



Supplementary Table S1. Donors HLA genotypes.

Donor	A1	A2	B1	B2	C1	C2
HD1	0201	3303	3501	4403	0401	1403
HD2	0201	0206	1501	1511	0303	0702
HD3	0201	1101	1501	4001	0304	0401
HD4	0201	1101	1501		0401	0801
HD5	0201		4801	5401	0304	0801
HD6	3101	0206	1501	4601	0102	0303
HD7	0201	2402	0702	5101	0702	1402
HD8	0201	2402	0702	1501	0102	0702
HD9	2402	3303	0702	3501	0702	0801

\*Allotypes presenting the pp65 antigen are marked in red.

Supplementary Table S2. PCR primer sequence for DNA template TAP.

Primer	Sequence(5' - 3')	Length(bp)
CMVT7_F	GTTGACATTGATTATTGACT	20
CMVT7_R	GAATTCCATGGTGGCAAGCTTGGGTC	26
T2A-TagBFP_F	GAGAATCCCGGCCCTATGTCCGAGCTGATTAAGGA	35
T2A-TagBFP_R	AGTCAGATGCTCAAGTCAATTAAGCTTGTGCCCCA	35
Beta globin pA_R	ACAAAAAATTCCAACACACTATTGCAATGAAAA-TAAATTTCTTTATTAGCCAGAAGTCAGATGCTCAAG	70
pp65 whole_F	GCCACCATGGAATTCATGGAGTCGCGCGGTCGCCG	35
pp65 whole_R	ACTTCCTCTGCCCTCACCTCGGTGCTTTTGGGCG	35
pp65 fragment 1_F	GCCACCATGGAATTCATGGAGTCGCGCGGTCGCCG	35
pp65 fragment 1_R	ACTTCCTCTGCCCTCGCGGTGGCATGGCGTCGAGT	35
pp65 fragment 2_F	GCCACCATGGAATTCATCCTGGTGTGCGCAGTACAC	35
pp65 fragment 2_R	ACTTCCTCTGCCCTCGCTGGGGATGTTTCAGCATCT	35
pp65 fragment 3_F	GCCACCATGGAATTCATCTATGTGTACGCGCTGCC	35
pp65 fragment 3_R	ACTTCCTCTGCCCTCGACGTCGGGCTCTTCCACT	35
pp65 fragment 4_F	GCCACCATGGAATTCCTGGCCTGGACGCGTCAGCA	35
pp65 fragment 4_R	ACTTCCTCTGCCCTCCACGTCCTCGCAGAAGGACT	35
pp65 fragment 5_F	GCCACCATGGAATTCGACCAGTACGTCAAGGTGTA	35
pp65 fragment 5_R	ACTTCCTCTGCCCTCGATGTGCGAGATCTTGCCCCG	35
pp65 fragment 6_F	GCCACCATGGAATTCCTGTCCCAAAAATATGATAAT	35
pp65 fragment 6_R	ACTTCCTCTGCCCTCCACGGGATCGTACTGACGCA	35
pp65 fragment 7_F	GCCACCATGGAATTCGAAGCGATACGCGAGACCGT	35
pp65 fragment 7_R	ACTTCCTCTGCCCTCCCAGACGTCGTCGTCGCCCT	35
pp65 fragment 8_F	GCCACCATGGAATTCGACCGGCACGACGAGGGTGC	35
pp65 fragment 8_R	ACTTCCTCTGCCCTCGCGGCCGCGTGTGATAACGC	35
pp65 fragment 9_F	GCCACCATGGAATTCCTCGGCGACGGCGTGCAC	35
pp65 fragment 9_R	ACTTCCTCTGCCCTCGTACTTCAGATTCTGACCCT	35
pp65 fragment 10_F	GCCACCATGGAATTCCTGGCCCGCAACCTGGTGCC	35
pp65 fragment 10_R	ACTTCCTCTGCCCTCACCTCGGTGCTTTTGGGCG	35
T7-Kozak-F	TAATACGACTCACTATAGGGAGACCCAAGCTTGCCACCATGGAATTC	47

Frag5-RPH mini-gene_F	GCCACCATGGAATTCCTTCATGCGCCCCACGAGCGCAACGGCTTTAC- GGTGTGTGTCTCCGAGGGCAGAGGAAGT	75
Frag5-VPS mini-gene_F	GCCACCATGGAATTCGAGGACGTGCCCTCCGGCAAGCTCTTTATGCAC- GTCACGCTGGGCGAGGGCAGAGGAAGT	75
Frag6-LMN mini-gene_F	GCCACCATGGAATTCGGTAACCTGTTGATGAACGGGCAG- CAAATCTTCCTGGAGGTACAAGAGGGCAGAGGAAGT	75
Frag8-TPR mini-gene_F	GCCACCATGGAATTCGAGCGTAAGACGCCCCGCGTCAC- CGGCGGCGGCGCCATGGCGAGCGAGGGCAGAGGAAGT	75
Frag9-NLV mini-gene_F	GCCACCATGGAATTCCTGGCCCGCAACCTGGTGCCCATGGTGGCTAC- GGTTCAGGGTCAGGAGGGCAGAGGAAGT	75
Frag10-RIF mini-gene_F	GCCACCATGGAATTCGACATCTACCGCATCTTCGCCGAATT- GGAAGGCGTATGGCAGCCCGAGGGCAGAGGAAGT	75
HIV-GPG mini-gene_F	GCCACCATGGAATTCGGAGTAGGAGGACCCGGCCATAAGGCAAGAG- TTTTGGCTGAAGCAGAGGGCAGAGGAAGT	75
HIV-FLG mini-gene_F	GCCACCATGGAATTCCAGGCTAATTTTTAGGGAAGATCTGGCCTTCC- TACAAGGGAAGGGAGGGCAGAGGAAGT	75