

**Supplementary table 1.** Complete list of sequences used in the study (N=1,283).

<b>Accession</b>	<b>Subtype</b>	<b>Sampling Year</b>	<b>HXB2/MAC239 start</b>	<b>HXB2/MAC239 stop</b>	<b>Sequence Length</b>
KF059759	01_AE	2009	2631	3240	610
KF059760	01_AE	2009	2631	3240	610
OQ711010	01_AE	2009	2253	3240	988
OQ710494	01_AE	2009	2253	3250	998
OQ710991	01_AE	2009	2253	3250	998
OQ710992	01_AE	2009	2253	3250	998
OQ710994	01_AE	2009	2253	3250	998
OQ711000	01_AE	2009	2253	3250	998
OQ711002	01_AE	2009	2253	3250	998
OQ711004	01_AE	2009	2253	3250	998
OQ711013	01_AE	2009	2253	3250	998
OQ711015	01_AE	2009	2253	3250	998
OQ711598	01_AE	2009	2607	3250	644
OQ711601	01_AE	2009	2448	3250	803
KF059757	01_AE	2009	2646	3251	606
KF059793	01_AE	2009	2604	3251	648
KF059797	01_AE	2009	2646	3251	606
KF059810	01_AE	2009	2628	3251	624
KJ868980	01_AE	2009	2550	3251	702
KF059744	01_AE	2009	2604	3263	660
KF059745	01_AE	2009	2607	3263	657
KF059746	01_AE	2009	2604	3263	660
KF059747	01_AE	2009	2604	3263	660
KF059756	01_AE	2009	2550	3263	714
KF059758	01_AE	2009	2634	3263	630
KF059761	01_AE	2009	2550	3263	714
KF059762	01_AE	2009	2604	3263	660
KF059785	01_AE	2009	2550	3263	714
KF059787	01_AE	2009	2550	3263	714
KF059794	01_AE	2009	2646	3263	618
KF059795	01_AE	2009	2550	3263	714
KF059796	01_AE	2009	2598	3263	666
KF059798	01_AE	2009	2604	3263	660
KF059799	01_AE	2009	2550	3263	714
KF059800	01_AE	2009	2622	3263	642
KF059801	01_AE	2009	2550	3263	714

KF059802	01_AE	2009	2550	3263	714
KF059803	01_AE	2009	2550	3263	714
KF059804	01_AE	2009	2550	3263	714
KF059805	01_AE	2009	2550	3263	714
KF059806	01_AE	2009	2550	3263	714
KF059807	01_AE	2009	2550	3263	714
KF059811	01_AE	2009	2550	3263	714
KF059812	01_AE	2009	2550	3263	714
KF059813	01_AE	2009	2613	3263	651
KF059814	01_AE	2009	2613	3263	651
KF059815	01_AE	2009	2604	3263	660
KF059817	01_AE	2009	2550	3263	714
KF059830	01_AE	2009	2643	3263	621
KF059831	01_AE	2009	2646	3263	618
KF059832	01_AE	2009	2631	3263	633
KF059833	01_AE	2009	2625	3263	639
AB587100	01_AE	2009	2097	3401	1305
AB747381	01_AE	2009	2096	3401	1306
OQ710995	01_AE	2010	2253	3249	997
OQ710996	01_AE	2010	2253	3250	998
OQ710997	01_AE	2010	2253	3250	998
OQ710998	01_AE	2010	2253	3250	998
OQ710999	01_AE	2010	2253	3250	998
OQ711011	01_AE	2010	2253	3250	998
OQ711012	01_AE	2010	2253	3250	998
OQ711016	01_AE	2010	2253	3250	998
OQ711018	01_AE	2010	2253	3250	998
OQ711019	01_AE	2010	2253	3250	998
OQ711020	01_AE	2010	2253	3250	998
OQ711021	01_AE	2010	2253	3250	998
OQ711596	01_AE	2010	2604	3250	647
KF059808	01_AE	2010	2550	3251	702
KF059809	01_AE	2010	2604	3251	648
KF059749	01_AE	2010	2550	3263	714
KF059750	01_AE	2010	2550	3263	714
KF059751	01_AE	2010	2550	3263	714
KF059752	01_AE	2010	2616	3263	648
KF059753	01_AE	2010	2550	3263	714
KF059754	01_AE	2010	2550	3263	714

OQ710987	01_AE	2010	2253	3287	1035
AB587097	01_AE	2010	2096	3401	1306
AB587106	01_AE	2010	2096	3401	1306
AB747401	01_AE	2010	2096	3401	1306
AB747421	01_AE	2010	2096	3414	1319
AB747389	01_AE	2010	2096	3416	1321
OQ710983	01_AE	2011	2253	3250	998
OQ711014	01_AE	2011	2253	3250	998
OQ711597	01_AE	2011	2607	3250	644
AB747434	01_AE	2011	2096	3401	1306
AB747439	01_AE	2011	2096	3401	1306
AB747444	01_AE	2011	2096	3401	1306
AB747445	01_AE	2011	2096	3401	1279
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AB747460	01_AE	2011	2096	3401	1306
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AB747464	01_AE	2011	2096	3401	1306
AB747467	01_AE	2011	2096	3401	1306
AB747470	01_AE	2011	2096	3401	1306
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AB747482	01_AE	2011	2096	3401	1306
AB747488	01_AE	2011	2096	3401	1306
AB747491	01_AE	2011	2096	3401	1306
AB747493	01_AE	2011	2096	3401	1306
AB747495	01_AE	2011	2096	3401	1306
AB747496	01_AE	2011	2096	3401	1306

AB747497	01_AE	2011	2096	3401	1306
AB747498	01_AE	2011	2096	3401	1306
AB747499	01_AE	2011	2096	3401	1306
AB747500	01_AE	2011	2096	3401	1306
AB747501	01_AE	2011	2096	3401	1306
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AB747513	01_AE	2012	2096	3401	1306
AB747514	01_AE	2012	2096	3401	1306
AB747517	01_AE	2012	2096	3401	1297
AB747518	01_AE	2012	2096	3401	1306
AB747521	01_AE	2012	2096	3401	1306
AB747535	01_AE	2012	2096	3401	1300
AB747537	01_AE	2012	2096	3401	1306
AB747539	01_AE	2012	2096	3401	1306
AB747540	01_AE	2012	2096	3401	1306
AB747541	01_AE	2012	2096	3401	1306
AB747542	01_AE	2012	2096	3401	1297
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AB747547	01_AE	2012	2096	3401	1300
AB747549	01_AE	2012	2096	3401	1306
OQ710522	01_AE	2013	2253	3250	998
OQ710523	01_AE	2013	2253	3250	998
OQ710524	01_AE	2013	2253	3250	998
OQ710525	01_AE	2013	2253	3250	998
OQ710526	01_AE	2013	2253	3250	998
KX184140	01_AE	2013	2252	3553	1302
KX184124	01_AE	2013	2252	3556	1305
KC536627	01_AE	2013	2858	3560	703
KX184120	01_AE	2013	2252	3560	1309

KX184122	01_AE	2013	2252	3560	1309
KX184148	01_AE	2013	2252	3560	1309
KX184117	01_AE	2013	2252	3562	1311
KX184118	01_AE	2013	2252	3562	1311
KX184123	01_AE	2013	2252	3562	1311
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KX184145	01_AE	2013	2252	3569	1318
KX184147	01_AE	2013	2252	3569	1318
KX184149	01_AE	2013	2252	3569	1318

KX184152	01_AE	2013	2252	3569	1318
KX184155	01_AE	2013	2290	3569	1280
KX184156	01_AE	2013	2252	3569	1318
KX184158	01_AE	2013	2252	3569	1318
KX184160	01_AE	2013	2252	3569	1318
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OQ710905	01_AE	2014	2253	3240	988
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OQ710910	01_AE	2014	2253	3241	989
OQ710918	01_AE	2014	2253	3241	989
OQ710922	01_AE	2014	2253	3241	989
OQ710932	01_AE	2014	2253	3241	989
OQ710934	01_AE	2014	2253	3241	989
OQ710936	01_AE	2014	2253	3241	989
OQ710945	01_AE	2014	2253	3241	989
OQ710533	01_AE	2014	2253	3246	994
OQ710904	01_AE	2014	2254	3249	996
OQ710909	01_AE	2014	2253	3249	997
OQ710913	01_AE	2014	2253	3249	997
OQ710915	01_AE	2014	2253	3249	997
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OQ710907	01_AE	2014	2253	3250	998
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OQ710950	01_AE	2014	2253	3250	998
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OQ710537	01_AE	2014	2253	3328	1076
OQ710540	01_AE	2014	2253	3328	1076
OQ710948	01_AE	2015	2253	3241	989
OQ710957	01_AE	2015	2253	3241	989
OQ711125	01_AE	2015	2253	3241	989
OQ711122	01_AE	2015	2253	3243	991
OQ711041	01_AE	2015	2253	3246	994
OQ711124	01_AE	2015	2253	3246	994
OQ711133	01_AE	2015	2253	3246	994
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OQ711119	01_AE	2015	2253	3248	996
OQ711120	01_AE	2015	2253	3248	996
OQ710499	01_AE	2015	2253	3249	997
OQ710927	01_AE	2015	2253	3249	997
OQ710944	01_AE	2015	2253	3249	997
OQ710956	01_AE	2015	2253	3249	997
OQ711034	01_AE	2015	2253	3249	997
OQ711111	01_AE	2015	2253	3249	997
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OQ711132	01_AE	2015	2253	3249	997
OQ711593	01_AE	2015	2604	3249	646
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OQ710498	01_AE	2015	2253	3250	998
OQ710509	01_AE	2015	2253	3250	998
OQ710514	01_AE	2015	2253	3250	998
OQ710515	01_AE	2015	2253	3250	998
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OQ710973	01_AE	2015	2253	3250	998



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OQ711083	01_AE	2015	2253	3250	998
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OQ711109	01_AE	2015	2253	3250	998
OQ711110	01_AE	2015	2253	3250	998
OQ711112	01_AE	2015	2253	3250	998
OQ711113	01_AE	2015	2253	3250	998
OQ711114	01_AE	2015	2253	3250	998
OQ711115	01_AE	2015	2253	3250	998
OQ711116	01_AE	2015	2253	3250	998
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OQ711141	01_AE	2015	2253	3250	998
OQ711142	01_AE	2015	2253	3250	998

OQ711143	01_AE	2015	2253	3250	998
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OQ428511	B	2016	2253	3250	998
OQ428483	B	2016	2253	3250	998
OQ428525	B	2016	2253	3329	1077
OQ428538	B	2016	2253	3329	1077
OQ428537	B	2016	2253	3329	1077
OQ428517	B	2016	2253	3250	998
OQ428490	B	2016	2253	3250	998
OQ428488	B	2016	2253	3250	998
OQ428495	B	2016	2253	3250	998
OQ428512	B	2016	2253	3250	998
OQ428514	B	2016	2253	3250	998

OQ428502	B	2016	2253	3250	998
OQ428532	B	2016	2253	3250	998
OQ428482	B	2016	2253	3250	998
OQ428521	B	2016	2253	3250	998
OQ428523	B	2016	2253	3250	998
OQ428481	B	2016	2253	3250	998
OQ428496	B	2016	2253	3250	998
OQ428484	B	2016	2253	3250	998
OQ428497	B	2016	2253	3250	998
OQ428531	B	2016	2253	3250	998
OQ428504	B	2016	2253	3250	998
OQ428535	B	2016	2253	3250	998
OQ428520	B	2016	2253	3250	998
OQ428534	B	2016	2253	3250	998
OQ428487	B	2016	2253	3250	998
OQ428494	B	2016	2253	3250	998
OQ428480	B	2016	2253	3250	998
MK895774	B	2016	2253	3246	994
OQ428486	B	2016	2253	3250	998
OQ428506	B	2016	2253	3250	998
OQ428492	B	2016	2253	3249	997
OQ428491	B	2016	2253	3250	998
OQ428503	B	2016	2253	3250	998
OQ428510	B	2016	2253	3250	998
OQ428515	B	2016	2253	3250	998
OQ428536	B	2016	2253	3250	998
OQ428527	B	2016	2253	3329	1077
MH327757	B	2016	14	9697	9713
OQ428507	B	2016	2253	3250	998
OQ428476	B	2016	2253	3329	1077
OQ428305	B	2017	2253	3248	996
OQ428294	B	2017	2253	3248	996
OQ428292	B	2017	2253	3248	996
OQ428281	B	2017	2253	3248	996
OQ428336	B	2017	2253	3248	996
OQ428300	B	2017	2253	3248	996
OQ428334	B	2017	2253	3240	988
OQ428312	B	2017	2253	3248	996
OQ428277	B	2017	2253	3248	996



OQ428287	B	2017	2253	3248	996
OQ428284	B	2017	2253	3248	996
OQ428289	B	2017	2253	3248	996
OQ428299	B	2017	2253	3248	996
OQ428308	B	2017	2253	3248	996
OQ428314	B	2017	2253	3240	988
OQ428278	B	2017	2253	3247	995
OQ428332	B	2017	2253	3247	995
OQ428309	B	2017	2253	3248	996
OQ428323	B	2017	2253	3248	996
OQ428348	B	2017	2253	3248	996
OQ428297	B	2017	2253	3248	996
OQ428298	B	2017	2253	3248	996
OQ428316	B	2017	2253	3248	996
OQ428306	B	2017	2253	3248	996
OQ428347	B	2017	2253	3246	994
OQ428290	B	2017	2253	3248	996
OQ428293	B	2017	2253	3248	996
OQ428295	B	2017	2253	3248	996
OQ428301	B	2017	2253	3248	996
OQ428303	B	2017	2253	3248	996
OQ428304	B	2017	2253	3248	996
OQ428310	B	2017	2253	3248	996
OQ428311	B	2017	2253	3248	996
OQ428313	B	2017	2253	3248	996
OQ428315	B	2017	2253	3248	996
OQ428318	B	2017	2253	3248	996
OQ428325	B	2017	2253	3248	996
OQ428346	B	2017	2253	3248	996
OK663723	B	2017	749	5154	4391
OK663694	B	2017	622	5215	4607
OQ428330	B	2017	2253	3243	991
OQ428286	B	2017	2253	3246	994
OQ428280	B	2017	2253	3248	996
OQ428283	B	2017	2253	3248	996
OQ428285	B	2017	2253	3248	996
OQ428279	B	2017	2253	3248	996
OQ428291	B	2017	2253	3248	996

**Supplementary table 2.** List of representative sequences used in the phylogenetic analysis.

<b>Accession</b>	<b>Subtype</b>
OK663685	01_AE
OK663733	01_AE
OK663728	01_AE
OK663703	01_AE
OK663730	01_AE
OQ710890	01_AE
OQ710892	01_AE
OQ710894	01_AE
OQ710895	01_AE
OQ710899	01_AE
OQ711418	01_AE
OQ711423	01_AE
OQ711428	01_AE
OQ711432	01_AE
OQ711434	01_AE
OQ711440	01_AE
OQ711441	01_AE
MG708400	01_AE
MG708426	01_AE
MG708425	01_AE
OQ711024	01_AE
OQ711025	01_AE
OQ711027	01_AE
OQ711028	01_AE
OQ711035	01_AE
OQ711036	01_AE
OQ711037	01_AE
OQ710535	01_AE
OQ710537	01_AE
OQ710540	01_AE
AB747468	01_AE
AB747505	01_AE
AB747507	01_AE
AB747508	01_AE
AB747509	01_AE
AB747510	01_AE

AB747511	01_AE
AB747512	01_AE
AB747513	01_AE
AB747514	01_AE
KF059759	01_AE
KF059760	01_AE
OQ711010	01_AE
OQ710494	01_AE
OQ710991	01_AE
OQ710992	01_AE
OQ710994	01_AE
OQ711000	01_AE
OQ711002	01_AE
OQ711004	01_AE
OQ428398	B
OQ428433	B
OQ428424	B
OQ428419	B
OQ428440	B
OQ428380	B
OQ428390	B
OQ428388	B
OQ428382	B
OQ428383	B
OQ428530	B
OQ428477	B
OQ428528	B
OQ428533	B
OQ428478	B
OQ428524	B
OQ428509	B
OQ428479	B
OQ428518	B
OQ428516	B
OQ428447	B
OQ428451	B
OQ428448	B
OQ428449	B

OQ428541	B
OQ428455	B
OQ428450	B
OQ428452	B
AB747522	B
AB747519	B
AB747506	B
AB747515	B
AB747516	B
AB747523	B
AB747532	B
AB747533	B
AB747536	B
KC536625	B
KF059782	B
KF059820	B
KF059771	B
KF059818	B
KF059774	B
KF059755	B
KF059765	B
KF059766	B
KF059772	B
KF059819	B
KF059821	B
KF059822	B
KF059734	B
KF059738	B
KF059740	B
KF059742	B
KF059763	B
KF059726	B
AB587104	B
AB587101	B
AB747378	B
KJ868976	B
KF059791	B
KF059775	B

KF059789	B
KF059790	B
KF059829	B
AB747449	B
AB747417	B
AB747459	B
AB747466	B
AB747490	B
AB747548	B
KX184174	B
KX184173	B
KX184183	B
KY658692	B
MH327747	B
MH327753	B
KY658691	B
MH327744	B
MH078564	B
MH078563	B
MH327751	B
MH327765	B
OK663713	B
OK663666	B
OK663671	B
OK663687	B
OK663698	B
OK663715	B
OK663686	B
OK663678	B
OK663709	B
OK663732	B



K219R								2	
K70N								2	
Y115F									3
T215V	1								
T215D					1				
D67N						7	22		
K65N						2	2		
S68D						2			
E44A							3		
<b>NNRTI</b>									
K103N					3	11	32	57	64
Y181C	2			1	2	11	46	86	51
G190A	2			1	2	6	28	63	41
K101E				2		2	30	40	36
V106I	5		1	2	2	8	19	50	23
H221Y					1	5	17	27	20
V108I	2						16	18	18
G190S				1		2	12	8	18
L100I						6	9	10	15
P225H					2	4	4	15	10
A98G	1				2	2	9	7	8
Y181L							2		8
F227L	2					2		8	7
V106M									7
G190Q							5	12	5
V179D	1						4	8	5
E138G	1		3		2	2		7	5
Y188L	1					2	12	33	4

