

## PEPperCHIP® Foot-and-mouth Disease Virus Proteome Microarray

**Product:** PEPperCHIP® Peptide Microarray  
**Organism:** Foot-and-mouth disease virus (strain O1) (Aphthovirus O)  
**Microarray Content:** Genome polyprotein including:

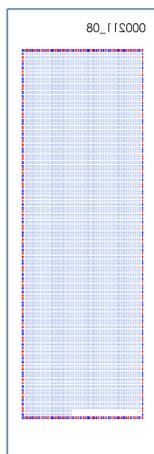
1. Leader protease (Lpro)
2. Protein VP0 (VP4-VP2)
3. Protein VP4 (P1A, Virion protein 4)
4. Protein VP2 (P1B, Virion protein 2)
5. Protein VP3 (P1C, Virion protein 3)
6. Protein VP1 (P1D, Virion protein 1)
7. Protein 2A (P52)
8. Protein 2B
9. Protein 2C
10. Protein 3A
11. Protein 3B-1 (Genome-linked protein VPg1)
12. Protein 3B-2 (Genome-linked protein VPg2)
13. Protein 3B-3 (Genome-linked protein VPg3)
14. Picornain 3C (Protease 3C, Protease P20B)
15. RNA-directed RNA polymerase 3D-POL (P56A)

**UniProt Entry:** P03305 (<http://www.uniprot.org/uniprot/P03305>)

**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: 2,332 / 4,664

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

Each PEPperCHIP® Foot-and-mouth Disease Virus Proteome Microarray further contains additional HA, Polio and c-Myc control peptides (28, 36 and 26 spots each control).

**Microarray Layout Files:** Excel: Peptide\_Map\_Foot-and-Mouth\_Disease\_Virus\_Proteome\_Microarray.xlsx  
 MAPIX / GenePix® Pro: Foot-and-Mouth\_Disease\_Virus\_Proteome\_Microarray.gal