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| **Table S4. Comparison of human genes involved in SINV-Luc infection and endocytic pathway genes.**  |
|  Confirmed genes shared by SINV infection & endocytosis screens (total of 44 genes) |
| Genes shared by SINV & both endocytosis screens (4 genes)  | Genes shared by SINV & clathrin-coated vesicle screens [1] (15 genes) | Genes shared by SINV & endocytosis screens [2] (25 genes)  |
| AGTRAP |   | ADRM1 |   | ACAP1 | MRE11A |
| DNM2\*/\*\* |   | ALPP |   | BCL2L1 | NDST1 |
| ITFG3 |   | ARCN1 |   | C11orf68 | NEK2 |
| YARS |   | ATP6V0C |   | CHMP2B | OR6N2 |
|   |   | CTDSP1 |   | CKS2 | PLAT |
|   |   | GNAI3 |   | CSF2 | PPP1R12B |
|   |   | ITSN1\* |   | FBXL5 | PRM1 |
|   |   | LIMA1 |   | FLT4 | TAF5 |
|   |   | MAP2K3 |   | FOS | TAF4 |
|   |   | NPEPL1 |   | FURIN | TSPAN9 |
|   |   | OGDH |   | GCNT3 |   |
|   |   | PAFAH1B2 |   | GPC3 |   |
|   |   | SRRT |   | GPR52 |   |
|   |   | STK10 |   | INTS7 |   |
|   |   | TOMM34 |   | LZTR1 |   |
|   |   |   |   |   |   |
|  |  |  |  |  |  |
| \* Predicted CCV proteins |
| \*\* Clathrin cage associated proteins |

Overlap between the validated genes listed in Tables S2 and S3 and those identified as being involved in clathrin-coated vesicles (middle column) [1] or in the endocytic uptake pathways of transferrin and epidermal growth factor (right column) [2], or in both (left column).

1. Borner GH, Antrobus R, Hirst J, Bhumbra GS, Kozik P, et al. (2012) Multivariate proteomic profiling identifies novel accessory proteins of coated vesicles. J Cell Biol 197: 141-160.

2. Collinet C, Stoter M, Bradshaw CR, Samusik N, Rink JC, et al. (2010) Systems survey of endocytosis by multiparametric image analysis. Nature 464: 243-249.