

HIV CTL Epitope Alignments

Protease Epitopes 1-3

D.UG.94UG1141	-----K---	02_AG,SE,SE7812 PPLASLKS1F	P--A--K---
CONSENSUS-F1	P--A--K---	02_AG,SN,98SEMP1211 03_AB,RU[KAL]53-2 03_AB,RU1.RU98001 04_cpx,CY,94CY032-3 04_cpx,GR,97PVCH	P----K--- P-SI--K--- P-SI--K--- -----K--- -----K---
F1.BE.VI850	P--A--K---	04_cpx,GR,97PVCH -PPLASLKSX	-----K---
F1.BR.93BR020-1	P--A--K---	-PPLASLKSX	-----K---
F1.BR.BZ162	P--A--K---	-PPLASLKSX	-----K---
F1.CD.VI174	P--A--K---	-PPLASLKSX	-----K---
F1.FL.FIN9363	P--A--K---	P--A--K---	-----K---
F1.FR.MP411	P--A--K---	P--A--K---	-----K---
F1.RW.VI69	S-PPLASLKSX	S-PPLASLKSX	-----A--K---
F2.CM.MP255	P--V--K---	06_cpx,AU,BFP90	-----A--K---
F2.CM.MP257	P--I--K---	06_cpx,ML,95ML127	-----A--K---
F2KU.BE.VII126	P-----K---	06_cpx,ML,95ML84	-----A--K---
G.BE.DRCBLL	-----S--K---	06_cpx,SN,97SE1078	-----A--K---
G.FL.HH8793-1-1	H--A--K---	10_CD-.BFL06129	H--A--K---
GNG.922NG0833	-----K---	10_CD-.BFL07130	H--A--K---
G.SE,SE6165	ELYP--K---	10_CD-.BFL11031	-----A--K-V-
H.BE.VI991	P-----K---	11_cpx,CM,97CM-MP818	-----A--K-V-
H.BE.VI997	P-FA--K---	11_cpx,FR,99FR-MP1298	-----A--K-V-
H.CCF.90CF056	P--A-----	11_cpx,FR,99FR-MP1307	-----A--K-V-
J.SE,SE7022	-----K---	11_cpx,GR,GR17	-----A--K-V-
J.SE,SE7887	-----K---	-----	-----A--K-V-
K.BE.VI325	GSPPLASLKSX	-----	-----A--K-V-
K.CD.EQTB11C	P-----K---	-----	-----A--K-V-
KCM.MP535	P-----K---	-----	-----A--K-V-
MO.CM.97CAMP645MO	P-----K---	-----	-----A--K-V-
N.CM.YBF106	P-----K---	-----	-----A--K-V-
N.CM.YBF50	P-----K---	-----	-----A--K-V-
OCM.ANT70	--FA--K---	-----	-----A--K-V-
OCM.MVP5180	--FA--K---	-----	-----A--K-V-
O.SN.99SE-MP1299	--FA--K---	-----	-----A--K-V-
O.SN.99SE-MP1300	--FA--K---	-----	-----A--K-V-
UCD.-.83CD0031	P-----K---	-----	-----A--K-V-
CONSENSUS-01_AE	PPL1vSLKS1F	S--V--K---	-----A--K-V-
01_AE.CF90CF11697	-----	P--V--K---	-----A--K-V-
01_AE.CF90CF402	-----	P--V--K---	-----A--K-V-
01_AE.CF90CF4071	-----	P--V--K---	-----A--K-V-
01_AE.TH.93TH057	-----	P--V--K---	-----A--K-V-
01_AE.TH.93TH065	-----	P--V--K---	-----A--K-V-
01_AE.TH.93TH253	-----	P--SV--K---	-----A--K-V-
01_AE.TH.93TH902	-----	P--V--K---	-----A--K-V-
01_AE.TH.94TH7091	-----	P--V--K---	-----A--K-V-
01_AE.TH.95THNIH047	-----	P--I--K---	-----A--K-V-
01_AE.TH.CM240	-----	P--V--K---	-----A--K-V-
01_AE.TH.TH022	-----	P--SV--K---	-----A--K-V-
CONSENSUS-02_AG	PPL2vSLKS1F	-----	-----A--K-V-
02_AG,FR.DI263	P--A--K---	-----	-----A--K-V-
02_AG,FR.DJ264	P--A--K---	-----	-----A--K-V-
02_AG.GH.G829	P--A--K---	-----	-----A--K-V-
02_AG.NG.IBNG	P-----K---	-----	-----A--K-V-

Epitope #	1	ITLWQRPLV	HLA
	2	ITLWQRPLV	A*6802
	3	ITLWQRPLV	A*6802,A*7401,A19
	4	ITLWQRPLV	A*7401
	5	ITLWQRPLV	A*7401
	6	ITLWQRPLV	
	7	ITLWQRPLV	
	8	ITLWQRPLV	
	9	ITLWQRPLV	
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	273</td		

HIV CTL Epitope Alignments

B.GA.QVI	I-----I-	I-F-----	I-----V-
B.GB.CAM1	I-----I-	I-----	I-F----V-
B.GB.GB8	I-----I-	I-----V-	I-----
B.GB.MANC	T-----	I-----	I-----
B.KR.WK	I-----	I-----I-	I-----
B.NL.3202A21	I-----	I-----I-	I-----
B.TW.TWCYS	I-----	G.FLHH8793-I-I	I-----
B.UNK.NL43E9	I-----	G.NG.92NG083	I-----
B.US.ADS8	I-----I-	G.SE.SE6165	I-----
B.US.BC	I-----	H.BE.VI991	I-----I-
B.US.DH123	I-----	H.BE.VI997	I-----I-
B.US.JRCSF	I-----	H.CF90CRF56	I-----
B.US.JRFL	I-----	J.SE.SE7022	I-----
B.US.MNCG	I-----I-	J.SE.SE7887	I-----
B.US.NY5CG	I-----	K.CD.EQTBT11C	I-----V-
B.US.P896	I-----	K.CM.MP535	I-----I-
B.US.PT2-9-95C	I-----	MOCZM.97CAMF645MO	I-----I-F-----
B.US.PT4-5-97	I-----	N.CM.YBF106	I-----Vx
B.US.RF	I-----I-	N.CM.YBF30	I-----VI
B.US.SF2	I-----	O.CM.ANT70	I-----D--I-
B.US.WEAU160	I-----	O.CM.MVP5180	I-----D--I-
B.US.WR27	I---C---	O.SN.99SE-MP1299	I-----D--V-
B.US.YU2	I-----	O.SN.99SE-MP1300	I-----D--I-
BF1.BR.93BR029-4	I-----	U.CD.-.85CD0031	I-----
CONSENSUS-C			
C.BR.92BR025	I-----	CONSENSUS-	ITLWQRPL1V
C.BW.96BW01B03	I-----	U155	I-----
C.BW.96BW0402	I-----	01_AE.CF.90CF11697	I-F-----
C.BW.96BW0502	I-----	01_AE.CF.90CF402	I-----
C.BW.96BW1104	I-----	01_AE.CF.90CF4071	I-----I-
C.BW.96BW1210	I-----	01_AE.TH.93TH057	I-----
C.BW.96BW15B03	I-----	01_AE.TH.93TH065	I-----
C.BW.96BW1626	I-----	01_AE.TH.93TH253	I-----
C.BW.96BW17A09	I-----	01_AE.TH.93TH902	I-----I-
C.ET.ETH2220	I-----	01_AE.TH.94TH702	I-----I-
C.IN.93IN101	I-----	01_AE.TH.95TNH047	I-----
C.IN.93IN904	I-----	01_AE.TH.CM240	I-----
C.IN.93IN905	I-----	01_AE.TH.TH022	I-----
C.IN.93IN999	I-----	CONSENSUS-02_AG	ITLWORPLV
C.IN.94IN11246	I-----	02_AG.CM.97CMMP807	I-----F
C.IN.95IN21068	I-----	02_AG.FR.DJ263	I-----
CONSENSUS-D			
D.CD.84ZR085	I-----V-	02_AG.GH.G829	I-----
D.CD.EL1	I-----	02_AG.NG.IBNG	I-----
D.CD.NDK	I-----	02_AG.SE.SE7812	I-----
D.CD.ZZ76	I-----	02_AG.SN.98SEMP1211	I-----F
D.UG.94UG1141	I-----V-	02_AG.SN.98SEMP1213	I-----F
F1.BE.V1850	I-----	03_AB.RU.RU98001	I-----R--
F1.BR.93BR020-1	I-----	04_cpx.CY.94CY032-3	I-----
F1.FL.FIN9363	I-----	04_cpx.GR.97PVCH	I-----P--
		04_cpx.GR.97PVMY	I-----

HIV CTL Epitope Alignments

Protease Epitope 4

	B,GB,GB8	-----D-N-	F2.CM,MP257
	B,GB,MANC	-----N-	F2.KU,BE,VII126
	B,KR,WK	-----/	G,BE,DRCBL
	B.NL..3202A21	-----/	G.FL.HHH293-1-1
	B.TW.TWCYS	-----/	G.NG.92NG083
	B.UNK.NU43E9	-----/	G.SE,SE6165
	B.US.AD8	-----D-N-	H.BE,V1991
	B.US.BC	-----N-	H.BE,V1997
	B.US.DH123	-----IN-	H.CF90CF056
	B.US.JRCFS	-----D-D-	J.SE,SE7022
	B.US.JRFL	-----D-D-	J.SE,SE7787
	B.US.MNCG	-----G-N-	K.CD.EQTBT11C
	B.US.NY5CG	-----N-	K.CM,MP535
	B.US.P896	-----D--	MO.CM.97CAMP045MO
	B.US.PT2.9-95C	-----D-D-	N.CM,YBF106
	B.US.PT4.5-97	-----D-D-	N.CM,YBF30
	B.US.RF	-----N-	O.CM,ANT70
	B.US.SF2	-----N-	O.CM,MVP5180
	B.US.WEAU160	-----D-N-	O.SN,99SF-MP1299
	B.US.WR27	-----/	O.SN,99SE-MP1300
	B.US.YU2	-----N-	U.CD,-83CD0031
	BFI.BR.93BR029-4	-----IN-	
	CONSENSUS-A	dtvLEdinL	DTvLEdinL
A.BY.97BL006	x-----DIN-	C.BR.92BR025	U155
A.KE.Q23	-----DIN-	C.BW.96BW01B03	01_AE,CF.90CF11697
A.SE.SE6594	-----DIN-	C.BW.96BW0402	01_AE,CF.90CF402
A.SE,SE7253	-----DIN-	C.BW.96BW0502	01_AE,CF.90CF4071
A.SE,SE7535	-----DIN-	C.BW.96BW1104	01_AE,TH.93TH057
A.SE,SE8538	-----DIN-	C.BW.96BW1210	01_AE,TH.93TH065
A.SE,SE8891	-----DIN-	C.BW.96BW15B03	01_AE,TH.93TH253
A.SE,UGSE8.31	-----DIN-	C.BW.96BW1626	01_AE,TH.93TH902
A.UG.92UG037	-----DIN-	C.BW.96BW17A09	01_AE,TH.94TH702
A.UG.U455	-----DIN-	C.ET.ETH2220	01_AE,TH.95TH047
A2.CD.97CDKFE4	-----DIN-	C.IN.93IN101	01_AE,TH.CM240
A2.CY.94CY017-41	-----IN-	C.IN.93IN904	01_AE,TH.TH022
A2.CZM.ZAMI84	-----IN-	C.IN.93IN905	
A2D.-97KR004	-----IN-	C.IN.93IN999	
A2.G.CD.97CDKPP58	-----IN-	C.IN.94IN11246	
AC.ETE3.099G	-----IN-	C.IN.95IN21068	
AC.IN.21301	-----IN-	CONSENSUS-C	
AC.RW.92RW009	-----IN-	C.BR.92BR025	
AC.SE,SE9488	-----DIN-	C.BW.96BW01B03	
ACD.SE,SE8603	-----DIN-	C.BW.96BW0402	
ACG.BE,VII1035	-----QIN-	C.BW.96BW0502	
AD.SE,SE6954	-----IN-	C.BW.96BW1104	
AD.SE,SE7108	-----DIN-	C.BW.96BW1210	
ADHK.NO.97NOGLI.3	-----D-N-	C.BW.96BW15B03	
ADK.CD.MAL	-----IN-	C.BW.96BW1626	
AG.BE,VII197	-----A-I--	C.BW.96BW17A09	
AG.NG.92NG003	-----IN-	C.ET.ETH2220	
AGHU.GA.VI354	-----IN-	C.IN.93IN101	
AGU.CD.Z321	-----IK-	C.IN.93IN904	
AJ.BW.BW2117	-----E-	C.IN.93IN905	
		C.IN.93IN999	
		C.IN.94IN11246	
		C.IN.95IN21068	
	CONSENSUS-B	-----V--	
B.AU.MBC18	-----D-H-	CONSENSUS-D	
B.AU.MBC200	-----V--	D.CD.84ZR085	
B.AU.MBC925	-----N-	D.CD.ELI	
B.AU.MBBC54	-----N-	D.CD.NDK	
B.AU.MBBC98	-----A-	D.CD.Z2Z6	
B.AU.MBCD36	-----K-N-	D.UG.94UG1141	
B.AU.VH	-----C-	F1.BE.V850	
B.CN.RL42	-----D-N-		
B.DE.D31	-----/	F1.BR.92BR020-1	
B.DE.HAN	-----V----	F1.FL.FIN9363	
B.FR.HXB2	-----/	F1.FR.MP411	
B.GA.OYI	-----/	F2.CM,MP255	
B.GB,CAM1	-----N-		

Protease Epitope 5

06_cpx.AU.BFP90	-----DIN-	B.GB.GB8
06_cpx.ML.95ML127	-----DIN-	B.GB.MANC
06_cpx.ML.95ML84	-----DIN-	B.KR.WK
06_cpx.SN.97SE1078	-----IN-	B.NL.3202A21
10_CD.-BF1.06131	-----IN-	B.TW.TWCYS
10_CD.-BF1.07132	---V-D---	B.UNK.NL4E9
10_CD.-BF1.11033	----N-	B.US.AD8
11_cpx.CM.97CM-MP818	----IN-	B.US.BC
11_cpx.FR.99FR-MP1298	----IE-	B.US.DH123
11_cpx.FR.99FR-MP1307	----DID-	B.US.JRCSF
11_cpx.GR.GR17	-----	B.US.JRFL
CONSENSUS-A		
A.BY.97BL006	-----	B.US.MNCG
A.KE.Q23	-----	B.US.NY5CG
A.SE.SE6594	-----	B.US.P896
A.SE.SE7253	-----	B.US.PT2-9-95C
A.SE.SE7535	-----	B.US.PT4-5-97
A.SE.SE8538	-----	B.US.RF
A.SE.SE8891	-----	B.US.SF2
A.SE.UGSEB131	-----	B.US.WEAU160
A.UG.92UG037	-----	B.US.WR27
A.UG.U455	-----	B.FI.BR.93BR029-4
A2.CD.97CDRFE4	-----	CONSENSUS-C
A2.CY.94CY017-41	-----	C.BR.92BR025
A2C.ZM.ZAM184	-----	C.BW.96BW01B03
A2D.-97KR004	-----I--	C.BW.96BW0402
A2G.CD.97CDKP58	-----	C.BW.96BW0502
A.C.ET.E3099G	-----	C.BW.96BW1104
A.C.IN.2130I	-----S---	C.BW.96BW1210
A.C.RW.92RW009	-----	C.BW.96BW15B03
A.C.SE.SE9488	-----	C.BW.96BW1626
ACD.SE.SE8603	-----	C.BW.96BW17A09
ACG.BE.VII035	-----	C.ET.ETH2220
AD.SE.SE6954	-----	C.IN.93IN101
AD.SE.SE7108	-----	C.IN.93IN904
ADHK.NO.97NOGL3	-A-----	C.IN.93IN905
ADK.CD.MAL	I-----	C.IN.93IN999
AG.BE.VII197	-----I--	C.IN.94IN11246
AG.NG.92NG003	-----I--	C.IN.95IN21068
AGHU.GA.VI354	-----I--	CONSENSUS-D
AGU.CD.Z321	-----I--	D.CD.84Z/R085
AJ.BW.BW2117	-I-----I--	D.CD.ELI
CONSENSUS-B		
B.AU.MBC18	-----	D.CD.NDK
B.AU.MBC200	-----	D.CD.ZZZ6
B.AU.MBC925	-----	D.UG.94UG1141
B.AU.MBCC54	-----	F.I.BE.VI1850
B.AU.MBCC98	-----	F.I.BR.93BR020-1
B.AU.MBCD36	-----	F.I.FI.FIN9363
B.AU.VH	-----	F.I.FR.MP411
BCN.RL42	-----	F2.CM.MP255
B.DE.D31	-----	
B.DE.HAN	-----	
B.FR.HXB2	-----	
B.GA.OYI	-----	
B.GB.CAM1	-----	