Supplementary Data

Limited replication of human cytomegalovirus in a trophoblast cell line

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Supplementary Figure 1 Analysis of fluorescent protein expression in HFF and SGHPL-4 cells. Low and high passage HFF and SGHPL cells (HFF passage 6, SGHPL-4 passage 13) (A and C, B and D, respectively) were incubated in 0.5% (v/v) media for 24 hours before infection with an MOI of 0.5 with green fluorescent protein (GFP) expressing virus Merlin(R1111)UL36GFP (green) or mock infected (grey). After 24 hours uninfected and infected cells were analyzed for GFP expression using FACS. The percentage of uninfected and infected cells detected in the FACS channel detecting GFP in each condition is noted in each panel. The data presented in this figure is representative of two independent experiments.

Supplementary Figure 2 Replication of different HCMV strains in HFF and SGHPL-4 cells. (A) Low passage HFF and SGHPL cells (HFF passage 6-10, SGHPL-4 passage
were incubated in 0.5% (v/v) media for 24 hours before infection with an MOI of 1 with the HCMV strains shown in the figure. After 96 hours post infection in 0.5% (v/v) media viral titre (p.f.u./ml) was determined by titration of viral supernatant on HFF cells. Each data point represents the data from three independent experiments. The bar chart and error bars represent the mean and standard deviation of that data, respectively. The statistical difference between the indicated conditions was measured using an unpaired t test (two-tailed) and is indicated above each figure. A statistically relevant difference was where p=<0.05. Not significant (ns). (B) Low and high passage HFF and SGHPL cells (HFF passage 6, SGHPL-4 passage 14) were prepared for western blotting or incubated in 0.5% (v/v) media for 24 hours before preparation for western blotting. Proteins recognized by the antibodies used in the experiment are indicated to the right of each western blot panel. The presence of β-actin was assayed to assess the amount of cell lysate assayed in each lane. The positions of molecular weight markers (kDa) are indicated to the left of the figure. (C) Cells were infected with Merlin(R1111) as in (A) and virus was harvested at the indicated time points. The data from three independent experiments was presented. The bar chart and error bars represent the mean and standard deviation of that data, respectively.

Supplementary Figure 3 Replication of ZIKV in different cell lines. The cell lines indicated in the figure were incubated in 10% (v/v) media and infected with the ZIKV strain PE243 (MOI 0.1). In all experiments viruses were harvested at 48 hours post infection and viral titre (p.f.u./ml) was determined by titration of viral supernatant on Vero cells. The data from three independent experiments was presented. The bar chart and error bars
represent the mean and standard deviation of that data, respectively. The statistical difference between the indicated conditions was measured using an unpaired t test (two-tailed) and is indicated above each figure. A statistically relevant difference was where $p<0.05$. 


Supplementary Figure S1
Supplementary Figure S2
Supplementary Figure 3

Cell Line

p.f.u./ml

$1 \times 10^5$

$1 \times 10^6$

Vero  A549  A549-Npro

ns

$p=0.4$

ns

$p=0.4$