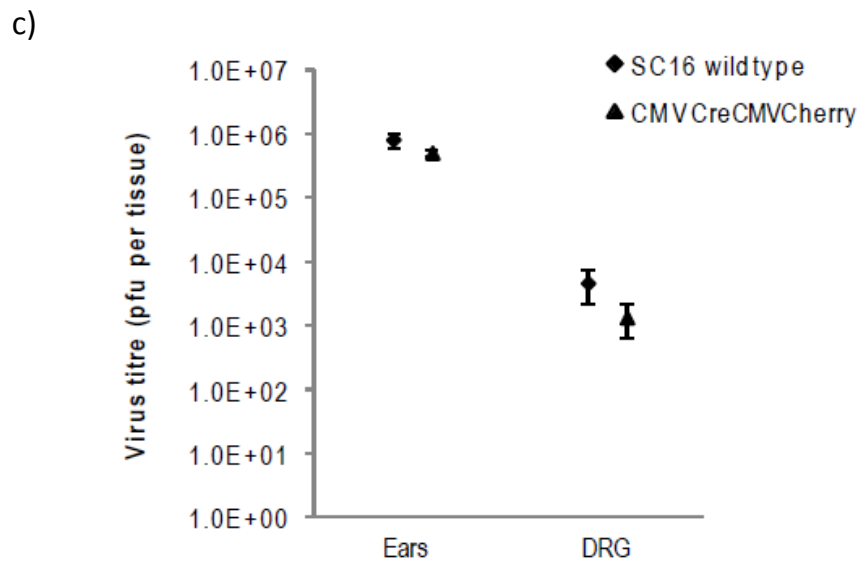
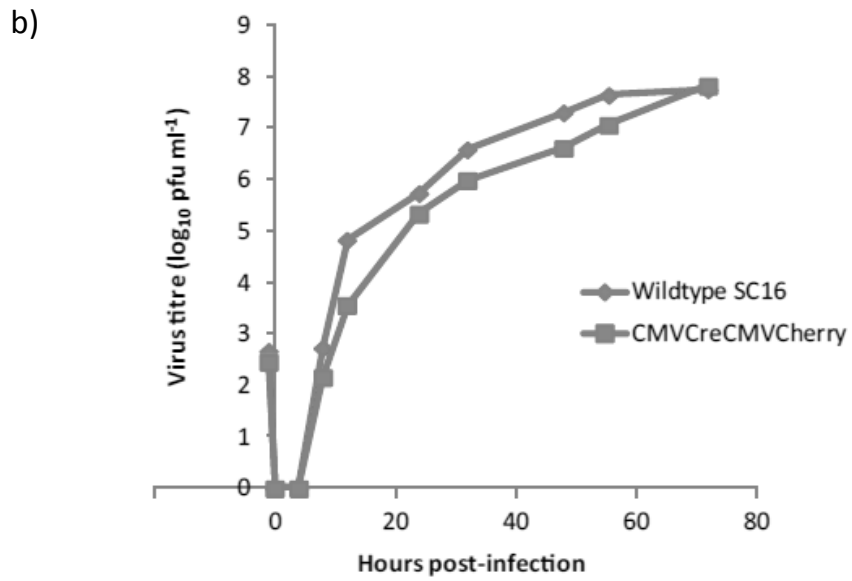
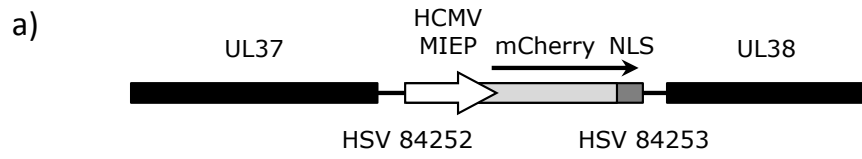


Supplementary Fig.1: 3D projection displaying the spatial organisation of marked neurons within a latently infected DRG.

Supplementary Fig.2: 3D projection displaying the spatial organisation of marked neurons within a latently infected TG.



Supplementary Figure 3

Supplementary Fig.3: Characterisation of recombinant HSV CMVCreCMVCherry. a) An mCherry expression cassette was inserted into the UL37/38 intergenic region of HSV CMVCre. b) Low m.o.i. (0.01 pfu cell⁻¹) *in vitro* growth curve comparing HSV CMVCreCMVCherry and wildtype strain SC16 replication kinetics. c) Comparison of HSV CMVCreCMVCherry and wildtype titres in skin and ganglion tissues 5 days pi (N = 4 C57BL/6 mice per virus).

| | Total # cells | Total # cells reactivated | % reactivation |
|-----------------|----------------------|----------------------------------|-----------------------|
| 37°C Control | 30 | 2 | 6.7 |
| 43°C Heat-shock | 61 | 8 | 13.1 |

| | Total # cells | Total # cells reactivated | % reactivation |
|-----------------|----------------------|----------------------------------|-----------------------|
| 37°C Control | 35 | 2 | 5.7 |
| 43°C Heat-shock | 31 | 9 | 29.0 |

Supplementary Table.1: Analysis of ZsGreen-positive cell reactivation frequency following incubation at 43°C for 2 hours. Marked neurons were plated at an average density of <1 cell and heat-shock was performed one day post-plating. Reactivation was scored following the development of CPE within a well.