

Supporting Information

Molecular epidemiology of a primarily MSM acute HIV-1 cohort in Bangkok, Thailand and connections within networks of transmission in Asia

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Figure Legends for Supporting Information:

Figure S1. Phylogenetic tree of subtype B strains from RV254 participants with reference Western subtype B (right tree branches) and Thai B' strains (left tree branch). Pure subtype B strains from RV254 participants were primarily Western B (light blue circles, n=7), versus Thai B' (dark blue circles, n=1). Subtype J (open triangles) is plotted as an outsider group.

Figure S2. Phylogenetic tree of *env* gp160 gene sequences from RV254 participants. Colored circles depict RV254 subtyping by phylogenetic analysis: subtype CRF01_AE (red), CRF01_AE/B recombinant (purple), B (light blue), B' (dark blue), C (yellow), CRF01_AE/B/C recombinant (green), and CRF01_AE/CRF02_AG recombinant (grey).

Table S1. Summary and details of RV254 and subtype reference sequences included in the present analysis. a) Summary of sequences from RV254 participants obtained by single genome sequencing, b) Details of sequences listed by participant ID; FL = full genome, LH = 5'- half genome, RH = 3' half genome, LH+RH = 5'- and 3'- half genomes, ENV = envelope gene only, c) Details of subtype reference sequences (full genome), d) Details of subtype B, B', and J reference sequences (*env* gp160).

Table S2. Details of Asia *env* gp160 sequences downloaded from the Los Alamos National Laboratory (LANL) HIV Database and included in the present analysis.

Table S3. Socio-demographic characteristics of RV254 study participants.

Table S4. RV254 subtype B V3 loop tip motifs and their global frequencies.

Table S5. Clusters identified in Asian HIV-1 transmission network.

Table S6. Description of nodes identified in Asian HIV-1 Transmission Network. a) Summary of nodes, b) Detailed list of nodes. Country codes: China (CN), India (IN), Indonesia (ID), Japan (JP), Malaysia (MY), Myanmar (MM), Pakistan (PK), Singapore (SG), South Korea (KR),

Taiwan (TW), Thailand (TH), Vietnam (VN). Risk factors: Blood transfusion (PB), hemophiliac (PH), heterosexual (SH), homosexual (SG), people who inject drugs (PWID), men who have sex with men (MSM), mother to child (MB), nosocomial (NO), unknown (N/A).

File S1. Alignment of RV254 and Asia *env* gp160 sequences used in the present analysis.

Table S1. Summary and details of RV254 and subtype reference sequences included in the present analysis

a) Summary of sequences from RV254 participants obtained by single genome sequencing

Genomic Region	Number of Individuals (n=138)
Full genome (FL)	80
Corresponding half genomes (both 5'- and 3'- half genomes) (LH+RH)	45
5'- single half genome only (LH)	3
3'- single half genome only (RH)	6
Envelope gene only (ENV)	4
Sampling Year	
2009	10
2010	22
2011	25
2012	8
2013	17
2014	29
2015	27
Subtype by Sequencing	
CRF01 AE	88
CRF01 AE/B Recombinant	30
B	8
CRF01 AE (RH)	4
CRF01 AE (LH)	3
CRF01 AE/B Recombinant (RH)	2
CRF01 AE/CRF02 AG recombinant	1
CRF01 AE/B/C Recombinant	1
C	1

b) Details of RV254 sequences listed by participant ID

Participant ID	Sequence Name	Subtype by Sequencing	Genome Region	Sampling Year	GenBank Accession
2543928	2543928P000L Sb	CRF01 AE	LH	2009	MG989627
2543928	2543928P000R Sa	CRF01 AE	RH	2009	MG989577
2544933	2544933P000L Sf	CRF01 AE/B Recombinant	LH	2009	MG989634
2544933	2544933P000R Se	CRF01 AE/B Recombinant	RH	2009	MG989584
2545131	2545131P000L Sb	CRF01 AE/B Recombinant	LH	2009	MG989636
2545131	2545131P000R Sk	CRF01 AE/B Recombinant	RH	2009	MG989586
2545573	2545573P000L Sb	CRF01 AE	LH	2009	MG989640
2545573	2545573P000R Sd	CRF01 AE	RH	2009	MG989591
2545577	2545577P000L Sa	CRF01 AE	LH	2009	MG989641
2545577	2545577P000R Sd	CRF01 AE	RH	2009	MG989592
2546083	2546083P000L Sa	CRF01 AE	LH	2009	MG989642
2546083	2546083P000R Sc	CRF01 AE	RH	2009	MG989593
2547933	2547933P000L Sa	CRF01 AE	LH	2009	MG989656
2547933	2547933P000R Sa	CRF01 AE	RH	2009	MG989606
2548262	2548262P000L Sb	CRF01 AE	LH	2009	MG989659
2548262	2548262P000R Sj	CRF01 AE	RH	2009	MG989609
2548442	2548442P000R Sd	CRF01 AE	RH	2009	MG989611
2549720	2549720P000L Sd	B	LH	2009	MG989667
2549720	2549720P000R Sd	B	RH	2009	MG989620
2543625	2543625P000FL Sc	CRF01 AE	FL	2010	MG989497
2543698	2543698P000L Sa	CRF01 AE	LH	2010	MG989626
2543698	2543698P000R Sa	CRF01 AE	RH	2010	MG989575
2543733	2543733P000FL Sb	CRF01 AE	FL	2010	MG989499
2543789	2543789P000FL Sc	CRF01 AE	FL	2010	MG989500
2543832	2543832P000FL Si	CRF01 AE	FL	2010	MG989502
2544011	2544011P000L Sd	B	LH	2010	MG989628
2544011	2544011P000R Sa	B	RH	2010	MG989578
2544617	2544617P000L Sa	CRF01 AE	LH	2010	MG989631
2544617	2544617P000R Sa	CRF01 AE	RH	2010	MG989581
2545113	2545113P000FL Sb	CRF01 AE	FL	2010	MG989515
2545192	2545192P000L Sa	B	LH	2010	MG989637
2545192	2545192P000R Sd	B	RH	2010	MG989587
2545374	2545374P000FL Sj	CRF01 AE	FL	2010	MG989517

2545436	2545436P000FL Sa	CRF01 AE	FL	2010	MG989521
2546303	2546303P000L Sa	CRF01 AE	LH	2010	MG989645
2546303	2546303P000R Sa	CRF01 AE	RH	2010	MG989596
2546308	2546308P000L Sb	CRF01 AE	LH	2010	MG989646
2546308	2546308P000R Sa	CRF01 AE	RH	2010	MG989597
2546609	2546609P000FL Sa	CRF01 AE	FL	2010	MG989530
2547122	2547122P000L Sa	CRF01 AE	LH	2010	MG989651
2547122	2547122P000R Sb	CRF01 AE	RH	2010	MG989601
2547973	2547973P000L Sb	CRF01 AE	LH	2010	MG989657
2547973	2547973P000R Sa	CRF01 AE	RH	2010	MG989607
2548388	2548388P000FL Sa	CRF01 AE/B Recombinant	FL	2010	MG989549
2548950	2548950P000FL Sa	CRF01 AE	FL	2010	MG989559
2549133	2549133P000FL Sc	CRF01 AE	FL	2010	MG989562
2549196	2549196P000L Sc	CRF01 AE	LH	2010	MG989663
2549196	2549196P000R Sn	CRF01 AE	RH	2010	MG989615
2549583	2549583P000FL Sj	CRF01 AE	FL	2010	MG989566
2549844	2549844P000FL Sc	CRF01 AE	FL	2010	MG989569
2543077	2543077P000R Sc	CRF01 AE (RH)	RH	2011	MG989570
2543467	2543467P000FL Sa	CRF01 AE/B Recombinant	FL	2011	MG989493
2543513	2543513P000FL Sj	CRF01 AE	FL	2011	MG989495
2544022	2544022P000FL Sg	CRF01 AE	FL	2011	MG989504
2544030	2544030P000L Sb	CRF01 AE	LH	2011	MG989629
2544030	2544030P000R Sf	CRF01 AE	RH	2011	MG989579
2544574	2544574P000FL Sa	CRF01 AE	FL	2011	MG989510
2544735	2544735P000L Se	CRF01 AE	LH	2011	MG989632
2544735	2544735P000R Sc	CRF01 AE	RH	2011	MG989582
2545349	2545349P000FL Sa	CRF01 AE	FL	2011	MG989516
2545529	2545529P000L Sa	CRF01 AE	LH	2011	MG989639
2545529	2545529P000R Sc	CRF01 AE	RH	2011	MG989590
2546154	2546154P000FL Sb	CRF01 AE	FL	2011	MG989525
2546340	2546340P000FL Sg	CRF01 AE	FL	2011	MG989527
2546355	2546355P000L Sb	CRF01 AE/B Recombinant	LH	2011	MG989647
2546355	2546355P000R Sf	CRF01 AE/B Recombinant	RH	2011	MG989598
2547010	2547010P000L Sb	CRF01 AE	LH	2011	MG989650
2547010	2547010P000R Sf	CRF01 AE	RH	2011	MG989600
2547242	2547242P000FL S04	CRF01 AE/B/C Recombinant	FL	2011	MG989536
2547453	2547453P000L Sa	CRF01 AE	LH	2011	MG989652
2547453	2547453P000R Sb	CRF01 AE	RH	2011	MG989602
2547681	2547681P000L Sa	CRF01 AE	LH	2011	MG989654
2547681	2547681P000R Sb	CRF01 AE	RH	2011	MG989604
2547905	2547905P000FL Sb	CRF01 AE	FL	2011	MG989542
2548123	2548123P000L Sd	CRF01 AE	LH	2011	MG989658
2548123	2548123P000R Sa	CRF01 AE	RH	2011	MG989608
2548178	2548178P000FL Sa	CRF01 AE	FL	2011	MG989544
2548397	2548397P000FL Sc	CRF01 AE/CRF02 AG recombinant	FL	2011	MG989550
2548534	2548534P000env S23	CRF01 AE	ENV	2011	MG989671
2549114	2549114P000FL Sa	CRF01 AE	FL	2011	MG989561
2549129	2549129P000L Sb	CRF01 AE (LH)	LH	2011	MG989662
2549533	2549533P000FL Sj	CRF01 AE	FL	2011	MG989565
2549574	2549574P000L Sa	CRF01 AE	LH	2011	MG989664
2549574	2549574P000R Se	CRF01 AE	RH	2011	MG989617
2543193	2543193P000FL Sc	CRF01 AE	FL	2012	MG989492
2543669	2543669P000FL Sa	CRF01 AE	FL	2012	MG989498
2544477	2544477P000FL Sa	CRF01 AE	FL	2012	MG989509
2545382	2545382P000FL Sa	CRF01 AE	FL	2012	MG989518
2545864	2545864P000FL Sa	CRF01 AE	FL	2012	MG989523
2546897	2546897P000FL Sa	CRF01 AE	FL	2012	MG989531
2547466	2547466P000L Sb	CRF01 AE	LH	2012	MG989653
2547466	2547466P000R Sa	CRF01 AE	RH	2012	MG989603
2549649	2549649P000L Sa	CRF01 AE	LH	2012	MG989666
2549649	2549649P000R Sc	CRF01 AE	RH	2012	MG989619
2543089	2543089P000FL Sj	CRF01 AE/B Recombinant	FL	2013	MG989491
2543499	2543499P000FL Sc	CRF01 AE/B Recombinant	FL	2013	MG989494
2543799	2543799P000FL Sa	CRF01 AE	FL	2013	MG989501
2544072	2544072P000FL Sd	B	FL	2013	MG989506
2544233	2544233P000FL Sa	CRF01 AE	FL	2013	MG989508

2544320	2544320P000L Sa	CRF01 AE/B Recombinant	LH	2013	MG989630
2544320	2544320P000R Sa	CRF01 AE/B Recombinant	RH	2013	MG989580
2544829	2544829P000L Se	B	LH	2013	MG989633
2544829	2544829P000R Se	B	RH	2013	MG989583
2544878	2544878P000FL Sd	CRF01 AE/B Recombinant	FL	2013	MG989513
2546054	2546054P000env S01	CRF01 AE	ENV	2013	MG989668
2546345	2546345P000env S04	CRF01 AE	ENV	2013	MG989669
2546579	2546579P000env S02	CRF01 AE	ENV	2013	MG989670
2546859	2546859P000L Sa	CRF01 AE (LH)	LH	2013	MG989649
2546952	2546952P000FL Sb	CRF01 AE/B Recombinant	FL	2013	MG989533
2548448	2548448P000FL Sa	CRF01 AE	FL	2013	MG989552
2548569	2548569P000FL Sb	CRF01 AE/B Recombinant	FL	2013	MG989555
2549325	2549325P000FL Sa	CRF01 AE	FL	2013	MG989563
2549340	2549340P000FL Sa	CRF01 AE	FL	2013	MG989564
2543075	2543075P000FL Sa	CRF01 AE/B Recombinant	FL	2014	MG989490
2543236	2543236P000L Sa	CRF01 AE	LH	2014	MG989622
2543236	2543236P000R Sb	CRF01 AE	RH	2014	MG989572
2543500	2543500P000L Sa	CRF01 AE	LH	2014	MG989624
2543500	2543500P000R Sa	CRF01 AE	RH	2014	MG989574
2543655	2543655P000L Sd	CRF01 AE (LH)	LH	2014	MG989625
2543707	2543707P000R Sb	CRF01 AE/B Recombinant (RH)	RH	2014	MG989576
2543896	2543896P000FL Sa	CRF01 AE	FL	2014	MG989503
2544584	2544584P000FL Sa	CRF01 AE	FL	2014	MG989511
2544980	2544980P000L Sa	CRF01 AE/B Recombinant	LH	2014	MG989635
2544980	2544980P000R Sj	CRF01 AE/B Recombinant	RH	2014	MG989585
2545040	2545040P000FL Sc	CRF01 AE	FL	2014	MG989514
2545383	2545383P000FL Sb	CRF01 AE	FL	2014	MG989519
2545430	2545430P000FL Sc	CRF01 AE/B Recombinant	FL	2014	MG989520
2545848	2545848P000FL Sa	CRF01 AE/B Recombinant	FL	2014	MG989522
2546031	2546031P000FL Sc	CRF01 AE	FL	2014	MG989524
2546138	2546138P000L Sb	CRF01 AE	LH	2014	MG989643
2546138	2546138P000R Sa	CRF01 AE	RH	2014	MG989594
2546278	2546278P000L Sa	CRF01 AE/B Recombinant	LH	2014	MG989644
2546278	2546278P000R Sc	CRF01 AE/B Recombinant	RH	2014	MG989595
2546323	2546323P000FL Sd	CRF01 AE/B Recombinant	FL	2014	MG989526
2546587	2546587P000FL Sc	CRF01 AE	FL	2014	MG989529
2546901	2546901P000FL Se	CRF01 AE	FL	2014	MG989532
2547241	2547241P000FL Sa	CRF01 AE	FL	2014	MG989535
2547279	2547279P000FL Sk	CRF01 AE	FL	2014	MG989538
2547610	2547610P000FL Sj	CRF01 AE/B Recombinant	FL	2014	MG989540
2547801	2547801P000L Sa	CRF01 AE/B Recombinant	LH	2014	MG989655
2547801	2547801P000R Sa	CRF01 AE/B Recombinant	RH	2014	MG989605
2548373	2548373P000L Sl	CRF01 AE	LH	2014	MG989548
2548725	2548725P000FL Sb	CRF01 AE/B Recombinant	FL	2014	MG989556
2548758	2548758P000FL Sa	CRF01 AE/B Recombinant	FL	2014	MG989557
2549013	2549013P000FL Sd	CRF01 AE/B Recombinant	FL	2014	MG989560
2549090	2549090P000R Sg	CRF01 AE (RH)	RH	2014	MG989614
2549585	2549585P000L Sd	CRF01 AE/B Recombinant	LH	2014	MG989665
2549585	2549585P000R Sd	CRF01 AE/B Recombinant	RH	2014	MG989618
2549734	2549734P000FL Si	C	FL	2014	MG989567
2543111	2543111P000L Sa	CRF01 AE	LH	2015	MG989621
2543111	2543111P000R Sb	CRF01 AE	RH	2015	MG989571
2543327	2543327P000L Sa	CRF01 AE/B Recombinant	LH	2015	MG989623
2543327	2543327P000R Sa	CRF01 AE/B Recombinant	RH	2015	MG989573
2543544	2543544P000FL Si	CRF01 AE	FL	2015	MG989496
2544032	2544032P000FL Sa	CRF01 AE/B Recombinant	FL	2015	MG989505
2544154	2544154P000FL Sa	CRF01 AE	FL	2015	MG989507
2544636	2544636P000FL Sd	CRF01 AE/B Recombinant	FL	2015	MG989512
2545278	2545278P000R Sd	CRF01 AE (RH)	RH	2015	MG989588
2545377	2545377P000L Sc	CRF01 AE	LH	2015	MG989638
2545377	2545377P000R Sa	CRF01 AE	RH	2015	MG989589
2546440	2546440P000L Sb	CRF01 AE/B Recombinant	LH	2015	MG989648
2546440	2546440P000R Se	CRF01 AE/B Recombinant	RH	2015	MG989599
2546574	2546574P000FL Sk	CRF01 AE	FL	2015	MG989528
2547188	2547188P000FL Sk	CRF01 AE	FL	2015	MG989534
2547268	2547268P000FL Sa	CRF01 AE	FL	2015	MG989537

2547424	2547424P000FL Sj	CRF01 AE	FL	2015	MG989539
2547627	2547627P000FL Sa	B	FL	2015	MG989541
2548105	2548105P000FL Sf	CRF01 AE	FL	2015	MG989543
2548182	2548182P000FL Sd	CRF01 AE/B Recombinant	FL	2015	MG989545
2548247	2548247P000FL Sb	CRF01 AE	FL	2015	MG989546
2548344	2548344P000FL Sb	CRF01 AE/B Recombinant	FL	2015	MG989547
2548411	2548411P000L Sb	B	LH	2015	MG989660
2548411	2548411P000R Sa	B	RH	2015	MG989610
2548419	2548419P000FL Sh	B	FL	2015	MG989551
2548453	2548453P000FL Sa	CRF01 AE	FL	2015	MG989553
2548522	2548522P000FL Se	CRF01 AE	FL	2015	MG989554
2548532	2548532P000L Sa	CRF01 AE/B Recombinant	LH	2015	MG989661
2548532	2548532P000R Se	CRF01 AE/B Recombinant	RH	2015	MG989612
2548609	2548609P000R Se	CRF01 AE (RH)	RH	2015	MG989613
2548820	2548820P000FL Sg	CRF01 AE	FL	2015	MG989558
2549547	2549547P000R Sg	CRF01 AE/B Recombinant (RH)	RH	2015	MG989616
2549813	2549813P000FL Sf	CRF01 AE	FL	2015	MG989568

c) Details of subtype reference sequences (full genome)

Subtype Reference	Sequence Name	Sampling Country	Sampling Year	GenBank Accession
A1	92RW008	RW	1992	AB253421
A1	92UG037 A35	UG	1992	AB253428
A2	97CDKTB48	CD	1997	AF286238
A2	94CY017 41	CY	1994	AF286237
B	RL42	CN	-	U71182
B	HXB2-LAI-IIIB-BRU	FR	1983	K03455
B	BK132	TH	1990	AY173951
B	M041	TH	1996	DQ354114
B	M081	TH	1996	DQ354116
B	US1	US	1990	AY173952
C	BR025-d	BR	1992	U52953
C	ETH2220	ET	1986	U46016
C	95IN21068	IN	1995	AF067155
C	04ZASK146	ZA	2004	AY772699
C	503 11204 34	ZA	2007	KT183264
C	503 06877 19	ZA	2008	KT183178
D	ELI	CD	1983	K03454
D	94UG114	UG	1994	U88824
F1	VI850	BE	1993	AF077336
F1	93BR020 1	BR	1993	AF005494
F2	95CM-MP255	CM	1995	AJ249236
F2	CM53657	CM	1997	AF377956
G	HH8793	KE	1993	AB485662
G	92NG083 JV10832	NG	1992	U88826
H	VI991	BE	1993	AF190127
H	00GBAC4001	GB	2000	FJ711703
J	04CMU11421	CM	2004	GU237072
J	SE9280 7887	SE	1993	AF082394
K	97ZR-EQTB11	CD	1997	AJ249235
K	96CM-MP535	CM	1996	AJ249239
01 AE	97CNGX2F 97CNGX 2F	CN	1997	AY008714
01 AE	05GX001	CN	2005	GU564221
01 AE	CM240	TH	1990	U54771
01 AE	93TH253	TH	1993	U51189
02 AG	pBD6 15	CM	1999	AY271690
02 AG	IBNG	NG	-	L39106
07 BC	98CN009	CN	1998	AF286230
08 BC	97CNGX 6F	CN	1997	AY008715
15 01B	99TH MU2079	TH	1999	AF516184
33 01B	05MYKL007 1	MY	2005	DQ366659
34 01B	OUR2275P	TH	1999	EF165540
48 01B	07MYKT014	MY	2007	GQ175881
51 01B	11SG HM021	SG	2011	JN029801
52 01B	M043	TH	1996	DQ354113

53_01B	11FIR164	MY	2011	JX390610
54_01B	09MYSB023	MY	2009	JX390976
55_01B	HNCS102056	CN	2010	JX574661
58_01B	09MYPR37	MY	2009	KC522031
59_01B	09LNA423	CN	2009	JX960635
67_01B	ANHUI_MAS59	CN	2011	KC183780
68_01B	ANHUI_XC46	CN	2011	KC183783
69_01B	10JP-5091N200	JP	2010	AB845349
74_01B	10MYPR268	MY	2010	KR019771
76_01B	N628	JP	2012	†
78_cpx	YNTC19	CN	2013	KU161143

†CRF76_01B reference sequence archived in the DNA Data Bank of Japan (DDBJ) under accession number SAMD00041168-71.

d) Details of subtype B, B', and J reference sequences (*env* gp160)

Subtype Reference	Sequence Name	Sampling Country	Sampling Year	GenBank Accession
B	8634991	AU	-	AY857144
B	03BR1046	BR	2003	JN692447
B	10BR_MG031_2	BR	2010	KT427841
B	10BR_RJ032	BR	2010	KJ849801
B	10BR_SP052	BR	2010	KT427802
B	502_1191_03	CA	2007	JF320424
B	ZEnv91_0505_12	CH	-	KU600815
B	R9ZPHI39SGA_1_R9	CH	2003	KX792557
B	14CU005	CU	2014	KR914676
B	CY067	CY	2005	FJ388911
B	CY120	CY	2005	FJ388931
B	255524	DE	2008	KT124757
B	822582	DE	2008	KT124794
B	366396	DE	2013	KT124767
B	X2886_2	ES	-	JX422209
B	ARP1195	ES	2014	KT276255
B	DEMB11FR001	FR	2011	KF716496
B	820DEN35	GB	1995	AJ535608
B	R232_F6	GB	2008	HQ595795
B	05HT_129389	HT	2005	EU839602
B	60	JP	1989	AB588232
B	DR2508	JP	2000	AB289587
B	DR7065	JP	2005	AB287368
B	KR5086_C1	KR	1995	AJ417429
B	05CSR3	KR	2005	DQ837381
B	HP-18_07JHS10-3909	KR	2007	KJ140263
B	671_00T36	NL	2000	AY423387
B	BK132	TH	1990	AY173951
B	05TH357801	TH	2005	JN248346
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B	W4541TOB8U	US	-	GU728334
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B	1058_11	US	1998	AY331295
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B	P1189_107_15_1B	US	2003	KT283923
B	1599_A1	US	2005	HQ216785
B	306227_ENV	US	2006	JX863987
B	Z95_p1	US	2006	HQ218034
B	502_0938_RH09	US	2007	JF320630
B	502_1518_RH10	US	2007	JF320099

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J	CG-0331-02V NGSID13	CD	2002	KY392776
J	LA26DiAn	CD	2003	KU168280
J	04CMU11421	CM	2004	GU237072
J	SE9280 7887	SE	1993	AF082394
J	SE9173 7022	SE	1994	AF082395

Table S2. Details of Asia *env* gp160 sequences downloaded from the Los Alamos National Laboratory (LANL) HIV Database and included in the present analysis

Subtype	Sampling Country	Sampling Year	Name	Risk Factor	GenBank Accession
0107	CN	2007	07JSNJ001	PWID	FJ238521
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0107	CN	2011	JL.RF09	SH	KJ184180
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0107	CN	2013	BJMP3002	MSM	KM974719
0107	CN	2013	BJMP3026	MSM	KM974720
0107	CN	2014	XC2014EU09	MSM	KT592380
0107	CN	2014	GXDY460B	SH	KT619126
0107	CN	2015	zj032	N/A	KX159285
0107	CN	2015	SX15DT013	N/A	KY216146
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-	TH	1993	93TH067	N/A	U39258

Guide to abbreviations:

Country	
CN	China
HK	Hong Kong
ID	Indonesia
IN	India
JP	Japan
KH	Cambodia
KR	South Korea
MM	Myanmar
MO	Macau
MY	Malaysia
NP	Nepal
PH	Philippines
PK	Pakistan
SG	Singapore
TH	Thailand
TW	Taiwan
VN	Vietnam

Risk Factor	
EX	Experimental
MB	Mother to child
MSM	Men who have sex with men
N/A	Not recorded, unknown, other
NO	Nosocomial
PB	Blood transfusion
PH	Hemophilic
PWID	People who inject drugs
SB	Bisexual
SG	Homosexual
SH	Heterosexual
SU	Sexual transmission, unknown type
SW	Sex worker

Table S3. Socio-demographic characteristics of SEARCH 010/RV254 participants

Characteristics	
N	303
Age	
Mean (SD)	28.0 (7.5)
Median (IQR)	26 (23-31)
Range	18-57
Gender	
Male (%)	291 (96.0%)
Female (%)	12 (4.0%)
Days from first documented positive HIV RNA	
Mean (SD)	2.34 (0.99)
Median (IQR)	2 (2-3)
Range	0-8
HIV RNA (log₁₀ copies/ml)	
Mean (SD)	5.78 (1.03)
Median (IQR)	5.80 (5.23-6.69)
Range	2.78-7.85
CD4 T cells (cells/mm³)	
Mean (SD)	408.6 (188.7)
Median (IQR)	381 (271-515)
Range	7-1236
Occupation, n (%)	
Private business/factory employee	113 (37.3%)
Student	73 (24.1%)
Unemployed	31 (10.2%)
Business owner	29 (9.6%)
Government officer	22 (7.3%)
Sex worker	10 (3.3%)
Soldier/police	3 (1.0%)
Agriculture	2 (0.7%)
Taxi/Truck driver	2 (0.7%)
Homemaker	1 (0.3%)
Laborer	1 (0.3%)
Other	16 (5.3%)
Number of sexual partners in the past month	
Mean (SD)	2.3 (2.0)
Median (IQR)	2 (1-3)
Range	1-20
Risk factor	
Homosexual male (%)	265 (87.5%)
Bisexual male (%)	14 (4.6%)
Heterosexual male (%)	12 (4.0%)
Heterosexual female (%)	12 (4.0%)
People who inject drugs (%)	0 (0%)

Table S4. RV254 Subtype B V3 loop tip motifs and their global frequencies

Deduced V3 motif (HXB2 7158-7169)	Frequency of V3 motif in Subtype B Strains (LANL, n=122,265)	RV254 Participants with Subtype B Strains
GPGR (Western B consensus)	67.68%	2544072, 2545192, 2548411, 2549720
APGR	4.06%	2544011, 2544829
GPGG	3.04%	2547627
APGQ	0.02%	2548419
GPGQ (Thai B' consensus)	1.31%	None

Table S5. Clusters identified in Asian HIV-1 transmission network

Cluster	Nodes	Country	Subtype	Year	Risk
1	15	VN (11), CN (4)	01_AE (15)	1997 (5), 1998 (8), 1999 (1), N/A (1)	N/A (12), PWID (2), NO (1)
2	14	TH (10), JP (2), ID (1), VN (1)	01_AE (14)	1990 (4), 1992 (2), 1993 (7), 1997 (1)	SH (7), N/A (5), PWID (2)
3	12	CN (12)	07_BC (12)	2007 (7), 2008 (1), 2009 (1), N/A (3)	MSM (9), N/A (3)
4	10	CN (10)	B (10)	2002 (3), 2003 (1), 2004 (1), 2012 (4), N/A (1)	N/A (7), NO (1), PWID (1), SH (1)
5	7	CN (7)	07_BC (7)	1997 (1), 1998 (1), 2005 (1), 2006 (2), N/A (2)	PWID (5), N/A (2)
6	6	CN (6)	01_AE (6)	2005 (2), 2007 (4)	MSM (4), N/A (2)
7	6	MM (6)	83_cpx (6)	2013 (6)	PWID (6)
8	6	CN (6)	08_BC (5), C (1)	1997 (3), 1998 (1), 2007 (1), N/A (1)	PWID (4), N/A (2)
9	6	TH (6)	01_AE (6)	2009 (6)	N/A (6)
10	5	CN (5)	01_AE (5)	2008 (1), 2009 (2), 2010 (2)	MSM (5)
11	5	MM (5)	82_cpx (5)	2013 (5)	PWID (5)
12	5	JP (5)	B (5)	2003 (1), 2004 (1), 2005 (1), 2006 (2)	N/A (5)
13	5	TH (5)	01_AE (5)	1999 (3), 2000 (2)	PWID (5)
14	4	CN (4)	08_BC (4)	2007 (4)	N/A (4)
15	4	CN (4)	08_BC (4)	2007 (4)	N/A (2), PWID (2)
16	4	CN (4)	08_BC (3), C (1)	2007 (4)	N/A (3), PWID (1)
17	3	JP (3)	01_AE (3)	N/A (3)	N/A (3)
18	3	CN (3)	01_AE (3)	2007 (1), 2008 (1), 2010 (1)	MSM (2), SH (1)
19	3	CN (3)	08_BC (3)	2007 (3)	N/A (3)
20	3	CN (3)	01_AE (3)	2002 (3)	SH (3)
21	3	JP (3)	69_01B (3)	2003 (1), 2004 (2)	MSM (3)
22	3	CN (3)	B (3)	2005 (1), 2006 (1), 2007 (1)	N/A (2), PWID (1)
23	3	CN (3)	01_AE (3)	2010 (2), 2011 (1)	MSM (3)
24	3	CN (3)	BC (3)	1996 (3)	PWID (3)
25	3	CN (3)	01_AE (3)	2008 (1), 2009 (2)	MSM (3)
26	3	TH (3)	01_AE (3)	2006 (3)	N/A (3)
27	3	TH (3)	01_AE (3)	1999 (1), N/A (2)	N/A (3)
28	3	CN (3)	08_BC (3)	2007 (3)	N/A (2), PWID (1)
29	3	CN (3)	01_AE (3)	2007 (3)	N/A (2), PWID (1)
30	3	CN (3)	07_BC (3)	2007 (3)	N/A (2), SH (1)
31	3	TH (3)	01_AE (3)	2009 (3)	N/A (3)
32	3	CN (3)	55_01B (3)	2010 (1), 2011 (2)	MSM (3)
33	3	MM (3)	83_cpx (3)	2013 (3)	PWID (3)
34	3	KR (3)	B (3)	1992 (1), 1993 (1), 1995 (1)	N/A (3)
35	3	CN (3)	01_AE (3)	2008 (1), 2009 (2)	MSM (3)
36	3	KR (3)	B (3)	1991 (1), 1992 (1), 1993 (1)	N/A (2), SH (1)
37	2	TH (2)	01_AE (2)	2015 (2)	MSM (2)
38	2	MY (1), SG (1)	51_01B (2)	2009 (1), 2011 (1)	N/A (1), SG (1)
39	2	SG (2)	B (2)	2008 (1), 2009 (1)	N/A (2)
40	2	SG (2)	01_AE (2)	2008 (2)	N/A (2)
41	2	TH (2)	01B (2)	2001 (1), 2002 (1)	PWID (2)
42	2	CN (2)	B (2)	2004 (2)	N/A (2)
43	2	CN (2)	08_BC (2)	2007 (2)	N/A (1), PWID (1)
44	2	KR (2)	B (2)	1991 (1), 1992 (1)	N/A (2)
45	2	PK (2)	C (2)	2014 (2)	MSM (1), SH (1)
46	2	CN (2)	64_BC (2)	2009 (2)	PWID (2)
47	2	TH (2)	01_AE (2)	1993 (2)	N/A (2)
48	2	CN (2)	01_AE (2)	2007 (2)	N/A (1), PWID (1)
49	2	TH (2)	01_AE (2)	2006 (2)	N/A (2)
50	2	KR (2)	B (2)	1992 (2)	N/A (2)
51	2	TH (2)	01_AE (2)	2010 (1), 2013 (1)	MSM (2)
52	2	CN (2)	01B (2)	2013 (2)	MSM (2)
53	2	PK (2)	A1 (2)	2014 (1), 2015 (1)	PWID (2)
54	2	CN (2)	BC (2)	1996 (2)	PWID (2)
55	2	TH (2)	01B (2)	2013 (1), 2015 (1)	MSM (2)
56	2	TH (2)	B (2)	2005 (2)	N/A (2)
57	2	CN (2)	01_AE (1), 0107 (1)	2007 (2)	MSM (1), SG (1)
58	2	TH (2)	01_AE (2)	2005 (1), 2008 (1)	N/A (2)
59	2	TH (2)	01_AE (2)	2004 (2)	N/A (2)
60	2	TH (2)	01_AE (2)	2006 (2)	N/A (2)

61	2	CN (2)	BC (2)	2009 (2)	PWID (2)
62	2	CN (2)	65 cpx (2)	2009 (1), 2010 (1)	SH (2)
63	2	JP (2)	B (2)	2002 (2)	N/A (2)
64	2	CN (2)	01 AE (2)	2002 (2)	PWID (1), SH (1)
65	2	JP (2)	B (2)	N/A (2)	N/A (2)
66	2	TH (2)	B (2)	2005 (2)	N/A (2)
67	2	TH (2)	01 AE (2)	2009 (1), 2010 (1)	MSM (2)
68	2	TH (2)	01 AE (2)	2000 (2)	N/A (2)
69	2	CN (2)	01 AE (2)	2005 (2)	SH (2)
70	2	KR (2)	B (2)	1993 (1), 1995 (1)	PH (1), SG (1)
71	2	CN (2)	01 AE (2)	2007 (2)	SH (2)
72	2	CN (2)	01 AE (2)	2007 (1), 2009 (1)	MSM (1), SH (1)
73	2	CN (2)	07 BC (2)	N/A (2)	N/A (2)
74	2	CN (2)	B (2)	2004 (2)	N/A (1), PB (1)
75	2	CN (2)	01 AE (2)	2009 (1), 2010 (1)	MSM (2)
76	2	TH (2)	01 AE (2)	2006 (2)	N/A (2)
77	2	SG (2)	01 AE (2)	2008 (1), 2009 (1)	N/A (2)
78	2	JP (2)	B (2)	N/A (2)	N/A (2)
79	2	JP (2)	B (1), BF (1)	2004 (1), N/A (1)	N/A (2)
80	2	TH (2)	01 AE (2)	2006 (2)	N/A (2)
81	2	CN (2)	85 BC (2)	2014 (2)	SH (2)
82	2	TH (2)	01B (2)	2006 (2)	N/A (2)
83	2	MY (2)	58 01B (2)	2011 (2)	PWID (2)
84	2	TH (2)	01 AE (2)	2000 (1), N/A (1)	N/A (2)
85	2	JP (2)	01 AE (2)	N/A (2)	N/A (2)
86	2	TH (2)	01 AE (2)	2006 (2)	N/A (2)
87	2	TH (2)	34 01B (2)	1999 (2)	PWID (2)
88	2	TH (2)	01 AE (2)	2006 (2)	N/A (2)
89	2	CN (2)	BC (1), C (1)	2007 (2)	PWID (2)
90	2	CN (2)	07 BC (2)	2004 (1), 2006 (1)	PWID (2)
91	2	CN (2)	01 AE (2)	2006 (2)	N/A (1), PWID (1)
92	2	TH (2)	01 AE (2)	2002 (2)	PWID (2)
93	2	TH (2)	01B (2)	2005 (1), 2007 (1)	N/A (2)
94	2	TH (2)	01 AE (2)	1999 (2)	N/A (1), PWID (1)
95	2	TH (2)	01 AE (2)	2005 (1), 2006 (1)	N/A (1), SH (1)
96	2	TH (2)	01 AE (2)	1999 (1), N/A (1)	N/A (2)
97	2	CN (2)	07 BC (2)	2007 (2)	SH (2)
98	2	TH (2)	01 AE (2)	2009 (2)	N/A (2)
99	2	CN (2)	08 BC (1), C (1)	2007 (2)	N/A (1), PWID (1)
100	2	CN (2)	08 BC (2)	2007 (2)	N/A (2)
101	2	TW (2)	07 BC (1), 07B (1)	2004 (2)	PWID (2)
102	2	TH (2)	01 AE (2)	2006 (2)	N/A (2)
103	2	CN (2)	07 BC (1), BC (1)	2007 (2)	N/A (1), PWID (1)
104	2	CN (2)	B (2)	2004 (2)	N/A (1), SH (1)
105	2	TH (2)	01 AE (2)	1999 (1), 2000 (1)	N/A (2)
106	2	TH (2)	01 AE (2)	1999 (1), 2000 (1)	N/A (2)
107	2	CN (2)	07 BC (2)	2005 (2)	PWID (1), SH (1)
108	2	JP (2)	B (2)	N/A (2)	N/A (2)
109	2	CN (2)	08 BC (2)	2007 (2)	N/A (1), PWID (1)
110	2	TH (2)	01 AE (2)	2006 (2)	N/A (2)
111	2	TH (2)	B (2)	2010 (2)	MSM (1), N/A (1)
112	2	KR (2)	B (2)	2009 (2)	MSM (1), N/A (1)
113	2	KR (2)	B (2)	2009 (2)	MSM (1), SH (1)
114	2	TH (2)	01 AE (2)	2009 (2)	MSM (2)
115	2	CN (2)	01 AE (2)	2007 (1), 2010 (1)	MSM (1), SH (1)
116	2	CN (2)	01 AE (2)	2007 (2)	PWID (2)
117	2	CN (2)	01 AE (2)	2005 (1), 2009 (1)	N/A (1), SH (1)
118	2	CN (2)	01 AE (2)	2005 (1), 2006 (1)	N/A (1), PWID (1)
119	2	CN (2)	59 01B (2)	2009 (1), 2011 (1)	MSM (2)
120	2	IN (2)	C (2)	2014 (1), 2015 (1)	MB (1), N/A (1)
121	2	TH (2)	01 AE (2)	2001 (2)	PWID (2)
122	2	TH (2)	01 AE (2)	1999 (2)	PWID (2)
123	2	JP (2)	69 01B (1), 01B (1)	2003 (1), 2005 (1)	MSM (2)

Table S6. Nodes in Asian HIV-1 transmission network

a) Summary of nodes in transmission network (n=348)

Country	n	%
China (CN)	162	46.6%
Thailand (TH)	98	28.2%
Japan (JP)	27	7.8%
South Korea (KR)	16	4.6%
Myanmar (MM)	14	4.0%
Vietnam (VN)	12	3.4%
Singapore (SG)	7	2.0%
Pakistan (PK)	4	1.1%
Malaysia (MY)	3	0.9%
India (IN)	2	0.6%
Taiwan (TW)	2	0.6%
Indonesia (ID)	1	0.3%
Subtype	n	%
01_AE	162	46.6%
B	57	16.4%
07_BC	32	9.2%
08_BC	29	8.3%
01B	11	3.2%
83_cpx	9	2.6%
BC	9	2.6%
C	8	2.3%
82_cpx	5	1.4%
69_01B	4	1.1%
55_01B	3	0.9%
34_01B	2	0.6%
51_01B	2	0.6%
58_01B	2	0.6%
59_01B	2	0.6%
64_BC	2	0.6%
65_cpx	2	0.6%
85_BC	2	0.6%
A1	2	0.6%
0107	1	0.3%
07B	1	0.3%
BFI	1	0.3%
Risk Factor	n	%
Unknown (N/A)	167	48.0%
People who inject drugs (PWID)	80	23.0%
Men who have sex with men (MSM)	60	17.2%
Heterosexual (SH)	33	9.5%
Homosexual (SG)	3	0.9%
Nosocomial (NO)	2	0.6%
Mother to child (MB)	1	0.3%
Blood transfusion (PB)	1	0.3%
Hemophiliac (PH)	1	0.3%
Sampling Year	n	%
1990	4	1.1%
1991	2	0.6%
1992	7	2.0%
1993	12	3.4%
1995	2	0.6%
1996	5	1.4%
1997	10	2.9%
1998	10	2.9%
1999	14	4.0%
2000	7	2.0%
2001	3	0.9%
2002	13	3.7%
2003	4	1.1%
2004	16	4.6%
2005	19	5.5%

2006	31	8.9%
2007	63	18.1%
2008	10	2.9%
2009	37	10.6%
2010	13	3.7%
2011	7	2.0%
2012	4	1.1%
2013	18	5.2%
2014	6	1.7%
2015	5	1.4%
N/A	26	7.5%

b) Detailed list of nodes in transmission network

Network ID	Country Code	Subtype	Sampling Year	Risk Factor	Name	Accession
CN001	CN	0107	2007	SG	JL070032	KC990127
CN002	CN	01 AE	1997	PWID	97CNGX2F 97CNGX 2F	AY008714
CN003	CN	01 AE	1997	PWID	97CNGX 11F	AY008718
CN004	CN	01 AE	N/A	N/A	GX E 14	AY217545
CN005	CN	01 AE	2005	SH	FJ051	DQ859178
CN006	CN	01 AE	1999	NO	AE01	EU363849
CN007	CN	01 AE	2007	N/A	BJ5 11	GU475024
CN008	CN	01 AE	2005	SH	05GX002	GU564222
CN009	CN	01 AE	2007	MSM	BJOX015000 11 5	HM215377
CN010	CN	01 AE	2007	MSM	BJOX018000 02 3	HM215379
CN011	CN	01 AE	2007	MSM	BJOX021000 03 3	HM215383
CN012	CN	01 AE	2007	MSM	BJOX025000 01 1	HM215386
CN013	CN	01 AE	2007	PWID	CNE28	HM215409
CN014	CN	01 AE	2007	PWID	CNE56	HM215419
CN015	CN	01 AE	2006	PWID	CNE59	HM215422
CN016	CN	01 AE	2005	MSM	CNE62	HM215424
CN017	CN	01 AE	2006	PWID	CNE8	HM215427
CN018	CN	01 AE	2007	N/A	CNE26	HQ699955
CN019	CN	01 AE	2007	N/A	CNE27	HQ699956
CN020	CN	01 AE	2005	N/A	CNE60	HQ699977
CN021	CN	01 AE	2007	PWID	CNE107	HQ699986
CN022	CN	01 AE	2005	N/A	CNE61 U	HQ699987
CN023	CN	01 AE	2006	N/A	CNE91 U	HQ699993
CN024	CN	01 AE	2010	MSM	CYM105	JX112798
CN025	CN	01 AE	2010	MSM	CYM152	JX112807
CN026	CN	01 AE	2007	SH	FJ070013	JX112810
CN027	CN	01 AE	2007	SH	FJ070039	JX112816
CN028	CN	01 AE	2007	N/A	GZ070015	JX112841
CN029	CN	01 AE	2007	PWID	GZ070016	JX112842
CN030	CN	01 AE	2007	SH	JS071004	JX112852
CN031	CN	01 AE	2007	SH	LN070013	JX112856
CN032	CN	01 AE	2007	MSM	TJ070003	JX112859
CN033	CN	01 AE	2002	SH	YN0203	JX112860
CN034	CN	01 AE	2002	SH	YN0225	JX112862
CN035	CN	01 AE	2002	PWID	YN0229	JX112863
CN036	CN	01 AE	2002	SH	YN0232	JX112864
CN037	CN	01 AE	2002	SH	YN0235	JX112865
CN038	CN	01 AE	2009	N/A	ZK052	JX112869
CN039	CN	01 AE	2009	MSM	09LNA008	JX960604
CN040	CN	01 AE	2009	MSM	09LNA011	JX960605
CN041	CN	01 AE	2008	MSM	08LNA003	JX960606
CN042	CN	01 AE	2010	MSM	10LNA124	JX960609
CN043	CN	01 AE	2010	MSM	10LNA819	JX960610
CN044	CN	01 AE	2008	MSM	08LNA002	JX960612
CN045	CN	01 AE	2009	MSM	09LNA020	JX960613
CN046	CN	01 AE	2009	MSM	09LNA230	JX960614
CN047	CN	01 AE	2008	MSM	08LNA004	JX960617
CN048	CN	01 AE	2009	MSM	09LNA041	JX960618
CN049	CN	01 AE	2010	MSM	10LNA294	JX960619
CN050	CN	01 AE	2010	MSM	10LNA918	JX960620
CN051	CN	01 AE	2009	MSM	09LNA425	JX960621
CN052	CN	01 AE	2009	MSM	09LNA013	JX960623

CN053	CN	01 AE	2010	MSM	10LNA669	JX960624
CN054	CN	01 AE	2011	MSM	DE00111CN003	KC596065
CN055	CN	01 AE	2008	SH	BJOX033000.e01	KM218302
CN056	CN	01 AE	2009	MSM	DE00109CN005	KP109504
CN057	CN	01 AE	2005	SH	GX2005002	KP178420
CN058	CN	01B	2013	MSM	BJMP3037B	KP418805
CN059	CN	01B	2013	MSM	BJMP3194B	KP418806
CN060	CN	07 BC	1997	PWID	97CN001 C54	AF286226
CN061	CN	07 BC	1998	N/A	98CN009	AF286230
CN062	CN	07 BC	N/A	N/A	CNGL179	AF503396
CN063	CN	07 BC	2005	SH	XJDC6441	EF368370
CN064	CN	07 BC	2005	PWID	XJN0084	EF368371
CN065	CN	07 BC	2005	PWID	pXJDC6441-2	EF420986
CN066	CN	07 BC	N/A	PWID	BC02_XJ74_2	EU363832
CN067	CN	07 BC	2007	MSM	BJOX011000_01_3	HM215375
CN068	CN	07 BC	2007	MSM	BJOX019000_02_1	HM215380
CN069	CN	07 BC	2007	MSM	BJOX027000_02_1	HM215388
CN070	CN	07 BC	2007	MSM	BJOX029000_03_1	HM215392
CN071	CN	07 BC	2007	SH	CNE19	HM215405
CN072	CN	07 BC	2007	SH	CNE20	HM215406
CN073	CN	07 BC	N/A	N/A	BJ22_5	HQ326125
CN074	CN	07 BC	N/A	N/A	XJ16_6	HQ326133
CN075	CN	07 BC	N/A	N/A	XJ47_5	HQ326134
CN076	CN	07 BC	N/A	N/A	GX33m_25	HQ326141
CN077	CN	07 BC	N/A	N/A	GX45_57	HQ326143
CN078	CN	07 BC	2007	N/A	CNE39	HQ699965
CN079	CN	07 BC	2007	SH	CNE68	HQ699982
CN080	CN	07 BC	2007	N/A	CNE69	HQ699983
CN081	CN	07 BC	2007	N/A	CNE70	HQ699984
CN082	CN	07 BC	2004	PWID	CBJA025	JF346905
CN083	CN	07 BC	2006	PWID	Sichuan_2006_SC020	JX392380
CN084	CN	07 BC	2006	PWID	Sichuan_2006_SC025	JX392381
CN085	CN	07 BC	2006	PWID	Sichuan_2006_SC124	JX392382
CN086	CN	07 BC	2009	MSM	09LNA446	JX960600
CN087	CN	07 BC	2007	MSM	BJ070032	KF250366
CN088	CN	07 BC	2007	MSM	GZ070087	KF250372
CN089	CN	07 BC	2007	MSM	BJOX016000.e02	KM217857
CN090	CN	07 BC	2008	MSM	BJOX037000.e01	KM218157
CN091	CN	08 BC	1998	N/A	98CN006	AF286229
CN092	CN	08 BC	1997	PWID	97CNGX_6F	AY008715
CN093	CN	08 BC	1997	PWID	97CNGX_7F	AY008716
CN094	CN	08 BC	1997	PWID	97CNGX_9F	AY008717
CN095	CN	08 BC	2007	PWID	CNE52	HM215416
CN096	CN	08 BC	2007	PWID	CNE53	HM215417
CN097	CN	08 BC	2007	N/A	CNE22	HQ699952
CN098	CN	08 BC	2007	N/A	CNE24	HQ699953
CN099	CN	08 BC	2007	N/A	CNE25	HQ699954
CN100	CN	08 BC	2007	N/A	CNE29	HQ699957
CN101	CN	08 BC	2007	N/A	CNE32	HQ699958
CN102	CN	08 BC	2007	N/A	CNE33	HQ699959
CN103	CN	08 BC	2007	N/A	CNE35	HQ699961
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