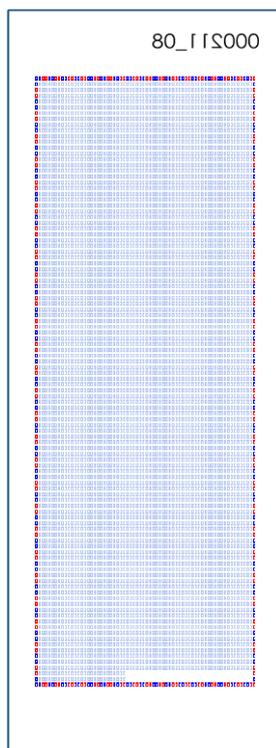


PEPperCHIP® Pan-Corona Spike Protein Microarray

Product:	PEPperCHIP® Peptide Microarray
Organism:	SARS-CoV-2, SARS-CoV, MERS-CoV, HCoV-OC43, HCoV-HKU1, HCoV-NL63 and HCoV-229E
Microarray Content:	Spike proteins from SARS-CoV-2 (UniProt ID: P0DTC2), SARS-CoV (UniProt ID: P59594), MERS-CoV (UniProt ID: A0A140AYZ5), HCoV-OC43 (UniProt ID: P36334), HCoV-HKU1 (UniProt ID: U3NAI2), HCoV-NL63 (UniProt ID: Q6Q1S2) and HCoV-229E (UniProt ID: P15423) as well as all spike protein mutations of the SARS-CoV-2 Alpha, Beta, Gamma, Delta, Delta Plus and Omicron variants of concern.
Sequence Compilation:	The sequences of the spike proteins of SARS-CoV-2, SARS-CoV, MERS-CoV, HCoV-OC43, HCoV-HKU1, HCoV-NL63 and HCoV-229E were elongated with neutral GSGSGSG linkers at the N- and C-terminus to avoid truncated peptides. The elongated spike protein sequences were translated into 4,979 different 15 amino acid peptides printed in duplicate (9,958 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® Pan-Corona Spike Protein Microarray contains a single peptide array and is compatible with a 3/1-well PEPperCHIP® Incubation Tray.

Each PEPperCHIP® Pan-Corona Spike Protein Microarray contains additional HA (YPYDVPDYAG, 114 spots) and polio (KEVPALTAVETGAT, 114 spots) control peptides.

Microarray Layout Files:	Excel: Peptide Map Pan-Corona Spike Protein Microarray.xlsx MAPIX / GenePix® Pro: Pan-Corona Spike Protein Microarray.gal
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