

PEPperCHIP® Monkeypox Virus Peptide Microarray

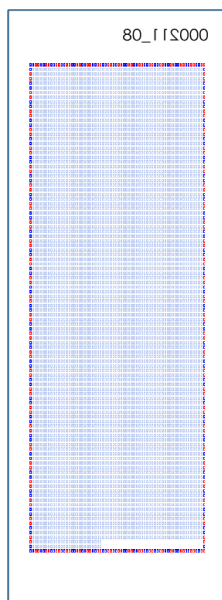
Product: PEPperCHIP® Peptide Microarray

Organism: Monkeypox virus (strain Zaire-96-I-16) (MPX)

Microarray Content: Monkeypox virus proteins (UniProt ID Q8V4Y0), A15L (Q77HM7), B6R (Q8V4S2), envelope protein A28 homolog (Q8V4U9), A10L (Q8V4W6), G10R (Q8V503), A29L (Q77HM6), A14L (Q77HM8), L5L (Q77HN1), B2R (Q8V4S6), A38R (Q8V4U1), A36R (Q8V4U3), A35R (Q8V4U4), A28L (Q8V4V0), A18L (Q8V4W0), H3L (Q8V4Z2), M1R (Q8V502), C19L (Q8V535), C15L (Q8V539), I5L (Q8V514), scaffold protein D13 (Q8V4X5), A40L (Q8V4T9), A43R (Q8V4T6), Protein L5 (Q8V4Z8), A5L (Q8V4X1), F10L (Q8V521), assembly protein G7 (Q8V504), E2L (Q8V4Y6), E3R (Q8V4Y5), major core protein 4b (Q8V4X2), major core protein 4a precursor (Q8V4W5), 25 kDa core protein A12L (Q8V4W3) and B21R (Q8V4Q7)

Sequence Compilation: The sequences of the monkeypox virus proteins were elongated with neutral GSGSGSG linkers at the N- and C-terminus to avoid truncated peptides. The elongated protein sequences were converted into 5,207 different 15 amino acid peptides with a peptide-peptide overlap of 13 amino acids printed in duplicate (10,414 peptide spots).

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.

The PEPperCHIP® Monkeypox Virus Peptide Microarray contains a single peptide array and is compatible with a 3/1-well PEPperCHIP® Incubation Tray. Each PEPperCHIP® Monkeypox Virus Peptide Microarray further contains additional HA (YPYDVPDYAG, 114 spots) and polio (KEVPALTAVETGAT, 112 spots) control peptides.

Microarray Layout Files: Excel: Peptide Map Monkeypox Virus Peptide Microarray.xlsx
GenePix or Mapix: Monkeypox Virus Peptide Microarray.gal