

Table S1: The 612 measured proteins in alphabetic order

Gene	Ab	Gene	Ab	Gene	Ab
A2M	alpha-macroglobulin mAb	BMP7	BMP-7	CCL23	CCL23/CKBeta 8-1 mAb
ACAN	Proteoglycan 1 mAb	BMP8B	BMP8b mAb	CCL24	Eotaxin-2 / MPIF-2
ACE	ACE-2	BMPER	CV-2 / Crossveinless-2	CCL25	TECK / CCL25
ACVR1	Activin RIA / ALK-2	BMPR1A	BMPR-IA / ALK-3	CCL26	Eotaxin-3 / CCL26
ACVR1B	Activin RIB / ALK-4	BMPR1B	BMPR-IB / ALK-6	CCL27	CTACK / CCL27
ACVR2A	Activin RIIA	BMPR2	BMPR-II	CCL28	CCL28 / VIC
ADAM17	TACE	BTC	BTC	CCL3	MIP-1a
ADIPOQ	Adiponectin / Acrp30	C1QA	C1q	CCL3L1	LD78beta pAb
AFP	alpha-fetoprotein mAb	C1S	C1s	CCL4	MIP-1b
AGRP	AGRP pAb	C2	C2	CCL5	RANTES
AGT	Angiotensinogen	C3	C3a des Arg	CCL7	MCP-3
ALCAM	ALCAM	C3	C3c	CCL8	MCP-2
AMH	MIS/AMH Propeptide mAb	C3	C3d (neoantigen)	CCR1	CCR1
ANG	Angiogenin	C3AR1	C3aR	CCR2	CCR2
ANGPT1	Angiopoietin-1	C4A	C4 Binding Protein	CCR3	CCR3
ANGPT2	Angiopoietin-2	C4A	C4d (neoantigen)	CCR4	CCR4
ANGPT4	Angiopoietin-4	C4A	C4c	CCR5	CCR5
ANGPTL1	ANGPTL1	C5	SC5b-9	CCR6	CCR6
ANGPTL2	Angiopoietin-like 2	C5	rC5a	CCR7	CCR7
ANGPTL3	ANGPTL3	C5	C5	CCR8	CCR8
ANGPTL4	ANGPTL4	C5	C5b neo-epitope	CCR9	CCR9
ANGPTL7	Angiopoietin-like Factor	C6	C6	CD14	CD14
APLNR	Apelin Receptor	C7	C7	CD163	CD 163
APOB	ApoB	C8A	C8	CD22	Siglec-2/CD22 mAb
APOE	ApoE	C9	C9	CD27	CD27 / TNFRSF7
APP	APP 444-592 mAb (Clone 1)	CARTPT	CART	CD36	CD36
AREG	AR (Amphiregulin)	CCBP2	D6	CD40	CD40 / TNFRSF5
ARTN	Artemin	CCL1	I-309	CD40LG	TNFSF5 / CD154
AXL	Axl	CCL11	Eotaxin / CCL11	CD46	MCP (CD46)
B2M	beta 2 microglobulin mAb	CCL13	MCP-4 / CCL13	CD55	DAF (CD55)
BDNF	Pro-BDNF mAb	CCL14	CCL14 / HCC-1 / HCC-3	CD59	CD59 (MEM43 epitope)
BDNF	BDNF mAb (Clone 1)	CCL15	MIP-1d	CD80	B7-1 / CD80
BGLAP	Osteocalcin	CCL16	HCC-4 / CCL16	CDH5	VE-Cadherin
BMP10	BMP-10 propeptide pAb	CCL17	Tarc	CER1	Cerberus 1
BMP15	BMP-15	CCL18	PARC / CCL18	CFB	Factor Ba
BMP2	BMP-2	CCL19	MIP-3 beta	CFB	Factor Bb (neoantigen)
BMP3	BMP-3	CCL2	MCP-1	CFC1	Cryptic
BMP4	BMP-4	CCL20	MIP-3 alpha	CFD	Factor D
BMP5	BMP-5	CCL21	6Ckine	CFH	Factor H
BMP6	BMP-6	CCL22	MDC	CFI	iC3b (neoantigen)
CFI	Factor I	CXCR3	CXCR3	FGF16	FGF-16
CFP	Factor P	CXCR4	CXCR4 (fusin)	FGF17	FGF-17
CHRD	Chordin pAb	CXCR5	CXCR5 /BLR-1	FGF18	FGF-18
CHRD1	Chordin-Like 1	CXCR6	CXCR6	FGF19	FGF-19
CHRD2	Chordin-Like 2	CYR61	CYR61 mAb	FGF2	FGF Basic
CLEC11A	SCGF/CLEC11a mAb	DCN	Decorin	FGF20	FGF-20

CLU	Clusterin	DEFB1	BD-1	FGF21	FGF-21
CMKLR1	Chem R23	DEFB103A	Beta-Defensin 3 pAb	FGF23	FGF-23
CNTF	CNTF	DEFB4A	beta-Defensin 2	FGF3	FGF3 mAb
CNTFR	CNTF R alpha	DKK1	Dkk-1	FGF4	FGF-4
COL18A1	Endostatin	DKK3	Dkk-3	FGF5	FGF-5
CR1	CR1 (CD35)	DKK4	Dkk-4	FGF6	FGF-6
CR2	CR2 (CD21)	DKKL1	Soggy-1	FGF7	FGF-7 / KGF
CRIM1	CRIM 1	DLK1	Pref-1	FGF8	FGF-8
CRP	CRP	DLL1	DLL1 pAb	FGF9	FGF-9
CSF1	M-CSF	EDA2R	EDA-A2	FGFBP1	FGF-BP
CSF1R	M-CSF R	EDAR	EDAR	FGFR3	FGF R3
CSF2	GM-CSF	EDN1	Endothelin	FGFR4	FGF R4
CSF2RA	GM-CSF R alpha	EGF	EGF	FGFRL1	FGF R5
CSF3	GCSF	EGFR	EGF R / ErbB1	FGL1	Hepassocin
CSF3R	G-CSF R / CD 114	ENG	Endoglin / CD105	FIGF	VEGF-D
CST3	Cystatin C	EPO	Erythropoietin	FLT3LG	Flt-3 Ligand
CTF1	Cardiotrophin-1 / CT-1	ERBB2	ErbB2	FLT4	VEGF R3
CTGF	CTGF / CCN2	ERBB3	ErbB3	FRZB	sFRP-3
CTLA4	CTLA-4 /CD152	ERBB4	ErbB4	FSHB	FSH
CTNNB1	beta-Catenin	EREG	Epiregulin	FST	Follistatin
CX3CL1	Fractalkine	ESM1	Endocan	FSTL1	Follistatin-like 1
CXCL1	GRO	F13A1	Factor XIIIa mAb	FSTL3	FLRG
CXCL10	IP-10	F3	Coag. Factor III / TF	FTL	Ferritin mAb (heavy&light)
CXCL11	I-TAC / CXCL11	F5	Factor V pAb	FURIN	Furin mAb
CXCL12	SDF-1 / CXCL12	FAM3B	FAM3B	FUT4	CD15 mAb
CXCL13	BLC / BCA-1 / CXCL13	FAS	Fas / TNFRSF6	FZD1	Frizzled-1
CXCL14	CXCL14 / BRAK	FASLG	Fas Ligand	FZD3	Frizzled-3
CXCL16	CXCL16	FBLN5	DANCE	FZD4	Frizzled-4
CXCL2	MIP 2	FGA	Fibrinogen alpha	FZD5	Frizzled-5
CXCL5	ENA-78	FGF1	FGF acidic mAb	FZD6	Frizzled-6
CXCL6	GCP-2 / CXCL6	FGF10	FGF-10 / KGF-2	FZD7	Frizzled-7
CXCL9	MIG	FGF11	FGF-11	GALP	GALP
CXCR1	CXCR1 / IL-8 RA	FGF12	FGF-12	GC	Vitamin D binding protein mAb
CXCR2	CXCR2 / IL-8 RB	FGF13	FGF-13 1B	GCG	Glucagon
GDF1	GDF1	IFNG	IFN-gamma	IL1B	IL-1 beta
GDF10	BMP-3b / GDF-10	IFNGR1	IFN-gamma R1	IL1F10	IL-1 F10 / IL-1HY2
GDF11	GDF11	IGF1	IGF-I	IL1F5	IL-1 F5 / FIL1delta
GDF15	GDF-15	IGF1R	IGF-I SR	IL1F6	IL-1 F6 / FIL1 epsilon
GDF2	BMP-9 mAb	IGF2	IGF-II	IL1F7	IL-1 F7 / FIL1 zeta
GDF3	GDF3	IGF2R	IGF-II R	IL1F8	IL-1 F8 / FIL1 eta
GDF5	GDF5	IGFBP1	IGFBP-1	IL1F9	IL-1 F9 / IL-1 H1
GDF6	BMP-13 pAb	IGFBP2	IGFBP-2	IL1R1	IL-1 sRI
GDF9	GDF9	IGFBP3	IGFBP-3	IL1R2	IL-1 sRII
GDNF	GDNF	IGFBP4	IGFBP-4	IL1RAP	IL-1 R3 / IL-1 R AcP
GFRA1	GFR alpha-1	IGFBP6	IGFBP-6	IL1RAPL1	IL-1 R8
GFRA2	GFR alpha-2	IGFBP7	IGFBP-rp1 / IGFBP-7	IL1RAPL2	IL-1 R9
GFRA3	GFR alpha-3	IL10	IL-10	IL1RL1	IL-1 R4 /ST2
GFRA4	GFR alpha-4	IL10RA	IL-10 R alpha	IL1RL2	IL-1 R6 / IL-1 Rrp2

GH1	Growth Hormone (GH)	IL10RB	IL-10 R beta	IL1RN	IL-1 ra
GHR	Growth Hormone R (GHR)	IL11	IL-11	IL2	IL-2
GHRL	Ghrelin	IL12A	IL-12 p70	IL20	IL-20
GP1BA	GPIb alpha mAb	IL12B	IL-12 p40	IL20RA	IL-20 R alpha
GPC3	Glypican 3	IL12RB1	IL-12 R beta 1	IL20RB	IL-20 R beta
GPC5	Glypican 5	IL12RB2	IL-12 R beta 2	IL21	IL-21
GPNMB	Osteoactivin / GPNMB	IL13	IL-13	IL21R	IL-21 R
GPR39	Obestatin R (GPR-39)	IL13RA1	IL-13 R alpha 1	IL22	IL-22
GPR44	CRTH-2	IL13RA2	IL-13 R alpha 2	IL22RA1	IL-22 R
GPX3	Glutathione peroxidase 3	IL15	IL-15	IL22RA2	IL-22 BP
GREM1	GREMLIN	IL15RA	IL-15 R alpha	IL23A	IL-23
GRN	Progranulin pAb (0.5 mg/ml)	IL16	IL-16	IL23R	IL-23 R
GRN	Progranulin	IL17A	IL-17	IL24	IL-24
GZMA	Granzyme A	IL17B	IL-17B	IL25	IL-17E
HBEGF	HB-EGF	IL17C	IL-17C	IL26	IL-26
HGF	HGF	IL17D	IL-17D	IL27	IL-27
HP	Haptoglobin mAb	IL17F	IL-17F	IL27RA	TCCR / WSX-1
HPX	Hemopexin mAb	IL17RA	IL-17R	IL28A	IL-28A
IAPP	Amylin	IL17RB	IL-17B R	IL29	IL-29
ICAM1	ICAM-1	IL17RC	IL-17RC	IL2RA	IL-2 R alpha
ICAM2	ICAM-2	IL17RD	IL-17RD	IL2RB	IL-2 R beta /CD122
ICAM5	ICAM-5	IL18BP	IL-18 BPa	IL2RG	IL-2 R gamma
IDE	Insulysin / IDE	IL18R1	IL-18 R alpha /IL-1 R5	IL3	IL-3
IFNAR1	IFN-alpha / beta R1	IL18RAP	IL-18 R beta /AcPL	IL31	IL-31
IFNAR2	IFN-alpha / beta R2	IL19	IL-19	IL31RA	IL-31 RA
IFNB1	IFN-beta	IL1A	IL-1 alpha	IL32	IL-32 alpha mAb
IL3RA	IL-3 R alpha	LIF	LIF	NBL1	DAN
IL4	IL-4	LIFR	LIF R alpha	NCAM1	NCAM-1 / CD56
IL4R	IL-4 R	LOX	LOX	NGF	beta-NGF
IL5	IL-5	LRP1	LRP-1	NGFR	NGF R
IL5RA	IL-5 R alpha	LRP6	LRP-6	NLGN2	Neuroigin 2 pAb
IL6	IL-6	LTA	TNF-beta	NLGN3	Neuroigin 3 mAb
IL6R	IL-6 R	LTB	Lymphotoxin beta / TNFSF3	NLGN4X	Neuroigin 4 (X/Y) mAb
IL6ST	sgp130	LTBP1	Latent TGF-beta bp1	NODAL	Nodal pAb
IL7	IL-7	LTBR	Lymphotoxin beta R / TNFRSF3	NOG	Noggin mAb
IL7R	IL-7 R alpha	MASP1	MASP1 pAb	NOV	NOV / CCN3
IL8	IL-8	MASP2	MASP2 pAb	NPY	Neuropeptide Y pAb
IL9	IL-9	MBL2	MBL	NRG1	NRG1 Isoform GGF2
INHBA	Inhibin A	MDK	Midkine pAb	NRG1	NRG1-beta1 / HRG1-beta1
INHBA	Activin A	MET	HGFR	NRG1	HRG-alpha
INHBB	Inhibin B	MFGE8	MFG-E8	NRG2	NRG2
INHBB	Activin B	MFRP	MFRP	NRG3	NRG3
INHBC	Activin C	MIA	MIA mAb	NRN1	Neuritin
INS	Insulin	MIF	MIF	NRP2	Neuropilin-2
INSL3	INSL3	MME	Neprilysin pAb	NRTN	Neurturin
INSR	Insulin R	MMP1	MMP-1	NRXN2	Neurexin II alpha pAb
INSRR	INSRR	MMP10	MMP-10	NRXN3	Neurexin III alpha pAb
ITGAL	LFA-1 alpha	MMP11	MMP-11 /Stromelysin-3	NTF3	NT-3

ITGAM	MAC-1	MMP12	MMP-12	NTF4	NT-4
ITGB2	CD18	MMP13	MMP-13	NTN1	Netrin1 pAb
JAG1	Jagged 1 mAb	MMP14	MMP-14	NTN4	Netrin 4 mAb
KDR	VEGF R2 (KDR)	MMP15	MMP-15	OSM	OSM
KIT	SCF R /CD117	MMP16	MMP-16 / MT3-MMP	OSTN	Osteocrin
KITLG	SCF	MMP19	MMP-19	OTOR	Otoraplin pAb
KNG1	Kininostatin / kininogen	MMP2	MMP-2	PDGFA	PDGF-AA
KREMEN1	Kremen-1	MMP20	MMP-20	PDGFA	PDGF-AB
KREMEN2	Kremen-2	MMP24	MMP-24 / MT5-MMP	PDGFB	PDGF-BB
LBP	LBP	MMP25	MMP-25 / MT6-MMP	PDGFC	PDGF-C
LCN1	Lipocalin-1	MMP3	MMP-3	PDGFD	PDGF-D
LECT2	LECT2	MMP7	MMP-7	PDGFRA	PDGF R alpha
LEFTY2	Lefty - A	MMP8	MMP-8	PDGFRB	PDGF R beta
LEP	Leptin (OB)	MMP9	MMP-9	PECAM1	PECAM-1 /CD31
LEPR	Leptin R	MST1	MSP beta-chain	PF4	PF4 / CXCL4
LGALS1	Galectin -1	MST1	MSP alpha Chain	PGF	PIGF
LGALS3	Galectin-3	MSTN	GDF8	PHB	Prohibitin
LHB	Luteinizing Hormone	MUSK	Musk	PLAU	uPA
PLAUR	uPAR	SLC2A2	Glut2	TNC	Tenascin C pAb
PLG	Angiostatin	SLC2A5	Glut5	TNF	TNF-alpha
PLIN2	ADFP	SLPI	SLPI	TNFAIP6	TSG-6
PLUNC	PLUNC	SORL1	SorL1 pAb	TNFRSF10A	TRAILR1 / DR4 / TNFRSF10A
POMC	ACTH	SOST	SOST mAb	TNFRSF10B	TRAILR2 / DR5 / TNFRSF10B
PPBP	NAP2 pAb	SPARC	Osteonectin	TNFRSF10C	TRAILR3 / TNFRSF10C
PRL	Prolactin	SPN	ACE / CD43	TNFRSF10D	TRAILR4 / TNFRSF10D
PRNP	Prion protein Prp pAb	SPP1	Osteopontin mAb	TNFRSF11A	RANK / TNFRSF11A
PROK1	EG-VEGF / PK1	SST	Somatostatin pAb	TNFRSF11B	Osteoprotegerin / TNFRSF11B
PSPN	Persephin	TDGF1	Cripto-1	TNFRSF13B	TACI / TNFRSF13B
PTHLH	PTHLH pAb	TEK	Tie-2	TNFRSF13C	BAFF R / TNFRSF13C
PTN	Pleiotrophin pAb	TF	Transferrin mAb	TNFRSF14	HVEM / TNFRSF14
PTX3	Pentraxin3 / TSG-14	TFF2	TFF2 mAb	TNFRSF17	BCMA / TNFRSF17
PYY	PYY	TFF3	TFF3 mAb	TNFRSF18	GITR / TNFRF18
RBP4	RBP4	TFPI	TFPI	TNFRSF19	TROY / TNFRSF19
RELN	Reelin (G-20) pAb	TGFA	TGF-alpha	TNFRSF1A	TNF RI / TNFRSF1A
RELT	RELT / TNFRSF19L	TGFB1	LAP (TGF-B1)	TNFRSF1B	TNF RII / TNFRSF1B
RETN	Resistin	TGFB1	TGF-B1 mAb	TNFRSF21	DR6 / TNFRSF21
RETNLB	RELM beta	TGFB2	TGF-beta 2	TNFRSF25	TWEAK R / TNFRSF12
ROBO4	ROBO4	TGFB3	TGF-beta 3	TNFRSF6B	DcR3 / TNFRSF6B
S1PR1	EDG-1	TGFBR1	TGF-beta RI / ALK-5	TNFRSF8	CD30 / TNFRSF8
SAA1	SAA	TGFBR2	TGF-beta RII	TNFRSF9	CD137 / 4-1BB
SDC3	Syndecan-3	TGFBR3	TGF-beta RIII	TNFSF10	TRAIL / TNFSF10
SELE	E-Selectin	THBS1	Thrombospondin (TSP)	TNFSF11	TRANCE
SELL	L-Selectin (CD62L)	THBS2	Thrombospondin-2	TNFSF12	TWEAK / TNFSF12
SELP	P-selectin	THBS4	Thrombospondin-4	TNFSF13	APRIL
SEMA3A	SEMA3A	THPO	Thrombopoietin (TPO)	TNFSF13B	BAFF/BLYS/TNFSF13B mAb
SERPINA1	alpha 1 antitrypsin pAb	TIE1	Tie-1	TNFSF14	LIGHT / TNFSF14
SERPINA12	Vaspin	TIMP1	TIMP-1	TNFSF15	VEGI / TNFSF15
SERPINF1	PEDF	TIMP2	TIMP-2	TNFSF18	GITR Ligand / TNFSF18

SERPING1	C1Inhib	TIMP3	TIMP-3	TNFSF4	OX40 Ligand / TNFSF4
SFRP1	sFRP-1	TIMP4	TIMP-4	TNFSF8	CD30 Ligand / TNFSF8
SFRP4	sFRP-4	TLR1	TLR1	TNFSF9	4-1BB ligand/TNFSF9 mAb
SHBG	SHBG mAb	TLR2	TLR2	TREM1	TREM-1
SHH	Sonic Hedgehog (Shh N-terminal)	TLR3	TLR3	TSHB	TSH
SIGIRR	SIGIRR	TLR4	TLR4	TSLP	TSLP
SIGLEC5	Siglec-5/CD170	TMEFF1	TMEFF1 / Tomoregulin-1	TYMP	PD-ECGF
SIGLEC9	Siglec-9	TMEFF2	TMEFF2	TYRO3	Dtk
SLC2A1	Glut1	TMPO	Thymopoietin	VASN	Vasorin
SLC2A14	Glut3	TMPRSS5	Spinesin	VCAM1	VCAM-1 (CD106)
VEGFA	VEGF				
VEGFB	VEGF-B				
VEGFC	VEGF-C				
VTN	S Protein (Vitronectin)				
VWF	von Willebrand Factor A2 mAb				
WFIKKN1	GASP-2 / WFIKKN				
WIF1	WIF-1				
WISP1	WISP-1 / CCN4				
WISP2	WISP2 pAb				
WISP3	WISP3 pAb				
WNT3A	Wnt3a pAb				
XCL1	Lymphotactin / XCL1				

The 612 signaling proteins in alphabetic order based on their HUGO gene names and their commercial antibody names. Some proteins/genes have multiple antibodies, if antibodies exist against distinct protein modifications or precursors with potentially different biological functions (e.g. C3 or TGFB1).

Table S2: HIV infected patients used for Communicome analysis

Group	Age (years)	Gender (M/F)	Viral Load (plasma RNA copies/ml)	CD4 count (cells/mm ³)	CTL Breadth	CTL Magnitude	Proviral	Communicome	RT-PCR
HIV-Low 01	34	M	950	608	17	14,330	163.6	Analyzed	Analyzed
HIV-Low 02	56	F	<50	873	12	22,850	16	Analyzed	Analyzed
HIV-Low 03	41	M	<50	616	78	46,330	ND	Analyzed	ND
HIV-Low 04	35	M	9,999	438	27	24,300	317.7	Analyzed	Analyzed
HIV-Low 05	46	M	1,100	485	52	66,380	76.7	Analyzed	Analyzed
HIV-Low 06	46	F	<50	1,083	15	13,280	6.7	Analyzed	Analyzed
HIV-Low 07	40	M	210	786	11	3,820	ND	Analyzed	ND
HIV-Low 08	48	F	8,900	913	49	36,910	412.5	Analyzed	Analyzed
HIV-Low 09	28	M	1,000	889	24	11,700	ND	Analyzed	ND
HIV-Low 10	37	M	810	665	15	30,085	ND	Analyzed	ND
HIV-Low 11	37	F	1,800	511	50	32,241	180.8	Analyzed	Analyzed
HIV-Low 12	50	F	<50	487	69	45,658	9.1	Analyzed	Analyzed
HIV-Low 13	40	F	340	832	44	45,007	294.3	Analyzed	Analyzed
HIV-Low 14	37	F	<50	665	10	8,500	25.7	Analyzed	Analyzed
HIV-Low 15	38	M	160	512	29	48,160	ND	Analyzed	ND
HIV-Low 16	33	M	530	948	24	26,890	25.8	Analyzed	Analyzed
HIV-Low 17	34	M	4,300	587	14	4,640	ND	Analyzed	ND
HIV-Low 18	29	M	<50	892	9	3,220	0	Analyzed	Analyzed
HIV-Low 19	27	M	7,700	733	47	24,198	ND	Analyzed	ND
HIV-Low 20	45	F	2,900	582	63	42,517	278.5	Analyzed	Analyzed
HIV-Low 21	30	F	<50	1,114	17	8,200	ND	Analyzed	ND
HIV-Low 22	46	F	2,800	434	ND	ND	32.5	Analyzed	Analyzed
HIV-Low 23	38	M	<50	583	30	13,041	90.4	Analyzed	Analyzed
HIV-Low 24	26	M	2,300	642	27	44,150	49.1	Analyzed	Analyzed
HIV-Low 25	42	M	5,600	531	40	27,660	ND	Analyzed	ND
HIV-Low 26	44	M	50	872	35	16,229	6.2	Analyzed	Analyzed
HIV-Low 27	48	M	50	657	ND	ND	ND	Analyzed	ND
HIV-Low 28	41	F	<50	672	7	1,530	20.9	Analyzed	Analyzed
HIV-Low 29	50	F	50	1,228	22	25,600	0	Analyzed	Analyzed
HIV-Low 30	46	M	66	755	ND	ND	28.6	Analyzed	Analyzed
HIV-Low 31	51	M	<50	450	ND	ND	41.5	Analyzed	Analyzed
HIV-Low 32	48	F	230	516	39	15,810	15.9	Analyzed	Analyzed
HIV-Low 33	43	M	330	1,237	15	5,490	31.3	Analyzed	Analyzed
HIV-Low 34	40	F	1,500	1,084	ND	ND	ND	Analyzed	ND
HIV-Low 35	48	M	50	601	ND	ND	18.4	Analyzed	Analyzed
HIV-Low 36	35	F	<50	930	5	660	11.5	Analyzed	Analyzed
HIV-Low 37	36	F	880	1,343	9	2,630	12.1	Analyzed	Analyzed
HIV-Low 38	40	F	4,800	569	16	6,580	153.5	Analyzed	ND
HIV-Low 39	57	F	50	485	10	5,390	ND	Analyzed	ND
HIV-Low 40	45,8	M	1,700	742	ND	ND	ND	Analyzed	ND
HIV-Low 41	48	M	<50	593	ND	ND	ND	Analyzed	ND
HIV-Low 42	31	M	9,756	404	10	1,850	620.7	Analyzed	ND
HIV-Low 43	29	M	5,624	823	29	8,170	1,662.4	Analyzed	Analyzed
HIV-Low 45	41	M	6,127	531	14	2,300	50.2	Analyzed	Analyzed
HIV-Low 46	34	M	400	1,035	4	730	220.1	Analyzed	Analyzed
HIV-Low 47	33	F	7,923	524	2	480	366.5	Analyzed	Analyzed
HIV-Low 48	30	F	8,858	289	4	1,780	ND	Analyzed	ND
HIV-Low 49	39	F	4,424	419	16	4,290	ND	Analyzed	ND
HIV-Low 50	30	M	4,482	1,151	10	2,610	0	Analyzed	Analyzed
HIV-High 01	21	F	269,431	212	8	1,150	4.2	Analyzed	ND
HIV-High 02	28	F	74,922	571	4	280	ND	Analyzed	ND
HIV-High 03	27	F	108,103	369	13	6,240	ND	Analyzed	ND
HIV-High 06	37	F	140,000	11	15	19,650	231.9	Analyzed	Analyzed
HIV-High 07	40	F	64,000	282	12	4,415	922.6	Analyzed	Analyzed
HIV-High 08	45	F	86,000	90	50	49,480	ND	Analyzed	ND
HIV-High 09	24	F	610,000	128	15	4,428	1,722.4	Analyzed	Analyzed
HIV-High 10	47	F	510,000	33	18	8,400	ND	Analyzed	ND
HIV-High 11	33	F	1,200,000	75	15	20,050	80.1	Analyzed	Analyzed
HIV-High 12	50	F	54,000	67	7	2,040	363.6	Analyzed	Analyzed
HIV-High 13	42	F	1,100,000	283	21	41,420	ND	Analyzed	ND
HIV-High 14	45	F	68,000	98	12	9,420	ND	Analyzed	ND
HIV-High 15	44	F	510,000	12	10	2,100	ND	Analyzed	ND
HIV-High 16	21	M	80,328	437	23	19,940	ND	Analyzed	ND
HIV-High 17	22	M	152,554	293	8	1,340	3,143.4	Analyzed	ND
HIV-High 18	22	M	53,299	356	14	3,450	ND	Analyzed	ND
HIV-High 19	23	M	70,393	208	10	11,530	223.7	Analyzed	ND
HIV-High 20	23	M	55,733	340	4	1,320	ND	Analyzed	ND
HIV-High 21	23	M	50,295	505	7	3,910	1,176.5	Analyzed	Analyzed
HIV-High 22	23	M	240,039	388	ND	ND	1,144.6	Analyzed	Analyzed
HIV-High 23	24	M	93,928	256	1	50	3,246.6	Analyzed	Analyzed
HIV-High 24	24	M	365,977	726	35	18,535	1,204.6	Analyzed	Analyzed
HIV-High 25	24	M	150,176	407	10	2,434	ND	Analyzed	ND
HIV-High 26	25	M	60,467	634	16	8,080	ND	Analyzed	ND
HIV-High 27	26	M	750,000	239	28	9,900	941.4	Analyzed	ND

HIV-High 28	27	M	54,304	704	20	102.00	ND	Analyzed	ND
HIV-High 29	28	M	216,105	313	15	3,480	3,021.1	Analyzed	ND
HIV-High 30	28	M	327,087	544	10	5,790	2,127.2	Analyzed	Analyzed
HIV-High 31	29	M	418,022	253	15	4,790	ND	Analyzed	ND
HIV-High 32	29	M	125,701	404	9	6,320	ND	Analyzed	ND
HIV-High 33	30	M	>750,000	244	7	1,980	ND	Analyzed	ND
HIV-High 34	30	M	61,078	380	22	27,750	558.4	Analyzed	Analyzed
HIV-High 35	31	M	194,091	271	7	590	1,962.5	Analyzed	Analyzed
HIV-High 36	31	M	85,102	365	11	5,350	ND	Analyzed	ND
HIV-High 38	32	M	57,021	480	14	16,140	ND	Analyzed	ND
HIV-High 39	32	M	170,000	17	83	145,250	507	Analyzed	Analyzed
HIV-High 40	33	M	320,000	192	51	21,200	ND	Analyzed	ND
HIV-High 41	33	M	97,483	451	21	36,010	ND	Analyzed	ND
HIV-High 42	35	M	71,739	227	5	690	1,562.5	Analyzed	ND
HIV-High 43	35	M	95,365	240	5	660	3,149.2	Analyzed	Analyzed
HIV-High 44	35	M	102,936	283	35	12,790	1,346.3	Analyzed	Analyzed
HIV-High 45	35	M	63,381	384	44	46,800	1,128.7	Analyzed	Analyzed
HIV-High 46	36	M	126,557	364	23	32,690	ND	Analyzed	ND
HIV-High 47	37	M	61,000	80	0	0	ND	Analyzed	ND
HIV-High 48	37	M	61,011	641	3	930	ND	Analyzed	ND
HIV-High 49	37	M	140,000	20	35	7,060	ND	Analyzed	ND
HIV-High 50	38	M	544,275	402	33	22,080	ND	Analyzed	ND

ND: Not determined

CTL_B: Number of reactive peptides

CTL_M: Median of SFC per 10⁶ PBMC

M: Male

F: Female

Table S3: Independent cohorts used for ELISA and RT-PCR validation

	Group	Age (years)	Gender (M/F)	Viral Load (RNA copies/ml)	CD4 count (cells/mm3)	Proviral	Time pre HIV infection and pre or post (cART treatment) (days)	ELISA	RT-PCR
Seronegatives	Seroneg_01	35	M	NA	NA	ND	-120	Analyzed	ND
	Seroneg_02	30	M	NA	NA	1245.8	-60	Analyzed	Analyzed
	Seroneg_03	21	M	NA	NA	4.8	-60	Analyzed	Analyzed
	Seroneg_04	24	M	NA	NA	ND	-60	Analyzed	ND
	Seroneg_05	34	M	NA	NA	384.2	-90	Analyzed	Analyzed
	Seroneg_06	33	M	NA	NA	5.9	-60	Analyzed	Analyzed
	Seroneg_07	32	M	NA	NA	16.9	-60	Analyzed	Analyzed
	Seroneg_08	27	M	NA	NA	0	-60	Analyzed	Analyzed
Chronics HIV infected	Chr-Untreat-5	46	M	4,900	462	175.5	-12	Analyzed	Analyzed
	Chr-Untreat-6	40	M	15,000	504	281.6	-11	Analyzed	Analyzed
	Chr-Untreat-11	28	F	15,000	456	549.8	-146	Analyzed	Analyzed
	Chr-Untreat-12	44	M	50,000	629	222.2	-90	Analyzed	Analyzed
	Chr-Untreat-14	29	M	13,284	661	8.5	-49	Analyzed	ND
	Chr-Untreat-15	37	M	8,110	432	317.5	-36	Analyzed	Analyzed
	Chr-treat-5	47	M	<50	532	52.3	329	Analyzed	Analyzed
	Chr-treat-9	33	M	<25	460	387.5	367	Analyzed	Analyzed
	Chr-treat-11	30	F	<25	786	191.4	480	Analyzed	Analyzed
	Chr-treat-12	45	M	<50	558	43	367	Analyzed	Analyzed
	Chr-treat-13	36	F	<40	720	115.9	347	Analyzed	Analyzed
	Chr-treat-15	38	M	<40	659	89.3	474	Analyzed	Analyzed
	Chronics HIV infected Controllers	VC_01	45	F	790	588	466.6	N.A	Analyzed
VC_02		40	M	55	1,014	27.1	N.A	Analyzed	Analyzed
VC_03		48	M	1,978	1,840	9.4	N.A	Analyzed	Analyzed
VC_04		36	F	374	594	74.9	N.A	Analyzed	Analyzed
VC_05		38	M	972	405	38.2	N.A	Analyzed	Analyzed
VC_06		44	F	1,300	510	64.4	N.A	Analyzed	Analyzed
VC_07		47	M	1,200	680	35.4	N.A	Analyzed	Analyzed
VC_08		47	M	1,500	538	324.9	N.A	Analyzed	Analyzed
VC_09		41	M	200	603	56.5	N.A	Analyzed	Analyzed
VC_10		54	M	480	540	75.7	N.A	Analyzed	Analyzed
VC_11		52	F	1,600	448	201.8	N.A	Analyzed	Analyzed
EC_01		31	F	<25	922	0	N.A	Analyzed	Analyzed
EC_03		40	F	<40	752	8.5	N.A	Analyzed	Analyzed
EC_04		46	F	<25	1,557	5.6	N.A	Analyzed	Analyzed
EC_05		43	F	<25	372	4.3	N.A	Analyzed	Analyzed
EC_06		59	M	<25	411	11.1	N.A	Analyzed	Analyzed
EC_07		40	F	<25	245	180.2	N.A	Analyzed	Analyzed
EC_09		40	F	56	898	3.8	N.A	Analyzed	Analyzed
EC_10	50	M	<25	450	0	N.A	Analyzed	Analyzed	
EC_12	46	M	<25	940	3.4	N.A	Analyzed	Analyzed	
EC_13	52	M	<25	667	0	N.A	Analyzed	Analyzed	
EC_15	53	M	<25	959	20.8	N.A	Analyzed	Analyzed	
EC_18	55	F	<50	838	23.8	N.A	Analyzed	Analyzed	

ND: Not determined
M: Male
F: Female

