

PEPperCHIP® Yellow Fever Virus Proteome Microarray

Product: PEPperCHIP® Peptide Microarray

Organism: Yellow fever virus (YFV)

Strains: 17D vaccine
Ghana/Asibi/1927

Microarray Content: Genome polyproteins are cleaved into the following 14 chains:

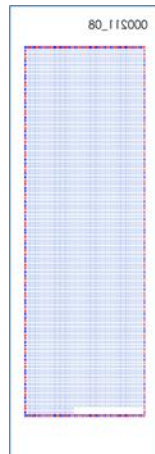
1. Capsid protein C (Core protein)
2. prM
3. Peptide pr
4. Small envelope protein M (Matrix protein)
5. Envelope protein E
6. Non-structural protein 1
7. Non-structural protein 2A
8. Non-structural protein 2A-alpha
9. Serine protease subunit NS2B (Flavivirin protease NS2B regulatory subunit, Non-structural protein 2B)
10. Serine protease NS3 (Flavivirin protease NS3 catalytic subunit, Non-structural protein 3)
11. Non-structural protein 4A
12. Peptide 2k
13. Non-structural protein 4B
14. RNA-directed RNA polymerase NS5 (Non-structural protein 5)

Protein	Uniprot Entry	Protein Length
Allophycocyanin alpha chain	P00314	161 aa
Genome polyprotein	Q6DV88	3,411 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 maximum peptide-peptide overlap of 14 aa for full epitope coverage.

- peptide length/overlap: 15 aa / 14 aa
- number of peptides/spots: 3,834 / 7,668

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® Yellow Fever Virus Proteome Microarray contains a single peptide array each chip and is compatible with a 3/1-well PEPperCHIP® Incubation Tray.

Each PEPperCHIP® Yellow Fever Virus Proteome Microarray further contains HA, Polio and c-Myc control peptides (28, 32, 24 spots each control).

Microarray Layout Files:

Excel: Peptide_Map_Yellow_Fever_Virus_Proteome_Microarray.xlsx

GenePix® Pro: Yellow_Fever_Virus_Proteome_Microarray.gal

PepSlide® Analyzer: Yellow_Fever_Virus_Proteome_Microarray.psf