

## PEPperCHIP® Epstein-Barr Virus Peptide Microarray

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**Product:** PEPperCHIP® Peptide Microarray

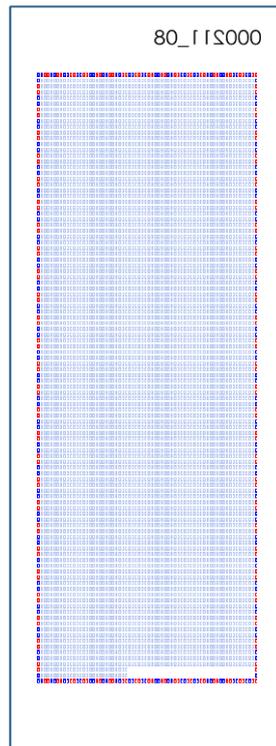
**Organism:** Epstein-Barr virus

**Microarray Content:** Most immunogenic EBV antigens from the Immune Epitope Database:

- Apoptosis regulator BHRF1 (UniProt ID P03182)
- Inner tegument protein (UniProt ID P03189)
- DNA polymerase processivity factor BMRF1 (UniProt ID P03191)
- Deoxyuridine 5'-triphosphate nucleotidohydrolase (UniProt ID P03195)
- Tegument protein BLRF2 (UniProt ID P03197)
- DNA polymerase catalytic subunit (UniProt ID P03198)
- Envelope glycoprotein GP350 (UniProt ID P03200)
- Epstein-Barr nuclear antigen 4 (UniProt ID P03203)
- Epstein-Barr nuclear antigen 6 (UniProt ID P03204)
- Trans-activator protein BZLF1 (UniProt ID P03206)
- Epstein-Barr nuclear antigen 1 (UniProt ID P03211)
- Major DNA-binding protein (UniProt ID P03227)
- Latent membrane protein 1 (UniProt ID P03230)
- Epstein-Barr nuclear antigen 3 (UniProt ID P12977)
- Epstein-Barr nuclear antigen 2 (UniProt ID P12978)
- Latent membrane protein 2 (UniProt ID P13285)
- Small capsomere-interacting protein (UniProt ID P14348)
- Envelope glycoprotein M (UniProt ID Q1HVE9)

**Sequence Compilation:** The sequences of the EBV antigens were elongated with neutral GSGSGSG linkers at the N- and C-terminus to avoid truncated peptides. The elongated protein sequences were converted into 5,549 different 13 amino acid peptides printed in duplicate (11,098 peptide spots) with a peptide-peptide overlap of 11 amino acids for high resolution epitope data.

## 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® Epstein-Barr Virus Peptide Microarray contains a single peptide array and is compatible with a 3/1-well PEPperCHIP® Incubation Tray.

Each PEPperCHIP® Epstein-Barr Virus Peptide Microarray further contains additional HA (YPYDVPDYAG, 26 spots) and polio (KEVPALTAVETGAT, 21 spots) control peptides.

## Microarray Layout Files:

Excel: Peptide Map Epstein-Barr Virus Peptide Microarray.xlsx

MAPIX / GenePix® Pro: Epstein-Barr Virus Peptide Microarray.gal