

## PEPperCHIP® Cyclic Citrullinated Peptide Microarray

**Product:** PEPperCHIP® Peptide Microarray

**Organisms:**

|                                      |                                   |
|--------------------------------------|-----------------------------------|
| Homo sapiens                         | Human poliovirus 3                |
| Burkholderia fungorum                | Human rotavirus MP409             |
| Caprine arthritis encephalitis virus | Human T-cell lymphotropic virus 1 |
| Chlamydia pneumoniae                 | Influenza A virus (H3N2)          |
| Chlamydia trachomatis                | Klebsiella pneumonia              |
| Coxsackievirus B4                    | Mus musculus                      |
| Escherichia coli                     | Mycobacterium avium               |
| Haemophilus influenzae               | Mycobacterium bovis               |
| Helicobacter pylori                  | Mycobacterium gordonae            |
| Hepatitis C virus                    | Mycobacterium leprae              |
| Homo sapiens (Human)                 | Mycobacterium tuberculosis        |
| Human adenovirus 12                  | Paenibacillus mucilaginosus       |
| Human adenovirus 5                   | Phaseolus vulgaris                |
| Human coxsackievirus A9              | Porphyromonas gingivalis          |
| Human coxsackievirus A20             | Prochlorococcus marinus           |
| Human coxsackievirus B4              | Proteus mirabilis                 |
| Human Endogenous Retrovirus          | Salmonella enterica               |
| Human enterovirus A                  | Shigella flexneri                 |
| Human herpesvirus 1                  | Simian virus 40                   |
| Human herpesvirus 2                  | Staphylococcus aureus             |
| Human herpesvirus 4                  | Streptococcus pyogenes            |
| Human herpesvirus 5                  | Torque teno virus                 |
| Human herpesvirus 6                  | Trypanosoma cruzi                 |
| Human immunodeficiency virus 1       | Yersinia enterocolitica           |

**Epitope related diseases:** Autoimmune diseases of the:

- urogenital tract
- blood (e.g. antiphospholipid syndrome)
- cardiovascular system
- central nervous system (e.g. multiple sclerosis)
- endocrine system (e.g. diabetes mellitus)
- exocrine system (e.g. Sjögren's syndrome)
- eyes, nose and throat
- gastrointestinal tract (e.g. Crohn's disease)
- musculoskeletal system (e.g. rheumatoid arthritis)
- peripheral nervous system
- skin and connective tissue (e.g. vitiligo)

- systemic autoimmune disease (e.g. systemic lupus erythematosus)

For more information please have a look at the Immune Epitope Database (<http://www.iedb.org/>).

**Microarray Content:** 337 cyclic citrullinated peptides of the Immune Epitope Database (<http://www.iedb.org/>) including the corresponding arginine variants.

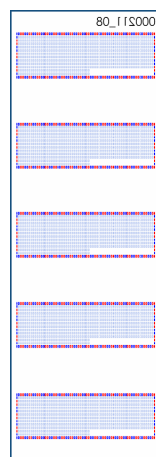
More information on the epitope content is available in the Excel file "Peptide\_Map\_Cyclic\_Citrullinated\_Peptide\_Microarray.xlsx".

**Cyclization Method:** N- to C-terminal via thioether formation

**Peptide Lengths:** 10 aa - 17 aa

**Number of Peptides/Spots:** 577 / 1,154 (peptides in duplicate)

**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® Cyclic Citrullinated Peptide Microarray contains five peptide array copies each chip and is compatible with a 3/5-well PEPperCHIP® Incubation Tray.

PEPperCHIP® Cyclic Citrullinated Peptide Microarray further contains HA, Polio and c-Myc control peptides (26, 22 and 22 spots each control).

**Microarray Layout Files:** Excel: Peptide\_Map\_Cyclic\_Citrullinated\_Peptide\_Microarray.xlsx

GenePix® Pro: Cyclic\_Citrullinated\_Peptide\_Microarray.gal

PepSlide® Analyzer: Cyclic\_Citrullinated\_Peptide\_Microarray.psf