

1 **Supplementary Data**

2  
3 Limited replication of human cytomegalovirus in a trophoblast cell line

4  
5 Kadeem Hyde<sup>a</sup>, Nowshin Sultana<sup>a</sup>, Andy C Tran<sup>a</sup>, Narina Bileckaja<sup>a</sup>,  
6 Claire L Donald<sup>b</sup>, Alain Kohl<sup>b</sup>, Richard J Stanton<sup>c</sup> & Blair L Strang<sup>a#</sup>

7  
8 Institute of Infection & Immunity, St George's, University of London, London, UK<sup>a</sup>; MRC-  
9 University of Glasgow Centre for Virus Research, Glasgow, UK<sup>b</sup>; Division of Infection  
10 and Immunity, Cardiff University School of Medicine, Cardiff, UK<sup>c</sup>

11  
12 **Supplementary Figure 1 Analysis of fluorescent protein expression in HFF and**  
13 **SGHPL-4 cells.** Low and high passage HFF and SGHPL cells (HFF passage 6, SGHPL-  
14 4 passage 13) (A and C, B and D, respectively) were incubated in 0.5% (v/v) media for  
15 24 hours before infection with an MOI of 0.5 with green fluorescent protein (GFP)  
16 expressing virus Merlin(R1111)UL36GFP (green) or mock infected (grey). After 24 hours  
17 uninfected and infected cells were analyzed for GFP expression using FACS. The  
18 percentage of uninfected and infected cells detected in the FACS channel detecting GFP  
19 in each condition is noted in each panel. The data presented in this figure is representative  
20 of two independent experiments.

21  
22 **Supplementary Figure 2 Replication of different HCMV strains in HFF and SGHPL-**  
23 **4 cells.** (A) Low passage HFF and SGHPL cells (HFF passage 6-10, SGHPL-4 passage

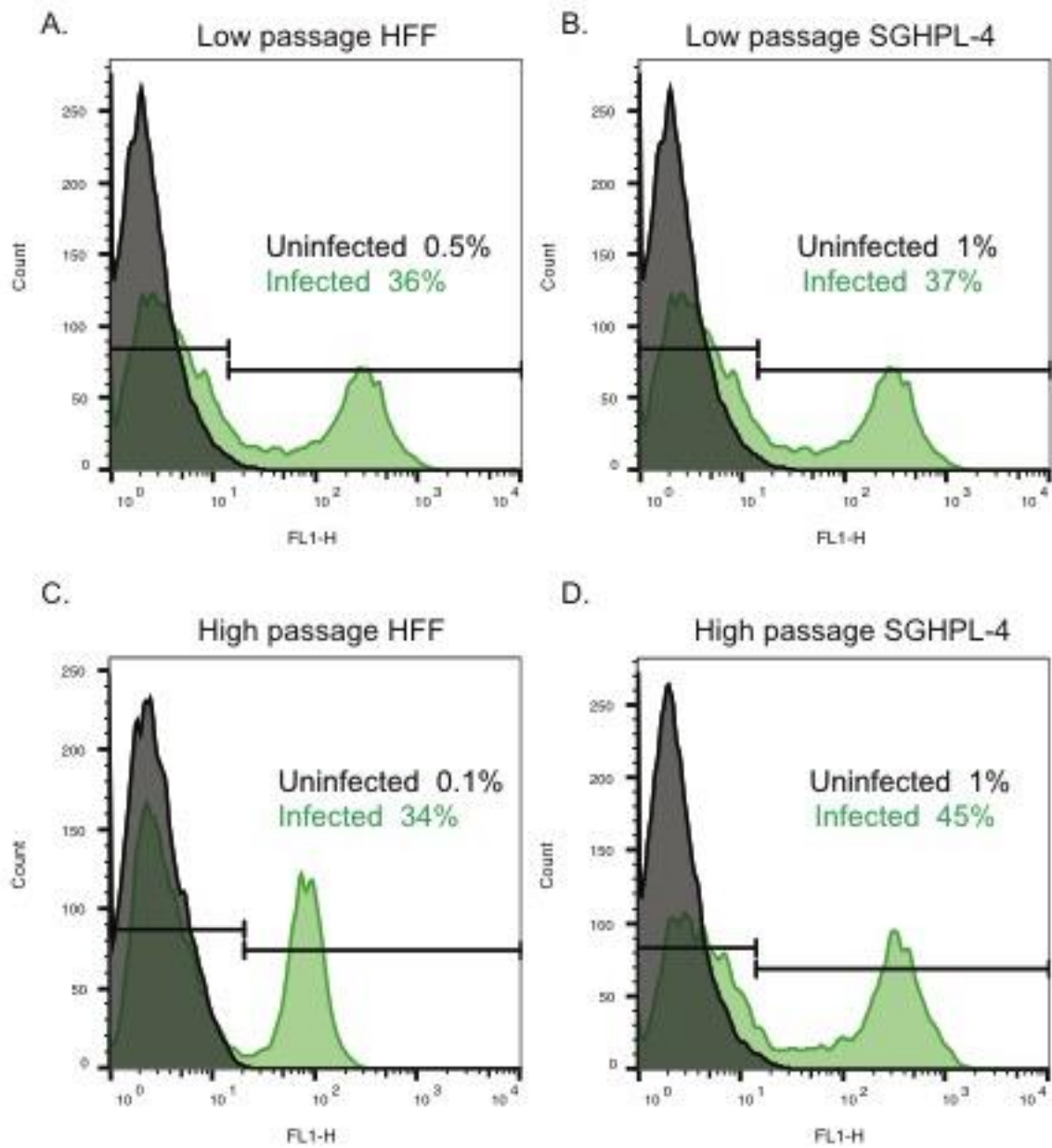
24 13-17) were incubated in 0.5% (v/v) media for 24 hours before infection with an MOI of 1  
25 with the HCMV strains shown in the figure. After 96 hours post infection in 0.5% (v/v)  
26 media viral titre (p.f.u./ml) was determined by titration of viral supernatant on HFF cells.  
27 Each data point represents the data from three independent experiments. The bar chart  
28 and error bars represent the mean and standard deviation of that data, respectively. The  
29 statistical difference between the indicated conditions was measured using an unpaired t  
30 test (two-tailed) and is indicated above each figure. A statistically relevant difference was  
31 where  $p < 0.05$ . Not significant (ns). (B) Low and high passage HFF and SGHPL cells  
32 (HFF passage 6, SGHPL-4 passage 14) were prepared for western blotting or incubated  
33 in 0.5% (v/v) media for 24 hours before preparation for western blotting. Proteins  
34 recognized by the antibodies used in the experiment are indicated to the right of each  
35 western blot panel. The presence of  $\beta$ -actin was assayed to assess the amount of cell  
36 lysate assayed in each lane. The positions of molecular weight markers (kDa) are  
37 indicated to the left of the figure. (C) Cells were infected with Merlin(R1111) as in (A) and  
38 virus was harvested at the indicated time points. The data from three independent  
39 experiments was presented. The bar chart and error bars represent the mean and  
40 standard deviation of that data, respectively.

41

42 **Supplementary Figure 3 Replication of ZIKV in different cell lines.** The cell lines  
43 indicated in the figure were incubated in 10% (v/v) media and infected with the ZIKV strain  
44 PE243 (MOI 0.1). In all experiments viruses were harvested at 48 hours post infection  
45 and viral titre (p.f.u./ml) was determined by titration of viral supernatant on Vero cells. The  
46 data from three independent experiments was presented. The bar chart and error bars

47 represent the mean and standard deviation of that data, respectively. The statistical  
48 difference between the indicated conditions was measured using an unpaired t test (two-  
49 tailed) and is indicated above each figure. A statistically relevant difference was where  
50  $p < 0.05$ .

51



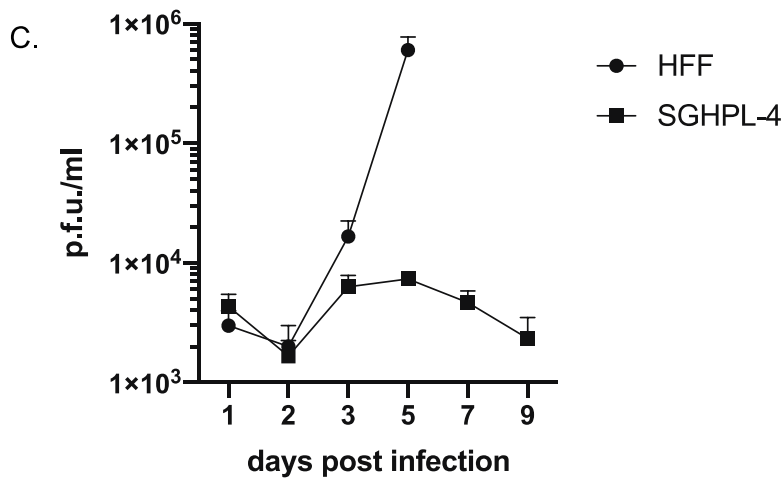
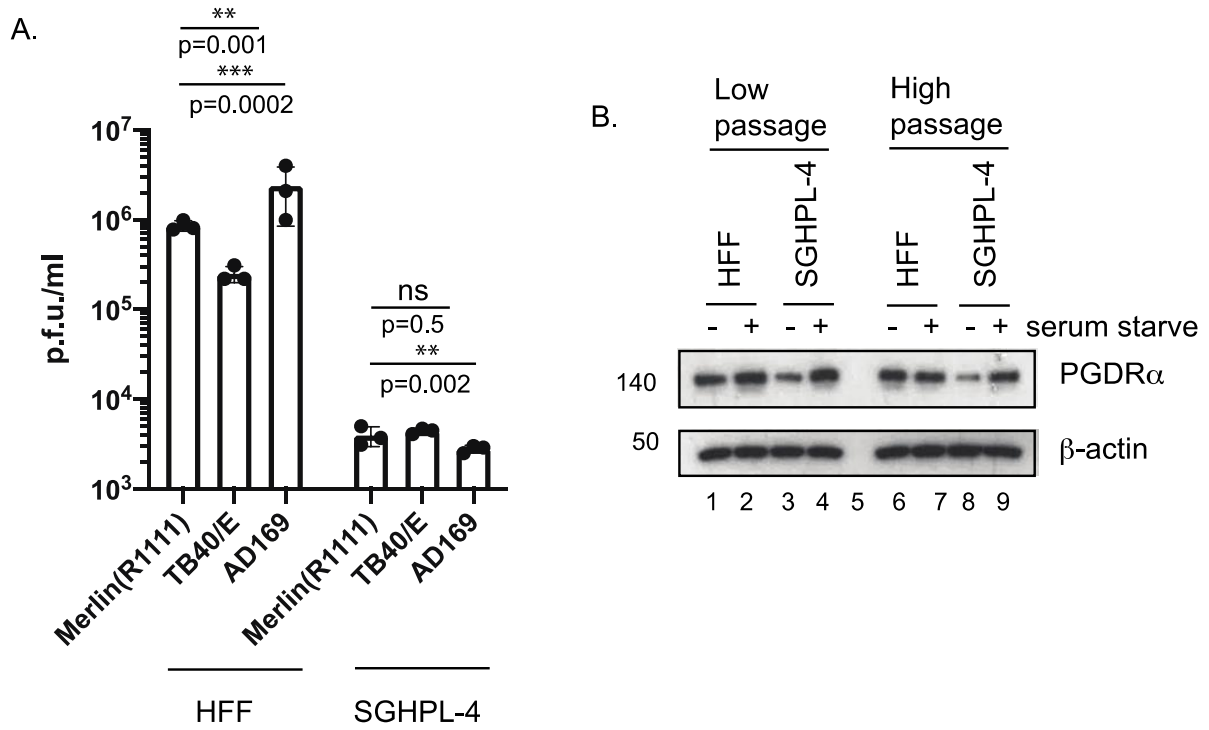
Supplementary Figure S1

52

53

54

55



Supplementary Figure S2

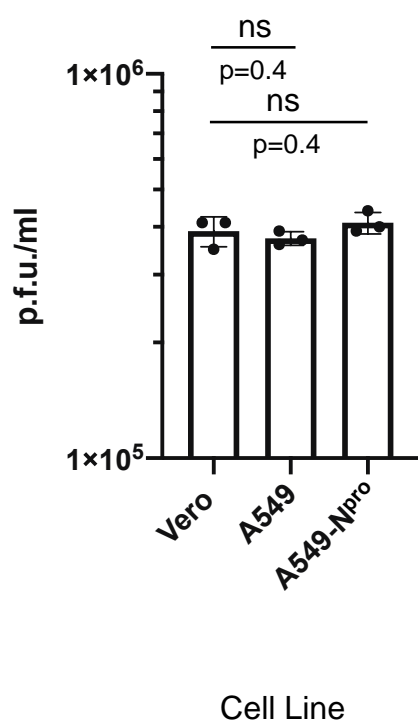
56

57

58

59

60  
61  
62  
63  
64  
65



Supplementary Figure 3

66  
67