

PEPperCHIP® HCV Proteome Microarray

Product: PEPperCHIP® Peptide Microarray

Organism: Hepatitis C virus genotypes 1a, 2a, 3a

Microarray Content: Genome polyprotein cleaved into the following 11 chains:

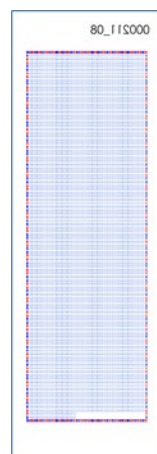
1. Core protein p21 (Capsid protein C, p21)
2. Core protein p19
3. Envelope glycoprotein E1 (gp32, gp35)
4. Envelope glycoprotein E2 (NS1, gp68 ,gp70)
5. p7
6. Protease NS2-3 (p23)
7. Serine protease NS3 (Hepacivirin, NS3P, p70)
8. Non-structural protein 4A (NS4A, p8)
9. Non-structural protein 4B (NS4B, p27)
10. Non-structural protein 5A (NS5A, p56)
11. RNA-directed RNA polymerase (NS5B, p68)

Protein	Uniprot Entry	Protein Length
Genome polyprotein genotype 1a	P26664	3,011 aa
Genome polyprotein genotype 2a	P26660	3,033 aa
Genome polyprotein genotype 3a	Q81495	3,021 aa
F protein genotype 1a	P0C045	162 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 12 aa.

- peptide length/overlap: 15 aa / 12 aa
- number of peptides/spots: 3,084 / 6,168

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.

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

Each PEPperCHIP® HCV Proteome Microarray further contains HA, Polio and c-Myc control peptides (31, 32 and 22 spots each control).

Microarray Layout Files: Excel: Peptide_Map_HCV_Proteome_Microarray.xlsx
 MAPIX / GenePix® Pro: HCV_Proteome_Microarray.gal