

SUPPLEMENTAL TABLES

TABLE S1

Oligonucleotide primers used for generation of PCR products for BACmid recombination and siRNA sequences used for knockdown of pUL50 and pUL97 expression

^aNucleotide specification: additional bases (lower case letters), CODING SEQUENCE (capital letters), RESTRICTION SITE (capital letters, bold), NUCLEOTIDES DIFFERING FROM WILD-TYPE SEQUENCE (capital letters, bold, italic), [*I*-Scel site] (white)

Designation	Size [bp]	Sequence	
Primers^a			
UL50L11Afor	86	tac GGATCC ACGCGCAGCTCGCTGGGACCCAACTTGAGGATACGCCGC GTGGCCTGCAC CGC TAGGGATAACAGGGTAATCGATT	
UL50L11Arev	135	tac GAATTCT CGGCGGTGGCGTCGGTGCAGATGGAGATGAACAAGGTT TCCATCAGGAT CGGT GCAGGCCACGCGCGTATCCTCAAGTTGGGT CCCAGCGAGCTGCGCGTGCCAGTGTACAACCAATTAAACC	
UL50Q13Afor	86	tac GGATCCT CGGTGACGCGCAGCTCGCTGGGACCCAACTTGAGGATA CGCCGCGTGGC CGC TAGGGATAACAGGGTAATCGATT	
UL50Q13Arev	135	tac GAATTCT GTGGCGTCGGTGCAGATGGAGATGAACAAGGTTCTCCATC AGGATCTGGTG CGGCC CACGCGCGTATCCTCAAGTTGGGTCCCAGC GAGCTGCGCGTCACCGAGCCAGTGTACAACCAATTAAACC	
UL50E56Afor	86	tac GGATCC ATAAAACAAGGCACGTGGTCTGTGCGGCTCTCCAGTAG CTGAGTAGATA CGC TAGGGATAACAGGGTAATCGATT	
UL50E56Arev	135	tac GAATTCA TTACTCGGTGTGCGACGCCATGCTCAAGACAGACACGGT CTATTGTGTC CGT TACTCAGCTACTGGGAGAGCCGCACAGACCA CGTCGCTTGTATGCCAGTGTACAACCAATTAAACC	
E56AY57Afor UL50	89	tac GGATCC AAGATAAAAACAAGGCACGTGGTCTGTGCGGCTCTCCAG TAGCTGAGTAG CGCCG TAGGGATAACAGGGTAATCGATT	
E56AY57Arev UL50	138	tac GAATTCA TTACTCGGTGTGCGACGCCATGCTCAAGACAGACACGGT CTATTGTGTC CGCGC GCTACTCAGCTACTGGGAGAGCCGCACAGACCA ACGTGCGCTTGTATGCCAGTGTACAACCAATTAAACC	
UL50L116Afor	86	tac GGATCCC ACTTCGTCAGCACTCCGTAGGCCGAGGGCTTGATCTCC TCGATGTCC CGC TAGGGATAACAGGGTAATCGATT	
UL50L116Arev	135	tac GAATTCA CGTAGGTGAGTTCAATGTGCTTAAGGTGAACGAGTCGCT CATCGTCACG CGA AGGACATCGAGGAGATCAAGCCCTGGCCTACG GAGTGCTGACGAAGTGGCCAGTGTACAACCAATTAAACC	
siRNAs			
UL50a	21	GACAGACACGGUCUAUUGUUU ACAAUAGACCGUGUCUGUCUU	(sense sequence) (antisense sequence)
UL50b	21	UUCGGCGUCGGUGUUCAACUU GUUGAACACCGACGCCGAAUU	(sense sequence) (antisense sequence)
UL50A	21	GACAGACACGGUCUAUUGUUU ACAAUAGACCGUGUCUGUCUU	(sense sequence) (antisense sequence)
UL50B	21	UUCGGCGUCGGUGUUCAACUU GUUGAACACCGACGCCGAAUU	(sense sequence) (antisense sequence)
UL50C	21	UAUCUGCUACGUACUGGGUU CCCAGUAGCUGAGCAGAUUU	(sense sequence) (antisense sequence)
UL50D	21	UGUGCUUAAGGUGAACGAGUU CUCGUUCACCUUAAGCACAUU	(sense sequence) (antisense sequence)
UL97a	21	UUUCUCAAUCACCAAGUGUCUU GACACUGGUGAUUGAGAAUU	(sense sequence) (antisense sequence)
UL97b	21	GAUCUGUUUAUGCCGUGGGACUU GUCCACGGCAUAACAGAUCUU	(sense sequence) (antisense sequence)

Table SII

List of NEC samples and corresponding negative control samples analyzed by MS/MS

No. of Exp.	Sample	Virus	IP antibody	dpi	Specificity/ Negative Control
I. MS/MS	NEC 1	UL53-FLAG	mAb-FLAG	7	pUL53
	NEC 2	UL53-FLAG + UL50-HA	mAb-FLAG + mAb-HA	7	pUL53 + pUL50
	Ctrl 1	UL53-FLAG	mAb-HA	7	Control for NEC 1
	Ctrl 2	UL53-FLAG + UL50-HA	mAb-GFP	7	Control for NEC 2
II. MS/MS	NEC 3	UL53-FLAG	mAb-FLAG	>7	pUL53
	NEC 4	UL50-HA	mAb-FLAG + mAb-HA	>7	pUL50
	Ctrl 3a	HCMV-GFP	mAb-FLAG	>7	Control for NEC 3
	Ctrl 3b	UL53-FLAG	mAb-HA	>7	Control for NEC 3
	Ctrl 4	UL50-HA	mAb-GFP	>7	Control for NEC 4
III. MS/MS	NEC 5	UL53-FLAG	mAb-FLAG	1	pUL53
	NEC 6	UL53-FLAG	mAb-FLAG	2	pUL53
	NEC 7	UL53-FLAG	mAb-FLAG	3	pUL53
	NEC 8	UL53-FLAG	mAb-FLAG	4	pUL53
	Ctrl 5	Mock	mAb-FLAG	1	Control for NEC 5
	Ctrl 6	Mock	mAb-FLAG	2	Control for NEC 6
	Ctrl 7	Mock	mAb-FLAG	3	Control for NEC 7
	Ctrl 8	Mock	mAb-FLAG	4	Control for NEC 8
IV. MS/MS	NEC 9	UL53-FLAG	mAb-FLAG	2	pUL53
	NEC 10	UL53-FLAG	mAb-FLAG	3	pUL53
	NEC 11	UL53-FLAG	mAb-FLAG	4	pUL53
	Ctrl 9a	Mock	mAb-FLAG	2	Control for NEC 9
	Ctrl 9b	UL53-FLAG	Fab fragment	2	Control for NEC 9
	Ctrl 10	UL53-FLAG	Fab fragment	3	Control for NEC 10
	Ctrl 11	UL53-FLAG	Fab fragment	4	Control for NEC 11

SUPPLEMENTAL FIGURES

Figure S1

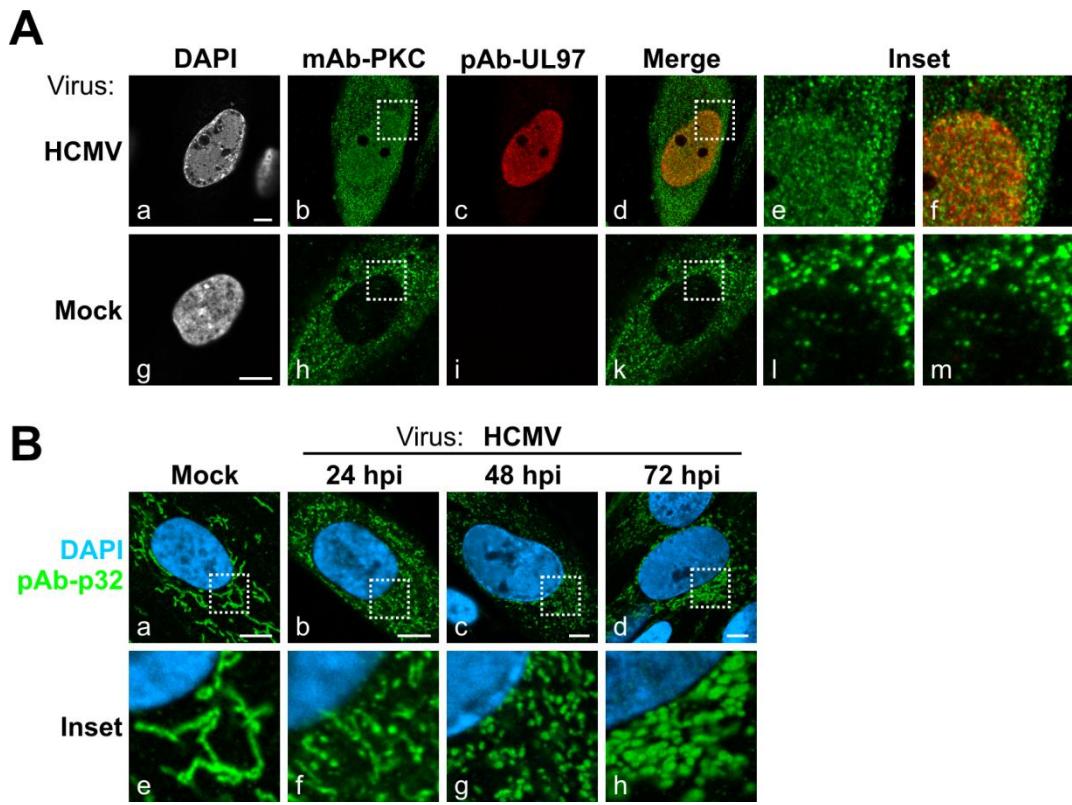


FIG. S1. Intracellular localization of NEC-associated viral protein kinase pUL97, cellular PKC, and cellular protein p32/gC1qR in HCMV-infected primary fibroblasts. HFFs were infected with HCMV strain AD169 (A, panels a-f and B) or remained uninfected (mock) (A, panels g-m). At 3 dpi (A) or at consecutive time-points post-infection (B), cells were fixed and coimmunostained with the indicated antibodies. *B*, Dashed boxes (panels a-d) are depicted in the insets (panels e-h). *DAPI*, 4',6-diamidino-2-phenylindole; scale bars, 7.5 μ m.

Figure SII

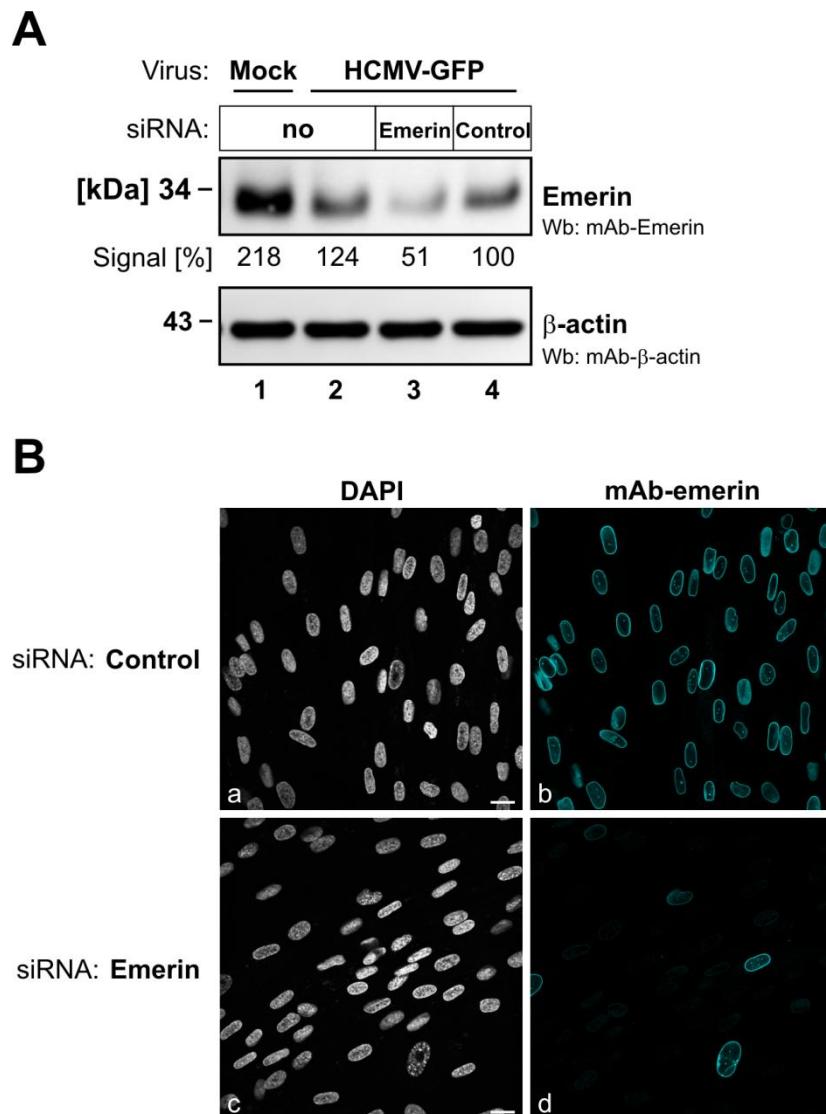


FIG. S2. Knock-down efficiency of emerin-specific siRNAs in primary fibroblasts. HFFs were transiently transfected with emerin-specific siRNAs or with a scrambled siRNA as a control. In addition, transfected cells were infected with the reporter virus HCMV-GFP (A, lanes 2-3) or remained uninfected (mock) (A, lane 1 and B). A, At 7 dpi, cells were harvested and HCMV replication efficiency was determined from total lysates by automated GFP fluorometry (see Fig. 6A). Thereafter, these samples were further subjected to Wb analysis to monitor the knock-down of emerin. Signal intensities of emerin expression were evaluated by densitometry and compared to the corresponding staining of the loading control β -actin. B, At 6 d post-transfection of siRNAs, cells were fixed and immunostained with mAb-emerin. Samples were subsequently analyzed by confocal laser scanning microscopy. Knock-down efficiency of emerin-specific siRNAs was determined by scoring six microscopic fields (415 cells). In ~80% of the scored cells, endogenous emerin levels were markedly reduced. DAPI, 4',6-di-amidino-2-phenylindole; scale bars, 20 μ m.