## PEPperCHIP® Dengue Virus Type 1 Proteome Microarray

Product: PEPperCHIP® Peptide Microarray

Organism: Dengue virus type 1 (strain Singapore/S275/1990) (DENV-1)

Microarray Content: Genome polyprotein 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 (NS1)
7. Non-structural protein 2A (NS2A)
8. Non-structural protein 2A-alpha (NS2A-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 (NS4A)
12. Peptide 2k
13. Non-structural protein 4B (NS4B)
14. RNA-directed RNA polymerase NS5 (Non-structural protein 5)

UniProt Entry: P33478 (http://www.uniprot.org/uniprot/P33478)

Sequence Compilation: The protein sequence was elongated by neutral GSGSGSG linkers to avoid truncated peptides. The elongated protein sequence was 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: 3,396 / 6,792

Microarray Layout:
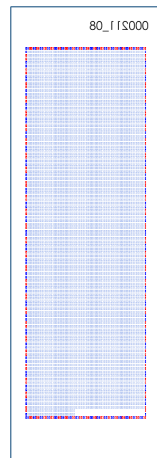
Each PEPperCHIP® Peptide Microarray is marked with microarray ID on the backside of the glass slide. The glass slide is accurately placed in an incubation tray with the microarray surface up if the microarray ID appears in the top right corner in a mirror view manner.

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

Each PEPperCHIP® Dengue Virus Type 1 Proteome Microarray further contains HA, Polio and c-Myc control peptides (44, 36 and 26 spots each control).

Microarray Layout Files: Excel: Peptide_Map_Dengue_Virus_Type_1_Proteome_Microarray.xlsx

MAPIX / GenePix® Pro: Dengue_Virus_Type_1_Proteome_Microarray.gal