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Initial submission	Revised version	Final submission

Life Sciences Reporting Summary

Nature Research wishes to improve the reproducibility of the work that we publish. This form is intended for publication with all accepted life science papers and provides structure for consistency and transparency in reporting. Every life science submission will use this form; some list items might not apply to an individual manuscript, but all fields must be completed for clarity.

For further information on the points included in this form, see Reporting Life Sciences Research. For further information on Nature Research policies, including our data availability policy, see Authors & Referees and the Editorial Policy Checklist.

	Experimental design		
1.	Sample size		
	Describe how sample size was determined.	The number of experiments and replicates was based on standard practices. In general, two or three independent experiments were conducted with at least two biological replicates or technical replicates where applicable. Details for each experiment are included in the respective figure legend.	
2.	Data exclusions		
	Describe any data exclusions.	N.A.	
3.	Replication		
	Describe whether the experimental findings were reliably reproduced.	The experimental findings were reliably reproduced. See details in the figure legends.	
4.	Randomization		
	Describe how samples/organisms/participants were allocated into experimental groups.	N.A.	
5.	Blinding		
	Describe whether the investigators were blinded to group allocation during data collection and/or analysis.	N.A.	
	Note: all studies involving animals and/or human research partici	pants must disclose whether blinding and randomization were used.	
ŝ.	Statistical parameters		
	For all figures and tables that use statistical methods, con- Methods section if additional space is needed).	firm that the following items are present in relevant figure legends (or in the	
n/a	Confirmed		
	The exact sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement (animals, litters, cultures, etc.		
	A description of how samples were collected, noting whether measurements were taken from distinct samples or whether the same sample was measured repeatedly		
	A statement indicating how many times each experiment was replicated		
	The statistical test(s) used and whether they are one- or two-sided (note: only common tests should be described solely by name; more complex techniques should be described in the Methods section)		
\times	A description of any assumptions or corrections, such as an adjustment for multiple comparisons		

See the web collection on statistics for biologists for further resources and guidance.

📈 A clear description of statistics including central tendency (e.g. median, mean) and variation (e.g. standard deviation, interquartile range)

The test results (e.g. P values) given as exact values whenever possible and with confidence intervals noted

Clearly defined error bars

Software

Policy information about availability of computer code

7. Software

Describe the software used to analyze the data in this study.

GraphPad Prism 7.03

ImageJ

TRIM Galore!

Cutadapt

FastQC

Tophat2

HTSeq-count

R

ggplot2

For manuscripts utilizing custom algorithms or software that are central to the paper but not yet described in the published literature, software must be made available to editors and reviewers upon request. We strongly encourage code deposition in a community repository (e.g. GitHub). *Nature Methods* guidance for providing algorithms and software for publication provides further information on this topic.

Materials and reagents

Policy information about availability of materials

8. Materials availability

Indicate whether there are restrictions on availability of unique materials or if these materials are only available for distribution by a for-profit company.

No restrictions on availability of unique materials.

9. Antibodies

Describe the antibodies used and how they were validated for use in the system under study (i.e. assay and species).

All antibodies, except the HSV-1 ICP-8 antibody (provided and verified by Dr. David Knipe, Harvard), were purchased from commercial vendors who have validated the antibodies for the use of Western blot and/or Co-immunoprecipitation analysis. Details about all antibodies are described in the Online Methods section.

10. Eukaryotic cell lines

a. State the source of each eukaryotic cell line used.

HEK 293T (ATCC), Vero (ATCC), NHLF (Clonetics). HEK 293T ISRE-luciferase reporter cells, RIG-I WT and deficient MEFs, and AGS-EBV cells were obtained from other investigators, who have published these cell lines and confirmed their authentication.

b. Describe the method of cell line authentication used.

Cell lines from ATCC or Clonetics were authenticated by the vendors and were not validated further in our laboratory. Cell lines that were obtained and validated by other groups were not further authenticated.

c. Report whether the cell lines were tested for mycoplasma contamination.

Cell lines have been regularly tested for potential mycoplasma contamination by PCR.

d. If any of the cell lines used are listed in the database of commonly misidentified cell lines maintained by ICLAC, provide a scientific rationale for their use.

N.A.

Animals and human research participants

Policy information about studies involving animals; when reporting animal research, follow the ARRIVE guidelines

11. Description of research animals

Provide details on animals and/or animal-derived materials used in the study.

N.A.

Policy information about studies involving human research participants

12. Description of human research participants

Describe the covariate-relevant population characteristics of the human research participants.

N.A.