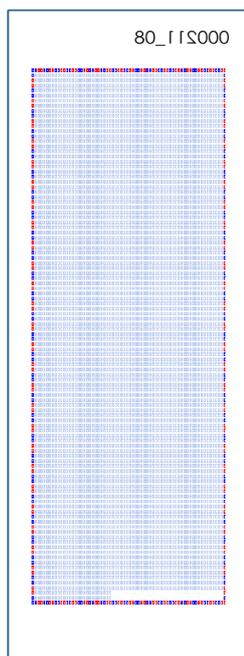


PEPperCHIP® SARS-CoV-2 Proteome Microarray

- Product:** PEPperCHIP® Peptide Microarray
- Organism:** SARS-CoV-2
- Microarray Content:** Whole proteome of SARS-CoV-2 (GenBank ID: MN908947.3) converted into overlapping peptides, 49 mutations of the B1.1.7, 501.V2, B1.1.28 and P.1 Manaus variants and all spike protein mutations of the Alpha, Beta, Gamma, Delta, Delta Plus and Omicron variants of concern.
- Sequence Compilation:** The sequences of ORF1ab polyprotein, surface glycoprotein, 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 and the mutations were translated into 5,347 different 15 amino acid peptides printed in duplicate (10,694 peptide spots) with a peptide-peptide overlap of 13 amino acids for high resolution epitope data.

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 (116 spots) and polio (116 spots) control peptides.

- Microarray Layout Files:** Excel: Peptide_Map_SARS-CoV-2_Proteome_Microarray.xlsx
GenePix® Pro: SARS-CoV-2_Proteome_Microarray.gal