

**Table S1.** Primers used for generic amplification of CMV UL55 and UL56 sequences.

PCR	Target Gene	Primer Name	PCR Round	Primer sequence 5'-3'	Product Length <sup>c</sup>	Binding Site in AD169 Genome
PCR1	UL55 (gB)	2743-s <sup>a</sup>	1st	CGCAAATCGCAGA(N/I <sup>b</sup> )KC(N/I)TGGTG	320	81997–81976
		2746-as		TGGTTGCCCAACAG(N/I)ATYTCRTT		81679–81701
		2744-s	2nd	TTCAAGGAACTCAGYAARAT(N/I)AAYCC	230	81947–81922
		2745-as		CGTTGTCCTC(N/I)CC(N/I)ARYTG(N/I)CC		81698–81719
PCR 2	UL56	3903-s	1st	CCTGTCGCACAATGTGGACATG	250	84106–84085
		3903-as		CAGCTGTTTTCCGAA(N/I)GTTTCRTTAT		83857–83882
		3904-s	2nd	TGGCCTACGCYTGAYAACG	180	84086–84066
		3904-as		GCGAACGTGC(N/I)TCCACATCTCC		83908–83929

<sup>a</sup> s = sense; as = antisense; <sup>b</sup> I = Inosine; <sup>c</sup> approximate length.

**Table S2.** Primers used for long-distance PCR amplification of CMV UL55/UL56 sequences.

PCR	Primer	PCR Round	Primer Sequence 5'-3'	Target Virus
<b>LD PCR 1</b>	7399s	1st	ACCCTAGCGAGTGGATGGT	CatyCMV1
	7399as		CTCTGATCCACCTCCACRCACT	
	7400s	2nd	CGAGTGGATGGTGGTCAAGT	
	7400as		TGATCCACCTCCACRCACTTAGC	
<b>LD PCR 2</b>	7399s	1st	ACCCTAGCGAGTGGATGGT	CatyCMV2
	7401as		AGAATCTGTACAACACCACAGG	
	7402s	2nd	TGTGTGGATCTCAACATGTTGC	
	7402as		TCCTTCACATGCATGTCACG	
<b>LD PCR 3</b>	7403s	1st	GGTACACCCTAGCGAGTGGGA	CcamCMV1, CcamCMV2, CdiaCMV1
	7403as		CCAGGTTACCCYTTYACAYGCA	
	7404s	2nd	ACTGTATTGATCTSAACATGTTGC	
	7404as		GGTTTGTCGTAGATGGCGGA	
<b>LD PCR 4</b>	7407s	1st	ACGATCTGGTCAAGTGCGC	PtroCMV1
	7407as		AGCACGTCGCCCATGAAG	
	7408s	2nd	CGAGTGGATGGTGGTCAAGT	
	7408as		ATGGGCTTGTCGTAGATGGC	
<b>LD PCR 5</b>	7409s	1st	GGTGTACCCAGCGAGTG	PtroCMV2
	7409as		ACGCTGGTCTGGTTGATGTT	
	7410s	2nd	CGAGTGGATGGTGGTCAAGT	
	7410as		GTTGATGTTGACCCAGCTGG	