PEPperPRINT
A NEW DIVERSITY

PEPperCHIP® MERS-CoV Proteome Microarray

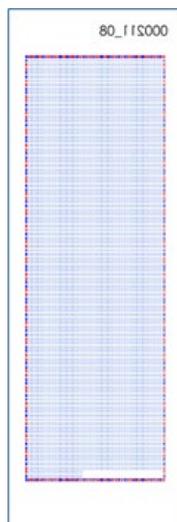**Product:** PEPperCHIP® Peptide Microarray

Organism: Middle East respiratory syndrome-related coronavirus

Microarray Content:

Protein	Database Entry	Protein Length
Replicase polyprotein 1ab	K9N7C7	7,078 aa
S protein	K0BRG7	1,353 aa
ORF3 protein	K9N796	103 aa
ORF4a protein	K9N4V0	109 aa
ORF4b protein	K9N643	246 aa
ORF5 protein	K9N7D2	224 aa
E protein	K9N5R3	82 aa
M protein	K9N7A1	219 aa
N protein	K9N4V7	411 aa
ORF8b protein	M4T791	112 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 13 or 12 aa.

- peptide length/overlap: 15 aa / 12 aa (replicase polyprotein 1ab) and 15aa / 13aa (S, E, M, N proteins, ORF proteins 3, 4a, 4b, 5, 8b)

- number of peptides/spots: 3,818 / 7,636

Microarray Layout:

80_11S000

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® MERS-CoV Proteome Microarray contains a single peptide array and is compatible with a 3/1-well PEPperCHIP® Incubation Tray.

Each PEPperCHIP® C MERS-CoV Proteome Microarray further contains HA, Polio and c-Myc control peptides (38, 34 and 24 spots each control).

Microarray Layout Files: Excel: Peptide_Map_MERS-CoV_Proteome_Microarray.xlsx

MAPIX / GenePix® Pro: MERS-CoV_Proteome_Microarray.gal