

PEPperCHIP[®] Lupus Epitope Microarray

Product:	PEPperCHIP [®] Peptide Microarray		
Microarray Content:	28 selected Lupus autoantigens tra multiplexed epitope mapping as epitopes of the <u>Immune Epitope</u> modifications like citrulline and ace	well as additional <u>Database</u> including	789 linear Lupus
Organisms:	Homo sapiens	Human herpesvirus	s 4 type 2
	Artemia franciscana	Human immunodeficiency virus 1	
	Bos taurus	Human T-lymphotr	opic virus 1
	Coxsackievirus A20	Macaca mulatta po	lyomavirus 1
	Escherichia coli	Mus musculus	
	Gallus gallus	Mycobacterium tub	erculosis
	Human adenovirus 12	Paraburkholderia fi	ungorum
	Human alphaherpesvirus 2	Staphylococcus au	reus
	Human betaherpesvirus 5	Sus scrofa	
	Human Endogenous Retrovirus	Torque teno virus	
	Human gammaherpesvirus 4	Trypanosoma cruz	i
Human Autoantigens:		UniProt ID	Protein Length
52-kD SS-A/Ro autoantigen		P19474	475 aa
Acidic ribosomal phosphopre	otein P0	P05388	317 aa
Acidic ribosomal phosphopre	otein P1	P05386	114 aa
Acidic ribosomal phosphopre	otein P2	P05387	115 aa
Bence Jones protein HAG		AAB31507.1	117 aa
Epstein-Barr nuclear antiger	11	Q3KSS4	641 aa
Collagen VII		AAB24637.1	887 aa
High mobility group protein '	17	AAB27051.1	89 aa
Heat shock protein HSP 90-		P08238	724 aa
Histone H3		AAA52651.1	135 aa
Lupus La protein		P05455	408 aa
Putative HTLV-1-related end	logenous sequence (p25)	P13985	223 aa
Ribosomal protein P2		P05387	115 aa
Ro ribonucleoprotein		P10155	538 aa
Small nuclear ribonucleopro	tein Sm D1	P62314	119 aa
Small nuclear ribonucleopro		P63162	240 aa
Trinucleotide repeat-contain		Q8NDV7	1962 aa
		P08621	437 aa
U1 small nuclear ribonucleoprotein 70 kDa		P09012	282 aa
U1 small nuclear ribonucleoprotein A		1 03012	202 ad



U1 small nuclear ribonucleoprotein C	P09234	159 aa
Histone H1.4	P10412	219 aa
Histone H2B type 1-K	O60814	126 aa
Histone H3.1t	Q16695	136 aa
Histone H4	P62805	103 aa
p70 Autoantigen	P12956	609 aa
T-cell receptor beta chain V region YT35	P01733	135 aa
Tumor necrosis factor receptor superfamily member 6	P25445	335 aa
Glucose-6-phosphate isomerase isoform 2	P06744	558 aa

All autoantigens and epitopes with a length of more than 20 amino acids were elongated by neutral GSGSGSG linkers to avoid truncated peptides. The elongated antigen and epitope sequences were translated into 15 aa peptides with a peptide-peptide overlap of 12 aa. Epitopes with a length of 16 - 19 aa were translated into 15 aa peptides with a peptide-peptide overlap of 14 aa; shorter epitopes were printed in full length. All peptides were printed in duplicate.

The PEPperCHIP[®] Lupus Epitope Microarray further contains citrullinated database epitopes including the corresponding arginine variants as well as peptides with acetyllysine including the corresponding lysine variants.

Epitope Lengths:	3 aa - 50 aa
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Peptide Lengths: 3 aa - 15 aa

Number of Peptides/Spots: 5,062 / 10,124 (peptides printed 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[®] Lupus Epitope Microarray is compatible with a 3/1-well PEPperCHIP[®] Incubation Tray.

Each PEPperCHIP[®] Lupus Epitope Microarray further contains HA, Polio and c-Myc control peptides (28, 32 and 22 spots each control).

Microarray Layout Files:

Excel: Peptide_Map_Lupus_Epitope_Microarray.xlsx MAPIX / GenePix[®] Pro: Lupus_Epitope_Microarray.gal