

## PEPperCHIP® HBV L-Protein Pre-S and S Antigen Microarray

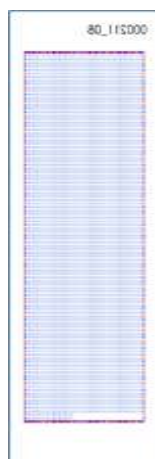
<b>Product:</b>	PEPperCHIP® Peptide Microarray
<b>Organism:</b>	Hepatitis B virus (genotype A-H)
<b>Microarray Content:</b>	Large envelope proteins (pre-S and S domains, genotypes A2-H)

Protein	UniProt Entry	Protein Length
Large envelope protein (pre-S and S domains, genotype A2)	P17101	400 aa
Large envelope protein (pre-S and S domains, genotype B)	Q1PD03	400 aa
Large envelope protein (pre-S and S domains, genotype C)	D3Y1K8	400 aa
Large envelope protein (pre-S and S domains, genotype D)	P03138	389 aa
Large envelope protein (pre-S and S domains, genotype E)	Q9QAW7	399 aa
Large envelope protein (pre-S and S domains, genotype F2)	Q05496	400 aa
Large envelope protein (pre-S and S domains, genotype G)	Q9IBI3	399 aa
Large envelope protein (pre-S and S domains, genotype H)	Q8JMZ6	400 aa

**Sequence Compilation:** The protein sequences were elongated by neutral GSGSGSG linkers to avoid truncated peptides. The elongated protein sequences were translated into 15 aa peptides printed in duplicate with a maximum peptide-peptide overlap of 14 aa for full epitope coverage. Redundant structures were removed.

- peptide length/overlap: 15 aa / 14 aa
- number of peptides/spots: 3,236 / 6,472

**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® HBV L-Protein Pre-S and S Antigen Microarray contains a single peptide array each chip and is compatible with a 3/1-well PEPperCHIP® Incubation Tray.

Each PEPperCHIP® HBV L-Protein Pre-S and S Antigen Microarray further contains HA, Polio and c-Myc control peptides (25, 28 and 18 spots each control).

**Microarray Layout Files:**

- Excel: Peptide\_Map\_HBV\_L-Protein\_Pre-S\_and\_S\_Antigen\_Microarray.xlsx
- GenePix® Pro: HBV\_L-Protein\_Pre-S\_and\_S\_Antigen\_Microarray.gal
- PepSlide® Analyzer: HBV\_L-Protein\_Pre-S\_and\_S\_Antigen\_Microarray.psf