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1 **Supplementary Table 1.**

2 Statistical analysis for primary siRNA screens using a mixed-effects Poisson regression model in
3 which GFP-LC3 puncta numbers/cell served as response variable, siRNA treatment (using
4 negative control wells as references) served as the independent variable, and a random intercept
5 was included to model the correlated observations among cells within each well.

6

7 **Supplementary Table 2.**

8 Statistical analysis of primary siRNA screens using a mixed-effects Poisson regression model in
9 which GFP-LC3 puncta numbers/cell served as response variable, random intercepts were used
10 to account for correlated intra- and inter-cell observations in the same assay plate, and fixed
11 effects included siRNA treatment and viral infections with their interactions.

12

13 **Supplementary Table 3.**

14 Statistical analysis results for deconvolution siRNA screens. Shown are the scores (coefficient
15 values) and Wald-test *P*-values (two-sided) for each Dharmacon siRNA oligonucleotide
16 corresponding to 310 genes that scored positive in the primary siRNA screens and for each assay
17 plate. “N/A”, failed regression of statistical models. NC, non-targeting control siRNA.

18

19 **Supplementary Table 4.**

20 Data from Extended Data Fig. 2g with additional details including Entrez gene ID, UniProtKB
21 ID, gene name, subcellular location, function, and gene involvement in all the categories from
22 several gene ontology databases (such as GO Terms, INTERPRO, UP, SMART, PIR, KEGG,
23 BIOCARTA, COG, BBID and OMIM).

24

25 **Supplementary Table 5.**

26 Data from Extended Data Fig. 2h, i for all the 174 categories (terms) from DAVID
27 Bioinformatics Resources containing at least 2 confirmed hits and hypergeometric test P -values
28 < 0.05 . Details include source, number of confirmed hits, corresponding UniProtKB ID and gene
29 symbol, P -value, enrichment score ($-\log_{10}[P\text{-value}]$) and FDR adjusted P -value.

30

31 **Supplementary Figure 1.**

32 This file contains gel source data.

33