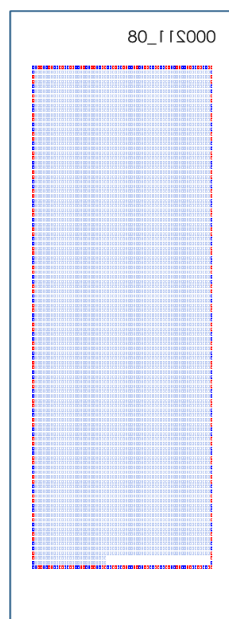


PEPperCHIP® SARS-CoV-2 Proteome Microarray

- Product:** PEPperCHIP® Peptide Microarray
- Organism:** SARS-CoV-2
- Microarray Content:** Whole proteome of SARS-CoV-2 (GenBank ID: MN908947.3) as overlapping peptides incl. 49 mutations of the B.1.1.7, 501.V2, B.1.1.28 and P.1 Manaus variants
- Sequence Compilation:** The sequences of Orf1ab polyprotein, spike protein, Orf3a protein, envelope protein, membrane glycoprotein, Orf6 protein, Orf7a protein, Orf8 protein, nucleocapsid phosphoprotein and Orf10 protein were elongated and linked by neutral GSGSGSG linkers to avoid truncated peptides. The elongated protein sequences were translated into 4,883 different 15 amino acid peptides with a peptide-peptide overlap of 13 amino acids for high resolution epitope data. The microarray was further complemented with 49 peptides covering the most frequent virus mutations and all peptides printed in duplicate (9,864 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® SARS-CoV-2 Proteome Microarray contains a single peptide array and is compatible with a 3/1-well PEPperCHIP® Incubation Tray.

Each PEPperCHIP® SARS-CoV-2 Microarray contains additional HA (110 spots) and polio (108 spots) control peptides.

Microarray Layout Files:

Excel: Peptide_Map_SARS-CoV-2_Proteome_Microarray.xlsx

GenePix® Pro: SARS-CoV-2_Proteome_Microarray.gal

PepSlide® Analyzer: SARS-CoV-2_Proteome_Microarray.psf