**Supplementary Table 1.** Identities and attributes for the 205 HIV-1-positive sera.

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Clade1 Name Accession Pre-screened

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 A 707010095 HQ615968 Y

 A 707010117 HQ615970 Y

 A 707010240 HQ615971 Y

 A 707010627 HQ615979 Y

 A A220 HQ595767 N

 A I230 HQ595782 N

 A K160 HQ595784 N

 A M160b JF680921 N

 B 700010333 HQ615980 Y

 B 700010464 HQ615981 Y

 B A626 JF680906 N

 B B200 HQ595768 N

 B B400 HQ595769 N

 B B520 HQ595770 N

 B B650c HQ595771 N

 B B653 HQ595772 N

 B BWH\_HIV-025 JF680914 N

 B BWH\_HIV-026 JF680915 N

 B BWH\_HIV-028 JF680916 N

 B BWH\_HIV-029 JF680917 N

 B C500 HQ595774 N

 B C522 JF680907 N

 B C600 JF680909 N

 B C625 JF680910 N

 B CBJC485 JF346916 Y

 B CBJC502 JF346917 Y

 B CBJC507 JF346918 Y

 B CBJC513 JF346919 Y

 B D650 HQ595775 N

 B E214 HQ595776 N

 B E355 HQ595777 N

 B F432b JF680911 N

 B F455b HQ595778 N

 B G125b HQ595779 N

 B G230 HQ595780 N

 B G435 HQ595781 N

 B G652 JF680913 N

 B J525 HQ595783 N

 B K560 HQ595785 N

 B L000b JF680919 N

 B L563 HQ595786 N

 B M263 JF680923 N

 B M425 HQ595788 N

 B M535 HQ595790 N

 B M600c JF680924 N

 B N242 JF680925 N

 B P150 JF680928 N

 B P362 HQ595792 N

 B P362b JF680929 N

 B P400 JF680930 N

 B P430 JF680931 N

 B Q230 HQ595794 N

 B R232 HQ595795 N

 B S200c JF680933 N

 B S225 HQ595797 N

 B S230 HQ595798 N

 B S263 JF680934 N

 B S321 HQ595801 N

 B S520 HQ595802 N

 B T300b JF680936 N

 B T460 HQ595803 N

 B T500105\_286588 JF297222 N

 B T500108\_503963 JF297229 N

 B T516 HQ595804 N

 B T520b HQ595805 N

 B W450b HQ595806 N

 B W452 JF680937 N

 C 100008 HQ625597 Y

 C 100177 KC833437 Y

 C 100206 HQ625598 Y

 C 100239 HQ625600 Y

 C 100248 HQ625602 Y

 C 100255 HQ625603 Y

 C 100256 HQ625604 Y

 C 100257 HQ625605 Y

 C 702010118 HQ615984 Y

 C 703010073 HQ615985 Y

 C 703010085 HQ615986 Y

 C 703010102 HQ615987 Y

 C 703010180 HQ615988 Y

 C 703010479 HQ615962 Y

 C 703010588 HQ615963 Y

 C 703010632 HQ615964 Y

 C 703010760 HQ615982 Y

 C 705010121 HQ615983 Y

 C 705010270 HQ615965 Y

 C 705010528 HQ615966 Y

 C 706010471 HQ615967 Y

 C 707010562 HQ615976 Y

 C C535 JF680908 N

 C J520 JF680918 N

 C M320d HQ595787 N

 C M520c HQ595789 N

 C N341 JF680927 N

 C S315 HQ595800 N

 C SA-C10 HQ625593 Y

 C SA-C101 HQ625580 Y

 C SA-C12 HQ625568 Y

 C SA-C18 HQ625592 Y

 C SA-C2 HQ625595 Y

 C SA-C21 HQ625569 Y

 C SA-C26 HQ625570 Y

 C SA-C3 HQ625566 Y

 C SA-C32 HQ625590 Y

 C SA-C34 HQ625571 Y

 C SA-C36 HQ625589 Y

 C SA-C37 HQ625572 Y

 C SA-C44 HQ625588 Y

 C SA-C48 HQ625573 Y

 C SA-C61 HQ625587 Y

 C SA-C62 HQ625574 Y

 C SA-C67 HQ625575 Y

 C SA-C72 HQ625585 Y

 C SA-C74 HQ625576 Y

 C SA-C75 HQ625584 Y

 C SA-C76 HQ625577 Y

 C SA-C8 HQ625594 Y

 C SA-C80 HQ625565 Y

 C SA-C82 HQ625583 Y

 C SA-C86 HQ625578 Y

 C SA-C87 HQ625582 Y

 C SA-C9 HQ625567 Y

 C SA-C90 HQ625579 Y

 C SA-C91 HQ625581 Y

 C T125 JF680935 N

 D 707010549 HQ615975 Y

 D N320b JF680926 N

 D N535 HQ595791 N

 AC 707010258 HQ615972 Y

 AC 707010277 HQ615973 Y

 AC 707010585 HQ615977 Y

 AC S230b HQ595799 N

 AD 707010100 HQ615969 Y

 AD C200 HQ595773 N

 AD P534 HQ595793 N

 CD 707010598 HQ615978 Y

 ABCD G510 JF680912 N

 ABCD M260 JF680922 N

 01 707010339 HQ615974 Y

 01 R163b JF680932 N

 01 T500104\_276248 JF297221 N

 01 T500105\_293735 JF297223 N

 01 T500105\_500617 JF297224 N

 01 T500106\_501602 JF297225 N

 01 T500107\_357545 HQ690973 N

 01 T500107\_535902 JF297232 N

 01 T500204\_502281 JF297227 N

 01 T500206\_614109 JF297233 N

 01 T500207\_502102 JF297226 N

 01 T500207\_503006 JF297228 N

 01 T500207\_509989 JF297231 N

 01 T500208\_504258 JF297230 N

 01 T500104\_256254 KC748972 N

 02 A530b JF680905 N

 02 S163 HQ595796 N

 07 CBJ008 JF346900 Y

 07 CBJA017 JF346901 Y

 07 CBJA021 JF346902 Y

 07 CBJA022 JF346903 Y

 07 CBJA023 JF346904 Y

 07 CBJA025 JF346905 Y

 07 CBJA028 JF346906 Y

 07 CBJA552 JF346907 Y

 07 CBJA555 JF346908 Y

 07 CBJA556 JF346909 Y

 07 CBJA557 JF346910 Y

 07 CBJA558 JF346911 Y

 07 CBJA561 JF346912 Y

 07 CBJA563 JF346913 Y

 07 CBJA570 JF346914 Y

 07 CBJB347 JF346915 Y

 NA 700010555 NA Y

 NA 707010013 NA Y

 NA A320 NA N

 NA A400d NA N

 NA A530 NA N

 NA B622 NA N

 NA B650d NA N

 NA BWH\_HIV-014 NA N

 NA BWH\_HIV-017 NA N

 NA BWH\_HIV-018 NA N

 NA BWH\_HIV-019 NA N

 NA BWH\_HIV-020 NA N

 NA BWH\_HIV-021 NA N

 NA BWH\_HIV-022 NA N

 NA BWH\_HIV-023 NA N

 NA BWH\_HIV-024 NA N

 NA C520 NA N

 NA C550 NA N

 NA C650b NA N

 NA D250b NA N

 NA G363b NA N

 NA H630 NA N

 NA J540 NA N

 NA K152 NA N

 NA M153 NA N

 NA M246 NA N

 NA O325 NA N

 NA P636 NA N

 NA S143 NA N

 NA S451 NA N

 NA S640 NA N

 NA SA-C55 NA Y

 NA SA-C63 NA Y

 NA V563 NA N

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1NA indicates that *env* amplification was unsuccessful.

**Supplementary Table 2.** Identities and attributes for the complete panel of 219 tier 2 Env-pseudotyped viruses assayed with HIV-1 sera and bnAbs.

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 Assayed with

Clade Stage1 Country2 Accession Name bnAbs

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 A E KE AF407152 Q259.d2.17 Y

 A E KE AF407158 Q769.d22 Y

 A E KE AF407160 Q842.d12 Y

 A E UG HM215266 191084.B7-19 Y

 A E UG HM215272 191955\_A11 Y

 A E UG HM215350 9004SS\_A3\_4 Y

 A I KE HM215275 21020\_13 N

 A I RW HM215434 R18553\_E1 N

 A L KE DQ187010 MS208\_A1 Y

 A NA TZ HM215312 398\_F1\_F6\_20 N

 B E US EU289184 1012\_11\_TC21\_3257 Y

 B E US EU289186 1056\_10\_TA11\_1826 Y

 B E IT AY835445 TRO\_11 Y

 B E TT AY835441 SC422661\_8 Y

 B E TT EU289200 SC05\_8C11\_2344 Y

 B E US AY835446 AC10.0.29 Y

 B E US AY835447 RHPA4259\_7 Y

 B E US AY835448 THRO4156\_18 Y

 B E US AY835449 REJO4541\_67 Y

 B E US AY835451 WITO4160\_33 Y

 B E US EU289183 1006\_11\_C3\_1601 Y

 B E US EU289185 1054\_07\_TC4\_1499 Y

 B E US EU289189 62357\_14\_D3\_4589 Y

 B E US EU289190 6240\_08\_TA5\_4622 Y

 B E US EU289191 6244\_13\_B5\_4576 Y

 B E US EU289202 WEAU\_d15\_410\_5017 Y

 B E IT AY835444 PVO\_4 Y

 B E US AY835450 TRJO4551\_58 Y

 B E TH JQ352781 402288\_c01 N

 B E TT AY835440 QH0515\_1 N

 B E TT EU289201 SC45\_4B5\_2631 N

 B E US AY835443 BG1168\_1 N

 B E US EU289187 1058\_11\_B11\_1550 N

 B E US EU289188 1059\_09\_A4\_1460 N

 B E US EU289192 63358\_04\_P3\_4013 N

 B E US EU289194 700010058\_A4\_4375 N

 B E US EU289198 PRB931\_06\_TC3\_4930 N

 B E US EU289199 PRB958\_06\_TB1\_4305 N

 B E US EU575170 1051\_12\_TD12\_3291 N

 B E US EU575786 9014\_01\_TB1\_4769 N

 B E US EU575870 9020\_20\_A13\_4607 N

 B E US EU576296 BORI\_d9\_4D7\_1410 N

 B I US AY835438 6535\_3 Y

 B I TT AY835439 QH0692\_42 Y

 B I US AY835452 CAAN5342.A2 Y

 B I US EU289193 700010040\_C9\_4520 N

 B I ES FJ817366 X2278\_C2\_B6 N

 B I US AY835434 6101\_10 N

 B I US AY835437 7165\_18 N

 B L PE EF210726 H029\_12 N

 B L PE EF210732 H086\_8 N

 B L PE EF210727 H030\_7 N

 B L PE EF210728 H031\_7 N

 B L PE EF210735 H080\_23 N

 B L PE EF210729 H035\_18 N

 B L PE EF210730 H061\_14 N

 B L PE EF210733 H078\_14 N

 B L CN HM215398 CNE11 N

 B L CN HM215423 CNE6 N

 B L CN HM215428 CNE9 N

 B NA TH HM215431 NKR\_0512\_8 N

 B NA TH HM215435 RPW\_0510\_2 N

 B NA TT EU577190 TT29P\_3A1\_2769 N

 C E IN EF117272 HIV-25711-2.4 N

 C E IN EF117273 HIV-25925-2.22 N

 C E IN EF117266 HIV-001428-2.42 Y

 C E IN EF117268 HIV-16055-2.3 Y

 C E IN EF117270 HIV-16936-2.21 N

 C E IN EF117274 HIV-26191-2.48 N

 C E ZA DQ411852 Du156.12 Y

 C E ZA DQ435682 CAP45.2.00.G3 Y

 C E ZA DQ435683 CAP210.2.00.E8 Y

 C E ZM DQ388514 ZM249M\_PL1 Y

 C E MW FJ443999 7030102001E5(Rev-) Y

 C E MW FJ444017 Ce703010228\_1C4 N

 C E MW FJ444215 Ce0393\_C3 Y

 C E MW FJ444325 Ce0682\_E4 Y

 C E MW FJ444395 Ce1086\_B2 Y

 C E MW FJ444421 Ce1172\_H1 Y

 C E MW FJ444437 Ce1176\_A3 Y

 C E MW FJ444529 1394C9G1(Rev-) Y

 C E MW FJ444561 Ce2010\_F5 Y

 C E MW FJ444600 Ce2060\_G9 Y

 C E MW FJ444612 Ce2103\_E8 N

 C E MW HM215360 BF1266.431a N

 C E TZ HM215294 3301.v1.c24 Y

 C E TZ HM215307 3728.v2.c6 N

 C E ZA FJ443670 Ce704010083\_B8 N

 C E ZA FJ443744 Ce704010042\_2E5 N

 C E ZA FJ444059 7060101641A7(Rev-) N

 C E ZA FJ444103 Ce704809221\_1B3 Y

 C E ZM FJ496194 246F\_C1G Y

 C E ZM FJ496204 ZM247v1(Rev-) Y

 C I IN EF117265 HIV-00836-2.5 N

 C I IN EF117271 HIV-25710-2.43 N

 C I ZM AY424138 ZM109F\_PB4 Y

 C I ZM DQ388515 ZM197M\_PB7 Y

 C I IN EF117269 HIV-16845-2.22 Y

 C I ZA DQ411850 Du123.6 N

 C I ZA DQ411851 Du151.2 N

 C I ZA DQ411853 Du172.17 Y

 C I ZA DQ411854 Du422.1 Y

 C I ZM AY423984 ZM53M\_PB12 Y

 C I ZM AY424079 ZM135M\_PL10a Y

 C I ZM DQ388516 ZM214M\_PL15 Y

 C I ZM DQ388517 ZM233M\_PB6 Y

 C I MW FJ443575 Ce703010217\_B6 N

 C I MW FJ443808 Ce703010054\_2A2 Y

 C I TZ HM215278 234\_F1\_16\_57 N

 C I TZ HM215289 3168.v4.c10 N

 C I TZ HM215305 3637.v5.c3 N

 C I TZ HM215314 410\_F2\_1\_30 N

 C I TZ HM215316 541\_F1\_A7\_2 N

 C I TZ HM215318 569\_F1\_37\_10 N

 C I TZ HM215320 6040.v4.c15 N

 C I TZ HM215328 6471.v1.c16 N

 C I TZ HM215338 6785.v5.c14 N

 C I TZ HM215354 98\_F4\_H5\_13 N

 C I ZA FJ444047 Ce706010018\_2E3 N

 C L BR U15121 92BR025\_9 N

 C L CN HM215403 CNE17 Y

 C L CN HM215408 CNE23 N

 C L CN HM215411 CNE30 Y

 C L CN HM215412 CNE31 N

 C L CN HM215416 CNE52 Y

 C L ZA HM215437 TV1\_21 N

 C NA MW HM215361 BF1677F2\_613a N

 C NA MW HM215362 BF942\_218d N

 C NA TH HM215433 PWJ\_0513\_39 N

 C NA TZ HM215319 6022\_v7\_c24 N

 D E TZ HM215283 3016.v5.c45 Y

 D E UG HM215269 191727\_F6 N

 D E UG HM215270 191821\_E6\_1 Y

 D E UG JQ361079 231965.c01 Y

 D NA UG HM215357 A07412M1.vrc12 Y

 G I ES EU885763 X1854\_c2\_10 N

 G L CM EU513190 252\_7 N

 G L ES EU885762 X1254\_c3 Y

 G L ES EU885765 X2160\_c25 N

 G L ES FJ817370 X1632\_S2\_B10 Y

 G L GH EU885764 X2088.c9 Y

 G NA ES EU885761 X1193.c1 Y

 G NA ES FJ817369 P1981\_C5\_3 Y

 01 E CN HM215372 BJOX009000.02.4 Y

 01 E CN HM215373 BJOX010000.06.2 Y

 01 E CN HM215377 BJOX015000.11.5 Y

 01 E CN HM215386 BJOX025000.01.1 Y

 01 E CN HM215389 BJOX028000.10.3 Y

 01 E TH JN944655 427299.c12 N

 01 E TH JN944659 816763.c02 N

 01 E TH JN944656 620345.c01 Y

 01 L CN HM215409 CNE28 N

 01 L CN HM215415 CNE5 Y

 01 L CN HM215418 CNE55 N

 01 L CN HM215427 CNE8 Y

 01 L TH AF259954 C3347.c11 Y

 01 L TH JN944660 C1080.c03 Y

 01 L TH JN944661 C2101.c01 Y

 01 L TH JN944665 R2184.c04 Y

 01 L TH JQ352782 C4118.c09 Y

 01 L TH JQ352783 R1166.c01 Y

 01 NA TH HM215429 KSS\_0514\_13 N

 01 NA TH HM215432 PSR\_0508\_2 N

 01 NA TH HM215436 SPK\_0525\_13 N

 02 L CM EU513188 242\_14 N

 02 L CM EU513182 263-8 Y

 02 L CM EU513183 T280\_5 N

 02 L CM EU513184 T255\_34 Y

 02 L CM EU513187 211\_9 Y

 02 L CM EU513189 T250\_4 Y

 02 L CM EU513193 T266\_60 N

 02 L CM EU513194 269\_12 N

 02 L CM EU513195 235\_47 Y

 02 L CM EU513196 T251\_18 Y

 02 L CM EU513198 T278\_50 Y

 02 L SN HM215264 1105\_p17\_1 N

 02 L SN HM215281 2705\_p18\_1 N

 02 L SN HM215290 3169\_p4 N

 02 L SN HM215293 3273\_p21\_1 N

 02 NA CM EU513185 T257\_31 Y

 06 L SN HM215265 1656\_p21 N

 07 E CN HM215364 BJOX002000.03.2 N

 07 E CN HM215380 BJOX019000.02.1 N

 07 L CN EF117258 CH111\_8 N

 07 L CN EF117259 CH181\_12 N

 07 L CN EF117261 CH119\_10 N

 07 L CN EF117262 CH117\_4 N

 07 L CN EF042692 CH038\_12 N

 07 L CN EF117255 CH070\_1 N

 07 L CN EF117260 CH120\_6 N

 07 L CN EF117263 CH115\_12 N

 07 L CN EF117264 CH114\_8 N

 07 L CN HM215405 CNE19 Y

 07 L CN HM215406 CNE20 Y

 07 L CN HM215407 CNE21 Y

 14 L PT EU885766 X2252.c7 N

 AC E KE HM215276 21023\_B4 N

 AC E TZ HM215321 6041.v3.c23 Y

 AC I TZ HM215279 246\_F3\_C10\_2 N

 AC I TZ HM215288 3103.v3.c10 Y

 AC I TZ HM215315 477\_F3\_13\_55 N

 AC NA TZ HM215332 6545.v4.c1 Y

 AD E UG HM215273 192018\_B1\_9 N

 AD I TZ HM215301 3468.v1.c12 N

 AD I UG HM215274 193003\_B10 N

 AD I UG HM215280 270015\_J5\_1 N

 AD NA KE AF407156 Q461.e2 Y

 ACD I TZ HM215260 0815.v3.c3 Y

 BC L CN HM215401 CNE15 N

 BC L CN HM215402 CNE16 N

 BC L CN HM215404 CNE18 N

 BC L CN HM215425 CNE67 N

 BG NA CH EU885760 X1100.c7 N

 CD I TZ HM215296 3326.v4.c3 N

 CD I TZ HM215313 401\_F1\_8\_10 N

 CD NA TZ HM215310 3817.v2.c59 Y

 CD NA TZ HM215329 6480.v4.c25 Y

 CD NA TZ HM215340 6811.v7.c18 Y

 CD NA TZ HM215343 6952.v1.c20 Y

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1Infection stage of sample from which virus was isolated, where known: E (early) Fiebig I-IV; I (intermediate) Fiebig V-VI; L (late) Fiebig VI – Chronic. NA, not known.

2Country of origin indicated using the ISO standard 2-letter designations : KE, Kenya; UG, Uganda; RW, Rwanda; TZ, Tanzania; USA, United States of America; IT, Italy; TT, Trinidad/Tobago; TH, Thailand; ES, Spain; PE, Peru; CN, China; IN, India; ZA, South Africa; ZM, Zambia; MW, Malawi; BR, Brazil; CM, Cheng Mai; GH, Ghana; SN, Senegal; PT, Portugal; CH, Switzerland.

**Supplementary Table 3.** Additional tier 2 Env-pseudotyped viruses assayed with bnAbs.

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Clade Stage1 Country2 Accession Name

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 A L TZ HM215256 0260.v5.c36

 A L TZ HM215257 0330.v4.c3

 A L TZ HM215298 3365.v2.c20

 A L TZ HM215299 3415.v1.c1

 A L KE AF004885 Q23.17

 C E ZM EU166866 249M\_B10

 C E IN EF117267 HIV-0013095-2.11

 D E UG HM215356 231966.c02

 G L PT EU885759 P0402\_c2\_11

 G NA ES FJ817368 X2131\_C1\_B5

 CRF01 E TH JN944658 703357.c02

 CRF01 L TH AF009393 R3265.c06

 CRF02 NA CI EU513199 928-28

 BC L CN HM215417 CNE53

 BC L CN HM215421 CNE58

 CD E TZ HM215349 89-F1\_2\_25

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1Infection stage of sample from which virus was isolated, where known: E (early) Fiebig I-IV; L (late) Fiebig VI – Chronic.

2Country of origin: KE, Kenya; UG, Uganda; TZ, Tanzania; IT, Italy; TH, Thailand; ES, Spain; CN, China; IN, India; ZM, Zambia; PT, Portugal; CI, Cote d’Ivoire.