



## ProMix™ Pre-Mixed, Purified Peptide Libraries

ProMix™ are pre-mixed, purified, overlapping peptides from a single protein. They therefore represent the exact sequence content of the protein, without requiring protein purification or recombinant protein synthesis. Unlike other pre-mixed or self-mixed peptide libraries, the quality control of ProMix™ is carried out by LC-MS (liquid chromatography coupled to tandem mass spectrometry). This most stringent QC method guarantees the amount, purity, identity and uniformity of each peptide in the mix.

Each pre-made ProMix™ Library spans the length of the specific protein, in the format of 15mer peptides overlapping by 11 amino acids. Each aliquot contains 25µg of every peptide. ProMix™ Libraries are ideal for measuring the T cell response to an antigen, when stimulation with the whole antigen is not appropriate or is inconvenient. They usually achieve equivalent or better stimulation than whole proteins and are also ideal for measuring responses in frozen PBMC. With ProMix™ Libraries, the complex procedure of accurate peptide pooling is done for you, and peptides are guaranteed >70% pure.

Custom ProMix™	Purity	Quality Control	Scale	Dispatch	Applications
Custom Specified Pre-Mixed Overlapping Peptide Libraries	Every peptide >70%	100% LC-MS	25µg of each peptide	3-4 weeks	Measuring T cell immune response to whole proteins without the requirement for protein itself

### ProMix™ Ready-Made Peptide Libraries

Ready-made ProMix™ Libraries are in the format of 15mer peptides overlapping by 11 amino acids. One glass vial contains 25 µg of each peptide, purified to >70%. ProMix™ Libraries can be dissolved by addition of solvent directly to the vial. Dispatch time: 3-5 days.

### Positive Controls

ProMix™	Protein	Source	Primary Accession Number	Code
CEF Pool (standard)	Defined HLA class I-restricted T cell epitopes	Human cytomegalovirus, Epstein-Barr virus, Influenza virus	N/A	PX14
CEF Pool (extended)	Defined HLA class I-restricted T cell epitopes	Human cytomegalovirus, Epstein-Barr virus, Influenza virus	N/A	PX15
CEFT Pool	Defined HLA class I-and II-restricted T cell epitopes	Human cytomegalovirus, Epstein-Barr virus, Influenza virus, C. tetani	N/A	PX70
HCMVA IE-1	55 kDa immediate-early protein 1 (VIE1_HCMVA)	Human cytomegalovirus (HHV-5)	P13202	PX08
HCMVA IE-2	45 kDa immediate-early protein 2 (VIE2_HCMVA)	Human cytomegalovirus (HHV-5)	P19893	PX16
HCMVA pp65	65 kDa lower matrix phosphoprotein (PP65_HCMVA)	Human cytomegalovirus (HHV-5)	P06725	PX11

## Negative Controls

ProMix™	Protein	Source	Primary Accession Number	Code
HIV Con B gag motif	Con B gag motif	Human immunodeficiency virus	N/A	PX07
Human Actin	Actin, alpha skeletal muscle	Human	P68133	PX17
HLA class I, Ig-like C1 domain	HLA class I histocompatibility antigen, A-36 alpha chain	Human	P30455aa208-295	PX18
Human MOG	Myelin-oligodendrocyte glycoprotein (MOG)	Human	Q16653	PX19

## Infectious Diseases

### Adenovirus

ProMix™	Protein	Source	Primary Accession Number	Code
HadV-3 hexon protein	Hexon protein	Human adenovirus5 (HAdV-5)	P36849	PX05
HAdV-5 penton protein	Penton protein	Human adenovirus3 (HAdV-3)	P12538	PX13

### BKV

ProMix™	Protein	Source	Primary Accession Number	Code
Capsid protein VP1	Major capsid protein VP1	BK polyomavirus	P14996	PX01
Capsid protein VP2	Minor capsid protein VP2	BK polyomavirus	P03094	PX27
Capsid protein VP2, isoform VP3	Minor capsid protein VP2 (isoform VP3)	BK polyomavirus	P03094_2	PX28
Large T antigen	Large T antigen	BK polyomavirus	P14999	PX02
Small T antigen	Small T antigen	BK polyomavirus	P03082	PX29

### EBV

ProMix™	Protein	Source	Primary Accession Number	Code
EBV BMLF1	mRNA export factor EB2	Epstein-Barr virus (HHV4)	Q04360	PX91
EBV BMRF1	DNA polymerase processivity factor BMRF1	Epstein-Barr virus (HHV4)	P03191	PX92
EBV BRLF1	Transcription activator BRLF1	Epstein-Barr virus (HHV4)	P03209	PX93
EBV BZLF1	Trans-activator protein BZLF1	Epstein-Barr virus (HHV4)	P03206	PX31
EBV EBNA1	Epstein-Barr nuclear antigen 1 (EBNA1)	Epstein-Barr virus (HHV4)	P03211	PX32
EBV EBNA2	Epstein-Barr nuclear antigen 2 (EBNA2)	Epstein-Barr virus (HHV4)	P12978	PX66
EBV EBNA3a	Epstein-Barr nuclear antigen 3 (EBNA3a)	Epstein-Barr virus (HHV4)	P12977	PX33
EBV EBNA3b	Epstein-Barr nuclear antigen 4 (EBNA3b)	Epstein-Barr virus (HHV4)	Q1HVG4	PX34
EBV EBNA3c	Epstein-Barr nuclear antigen 6 (EBNA3c)	Epstein-Barr virus (HHV4)	Q69140	PX35
EBV EBNA-LP	Epstein-Barr nuclear antigen leader protein	Epstein-Barr virus (HHV4)	Q8AZK7	PX94

## EBV Continued

ProMix™	Protein	Source	Primary Accession Number	Code
EBV GP 340	Envelope glycoprotein GP340/GP220	Epstein-Barr virus (HHV4)	P03200	PX81
EBV LMP1	Latent membrane protein 1 (LMP1)	Epstein-Barr virus (HHV4)	P03230	PX04
EBV LMP2	Latent membrane protein 2 (LMP2)	Epstein-Barr virus (HHV4)	P13285	PX03

## HCMVA

ProMix™	Protein	Source	Primary Accession Number	Code
HCMVA IE-1	55 kDa immediate-early protein 1 (IE-1)	Human cytomegalovirus (HHV-5)	P13202	PX08
HCMVA IE-2	45 kDa immediate-early protein 2 (IE-2)	Human cytomegalovirus (HHV-5)	P19893	PX16
HCMVA pp65	65 kDa phosphoprotein (pp65)	Human cytomegalovirus (HHV-5)	P06725	PX11
HCMVA UL32	Large structural phosphoprotein	Human cytomegalovirus (HHV-5)	P08318	PX82
HCMVA UL103	Protein UL103	Human cytomegalovirus (HHV-5)	P16734	PX83
HCMVA UL151	Orf UL151	Human cytomegalovirus (HHV-5)	Q68405	PX72
HCMVA UL153	Orf UL153	Human cytomegalovirus (HHV-5)	Q68408	PX80
HCMVA UL28	Uncharacterized protein UL28	Human cytomegalovirus (HHV-5)	P16847	PX73
HCMVA UL36	Uncharacterized protein UL36	Human cytomegalovirus (HHV-5)	P16767	PX84
HCMVA UL40	Uncharacterized protein UL40	Human cytomegalovirus (HHV-5)	P16780	PX36
HCMVA UL48_sub 1 & 2	Deneddylase UL48	Human cytomegalovirus (HHV-5)	P16785	PX74
HCMVA UL55	Envelope glycoprotein B (UL55)	Human cytomegalovirus (HHV-5)	P06473	PX75
HCMVA UL82	71 kDa phosphoprotein (UL82)	Human cytomegalovirus (HHV-5)	P06726	PX76
HCMVA UL86	Major capsid protein	Human cytomegalovirus (HHV-5)	P16729	PX95
HCMVA UL94	Capsid-binding protein UL94	Human cytomegalovirus (HHV-5)	P16800	PX77
HCMVA UL99	Tegument protein UL99	Human cytomegalovirus (HHV-5)	P13200	PX79
HCMVA US24	Tegument protein US24	Human cytomegalovirus (HHV-5)	P09700	PX78
HCMVA US29	Uncharacterized protein HHRF4 (US29)	Human cytomegalovirus (HHV-5)	P09705	PX85
HCMVA US3	Unique short US3 glycoprotein	Human cytomegalovirus (HHV-5)	P09712	PX86
HCMVA US32	Uncharacterized protein HHRF7 (US32)	Human cytomegalovirus (HHV-5)	P09708	PX87

## HIV

ProMix™	Protein	Source	Primary Accession Number	Code
HIV-1 Con B gag motif	HIV-1 (Con B gag motif)	Human immunodeficiency virus	N/A	PX07

## HPV

ProMix™	Protein	Source	Primary Accession Number	Code
HPV 18 (Protein E6)	Protein E6	Human Papillomavirus type 18	P06463	PX97
HPV 16 (Protein E7)	Protein E7	Human Papillomavirus type 16	P03129	PX98

## Influenza

ProMix™	Protein	Source	Primary Accession Number	Code
Influenza A HA /Brisbane (H1N1)	Hemagglutinin	Influenza A virus (A/Brisbane/59/2007(H1N1))	BOVX44	PX69
Influenza A HA /California (H1N1)	Hemagglutinin	Influenza A virus (A/California/08/2009(H1N1))	C3W5X2	PX88
Influenza A MP1 (H3N2)	Matrix protein 1	Influenza A virus (strain A/Aichi/2/1968 H3N2)	Q67157	PX37
Influenza A MP1 /California (H1N1)	Matrix protein 1	Influenza A virus (A/California/08/2009(H1N1))	C3W5Z8	PX68
Influenza A MP2 /California (H1N1)	Matrix protein 2	Influenza A virus (A/California/08/2009(H1N1))	C3W5Z7	PX89
Influenza A Neuroamidase /California (H1N1)	Neuraminidase	Influenza A virus (A/California/08/2009(H1N1))	C7FH14	PX90
Influenza A NP (H3N2)	Nucleocapsid protein	Influenza A virus (strain A/Kitakyushu/159/1993 H3N2)	O91743	PX38

## RSV

ProMix™	Protein	Source	Primary Accession Number	Code
RSV Fusion glycoprotein F0	Fusion glycoprotein F0	Human respiratory syncytial virus	O36634	PX40
RSV nucleocapsid protein N	Nucleoprotein N	Human respiratory syncytial virus	O42053	PX39

## Miscellaneous

ProMix™	Protein	Source	Primary Accession Number	Code
Candida MP65	Mannoprotein MP65	Candida albicans (Yeast)	Q9HEP1	PX30
HBV large envelope protein	Large envelope protein	Hepatitis B virus (HBV-A)	P17101	PX60
HHV6 U54	U54	Human herpesvirus 6B	Q9QJ29	PX44
Yellow fever NS4B	Yellow fever Non-structural protein 4B	Yellow fever virus	P03314 aa2257-2506	PX46

## Tumor Associated Antigens

### Breast & Prostate

ProMix™	Protein	Source	Primary Accession Number	Code
Mammaglobin A	Mammaglobin-A	Human	Q13296	PX45
NY-ESO-1	Cancer/testis antigen 1 (NY-ESO-1)	Human	P78358	PX09
Prostate-specific antigen PSA	Prostate-specific antigen	Human	P07288	PX41
SSX2	Protein SSX2	Human	Q16385	PX24

### Epithelia

ProMix™	Protein	Source	Primary Accession Number	Code
CEA	Carcinoembryonic antigen-related cell adhesion molecule 5	Human	P06731	PX51
Claudin-6	Claudin-6	Human	P56747	PX50
Stromelysin-3, MMP11	Stromelysin-3 (MMP11)	Human	P24347	PX49

### Hematopoietic Tumors

ProMix™	Protein	Source	Primary Accession Number	Code
Myc protein	Myc proto-oncogene protein	Human	P01106	PX43

### Melanoma

ProMix™	Protein	Source	Primary Accession Number	Code
MAGEA1	Melanoma-associated antigen 1 (MAGEA1)	Human	P43355	PX20
MAGEA3	Melanoma-associated antigen 3 (MAGEA3)	Human	P43357	PX21
MAGEA4	Melanoma-associated antigen 4 (MAGEA4)	Human	P43358	PX22
Melan-A/MART-1	Melanoma antigen recognized by T-cells 1 (MART-1)	Human	Q16655	PX23
Melanocyte protein Pmel 17 gp100	Melanocyte protein Pmel 17 (gp100)	Human	P40967	PX67
Prame/OIP4	Melanoma antigen preferentially expressed in tumors (PRAME/OIP4)	Human	P78395	PX10

### Vaccinia

ProMix™	Protein	Source	Primary Accession Number	Code
Cell surface-binding protein, MVA 105L	Cell surface-binding protein (MVA 105L)	Vaccinia virus (strain Ankara)	O57211	PX55
Host range protein	Host range protein 2 (MVA018L)	Vaccinia virus (strain Ankara)	P68598	PX48

2, MVA 018L				
Major core protein P4a, MVA 121L_Sub 1 & 2	Major core protein P4a (MVA 121L)	Vaccinia virus (strain Ankara)	O57223	PX56
MVA 074R	Putative 49.8kprotein (MVA 074R)	Vaccinia virus (strain Ankara)	O57196	PX54
MVA 093L	IMV heparin binding surface protein (MVA 093L)	Vaccinia virus (strain Ankara)	O57206	PX47
MVA 189R	Putative 21.7kprotein (MVA 189R)	Vaccinia virus (strain Ankara)	O57265	PX57

## Wilm's Tumor 1

ProMix™	Protein	Source	Primary Accession Number	Code
WT1/WT33	Wilmstumor protein (WT1/WT33)	Human	P19544	PX12

## Miscellaneous

ProMix™	Protein	Source	Primary Accession Number	Code
Arabidopsis WRKY47	Probable WRKY transcription factor 47	Arabidopsisthaliana (Mouse-ear cress)	Q9ZS17	PX71
Cyclin-B1	G2/mitotic-specific cyclin-B1	Human	P14635	PX52
ErbB2_ICD	Receptor tyrosine-protein kinase erbB-2 (intracellular domain)	Human	P04626 aa662-1255	PX62
ERB-B2	Receptor tyrosine-protein kinase erbB-2	Human	P04626-1	PX96
Histone H1.2	Histone H1.2	Human	P16403	PX42
Histone H4	Histone H4	Human	P62805	PX53
P53	Cellular tumor antigen p53	Human	Q2XN98	PX58
SOX-2	Transcription factor SOX-2	Human	P48431	PX59
TCRgamma alternate reading frame protein TARP	TCRgamma alternate reading frame protein	Human	A2JGV3	PX26
Human Tyrosinase	Tyrosinase	Human	P14679	PX65
Human Tyrosinase-related protein 2	L-dopachrome tautomerase (Tyrosinase-related protein 2)	Human	P40126	PX63
Mouse Tyrosinase	Tyrosinase	Mus musculus (Mouse)	P11344	PX64
Pongo abelii Survivin	Baculoviral IAP repeat-containing protein 5 (Survivin)	Pongo abelii (Sumatran orangutan)	Q5RAH9	PX25

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