

## PEPperCHIP® West Nile Virus Proteome Microarray

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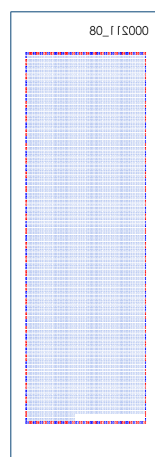
- Product:** PEPperCHIP® Peptide Microarray
- Organism:** West Nile Virus (WNV)
- Microarray Content:** Genome polyprotein cleaved into the following 13 chains:
1. Peptide 2k
  2. Capsid protein C
  3. prM
  4. Peptide pr
  5. Small envelope protein M
  6. Envelope protein E
  7. Non-structural protein 1
  8. Non-structural protein 2A
  9. Serine protease subunit NS2B
  10. Serine protease NS3
  11. Non-structural protein 4A
  12. Non-structural protein 4B
  13. RNA-directed RNA polymerase NS5

**UniProt Entry:** P06935 (<http://www.uniprot.org/uniprot/P06935>)

**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: 3,430 / 6,860

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

Each PEPperCHIP® West Nile Virus Proteome Microarray further contains HA, Polio and c-Myc control peptides (28, 32 and 22 spots each control).

**Microarray Layout Files:** Excel: Peptide\_Map\_West\_Nile\_Virus\_Proteome\_Microarray.xlsx  
GenePix® Pro: West\_Nile\_Virus\_Proteome.gal  
PepSlide® Analyzer: West\_Nile\_Virus\_Proteome.psf