

# CEFT POOL

## Product codes:

PM-CEFT-1, PM-CEFT-2 (Development Grade)

PM-CEFT-3 (Premium Grade)

PM-CEFT-4 (Trial Grade)

## Peptide sequences, origin, and HLA-presentation

Nr.	Sequence	Organism	Uniprot ID	MHC-presentation <sup>1</sup>
1	H-ATIGTAMYK-OH	Human herpesvirus 4 (Epstein Barr virus)	Replication and transcription activator (UniProt:P03209)	HLA-A*11:01
2	H-ATELKLSDY-OH	Influenza A virus	Nucleoprotein (UniProt:P03466)	HLA-A*01:01, HLA-A*30:03, HLA-B*15:17, HLA-A1
3	H-DYCNVLNKEF-OH	Human herpesvirus 4 (Epstein Barr virus)	Replication and transcription activator (UniProt:P03209)	HLA-A*24:02
4	H-EENLLDFVRF-OH	Human herpesvirus 4 (Epstein Barr virus)	Epstein-Barr nuclear antigen 6 (UniProt:P03204)	HLA-A*11:01, HLA-A*34:02, HLA-A*36:01, HLA-B*44:02, HLA-B*44:03, HLA-B*44:05, HLA-B*58:02
5	H-EFFWDANDIY-OH	Human herpesvirus 5 (Human cytomegalovirus)	65 kDa phosphoprotein (UniProt:P06725)	HLA-B*44:02, HLA-B12 (44)
6	H-ELRSRYWAI-OH	Influenza A virus	Nucleoprotein (UniProt:P03466)	HLA-A*18:01, HLA-A*69:01, HLA-B*08:01, HLA-B*27:02, HLA-B8
7	H-FLRGRAYGL-OH	Human herpesvirus 4 (Epstein Barr virus)	Epstein-Barr nuclear antigen 3 (UniProt:P12977)	HLA-A*02:01, HLA-B*08:01, HLA-B8
8	H-GILGFVFTL-OH	Influenza A virus	Matrix protein 1 (UniProt:P03485)	HLA-A*02:01, HLA-A*02:06, HLA-A*02:02, HLA-A*02:03, HLA-A*08:01, HLA-A2
9	H-GLCTLVAML-OH	Human herpesvirus 4 (Epstein Barr virus)	mRNA export factor ICP27 homolog	HLA-A*02:01, HLA-A*02:07, HLA-A2

			(UniProt:Q04360)	
10	H-ILRGSVAHK-OH	Influenza A virus	Nucleoprotein (Fragment) (UniProt:A0A2S3ZQR9)	HLA-A*03:01, HLA-A3
11	H-IVTDFSVIK-OH	Human herpesvirus 4 (Epstein Barr virus)	Epstein-Barr nuclear antigen 4 (UniProt:P03203)	HLA-A*03:01, HLA-A*11:01, HLA-A*34:02, HLA-A11
12	H-KTGGPIYKR-OH	Influenza A virus	Nucleoprotein (UniProt:P03466)	HLA-A*68:01, HLA-A68
13	H-NLVPMVATV-OH	Human herpesvirus 5 (Human cytomegalovirus)	67 kDa phosphoprotein (UniProt:P06725)	HLA-A*02:01, HLA-A*02:03, HLA-A*02:06, HLA-A*02:11, HLA-A*02:12, HLA-A*02:16, HLA-A*02:19, HLA-A*34:02, HLA-A*69:01, HLA-A2
14	H-QAKWRLQTL-OH	Human herpesvirus 4 (Epstein Barr virus)	Epstein-Barr nuclear antigen 3 (UniProt:P12977)	HLA-A*02:01, HLA-B*08:01
15	H-RAKFKQLL-OH	Human herpesvirus 4 (Epstein Barr virus)	Lytic switch protein BZLF1 (UniProt:P03206)	HLA-A*11:01, HLA-A*34:02, HLA-A*36:01, HLA-B*07:02, HLA-B*08:01, HLA-B8
16	H-RLRAEAQVK-OH	Human herpesvirus 4 (Epstein Barr virus)	Epstein-Barr nuclear antigen 3 (UniProt:P12977)	HLA-A*03:01
17	H-RPPIFIRRL-OH	Human herpesvirus 4 (Epstein Barr virus)	Epstein-Barr nuclear antigen 3 (UniProt:P12977)	HLA-A*34:02, HLA-B*07:02, HLA-B7
18	H-RRYDLIEL-OH	Human herpesvirus 4 (Epstein Barr virus)	Epstein-Barr nuclear antigen 6 (UniProt:P03204)	HLA-B*27:02, HLA-B*27:04, HLA-B*27:05, HLA-B*39:09, HLA-B27
19	H-RVRAYTYSK-OH	Human herpesvirus 4 (Epstein Barr virus)	Replication and transcription activator (UniProt:P03209)	HLA-A*03:01, HLA-A*11:01
20	H-SRYWAIRTR-OH	Influenza A virus	Nucleoprotein (UniProt:P03466)	HLA-B*27:02, HLA-B*27:03, HLA-B*27:04, HLA-B*27:05, HLA-B*27:06, HLA-B*27:09, HLA-B27
21	H-TPRVTTGGAM-OH	Human herpesvirus 5	66 kDa phosphoprotein	HLA-A*02:01, HLA-B*07:02, HLA-B7

		(Human cytomegalovirus)	(UniProt:P06725)	
22	H-VSDGGPNLY-OH	Influenza A virus	RNA-directed RNA polymerase catalytic subunit (UniProt:P03431)	HLA-A*01:01, HLA-A*29:02, HLA-A*30:02, HLA-A*80:01, HLA-B*15:01, HLA-B*15:17, HLA-B*58:01, HLA-A*08:02, HLA-A1, HLA-B18
23	H-YPLHEQHGM-OH	Human herpesvirus 4 (Epstein Barr virus)	Epstein-Barr nuclear antigen 3 (UniProt:P12977)	HLA-B*07:02, HLA-B*35:01, HLA-B*35:02, HLA-B*35:03, HLA-B35
24	H-FNNFTVSFWLRVPKVSASHLE-OH	Clostridium tetani	Tetanus toxin (UniProt:P04958)	HLA-DRB1*11:01, HLA-DRB1*11:04, HLA-DPB1*04:01, HLA-DPB1*04:02
25	H-KFIIKRYTPNNEIDSF-OH	Clostridium tetani	Tetanus toxin (UniProt:P04958)	HLA-DRB1*11:01, HLA-DRB1*11:04
26	H-QYIKANSKFIGITEL-OH	Clostridium tetani	Tetanus toxin (UniProt:P04958)	HLA-DRB1*01:01, HLA-DRB1*04:01, HLA-DRB1*04:05, HLA-DRB1*07:01, HLA-DRB1*09:01, HLA-DRB1*11:01, HLA-DRB1*16:01, HLA-DRB1*HLA-DRB3*03:01, HLA-DRB5*01:01, HLA-DR
27	H-VSIDKFRIFCKALNPK-OH	Clostridium tetani	Tetanus toxin (UniProt:P04958)	HLA-DRB1*11:01, HLA-DRB1*11:04

<sup>1</sup>MHC presentation according to published data