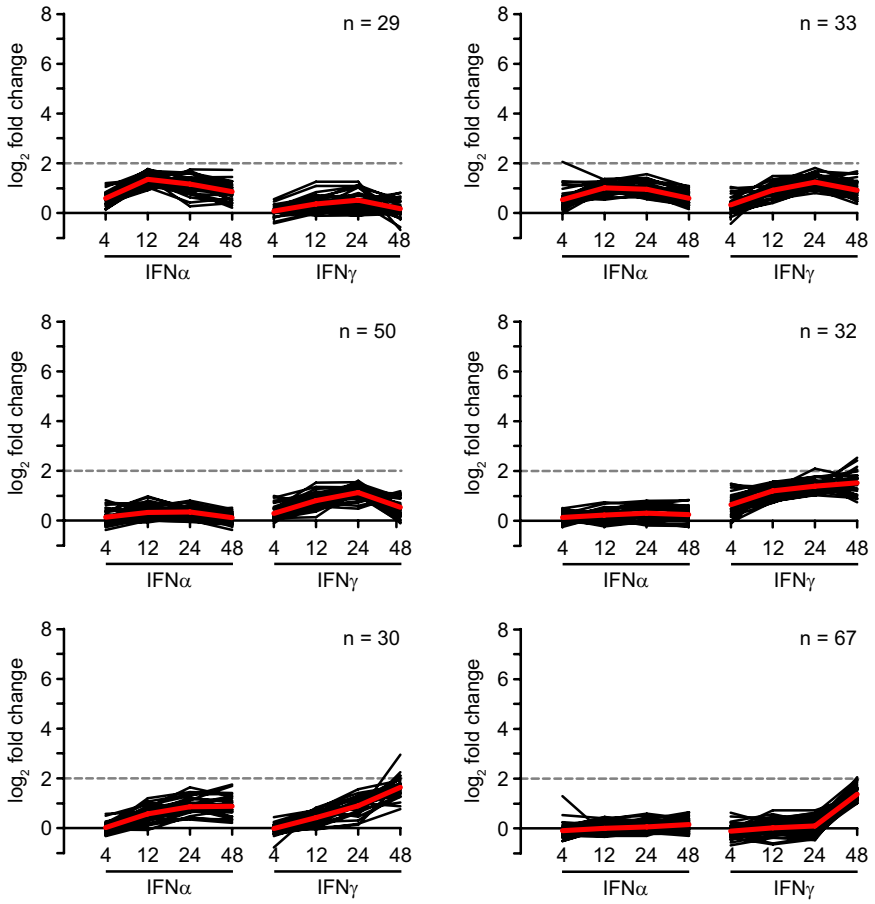


**Fig. S3.** Groups of transcripts that do not differentiate between IFN-α and IFN-γ responses. A total of 241 (57.9%) of the 416 IFN-induced transcripts was clustered by SOM into six groups. The average induction by IFN-α or IFN-γ for these groups was below fourfold at all time points (4, 12, 24, and 48 h). Individual transcripts are shown in black. Mean values for the group at each time point are shown in red. The *y*-axis represents $\log_2$ fold change in expression relative to untreated cells. The dashed lines indicate a fourfold increase.

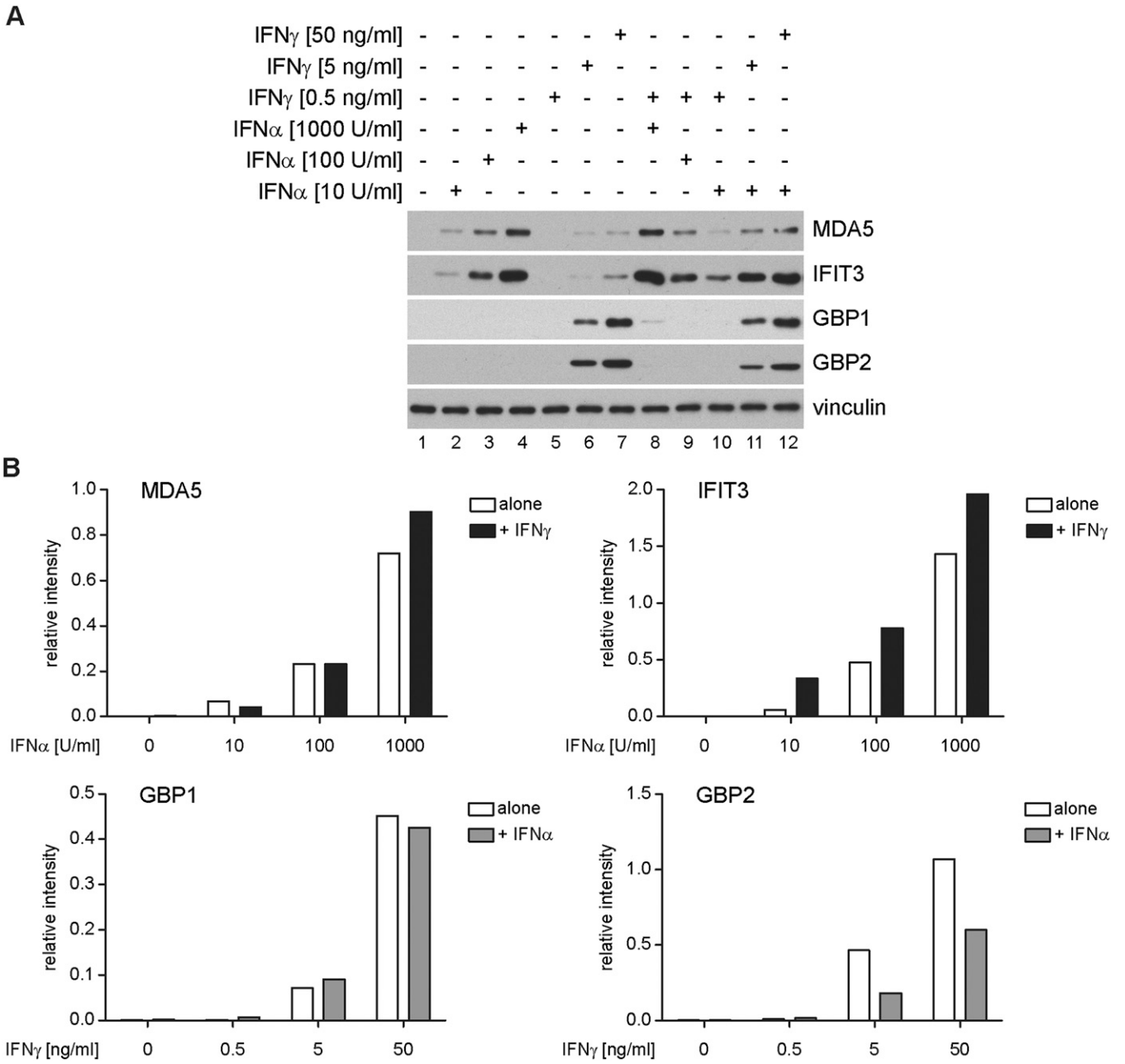


**Fig. S4.** Titration of IFN-α and IFN-γ doses and synergism of IFN responses. (*A*) Equivalent amounts of protein lysates HSGs cultured for 24 h in the presence of IFN-α or IFN-γ as shown were analyzed by Western blotting for IFN-inducible proteins. Vinculin was included as a loading control. (*B*) The data were scanned and normalized to the level of vinculin in each lane, and the relative intensities of expression in response to IFN-α or IFN-γ alone (open bars) or in combination with either IFN-γ (0.5 ng/mL) or IFN-α (10 U/mL) (filled bars) are shown.

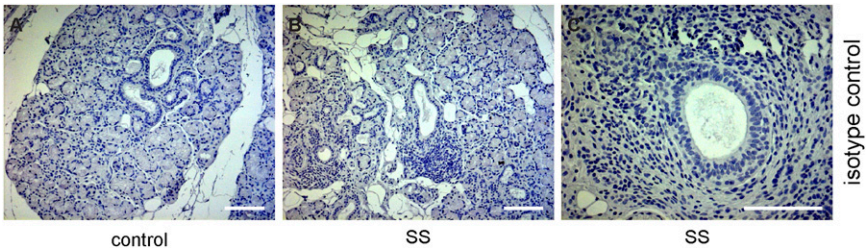


**Fig. S5.** Isotype control antibody staining in serial sections of minor salivary gland biopsies from the one control (*A*) and two SS patients (*B* and *C*) presented in Fig. 5. (Scale bars, 50 μm.)

**Table S1. IFN-inducible genes, 4 h**

Table S1

**Table S2. IFN-inducible genes, 12 h**

Table S2

**Table S3. IFN-inducible genes, 24 h**

Table S3

**Table S4. IFN-inducible genes, 48 h**

Table S4

**Table S5. Lists of IFN-α– and IFN-γ–responsive transcripts presented in Fig. 2**

Table S5