

PEPperCHIP® Tick-borne Encephalitis Virus Proteome Microarray

- Product:** PEPperCHIP® Peptide Microarray
- Organism:** Tick-borne encephalitis virus European subtype (strain Neudoerfl) (NEUV)
(Neudoerfl virus)
- Microarray Content:** Genome polyprotein cleaved into the following 13 chains:
1. Peptide 2k
 2. Capsid protein C (Core protein)
 3. prM
 4. Peptide pr
 5. Small envelope protein M (Matrix protein)
 6. Envelope protein E
 7. Non-structural protein 1
 8. Non-structural protein 2A
 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. Non-structural protein 4B
 13. RNA-directed RNA polymerase NS5 (Non-structural protein 5)
- UniProt Entry:** P14336 (<http://www.uniprot.org/uniprot/P14336>)
- 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: 3,414 / 6,828

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

Each PEPperCHIP® Tick-borne Encephalitis Virus Proteome Microarray further contains HA, Polio and c-Myc control peptides (37, 32 and 24 spots each control).

Microarray Layout Files: Excel: Peptide_Map_Tick-borne_Encephalitis_Virus_Proteome_Microarray.xlsx
GenePix® Pro: Tick-borne_Encephalitis_Virus_Proteome_Microarray.gal
PepSlide® Analyzer: Tick-borne_Encephalitis_Virus_Proteome_Microarray.psf