

PEPperCHIP® CRISPR/Cas Immunogenicity Microarray

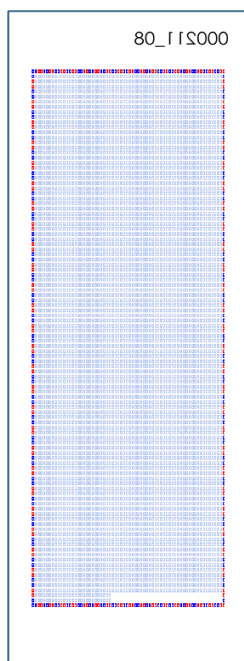
Product: PEPperCHIP® Peptide Microarray

Microarray Content: CRISPR effector proteins associated with immunogenicity converted into overlapping peptides

No.	Protein	Gene	Database ID	Length (AA)
1	CRISPR-associated endonuclease Cas9/Csn1	cas9	Q99ZW2	1.368
2	CRISPR-associated endonuclease Cas9	cas9	J7RUA5	1.053
3	Cas13 of Ruminococcus flavefaciens	cas13d	WP_075424065.1	967
4	CRISPR-associated endonuclease Cas12a	cas12a	U2UMQ6	1.307
5	CRISPR-associated endonuclease/helicase Cas3	ygcB	P38036	888

Sequence Compilation: The sequences of all CRISPR effector proteins were elongated and linked with neutral GSGSGSG linkers to avoid truncated peptides. The linked and elongated protein sequences were converted into 5,583 different 15 amino acid peptides printed in duplicate (11,166 peptide spots) with a peptide-peptide overlap of 14 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® CRISPR/Cas Immunogenicity Microarray contains a single peptide array and is compatible with a 3/1-well PEPperCHIP® Incubation Tray.

Each PEPperCHIP® CRISPR/Cas Immunogenicity Microarray contains additional HA (32 spots) and polio (28 spots) control peptides.

Microarray Layout Files: Excel: Peptide Map CRISPR/Cas Immunogenicity Microarray.xlsx

MAPIX / GenePix® Pro: CRISPR/Cas Immunogenicity Microarray.gal