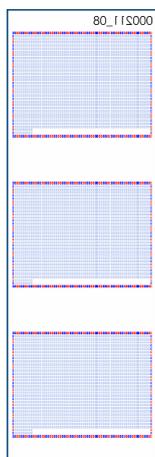PEPperPRINT
A NEW DIVERSITY

PEPperCHIP® HIV-1 Env Antigen Microarray

Product: PEPperCHIP® Peptide Microarray

Organism: Human immunodeficiency virus type 1 group M subtype B (isolate HXB2) (HIV-1)

Microarray Content: Envelope glycoprotein gp160 (Env) cleaved into the following 2 chains:
1. Surface protein gp120
2. Transmembrane protein gp41

UniProt Entry: P04578 (http://www.uniprot.org/uniprot/P04578)

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

- peptide length/overlap: 15 aa / 14 aa
- number of peptides/spots: 856 / 1,712

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® HIV-1 Env Antigen Microarray contains three peptide array copies each chip and is compatible with a 3/3-well PEPperCHIP® Incubation Tray.

Each PEPperCHIP® HIV-1 Env Antigen Microarray further contains HA, Polio and c-Myc control peptides (22, 28 and 20 spots each control).

Microarray Layout Files: Excel: Peptide_Map_HIV-1_Env_Antigen_Microarray.xlsx

MAPIX / GenePix® Pro: HIV-1_Env_Antigen_Microarray..gal