

PEPperCHIP® Allergen Epitope Microarray

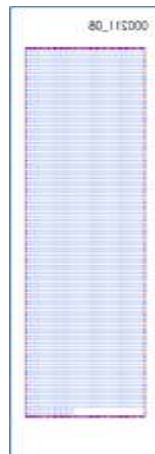
Product:	PEPperCHIP® Peptide Microarray	
Allergens:	<p>Triticum aestivum</p> <p>Farfantepenaeus aztecus</p> <p>Dermatophagoides farinae</p> <p>Gallus gallus</p> <p>Bos taurus</p> <p>Dermatophagoides pteronyssinus</p> <p>Aspergillus fumigatus</p> <p>Homo sapiens</p> <p>Penicillium citrinum</p> <p>Gadus morhua callarias</p> <p>Periplaneta americana</p> <p>Anisakis simplex</p> <p>Juniperus ashei</p> <p>Cryptomeria japonica</p> <p>Phleum pratense</p> <p>Sesamum indicum</p> <p>Hevea brasiliensis</p> <p>Betula pendula</p> <p>Pinus taeda</p> <p>Oryza sativa Japonica Group</p>	<p>Aspergillus restrictus</p> <p>Mangifera indica</p> <p>Nicotiana tabacum</p> <p>Penaeus monodon</p> <p>Carya illinoensis</p> <p>Stachybotrys chartarum</p> <p>Bertholletia excelsa</p> <p>Salmo salar</p> <p>Equus caballus</p> <p>Myrmecia pilosula</p> <p>Sinapis alba</p> <p>Ricinus communis</p> <p>Litopenaeus vannamei</p> <p>Holcus lanatus</p> <p>Ambrosia artemisiifolia var. elatior</p> <p>Phaseolus vulgaris</p> <p>Prunus armeniaca</p> <p>Corylus avellana</p> <p>Lens culinaris</p> <p>and more (see Microarray Content)</p>
Epitope Related Diseases:	<ul style="list-style-type: none"> • respiratory tract (e.g. allergic asthma, silicosis) • skin and connective tissue (e.g. allergic contact dermatitis, dermatitis herpetiformis) • gastrointestinal tract 	
Epitope Related Triggers:	<ul style="list-style-type: none"> • food hypersensitivity • milk hypersensitivity • allergy to egg • allergy to peanuts • penicillin allergy • drug hypersensitivity and more 	
Microarray Content:	<p>4,022 B-cell epitopes associated with allergic diseases of the Immune Epitope Database (http://www.iedb.org/).</p> <p>More information on the epitope content is available in the Excel file "Peptide_Map_Allergen_Epitope_Microarray.xlsx".</p>	

Database Epitope Lengths: 5 - 53 aa

Microarray Epitope Lengths: 5 to 17 aa depending on the database epitope length; longer epitopes were translated into overlapping 17 aa peptides

Number of Peptides/Spots: 4,022 / 8,044 (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**.

The PEPperCHIP® Allergen Epitope Microarray contains a single peptide array each chip and is compatible with a 3/1-well PEPperCHIP® Incubation Tray.

Each PEPperCHIP® Allergen Epitope Microarray further contains HA (YPYDVDPYAG), Polio (KEVPALTAVETGAT), c-Myc (EQKLISEEDL) and IgE (RHSTTQPRKTK) control peptides (26, 28, 18 and 32 spots each control).

Microarray Layout Files: Excel: Peptide_Map_Allergen_Epitope_Microarray.xlsx

GenePix® Pro: PEPperCHIP_Allergen_Epitope_Microarray.gal

PepSlide® Analyzer: PEPperCHIP_Allergen_Epitope_Microarray.psf