

PEPperCHIP® HCMV Antigen Microarray

Product: PEPperCHIP® Peptide Microarray

Organism: Human cytomegalovirus (HCMV)

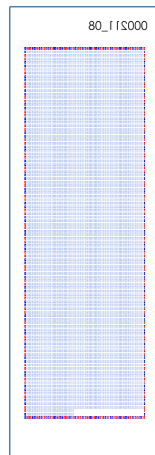
Microarray Content:	Protein	UniProt Entry	Length
	Tegument protein UL99	P13200	190 aa
	Major capsid protein UL86	P16729	1,370 aa
	Uncharacterized protein UL40	P16780	221 aa
	Large structural phosphoprotein UL32	P08318	1,048 aa
	Orf UL153	Q68408	278 aa
	65 kDa matrix phosphoprotein UL83	P06725	561 aa
	Viral transcription factor IE2 UL122	P19893	580 aa
	55 kDa immediate-early protein 1 UL123	P13202	491 aa
	Uncharacterized protein UL128	P16837	171 aa
	Uncharacterized protein UL130	P16772	214 aa
	Envelope protein UL131A	Q8AZ45	129 aa
	Envelope glycoprotein B UL55	P06473	906 aa
	Uncharacterized protein UL36	P16767	476 aa
	Uncharacterized protein UL28	P16847	379 aa
	Deneddylase UL48	P16785	2,241 aa
	71 kDa phosphoprotein UL82	P06726	559 aa
	Capsid-binding protein UL94	P16800	345 aa
	Protein UL103	P16734	249 aa
	Membrane glycoprotein US3	P09712	186 aa
	Tegument protein US24	P09700	501 aa
	Uncharacterized protein HHRF4 US29	P09705	462 aa
	Uncharacterized protein HHRF7 US32	P09708	183 aa
	Orf UL151	Q68405	336 aa
	GH_HCMVA Envelope glycoprotein H	P12824	743 aa

Sequence Compilation:

The protein sequences were elongated by neutral GSGSGSG linkers to avoid truncated peptides. The elongated protein sequences were translated into 15 aa peptides printed in duplicate with a peptide-peptide overlap of 12 aa.

- peptide length/overlap: 15 aa / 12 aa
- number of peptides/spots: 4,327 / 8,654

Microarray Layout:



Each PEPperCHIP® Peptide Microarray is marked with microarray ID on the backside of the glass slide. The glass slide is accurately placed in an incubation tray with the microarray surface up if the microarray ID appears in the **top right corner** in a **mirror view** manner.

PEPperCHIP® HCMV Antigen Microarray contains a single peptide array each chip and is compatible with a 3/1-well PEPperCHIP® Incubation Tray.

Each PEPperCHIP® HCMV Antigen Microarray further contains HA, Polio and c-Myc control peptides (25, 28 and 18 spots each control).

Microarray Layout Files:

Excel: Peptide_Map_HCMV_Antigen_Microarray.xlsx

GenePix® Pro: HCMV_Antigen_Microarray.gal

PepSlide® Analyzer: HCMV_Antigen_Microarray.psf