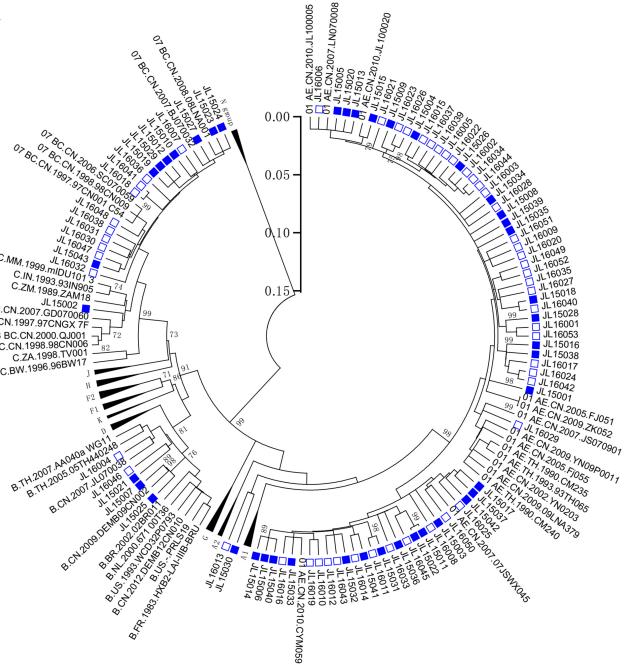
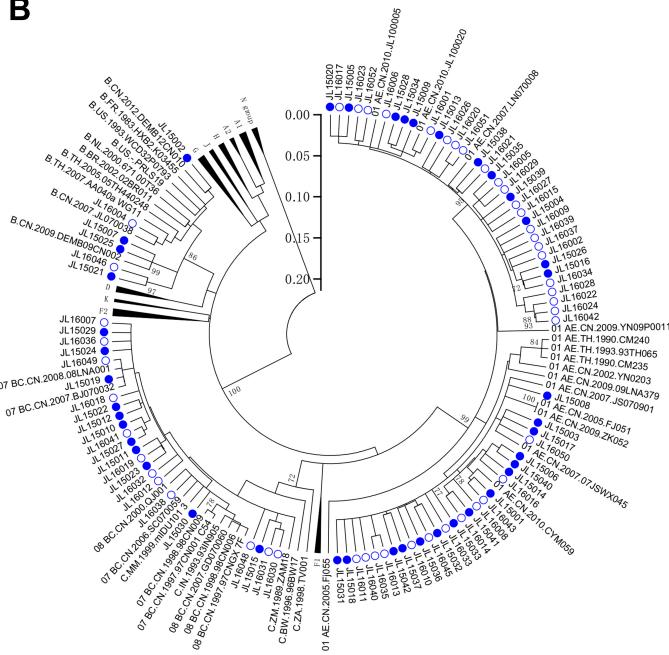


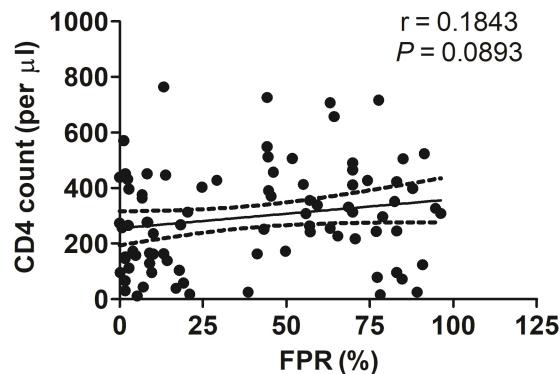
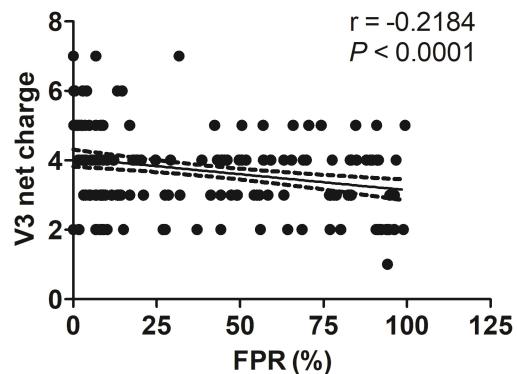
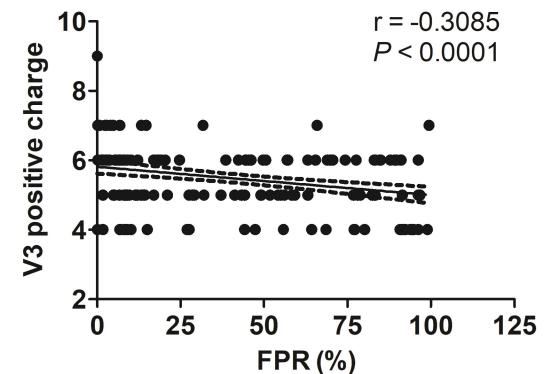
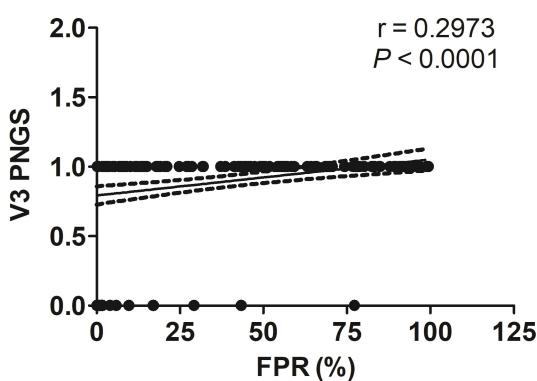
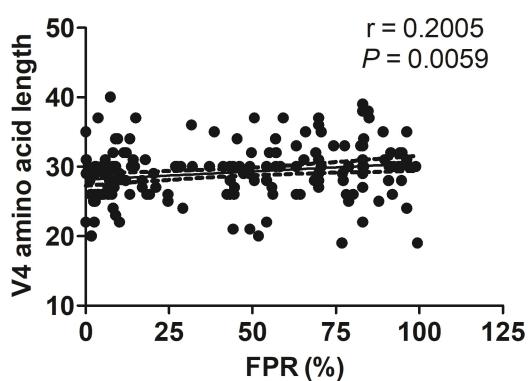
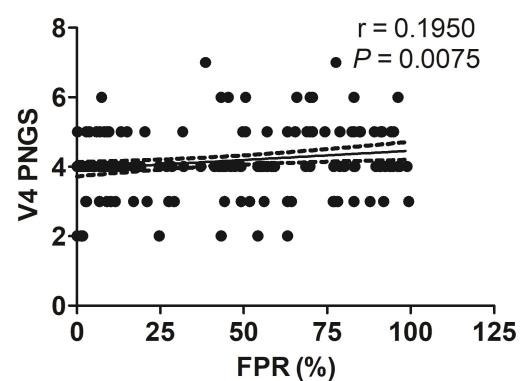
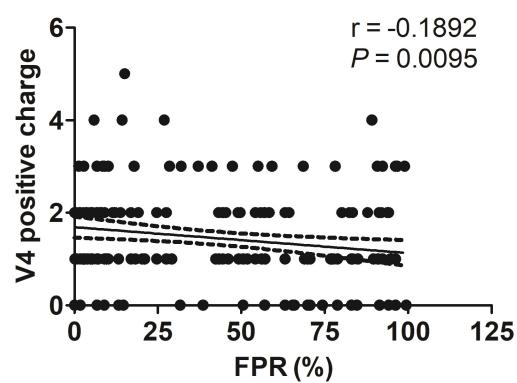
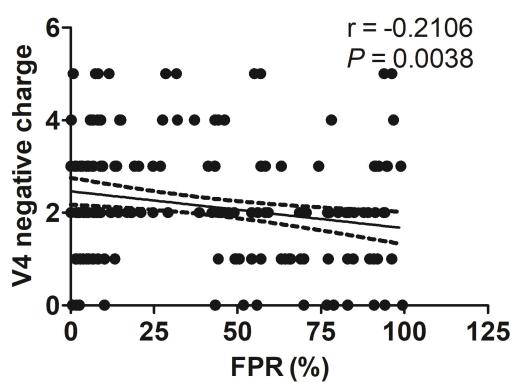
A



B



**Figure S1. Genotype identification of HIV-1 isolates from newly diagnosed patients in Northeast China.** Phylogenetic trees were constructed with 96 gag (A), 91 env (B) sequences and corresponding subtype references, respectively, in Mega 6.06 software using the neighbor-joining method based on Kimura two-parameter model. Bootstrap analysis was conducted with 1000 replications, and only bootstrap values greater than 70% was shown. The blue solid and empty signs indicated the sequences collected in 2015 and 2016, respectively.

**A****B****C****D****E****F****G****H**

**Figure S2. Factors associated with the coreceptor usage of HIV-1 isolates in Northeast China.** Correlation analyses between FPR value and CD4 cell count (A), the numbers of net charges (B), positive charges (C) and PNGSs (D) in V3 region and the amino acid length (E), the numbers of PNGSs (F), positive (G) and negative (H) charges in V4 region were done.  $r$ , correlation coefficient.

**Table S1 Genotype and risk group distribution of Jilin viruses**

	Sampling year [case (%)]				Total (n = 310)
	Before 2007 (n = 39)	2007 (n = 3)	2010-2012 (n = 172)	2015-2016 (n = 96) <sup>a</sup>	
<b>Genotype</b>					
CRF01_AE <sup>b</sup>	0 (0.0)	0 (0.0)	92 (53.5)	64 (66.7)	156 (50.3)
Subtype B	39 (100)	1 (33.3)	35 (20.4)	5 (5.2)	80 (25.8)
CRF07_BC/CRF08_BC/ C	0 (0.0)	0 (0.0)	26 (15.1)	18 (18.7)	44 (14.2)
CRF02_AG	0 (0.0)	0 (0.0)	5 (2.9)	0 (0.0)	5 (1.6)
URF <sup>c</sup>	0 (0.0)	2 (66.7)	14 (8.1)	9 (9.4)	25 (8.1)
<b>Risk group</b>					
MSM <sup>d</sup>	0 (0.0)	1 (33.3)	96 (55.8)	70 (72.9)	167 (53.9)
Heterosexual	0 (0.0)	1 (33.3)	60 (34.9)	11 (11.5)	72 (23.3)
Bisexual	0 (0.0)	0 (0.0)	0 (0.0)	2 (2.1)	2 (0.6)
Nosocomial	0 (0.0)	0 (0.0)	10 (5.8)	0 (0.0)	10 (3.2)
IDU <sup>e</sup>	0 (0.0)	0 (0.0)	4 (2.3)	0 (0.0)	4 (1.3)
Mother-to-child	0 (0.0)	0 (0.0)	1 (0.6)	0 (0.0)	1 (0.3)
Unknown	39 (100)	1 (33.4)	1 (0.6)	13 (13.5)	54 (17.4)

<sup>a</sup>, viruses identified in this study; <sup>b</sup> CRF, circulating recombinant form; <sup>c</sup> URF, unique recombinant form; <sup>d</sup> MSM, men who have sex with men; <sup>e</sup>

IDU, intravenous drug user.







**Table S3 Virological and clinical information of 214 Jilin reference sequences from HIV database**

Sequence Name	Genbank accession number	Subtype	Sampling Year	CD4 count	Gender	Risk Factor	Gene region
CNJL12	AY548241	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL13	AY548242	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL14	AY548243	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL16	AY548244	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL18	AY548281	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL19	AY548245	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL20	AY548246	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL21	AY548247	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL22	AY548248	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL27	AY548249	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL29	AY548250	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL3	AY548236	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL30	AY548282	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL31	AY548251	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL33	AY548289	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL35	AY548252	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL36	AY548283	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL38	AY548253	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL4	AY548237	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL40	AY548284	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL41	AY548254	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL43	AY548285	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL44	AY548255	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL46	AY548256	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL48	AY548257	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL50	AY548258	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL51	AY548286	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL53	AY548259	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL54	AY548260	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL55	AY548287	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL56	AY548261	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL57	AY548288	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL59	AY548262	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL6	AY548280	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL60	AY548263	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL61	AY548264	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL7	AY548238	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL8	AY548239	B	2004	Not recorded	Not recorded	Not recorded	pol
CNJL9	AY548240	B	2004	Not recorded	Not recorded	Not recorded	pol
JL070032	KC990127	01&07	2007	Not recorded	Male	Male Sex with Male	NFLG*
JL070038	JF932490	B	2007	Not recorded	Not recorded	Not recorded	NFLG
JL070009	KC990126	CRF61_BC	2007	Not recorded	Female	Heterosexual	NFLG
JL.RF01	KF850149	CRF96_cpx	2010	413	Male	Heterosexual	NFLG
JL.RF02	KF818774	01B	2010	Not recorded	Male	Male Sex with Male	env
JL.RF03	KJ184176	01&07	2010	Not recorded	Not recorded	Heterosexual	NFLG
JL.RF04	KF818776	01C	2010	Not recorded	Not recorded	Heterosexual	env
JL.RF05	KJ184177	01BC	2010	Not recorded	Not recorded	Heterosexual	NFLG
JL.RF06	KF818778	01C	2010	Not recorded	Not recorded	Heterosexual	env
JL.RF07	KF859773	01B	2010	Not recorded	Male	Male Sex with Male	NFLG
JL100005	JX112846	CRF01_AE	2010	Not recorded	Not recorded	Heterosexual	NFLG
JL100007	JX112847	CRF01_AE	2010	Not recorded	Male	Male Sex with Male	NFLG
JL100010	KC990124	CRF61_BC	2010	Not recorded	Male	Heterosexual	NFLG
JL100014	JX112848	CRF01_AE	2010	Not recorded	Not recorded	Heterosexual	NFLG
JL100020	JX112849	CRF01_AE	2010	Not recorded	Male	Male Sex with Male	NFLG
JL100021	KF818788	CRF01_AE	2010	Not recorded	Male	Male Sex with Male	gag
JL100022	KF818789	CRF01_AE	2010	Not recorded	Not recorded	Heterosexual	gag
JL100024	KF818790	C	2010	Not recorded	Male	Male Sex with Male	gag





JL1014	KJ544524	B	2012	Not recorded	Male	Heterosexual	pol
JL1024	KJ544525	CRF01_AE	2012	Not recorded	Male	Heterosexual	pol
JL1030	KJ544526	B	2012	Not recorded	Female	Nosocomial	pol
JL1035	KJ544527	CRF01_AE	2012	Not recorded	Male	Male Sex with Male	pol
JL1038	KJ544528	B	2012	Not recorded	Female	Heterosexual	pol
JL1041	KJ544529	CRF01_AE	2012	Not recorded	Male	Heterosexual	pol
JL1057	KJ544530	B	2012	Not recorded	Male	Heterosexual	pol
JL1062	KJ544531	CRF01_AE	2012	Not recorded	Male	Male Sex with Male	pol
JL1064	KJ544532	B	2012	Not recorded	Male	Male Sex with Male	pol
JL1067	KJ544533	B	2012	Not recorded	Female	Heterosexual	pol
JL2005	KJ544534	CRF61_BC	2012	Not recorded	Male	Heterosexual	pol
JL2006	KJ544535	CRF61_BC	2012	Not recorded	Female	Heterosexual	pol
JL2012	KJ544536	CRF02_AG	2012	Not recorded	Female	Heterosexual	pol
JL2027	KJ544537	B	2012	Not recorded	Male	Heterosexual	pol
JL2036	KJ544538	C	2012	Not recorded	Male	Male Sex with Male	pol
JL2048	KJ544539	C	2012	Not recorded	Male	Heterosexual	pol
JL2061	KJ544540	CRF01_AE	2012	Not recorded	Male	Male Sex with Male	pol
JL2065	KJ544541	CRF01_AE	2012	Not recorded	Male	Heterosexual	pol
JL2072	KJ544542	B	2012	Not recorded	Male	Male Sex with Male	pol
JL2076	KJ544543	C	2012	Not recorded	Male	IV Drug User	pol
JL2084	KJ544544	CRF01_AE	2012	Not recorded	Male	Male Sex with Male	pol
JL3019	KJ544545	CRF01_AE	2012	Not recorded	Male	Male Sex with Male	pol
JL3028	KJ544546	C	2012	Not recorded	Male	Male Sex with Male	pol
JL3038	KJ544547	CRF01_AE	2012	Not recorded	Male	Male Sex with Male	pol
JL3050	KJ544548	CRF01_AE	2012	Not recorded	Male	Male Sex with Male	pol
JL3055	KJ544549	CRF01_AE	2012	Not recorded	Female	Heterosexual	pol
JL3059	KJ544550	CRF01_AE	2012	Not recorded	Male	Male Sex with Male	pol
JL3071	KJ544551	CRF01_AE	2012	Not recorded	Male	Male Sex with Male	pol
JL3085	KJ544552	C	2012	Not recorded	Male	Male Sex with Male	pol
JL3087	KJ544553	C	2012	Not recorded	Male	Heterosexual	pol
JL3088	KJ544554	B	2012	Not recorded	Male	Male Sex with Male	pol

\*NFLG, near full-length genome

**Table S4 Clinical and phylogenetic data of 96 Jilin reference sequences with available full-length V3-V4 regions obtained from HIV database**

Sequence name	Sampling year	Gender	Risk Factor	CD4 count (per µL)	Viral load (per µL)	Co-infection	Clinical stage of disease	Subtype*	Env V3 sequence	FPR**	Env V4 sequence
JL100005	2010	NR	Hetero	NR	NR	NR	NR	CRF01_AE	CTRPSNNRTSINIGPGQAFYRTGDIIGDIRQAYC	92.3	CNTTKLFNSTWIGNETMEGGNGSDTILPC
JL100007	2010	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNRTSINIGPGQAFYRTGDIIGDIRQAYC	92.3	CNTTKLFNSTWRGNENMTKGNDNDTILPC
JL100014	2010	NR	Hetero	NR	NR	NR	NR	CRF01_AE	CTRPSNNRTSVNIGPGQAFYRTGDIIGDIRQAYC	93.8	CNTTKLFNSTWTGNETKQEGNHTGTLPC
JL100020	2010	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNITSISIGPGRAFYRTGDIIGDIRQAYC	32	CNTSKLFNSTWKNETKEGGNDNDTILPC
JL100027	2010	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNRTSITMGPQTFYRTGDIIGDIRKAYC	83.3	CNTTKLFNINTTELFNSTGGNNNDTILPC
JL100032	2010	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNRTSISIGPGRAFYKTGDIIGDIRQAYC	6.7	CNTTKLFNNTWIGNETMERGHNDNDTILPC
JL100034	2010	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNRTSTRIGPGQTFYRTGDIIGDIRQAFC	8.1	CNTTKLFNSTWIGNETMERGSNDNDTILPC
JL100037	2010	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNRTSITMGPQKTFYRTGDIIGDIRQAYC	54.2	CNTTKLFNINTTKLFNSTGGNNNDTILPC
JL100038	2010	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNRTSINIGPGRAIYRTGDIKGDIRQAYC	7.4	CNTTKLFNSTWTEVNSTWTEVNSTRTEESNSSDIIILPC
JL100041	2010	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNIRTSFRIGPGQVFYKTGSITGDIRKAYC	1.5	CNTSKLFNSTKNGTMEGLNGTILPC
JL100042	2010	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNRTSINIGPGRAFYRTGDIIGDIRQAYC	49.2	CNTTKLFNSTGGNNNDTILPC
JL100043	2010	NR	Hetero	NR	NR	NR	NR	CRF01_AE	CTRPSNNRTSISIGPGRAIYRTGDIIGDIRQAHC	3.7	CNTTKLFNSQFNSTGGNDNGSFNSTGGNDNGTILPC-
JL100047	2010	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNTRKSTRIGPGQMFYRTGDIIGDIRKAYC	4.8	CNTTKLFNSTQNGTMEGLNTTILPC
JL100051	2010	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNRTSTSMPGQAFYRTGDIIGDIRQAYC	15	CNTTKLFNSTWIRNETMRGGNETMKRDNGSDTILPC
JL100052	2010	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNRTSINIGPGQTFYRTGDIIGDIRQAYC	98.9	CNTTKLFNSTWRGNMETREGNASDTILPC
JL100053	2010	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNRTSINIGPGRVFYRTGDIIGDIRQAYC	27.5	CNTTKLFNSIWIGNEVEGNNTDTILPC
JL100056	2010	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNRTSINIGPGRAFYRTGDIIGDIRQAYC	49.2	CNTTKLFNSNTTLFNSTGGNNNDTILPC
JL100057	2010	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNRTSIRIGPGQMFYRTGDIIGDIRKAYC	6.9	CNTTKLNGTENGTRGELNGTILPC
JL100059	2010	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNRTSIRIGPGQMFYRTGEIIGDIRRAYC	7.8	CNTTKLFNRTEGTMELNGTVILPC
JL100064	2010	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNRTSIRIGPGQTFYRTGDIIGDIRQAYC	58.3	CNTSLRFNSTWTGNETKEGGNDNTSPILPC
JL100068	2010	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNTRKSTRIGPGQMFYRTGDIIGDIRKAYC	4.8	CNTTKLFNSTENXTMEGLNTTILPC
JL100069	2010	NR	Hetero	NR	NR	NR	NR	CRF01_AE	CTRPSNNRTSITMGPQKTFYRTGDIIGDIRQAYC	54.2	CNTSKLFNITGGNYSTEKNYNDTILPC
JL100073	2010	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNRTSTSIGPGQVFYRTGDIIGDIRQAYC	9	CNTSKLFNSTWRGNETKEGSNDNDTILPC
JL100079	2010	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNTRTRESISIGPGRAFYRTGDIIGDIRQAFC	37.1	CNTTKLFNSTWMGNTRKEGNDSDTILPC

JL100087	2010	NR	Hetero	NR	NR	NR	NR	CRF01_AE	CTRPANNTRTSIHIGPGQVFYQTGDIIGNIRQAYC	47.3	CNTTPLFKYNTTLNYTKETTENGSIILKC
JL100098	2010	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNTRTSITMGPGBKTFYRTGDIIGDIRQAYC	54.2	CDTTKLFNSTGGNNNDTIIILPC
JL110001	2011	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNTRTRESINIGPGRAFYKTGDIIGDIRRAFC	6.7	CNTTKLFNNTKLFNSTETNNNGTIIILPC
JL110004	2011	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPNNTTRTRITMGPGXFYKTGEIIGDIRKAYC	0.2	CNTTKMFNSTWGGNETKEGGNNTTIIILPC
JL110005	2011	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNIRTSMRIGPQVFYRTGAITGDIRKAYC	1.7	CNTTKLFNSTENGTMEELENGTIIILPC
JL110007	2011	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNTRTSIRIGPGQVFYKTGDIIGDIRKAYC	3.7	CNTTKLFNSTENGTEIEGLNGTIIILPC
JL110009	2011	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNTRTSIGIGPGRTFYRTGDIIGDIRQAFC	5.1	CNTTKLFNSTWIGNETTKQGNASDTHILPC
JL110012	2011	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNTRTSISIGPGQTFYRTGDIIGDIRKAFC	76.8	CNTTKLFNSTQNGTIIILPC
JL110013	2011	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPFNNTRTSIRIGPGQMFYKTGDXGDIRKAYC	3.7	CNTTKLFNSTKNGTIEGLNGTIIILPC
JL110014	2011	NR	Hetero	NR	NR	NR	NR	CRF01_AE	CTRPSNNTRTSITIGPGRAFYSIGDIKGDIRQAYC	11.5	CNTTKLFNSIWIGNETMERGNNDNTDTITLPC
JL110015	2011	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNIRTSMRIGPQVFHRTGAITGDIRKAYC	1.7	CNTTKLFNSTENGTMEELENGTIIILPC
JL110016	2011	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNTRTSINMGPKAFYRTGDIIGDIRQAYC	49	CNTTKLFNSNNNSNSNSKEGNNTDTIILPC
JL110021	2011	NR	Hetero	NR	NR	NR	NR	CRF01_AE	CTRPSNNTRTSIRIGPGQVYFGTGEITGDIRSAYC	80.1	CNTTKLFNGTENGTRREGSNHTIIIPC
JL110023	2011	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNTRTSITIGPGRAFYSIGDIIGDIRQAYC	27.5	CNTTKLFNSIWIGNETMERGNDSDTIILPC
JL110024	2011	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNTRTSIRIGPGSTFYGTGDIIGDIRRAYC	6.7	CNTTKLFNSTWIGNETIEKGNADTDIIILPC
JL110025	2011	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNTRTSINIGPGRTFYRTGDIIGDIRQAYC	83	CNTTKLFNSTGGNNNGTIIILPC
JL110026	2011	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNTRTSTRIGPGQVFYRTGDIIGNIRKAYC	3.5	CNTTKLFNRTENGTEIESNTTIIILPC
JL110028	2011	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNTRTSIRIGPGQTFYRTGDIIGDIRQAYC	58.3	CNTTKLFNSTWIGNETMETGKNSSDTIILPC
JL110029	2011	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNTRTSITIGPGATFYRTGDIIGDIRQAYC	93.9	CNTSKLFNSTWEGNETTREGHDNDTHILPC
JL110032	2011	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNTRTSIHINGPGQTFYRTGDIIGNIRQAYC	96.7	CNTTKLFNSTWIGNETREEGNKSSTIILPC
JL110033	2011	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNTRTSITMGPQTFYRTGDIIGDIRQAYC	91.9	CNTTKLFNSKLFNSTGGNNNDTIIILPC
JL110034	2011	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNKRKSIAIGPGQAFYRTGDIIGDIRQAFC	5.9	CNTTKLFNSTFNGTEMKNETREKNDTIIILPC
JL110035	2011	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNTRTGIIGPGQVFYRTGEITGDIRSAYC	63.1	CNTTKLFDGTENGTRREGSNSTIIIPC
JL110036	2011	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNTRTSIRIGPGQMFYRTGDIVGDIRKAYC	24.7	CNTTKLFNSTENGTLLEGSNNTTIIIPC
JL110037	2011	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNTRTSMSIGPGQVFYRTGDIIGDIRQAYC	26.9	CNTTKLFNSTWMRNETMREGNKTDMIILPC
JL110038	2011	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNTRTSITIGPGQTFYRTGDIIGDIRQAYC	94.1	CNTTKLFNSTWTGNETMEGGNNNSKTIILPC
JL110039	2011	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNTRTSIRIGPGQMFYRTGEIIGDIRKAYC	18.3	CNTTKLFNGTENGTMEEGLNGTIIILPC

JL110040	2011	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPFNNTRTSIRIGPGQAFYRTGDTGNIRQAYC	12	CNTTKLFNSTWNETSKGNDNGTIIILPC
JL110041	2011	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNTRQSIRIGPGQMFYRTGAIIGDIRKAYC	42.3	CNTTKLFNSTENGTMEGFNNTIILPC
JL110046	2011	NR	Hetero	NR	NR	NR	NR	CRF01_AE	CTRPSNNTRTSTRIGPGQMFYRTGDIIGDIRKAYC	5.4	CNTTKLFNRNENETMEGSNTTIILPC
JL110047	2011	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSTNVRTSIPMGPKGTFYRTGDIIGNIRQAYC	43.3	CNTTKLFNSTGGNNNTGGNNNGTIIILPC
JL110055	2011	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNTRTSISLGPGGAFYKTGDIIGDIRQAYC	6.8	CNTTKLFNSTWIGNESRVVGNDSDTIILPC
JL110062	2011	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNTRTGISRIGPGQVFRTGEITGDIRSAYC	63.1	CNTTKLFDFDGTEGTREGSNHIIIPC
JL110065	2011	NR	Hetero	NR	NR	NR	NR	CRF01_AE	CTRPSNNTRRESIRIGPGQAFYRTGDIIGDIRQAYC	56.1	CNTTKLFNGTEINNETMTXGTHIILPC
JL110066	2011	NR	Hetero	NR	NR	NR	NR	CRF01_AE	CTRPSNNTRKSINIGPGRAFYGREDIIGDIRQAYC	3.1	CNTTKLFNSTWEGNETMQGGNGNDTIILPC
JL110072	2011	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNTRTSINIGPGRFTYRTGDIIGDIRQAYC	83	CNTTKLFNGTWLFNGTWTGTETTEGGNNIILPC
JL110086	2011	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNTRTSINIGPGRFTYRTGDIIGDIRQAYC	83	CNTTKLFNNNTGGNNNDTIILPC
JL110090	2011	Male	MSM	NR	NR	NR	NR	CRF01_AE	CTRPSNNTRTSINIGPGQAFYRTGDIIGNIRQAYC	94.8	CNTTKLFNSTWTGNETIGNETMENNNTIILPC
JL110093	2011	NR	Hetero	NR	NR	NR	NR	CRF01_AE	CTRPSNNTRQSISIGPGRVFYRTGDIIGDIRQAYC	28.5	CNTSKLFNSTWEGNETKERGNNDNTIILPC
JL100091	2010	NR	Hetero	NR	NR	NR	AIDS	BC	CTRPNNIRKSIRIGPGQTFYATGDIIGDIRQAHC	17	CNTSSLFDGTYRPNSTESNSSSITIPC
JL100044	2010	Male	Hetero	NR	NR	NR	NR	C	CTRPNNTRKSIRIGPGQTFYATGDIIGDIRQAHC	83	CNTSGLFNSTYTNNGTFTINSTYI-HNGTGNSSS-----LVIPC
JL100048	2010	Male	MSM	NR	NR	NR	NR	C	CTRPGNNTRKSIRIGPGQTFYATGGIIGDIRQAHC	50.5	CNTSGLFNSASGLNGSFIIHNGTF-NGTESNST-----ITIPC
JL100065	2010	Male	MSM	NR	NR	NR	NR	C	CTRPNNTRKSIRIGPGQTFYATGDIIGDIKAHC	99.4	CNTSQLFNS----NSTY-----NG-----TIPC
JL100071	2010	NR	MSM	NR	NR	NR	NR	C	CTRPNNTRKSIRIGPGQTFYATGDIIGNIRQAYC	83	CNTSGLFNSTYTPNGTFTFNSTYIHNGTG-NSSS-----LVIPC
JL100078	2010	NR	IDU	NR	NR	NR	NR	C	CTRPNNTRKSIRIGPGQTFYATGDIIGDIRQAYC	78.8	CNTSGLFNGTYNG-----TYMPNSTG-NTSS-----IIIPC
JL100097	2010	Male	Hetero	NR	NR	NR	NR	C	CTRPGNNTRKSIRIGPGQTFYATGGIIGDIRQAHC	50.5	CNTSRLFNGTYN-----PNGTE-NSSSN-----ITIPC
JL110031	2011	Male	MSM	NR	NR	NR	NR	C	CTRPNNTRKSIRIGPGQTFYATGAIIGDIRQAHC	70.6	CNTSGLFNSTYINGTFRF-----NGTS-NDTESNST---ITIPC
JL110048	2011	Male	MSM	NR	NR	NR	NR	C	CTRPSNNTRKSIRIGPGQSFYATGDIIGDIRQAHC	68.9	CNTSKLFNSTY-----NGTS-NSYNGTSNSSIIIPC
JL110052	2011	Male	MSM	NR	NR	NR	NR	C	CTRPNNTRKSIRIGPGQTFYATGDIIGDIRQAHC	83	CNTSKLFNSTYMYNSTY-----NGTS-NSSS-----IIIPC
JL110064	2011	Male	MSM	NR	NR	NR	NR	C	CTRPNNTRKSIRIGPGQTFYATGDIIGDIRKAHC	65.9	CNTSGLFNSTYMHNGTFTFNGTY--NGTD-NSS-----LVIPC
JL110085	2011	NR	MSM	NR	NR	NR	NR	C	CTRPNNTRKSIRIGPGQTFYATGDIIGDIRQAHC	83	CNTSGLFNSTYMHNGTFTFNGTYI-NGTG-NSSS-----LVIPC
JL110089	2011	NR	Hetero	NR	NR	NR	NR	C	CTRPGNNTRKSIRIGPGQTFYATGDIIGDIRQAHC	69.8	CNTSGLFNGTYT-----TF-NDTESNST-----ITLPC
JL110092	2011	Female	Hetero	NR	NR	NR	NR	C	CTRPGNNTRKSIRIGPGQTFYATGDIIGDIRQAHC	69.8	CNTSGLFNSTHMPNGTFTM-HNGTF-NDTESNST-----ITIPC
JL070038	2007	NR	NR	NR	NR	NR	NR	B	CTRPNNTRKSINI--GPGQAWYTTGQIIGDIRQAHC	83	CNTSQLFNSTW---YENGTTKNFTTGT-----ITLPC

JL100035	2010	NR	Hetero	NR	NR	NR	NR	B	CARPNNNTRKSIHL--GPGKAWYTTGQIIGKIRQAYC	6.8	CNTSQLFNSTW---YSNGT--QNDTIGNDT----ITLPC
JL100036	2010	NR	Hetero	NR	NR	NR	NR	B	CTRPNNNTRRSIHL--GPGQALYTTGQIIGDIRQAHC	90.9	CNTSQLFNSTW---YTNNNTQKGNIIGNGT-----ITLPC
JL100039	2010	NR	Hetero	NR	NR	NR	NR	B	CTRPNNNTRKSIHL--GPGKAWYTTGQIIGDIRQAHC	14.7	CDTSQLFNNTW----NNTSTWNNTGEH----ITLPC
JL100063	2010	NR	Hetero	NR	NR	NR	NR	B	CTRPNNNTRKSIPI--GPGRAWYTTGQIIGDIRQAHC	43.2	CNTSKLFNSTW----NNNSTWNDDTDNDT----ISLPC
JL100085	2010	NR	Hetero	NR	NR	NR	NR	B	CTRPNNNTRKSIHL--GVGRAWYATGKIVGDIRQAHC	2.9	CNTSQLFNSTR----NGTNTGNDTSNITT---IILPC
JL100090	2010	NR	Hetero	NR	NR	NR	NR	B	CTRPNNNTRKSINI--GPGQAWYTTGQIIGDIRQAHC	83	CNTSQLFNSTW---TGNNNTSTTEGNNI-----ITLPC
JL100099	2010	NR	Hetero	NR	NR	NR	NR	B	CTRPNNNTRKSIHL--GPGSTWFATGDIIGDIRQAHC	89.6	CNTSKLFNSTW---YANGTWNGTTGEGNI----MTLPC
JL100101	2010	NR	Nosocomial	NR	NR	NR	NR	B	CTRPNNNTRKSINI--GPGQAWYATGQIIGDIRQAHC	91.4	CNTSQLFNSTW---DPDGNSTCNSTAGGDN----ITLPC
JL110044	2011	Male	MSM	NR	NR	NR	NR	B	CIRPGNNTRKSIHI--GPGKAFYATGAIIGNIRQAH	31.7	NNNTSFLNIIW--SANETGLDNETWQSDFTGENITLQC
JL110057	2011	NR	Hetero	NR	NR	NR	NR	B	CTRPHNNTRKSIQL--GXGRAWYTTGQVIGDIRQAYC	6.8	CNTSQLFNSTW----KVNSTGNDTTGNNT----ITLPC
JL110060	2011	NR	Hetero	NR	NR	NR	NR	B	CTRPNNNTRKSIPL--GQGRAWYTTGQIIGDIRQAHC	8.9	CNTSQLFDSTW---DANSTSMGNNTENDNSN--ITLPC
JL110067	2011	NR	Nosocomial	NR	NR	NR	NR	B	CTRPNNNTRKRMSL--GPGKVVWTTGQIVGDIRQAHC	0.5	CNTSKLFNSVW---HANGTRNGTTVN-----ITLPC
JL110074	2011	NR	Nosocomial	NR	NR	NR	NR	B	CTRPSNNTRKSIPI--GPGQAWYTTGDIIGDIRQAHC	96.2	CNTSQLFNGTW----NGT-TGNDT-----IVLPC
JL110076	2011	NR	Hetero	NR	NR	NR	NR	B	CTRPNNNTRKSIQL--GQGRAWYATGDIIGDIRQAHC	12.1	CNTSQLFNSTW---YKNGTWTGTRATENDT---ITLPC
JL110088	2011	Male	MSM	NR	NR	NR	NR	B	CTRPNNNTRKSIHI--GWGRSLYATGDIVGDIRQAYC	83.3	CNTTKLFTNLT---LTNNNTWNNTWPESNDTKS--IVLPC
JL110094	2011	NR	Hetero	NR	NR	NR	NR	B	CTRPNNNTRKGHL--GPGQTWYATGEIIGDIRQAHC	91	CNTSKLFNSTWENSTWNNTSTSNET-----IILPC
JL100084	2010	NR	Hetero	NR	NR	NR	NR	CRF02_AG	CIRPGNNTRKGVHIGPGQTFYATGDIIGDIRQAHC	96.2	CNTSGLFNSTWDRDSNVNTNSNVNTNDTENENITLQC
JL110095	2011	NR	Hetero	NR	NR	NR	NR	CRF02_AG	CTRPANNTRRESVRIGPGQTFYATGDIIGDIRQAHC	94.1	CNTSGLFNSTWNSTGNSMVTNNNTNNGNITLQC

\* Subtype information was obtained from the HIV LANL database.

\*\* FPR was the false positive rate in coreceptor prediction using online Geno2Pheno tool.

NR: not recorded; Hetero: Heterosexual; MSM: male sex with male