

## PEPperCHIP® HCMV Antigen Microarray

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**Product:** PEPperCHIP® Peptide Microarray

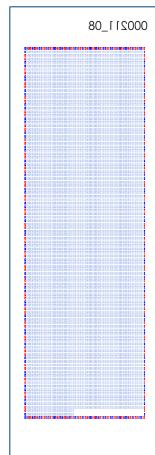
**Organism:** Human cytomegalovirus (HCMV)

| <b>Microarray Content:</b> | <b>Protein</b>                         | <b>UniProt Entry</b> | <b>Length</b> |
|----------------------------|--|----------------------|---------------|
|                            | 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

MAPIX / GenePix® Pro: HCMV\_Antigen\_Microarray.gal