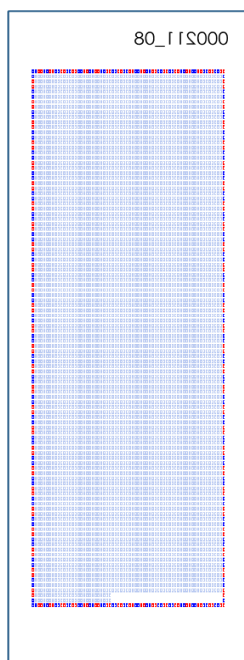


PEPperCHIP® Herpes-Simplex-Virus 1 Proteome Microarray

- Product:** PEPperCHIP® Peptide Microarray
- Organism:** Herpes simplex virus 1 (HSV-1) (strain 17)
- Microarray Content:** Complete proteome of HSV-1 (strain 17) with 74 individual proteins converted into overlapping peptides
- Sequence Compilation:** The sequences of all 74 HSV-1 proteins including all envelope glycoproteins were elongated and linked with neutral GSGSGSG linkers to avoid truncated peptides. The linked and elongated protein sequences and were converted into 19,408 different 15 amino acid peptides printed in duplicate (38,816 peptide spots) with a peptide-peptide overlap of 13 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® Herpes-Simplex-Virus 1 Proteome Microarray contains a single peptide array and is compatible with a 3/1-well PEPperCHIP® Incubation Tray.

Each PEPperCHIP® Herpes-Simplex-Virus 1 Proteome Microarray contains additional HA (482 spots) and polio (436 spots) control peptides.

- Microarray Layout Files:** Excel: Peptide Map Herpes Simplex Virus 1 Proteome Microarray.xlsx
MAPIX / GenePix® Pro: HSV-1_Proteome_Microarray.gal

No.	Protein	Protein ID	UniProtKB Accession	Length (AA)
1	Neurovirulence protein ICP34.5	YP_009137073.1	P36313 · ICP34_HHV11	248
2	Ubiquitin E3 ligase ICP0	YP_009137074.1	P08393 · ICP0_HHV11	775
3	Envelope glycoprotein L	YP_009137075.1	P10185 · GL_HHV11	224
4	Uracil-DNA glycosylase	YP_009137076.1	P10186 · UNG_HHV11	334
5	Nuclear protein UL3	YP_009137077.1	G8HBB6 · G8HBB6_HHV11	224

6	Nuclear protein UL4	YP_009137078.1	P10188 · NP04_HHV11	199
7	Helicase-primase helicase subunit	YP_009137079.1	P10189 · HELI_HHV11	882
8	Capsid portal protein	YP_009137080.1	B9VQD3 · B9VQD3_HHV11	676
9	Tegument protein UL7	YP_009137081.1	B9VQD4 · B9VQD4_HHV11	296
10	Helicase-primase subunit	YP_009137082.1	P10192 · HEPA_HHV11	750
11	DNA replication origin-binding helicase	YP_009137083.1	G8HBC2 · G8HBC2_HHV11	851
12	Envelope glycoprotein M	YP_009137084.1	P04288 · GM_HHV11	473
13	Myristylated tegument protein	YP_009137085.1	P04289 · CEP3_HHV11	96
14	Deoxyribonuclease	YP_009137086.1	P04294 · AN_HHV11	626
15	Tegument serine/threonine protein kinase	YP_009137087.1	P04290 · UL13_HHV11	518
16	Tegument protein UL14	YP_009137088.1	P04291 · TEG3_HHV11	219
17	DNA packaging terminase subunit 1	YP_009137089.1	P04295 · TRM3_HHV11	735
18	Tegument protein UL16	YP_009137090.1	P10200 · CEP2_HHV11	373
19	DNA packaging tegument protein UL17	YP_009137091.1	G8HBD0 · G8HBD0_HHV11	703
20	Capsid triplex subunit 2	YP_009137092.1	P10202 · TRX2_HHV11	318
21	Major capsid protein	YP_009137093.1	G8HBD2 · G8HBD2_HHV11	1,374
22	Envelope protein UL20	YP_009137094.1	P10204 · UL20_HHV11	222
23	Tegument protein UL21	YP_009137095.1	P10205 · TEG4_HHV11	535
24	Envelope glycoprotein H	YP_009137096.1	P06477 · GH_HHV11	838
25	Involved in nucleotide metabolism	YP_009137097.1	P0DTH5 · KITH_HHV11	376
26	Nuclear protein UL24	YP_009137098.1	P10208 · UL24_HHV11	269
27	DNA packaging tegument protein UL25	YP_009137099.1	P10209 · CVC2_HHV11	580
28	Capsid maturation protease	YP_009137100.1	G8HBD9 · G8HBD9_HHV11	635
29	Capsid scaffold protein	YP_009137101.1	G8HBE0 · G8HBE0_HHV11	329
30	Envelope glycoprotein B	YP_009137102.1	P10211 · GB_HHV11	904
31	DNA packaging terminase subunit 2	YP_009137103.1	P10212 · TRM1_HHV11	785
32	Single-stranded DNA-binding protein	YP_009137104.1	P04296 · DNBI_HHV11	1,196
33	DNA polymerase catalytic subunit	YP_009137105.1	P04293 · DPOL_HHV11	1,235
34	Nuclear egress lamina protein	YP_009137106.1	P10215 · NEC1_HHV11	306
35	DNA packaging protein UL32	YP_009137107.1	P10216 · UL32_HHV11	596
36	DNA packaging protein UL33	YP_009137108.1	B9VQG1 · B9VQG1_HHV11	130
37	Nuclear egress membrane protein	YP_009137109.1	P10218 · NEC2_HHV11	275
38	Small capsid protein	YP_009137110.1	P10219 · SCP_HHV11	112
39	Large tegument protein	YP_009137111.1	G8HBF0 · G8HBF0_HHV11	3,139
40	Tegument protein UL37	YP_009137112.1	G8HBF1 · G8HBF1_HHV11	1,123

41	Capsid triplex subunit 1	YP_009137113.1	P32888 · TRX1_HHV11	465
42	Ribonucleotide reductase subunit 1	YP_009137114.1	P08543 · RIR1_HHV11	1,137
43	Ribonucleotide reductase subunit 2	YP_009137115.1	P10224 · RIR2_HHV11	340
44	Tegument host shutoff protein	YP_009137116.1	Q9QNF3 · Q9QNF3_HHV1	489
45	DNA polymerase processivity subunit	YP_009137117.1	P10226 · PAP_HHV11	488
46	Envelope protein UL43	YP_009137118.1	P10227 · MB43_HHV11	417
47	Envelope glycoprotein C	YP_009137119.1	G8HBF8 · G8HBF8_HHV11	511
48	Membrane protein UL45	YP_009137120.1	P10229 · EV45_HHV11	172
49	Tegument protein VP11/12	YP_009137121.1	P10230 · TEG1_HHV11	718
50	Tegument protein VP13/14	YP_009137122.1	P10231 · TEG5_HHV11	693
51	Transactivating tegument protein VP16	YP_009137123.1	P06492 · VP16_HHV11	490
52	Tegument protein VP22	YP_009137124.1	P10233 · VP22_HHV11	301
53	Envelope glycoprotein N	YP_009137125.1	O09800 · GN_HHV11	91
54	Deoxyuridine triphosphatase	YP_009137126.1	P10234 · DUT_HHV11	371
55	Tegument protein UL51	YP_009137127.1	P10235 · TEG7_HHV11	244
56	Helicase-primase primase subunit	YP_009137128.1	P10236 · PRIM_HHV11	1,058
57	Envelope glycoprotein K	YP_009137129.1	P68331 · GK_HHV11	338
58	Multifunctional expression regulator	YP_009137130.1	P10238 · ICP27_HHV11	512
59	Nuclear protein UL55	YP_009137131.1	P10239 · TEG6_HHV11	186
60	Membrane protein UL56	YP_009137132.1	P10240 · UL56_HHV11	234
61	Transcriptional regulator ICP4	YP_009137135.1	B9VQC5 · B9VQC5_HHV11	1,298
62	Regulatory protein ICP22	YP_009137136.1	P04485 · ICP22_HHV11	420
63	Virion protein US2	YP_009137137.1	P06485 · US02_HHV11	291
64	Serine/threonine protein kinase US3	YP_009137138.1	P04413 · US03_HHV11	481
65	Envelope glycoprotein G	YP_009137139.1	P06484 · GG_HHV11	238
66	Envelope glycoprotein J	YP_009137140.1	P06480 · GJ_HHV11	92
67	Envelope glycoprotein D	YP_009137141.1	Q69091 · GD_HHV11	394
68	Envelope glycoprotein I	YP_009137142.1	P06487 · GI_HHV11	390
69	Envelope glycoprotein E	YP_009137143.1	P04488 · GE_HHV11	550
70	Membrane protein US8A	YP_009137144.1	O09802 · US8A_HHV11	159
71	Membrane protein US9	YP_009137145.1	P06481 · US9_HHV11	90
72	Virion protein US10	YP_009137146.1	P06486 · US10_HHV11	312
73	Tegument protein US11	YP_009137147.1	P04487 · RNB_HHV11	161
74	TAP transporter inhibitor ICP47	YP_009137148.1	P03170 · ICP47_HHV11	88