

Position Consensus	R07 TCA	823 AAA	940 TTA	1012 CTT	1151 GAC	1264 ATA	1281 TTC	1674 GAC	1707 GCC	1722 CAG	1887-9 GTA	2155 ACA	2190 GAA	No. PCR amplicon	Date sampled	Year of diagnosis
DONOR 0	G						T	T	T	A	G	T	G	3	Oct 1991	1990
HP-1	G						T	T	T	A	A	T	G	2	Feb 2001	1990
HP-2	G						T	T	T	A	A	T	G	2	Aug 1991	1991
HP-3	G						T	T	T	A	A	T	G	3	Jan 1992	1991
HP-4	G						T	T	T	A	A	T	G	4	Aug 1992	1991
HP-6	G						T	T	T	A	A	T	G	3	Oct 1993	1991
HP-8	G						T	T	T	A	A	T	G	3	Oct 2002	1992
HP-10	G						T	T	T	A	A	T	G	3	Sep 1992	1992
HP-18	G						T	T	T	A	A	T	G	4	May 1992	1992
	G						T	T	T	A	A	T	G	2	Aug 1992	1992
	G						T	T	T	A	A	T	G	2	Apr 1993	1993
	G						T	T	T	A	A	T	G	2	May 1993	1993
Cluster P (n=13)																
DONOR P	G	C	A		G	G								5	Oct 1993	1991
HP-5	G				G	G								3	Aug 1993	1992
HP-7	G	C	A		G	G								2	Aug 1993	1992
HP-9	G	C	A		G	G								4	Jun 1995	1992
HP-11	G	C	A		G	G						T	G	2	Jul 1992	1992
HP-12	G	C	A		G	G								2	Dec 2002	1992
HP-13	G	C	A		G	G								2	Jul 1992	1992
HP-14	G	C	A		G	G								2	May 1992	1992
HP-15	G	C	A		G	G								3	Jul 1992	1992
HP-16	G	C	A		G	G								3	Mar 1992	1992
HP-17	G	C	A		G	G								3	Mar 2003	1992
HP-19	G	C	A		G	G								2	Oct 2013	1992
HP-20	G	C	A		G	G								2	Dec 1992	1992
	G	C	A		G	G								2	Mar 1993	1993
	G	C	A		G	G								2	Nov 2002	1993
	G	C	A		G	G								2	Nov 2002	1993
	G	C	A		G	G								2	Oct 2002	1994
Local controls (n=72)																
92HCS10				A	G									4	Oct 1992	1989
95HSH5					G									2	May 1995	1989
92LSW5	G				G									2	May 1992	1989
921SY12							T	T		A				2	Oct 1992	1989
02LJ18					G		T		T					3	Aug 2002	1989
93PJ49					G						C			3	Oct 1993	1989
91KJS12	G				G						C			5	Dec 1991	1989
94KYJ12					G		T		T					2	Dec 1994	1989
93KHS5					G		T							2	May 1993	1989
93HYH5											C			2	May 1993	1989
93BJR3														2	Mar 1993	1989
93AJE5														2	May 1993	1990
93LSK4														2	Mar 1993	1990
92KChS3		G		A	G									2	Mar 1992	1990
91YWS12			C	A	G									2	Dec 1991	1990
92LSH6		G			G									5	Jun 1992	1990
95KHB7				A	G									2	May 1994	1990
92KDG4					G						T			2	Apr 1992	1990
93JJS10					G									2	Oct 1993	1990
92KJH11				A	G									2	Nov 1992	1990
92HSM8					G									2	Aug 1992	1990
93YEH1														2	Jan 1993	1990
03YCS3														2	Mar 2003	1990
01KJin7					G						T			2	Jul 2001	1990
910CH6														2	Aug 1992	1990
921CS3				A	G									2	Mar 1992	1991
92DGI6					G									2	Jun 1992	1991
92PJ86					A		T							2	Jun 1992	1991
92JWK3											T			2	Jun 1992	1991
92JHJ7					G						T			2	Mar 1992	1991
99KGS8											T			2	Jul 1991	1991
96SN55					G					A				2	Aug 1999	1991
92KYB10														2	May 1996	1991
92HJH10														2	Oct 1992	1991
92KSS12		G		A	G						C			2	Oct 1992	1991
93JSH3					G									2	Dec 1992	1992
92PGJ4				A	G			T						2	Mar 1993	1992
92JY012					G									2	Apr 1992	1992
92CYK6					G		T							2	Dec 1992	1992
92KJS12														2	Jun 1992	1992
93KYY2														2	Dec 1992	1992
92BSJn9				A			A				C			4	Feb 1993	1992
92LKH10		G		C	A		G							2	Jun 1992	1992
92KJnSo10					G		G							2	Oct 1992	1992
94KJH10														2	Oct 1994	1992
92CNS5					G		T							2	May 1992	1992
93KJGn9					G		T							2	Sep 1993	1993
92KCS6					G									2	Jun 1992	1992
92KJK10														2	Oct 1992	1992
93KYS12					G									2	Dec 1993	1992
92CIS6														2	Jun 1992	1992
93PCKy3														6	Mar 1993	1992
93KYR2					G		T							2	Feb 1993	1993
93LJS62					G						T			2	Feb 1993	1993
93CHM2					G									2	Feb 1993	1993
94CDH9	G				G									2	Sep 1993	1993
95KJHw4					G									2	Apr 1995	1993
94CYIk8		G			G									2	Aug 1994	1993
04KMH5					G						C			2	May 2004	1993
04LSH10							T				C			2	Oct 2004	1994
99HGH5					G									2	May 1999	1994
06YJN7					G									3	Jul 2006	1996
01PSJ12					G		T							3	Dec 2001	2001
05JJI1														8	Jan 2005	2001
01LHS2		G												2	Feb 2001	2001
04KKT7		G		C	A					A	A	G		2	Jul 2004	2004
05KBH5							T		T			T		2	May 2005	2004
05CYG51							T		T		A			2	Jan 2005	2004
05KJM2											A			2	Feb 2005	2004
05KMS2														2	Feb 2005	2004
11JGB7											C			3	Jul 2011	2011
13PJH6							T					T		2	Jun 2013	2013

Subtype B (n=16)												
02CSR9	...	C.	...	...	...	G.	...	T	...	...	...	..G
12CSR12	...	C.	...	...	...	G.	...	T	...	...	...	..G
01HSJ4	...	C.	...	...	...	G.	...	T	...	...	...	..G
96HHP5	...	C.	...	...	...	G.	...	T	...	...	...	..G
04LJH7	...	C.	...	...	...	G.	...	T	...	...	...	..G
93KNY12	...	C.	...	...	...	G.	...	T	...	...	...	..G
95LH010	...	C.	...	...	...	G.	...	T	...	...	...	..G
91HJH12	...	C.	...	...	...	G.	...	T	...	...	...	..G
910JSb6	...	C.	...	...	...	G.	...	T	...	...	...	..G
95J0E10	...	C.	...	...	...	G.	...	T	...	...	...	..G
05J0E1	...	C.	...	...	...	G.	...	T	...	...	...	..G
97PKA7	...	C.	...	...	...	G.	...	T	...	...	...	..G
93JDK4	...	C.	...	...	...	G.	...	T	...	...	...	..G
97PJH4	...	C.	...	...	...	G.	...	T	...	...	...	..G
92SY11	...	C.	...	...	...	G.	...	T	...	...	...	..G
97SY14	...	C.	...	...	...	G.	...	T	...	...	...	..G
93YEJ2	...	C.	...	...	...	G.	...	T	...	...	...	..G
99SKC1	...	C.	...	...	...	G.	...	T	...	...	...	..G
99HYJ5	...	C.	...	...	...	G.	...	T	...	...	...	..G
HXB2	...	C.	...	...	...	G.	...	T	...	...	...	..G
Consensus	TCA	AAA	TTA	CTT	GAC	ATA	TTC	GAC	GCC	CAG	GTA	ACA GAA
	807	823	940	1012	1151	1264	1281	1674	1707	1722	1897-9	2155 2190

Sep 2002 1987
 Apr 2001 1987
 May 1996 1991
 Jul 2004 1994
 Dec 1993 1987
 Oct 1995 1987
 Dec 1991 1987
 Jun 1991 1988
 Oct 1995 1988
 Jul 1997 1988
 Apr 1993 1989
 Apr 1997 1990
 Jan 1992 1990
 Apr 1997 1990
 Feb 1993 1990
 Jan 1999 1990
 May 1999 1990
 K03455

Figure S1: Alignment of 14 signature pattern nucleotides in the 94 patients infected with the Korean subclade of HIV-1 subtype B. Specific nucleotides at positions 9 and 2 were detected in 100% of cases in clusters O and P, respectively, although this high prevalence was not present in the LCs. There was no nucleotide A at position 1897 in three PCR amplicons from HP-6. This difference between clusters O (nine positions) and P (five positions) resulted in a difference in the strength of clustering in clusters O and P. The dot and hyphen indicate the same sequence and deletion compared with consensus sequences, respectively. The nucleotide positions on the uppermost line are based on HIV-1 HXB2 (K03455). Lowercase letters indicated a mixed type with consensus sequences.