

## PEPperCHIP® Tumor Antigen Microarray

---

**Product:** PEPperCHIP® Peptide Microarray

**Organism:** Homo sapiens (Human), 22 selected tumor antigens

### Microarray Content:

Antigen	UniProt ID	Length
Histone H1.2	P16403	213 aa
Histone H4	P62805	103 aa
G2/mitotic-specific cyclin-B1	P14635	433 aa
L-dopachrome tautomerase	P40126	519 aa
Cellular tumor antigen p53	Q2XN98	393 aa
Receptor tyrosine-protein kinase erbB-2	P04626	1,255 aa
Mammaglobin-1	Q13296	93aa
TCRgamma alternate reading frame protein	A2JGV3	58 aa
Stromelysin-3 (MMP11)	P24347	488 aa
Protein SSX2 (Cancer/testis antigen 5.2)	Q16385	188 aa
Prostate-specific antigen	P07288	261 aa
Cancer/testis antigen 1 (NY-ESO-1)	P78358	180 aa
Myc proto-oncogene protein	P01106	439 aa
Claudin-6	P56747	220 aa
Carcinoembryonic antigen-related cell adhesion molecule 5	P06731	702 aa
Melanocyte protein PMEL	P40967	661 aa
Wilms tumor protein	P19544	449 aa
Tyrosinase	P14679	529 aa
Transcription factor SOX-2	P48431	317 aa
Myelin-oligodendrocyte glycoprotein	Q16653	247 aa
Actin, alpha skeletal muscle	P68133	377 aa
HLA class I histocompatibility antigen, A-36 alpha chain	P30455	365 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 peptide-peptide overlap of 13 aa.

- peptide length/overlap: 15 aa / 13 aa
- number of peptides/spots: 4,319 / 8,638

## 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® Tumor Antigen Microarray contains a single peptide array and is compatible with a 3/1-well PEPperCHIP® Incubation Tray.

Each PEPperCHIP® Tumor Antigen Microarray further contains HA, Polio and c-Myc control peptides (28, 28 and 24 spots each control).

## Microarray Layout Files:

Excel: Peptide\_Map\_Tumor\_Antigen\_Microarray.xlsx

MAPIX / GenePix® Pro: Tumor\_Antigen\_Microarray.gal