

## PEPperCHIP® Cyclic Citrullinated Peptide Microarray

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<b>Product:</b>	PEPperCHIP® Peptide Microarray	
<b>Organisms:</b>	<p>Homo sapiens</p> <p>Burkholderia fungorum</p> <p>Caprine arthritis encephalitis virus</p> <p>Chlamydia pneumoniae</p> <p>Chlamydia trachomatis</p> <p>Coxsackievirus B4</p> <p>Escherichia coli</p> <p>Haemophilus influenzae</p> <p>Helicobacter pylori</p> <p>Hepatitis C virus</p> <p>Homo sapiens (Human)</p> <p>Human adenovirus 12</p> <p>Human adenovirus 5</p> <p>Human coxsackievirus A9</p> <p>Human coxsackievirus A20</p> <p>Human coxsackievirus B4</p> <p>Human Endogenous Retrovirus</p> <p>Human enterovirus A</p> <p>Human herpesvirus 1</p> <p>Human herpesvirus 2</p> <p>Human herpesvirus 4</p> <p>Human herpesvirus 5</p> <p>Human herpesvirus 6</p> <p>Human immunodeficiency virus 1</p>	<p>Human poliovirus 3</p> <p>Human rotavirus MP409</p> <p>Human T-cell lymphotropic virus 1</p> <p>Influenza A virus (H3N2)</p> <p>Klebsiella pneumonia</p> <p>Mus musculus</p> <p>Mycobacterium avium</p> <p>Mycobacterium bovis</p> <p>Mycobacterium goodnae</p> <p>Mycobacterium leprae</p> <p>Mycobacterium tuberculosis</p> <p>Paenibacillus mucilaginosus</p> <p>Phaseolus vulgaris</p> <p>Porphyromonas gingivalis</p> <p>Prochlorococcus marinus</p> <p>Proteus mirabilis</p> <p>Salmonella enterica</p> <p>Shigella flexneri</p> <p>Simian virus 40</p> <p>Staphylococcus aureus</p> <p>Streptococcus pyogenes</p> <p>Torque teno virus</p> <p>Trypanosoma cruzi</p> <p>Yersinia enterocolitica</p>
<b>Epitope related diseases:</b>	<p>Autoimmune diseases of the:</p> <ul style="list-style-type: none"> <li>• urogenital tract</li> <li>• blood (e.g. antiphospholipid syndrome)</li> <li>• cardiovascular system</li> <li>• central nervous system (e.g. multiple sclerosis)</li> <li>• endocrine system (e.g. diabetes mellitus)</li> <li>• exocrine system (e.g. Sjögren's syndrome)</li> <li>• eyes, nose and throat</li> <li>• gastrointestinal tract (e.g. Crohn's disease)</li> <li>• musculoskeletal system (e.g. rheumatoid arthritis)</li> <li>• peripheral nervous system</li> <li>• skin and connective tissue (e.g. vitiligo)</li> </ul>	

- 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.

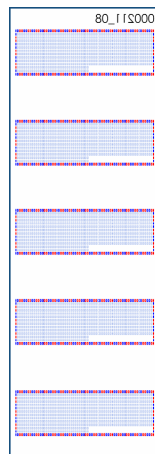
More information on the epitope content is available in the Excel file "Peptide\_Map\_Cyclic\_Citrullinated\_Peptide\_Microarray.xlsx".

**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

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