

Phylogeography of Influenza A(H3N2) Virus in Peru, 2010–2012

Technical Appendix



Technical Appendix Figure. Maximum-likelihood phylogeny of hemagglutinin sequences from Peru and other regions of the world, temporally rooted (A/Hong Kong/52390/2004). All tip labels are included and nodes are annotated by bootstrap (http://wwwnc.cdc.gov/eid/images/15-0084_TechApp-F.jpg). Fine detail may be viewed using the zoom function in PDF viewer software. Colored tip labels refer to global regions in the context of Peruvian taxa: Peru (red), Asia including East Asia and SE Asia (deep blue), Europe (yellow), North America including USA (excluding Hawaii), Mexico and Canada (green), Caribbean and Central/South America excluding Peru (black), Africa (pink), Australia, New Zealand and Oceania (including Hawaii) (light blue), Middle East/Central Asia/South Asia and Russia (brown). Nodes and branches have not been assigned a geographic location.

Technical Appendix Table 1. Accession numbers of Peruvian strains sequenced from this study

| Accession nos. | | | | | | |
|----------------|------------|------------|------------|------------|------------|------------|
| CY160276.1 | CY160768.1 | CY161240.1 | CY161736.1 | CY162224.1 | CY162704.1 | CY163184.1 |
| CY160281.1 | CY160776.1 | CY161248.1 | CY161744.1 | CY162232.1 | CY162712.1 | CY163192.1 |
| CY160288.1 | CY160784.1 | CY161256.1 | CY161752.1 | CY162240.1 | CY162720.1 | CY163200.1 |
| CY160296.1 | CY160792.1 | CY161264.1 | CY161760.1 | CY162248.1 | CY162728.1 | CY163208.1 |
| CY160304.1 | CY160800.1 | CY161272.1 | CY161768.1 | CY162256.1 | CY162736.1 | CY163216.1 |
| CY160312.1 | CY160808.1 | CY161280.1 | CY161776.1 | CY162264.1 | CY162744.1 | CY163224.1 |
| CY160320.1 | CY160816.1 | CY161288.1 | CY161784.1 | CY162272.1 | CY162752.1 | CY163240.1 |
| CY160328.1 | CY160824.1 | CY161296.1 | CY161792.1 | CY162280.1 | CY162760.1 | CY163248.1 |
| CY160336.1 | CY160832.1 | CY161304.1 | CY161800.1 | CY162288.1 | CY162768.1 | CY163256.1 |
| CY160344.1 | CY160840.1 | CY161312.1 | CY161808.1 | CY162296.1 | CY162776.1 | CY163264.1 |
| CY160352.1 | CY160848.1 | CY161320.1 | CY161816.1 | CY162304.1 | CY162784.1 | CY163272.1 |
| CY160360.1 | CY160856.1 | CY161328.1 | CY161824.1 | CY162312.1 | CY162792.1 | CY163280.1 |
| CY160368.1 | CY160864.1 | CY161336.1 | CY161832.1 | CY162320.1 | CY162800.1 | CY163288.1 |
| CY160376.1 | CY160872.1 | CY161344.1 | CY161840.1 | CY162328.1 | CY162808.1 | CY163296.1 |
| CY160384.1 | CY160880.1 | CY161352.1 | CY161848.1 | CY162336.1 | CY162816.1 | CY163304.1 |
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| CY160400.1 | CY160896.1 | CY161368.1 | CY161864.1 | CY162352.1 | CY162832.1 | CY163320.1 |
| CY160408.1 | CY160904.1 | CY161376.1 | CY161872.1 | CY162360.1 | CY162840.1 | CY163328.1 |
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| CY160424.1 | CY160920.1 | CY161392.1 | CY161888.1 | CY162376.1 | CY162856.1 | CY163344.1 |
| CY160432.1 | CY160928.1 | CY161400.1 | CY161896.1 | CY162384.1 | CY162864.1 | CY163352.1 |
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| CY160448.1 | CY160944.1 | CY161416.1 | CY161912.1 | CY162400.1 | CY162880.1 | CY163368.1 |
| CY160456.1 | CY160952.1 | CY161424.1 | CY161920.1 | CY162408.1 | CY162888.1 | CY163376.1 |
| CY160464.1 | CY160960.1 | CY161432.1 | CY161928.1 | CY162416.1 | CY162896.1 | CY163384.1 |
| CY160472.1 | CY160968.1 | CY161440.1 | CY161936.1 | CY162424.1 | CY162904.1 | CY163392.1 |
| CY160480.1 | CY160976.1 | CY161448.1 | CY161944.1 | CY162432.1 | CY162912.1 | CY163400.1 |
| CY160488.1 | CY160984.1 | CY161456.1 | CY161952.1 | CY162440.1 | CY162920.1 | CY161720.1 |
| CY160496.1 | CY160992.1 | CY161464.1 | CY161960.1 | CY162448.1 | CY162928.1 | CY161728.1 |
| CY160504.1 | CY161000.1 | CY161472.1 | CY161968.1 | CY162456.1 | CY162936.1 | CY162216.1 |
| CY160512.1 | CY161008.1 | CY161480.1 | CY161976.1 | CY162464.1 | CY162944.1 | CY162696.1 |
| CY160520.1 | CY161016.1 | CY161488.1 | CY161984.1 | CY162472.1 | CY162952.1 | CY163176.1 |
| CY160528.1 | CY161024.1 | CY161496.1 | CY161992.1 | CY162480.1 | CY162960.1 | |
| CY160536.1 | CY161032.1 | CY161504.1 | CY162000.1 | CY162488.1 | CY162968.1 | |
| CY160544.1 | CY161040.1 | CY161512.1 | CY162008.1 | CY162496.1 | CY162976.1 | |
| CY160560.1 | CY161048.1 | CY161520.1 | CY162016.1 | CY162504.1 | CY162984.1 | |
| CY160568.1 | CY161056.1 | CY161528.1 | CY162032.1 | CY162512.1 | CY162992.1 | |
| CY160576.1 | CY161064.1 | CY161536.1 | CY162040.1 | CY162520.1 | CY163000.1 | |
| CY160584.1 | CY161072.1 | CY161544.1 | CY162048.1 | CY162528.1 | CY163008.1 | |
| CY160592.1 | CY161080.1 | CY161552.1 | CY162056.1 | CY162536.1 | CY163016.1 | |
| CY160600.1 | CY161088.1 | CY161560.1 | CY162064.1 | CY162544.1 | CY163024.1 | |
| CY160608.1 | CY161096.1 | CY161568.1 | CY162072.1 | CY162552.1 | CY163032.1 | |
| CY160616.1 | CY161104.1 | CY161576.1 | CY162080.1 | CY162560.1 | CY163040.1 | |
| CY160624.1 | CY161112.1 | CY161584.1 | CY162088.1 | CY162568.1 | CY163048.1 | |
| CY160632.1 | CY161120.1 | CY161592.1 | CY162096.1 | CY162576.1 | CY163056.1 | |
| CY160648.1 | CY161128.1 | CY161600.1 | CY162104.1 | CY162584.1 | CY163064.1 | |
| CY160656.1 | CY161136.1 | CY161608.1 | CY162112.1 | CY162592.1 | CY163072.1 | |
| CY160664.1 | CY161144.1 | CY161616.1 | CY162120.1 | CY162600.1 | CY163080.1 | |
| CY160672.1 | CY161152.1 | CY161624.1 | CY162128.1 | CY162608.1 | CY163088.1 | |
| CY160680.1 | CY161160.1 | CY161632.1 | CY162136.1 | CY162616.1 | CY163096.1 | |
| CY160688.1 | CY161168.1 | CY161640.1 | CY162144.1 | CY162624.1 | CY163104.1 | |
| CY160696.1 | CY161176.1 | CY161656.1 | CY162152.1 | CY162632.1 | CY163112.1 | |
| CY160704.1 | CY161184.1 | CY161664.1 | CY162160.1 | CY162640.1 | CY163120.1 | |
| CY160720.1 | CY161192.1 | CY161672.1 | CY162168.1 | CY162648.1 | CY163128.1 | |
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| CY160744.1 | CY161216.1 | CY161696.1 | CY162192.1 | CY162672.1 | CY163152.1 | |
| CY160752.1 | CY161224.1 | CY161704.1 | CY162200.1 | CY162680.1 | CY163160.1 | |
| CY160760.1 | CY161232.1 | CY161712.1 | CY162208.1 | CY162688.1 | CY163168.1 | |

Technical Appendix Table 2. Background GenBank sequences for the Pacific Islands, Americas, and Europe

| Pacific Islands | Mexico, Central America, and Caribbean | | | | | |
|-----------------|--|-----------------------|------------------------|----------|---------------|----------|
| | Eastern United States | Western United States | Canada and Alaska, USA | Europe | South America | |
| CY130191 | KF789944 | KC893099 | KC882748 | CY088899 | HQ880599 | HM628693 |
| CY141203 | KC892790 | KC892863 | KF789947 | CY074843 | JF327387 | HM628694 |
| CY141204 | KC892482 | KF790270 | KC535500 | CY074747 | JF327386 | CY093407 |
| CY147307 | KF789560 | KF790275 | KC892853 | CY070951 | JX518887 | CY093415 |
| CY147308 | KC883350 | KC882759 | KF790212 | CY088891 | CY114501 | JN872427 |
| CY147309 | KC892934 | KF790514 | KF790407 | CY073869 | CY114509 | JN872405 |
| CY147310 | KC892860 | KC882781 | KC535486 | CY074779 | CY114421 | JN872406 |
| KC535402 | KF790032 | KC882493 | KC892629 | CY098081 | CY114553 | JN872407 |
| KC535444 | KC883362 | CY141180 | KF790118 | CY088995 | CY093391 | JN872408 |
| KC882467 | KC892856 | KC513483 | KC882754 | CY074795 | CY093399 | JN872409 |
| KC882647 | KF790482 | KC513484 | KF790088 | CY070943 | JX913067 | JN872412 |
| KC882762 | KC883000 | KC513479 | KC892601 | CY074763 | JX913019 | JN872414 |
| KC882769 | KC535302 | KC513482 | KF790391 | CY074731 | JX913027 | KF142477 |
| KC883166 | KC883367 | KC513477 | KC882787 | CY088915 | JX913035 | JN872420 |
| KC883193 | KC892174 | KC892796 | KC882453 | CY092305 | JX913059 | CY070144 |
| KC892157 | KF790361 | KC882483 | KF790378 | CY074915 | JX913011 | JN872423 |
| KC892204 | KC883054 | KF790153 | KF789569 | CY088851 | JX913072 | JN872421 |
| KC892382 | KC892724 | KC883183 | KC883393 | CY070959 | JX913074 | JN872418 |
| KC892397 | KC882657 | KC893075 | KC883090 | CY074739 | JX913079 | JN872417 |
| KC892459 | KC883275 | KC535428 | KC883402 | CY088907 | JX913003 | JN872415 |
| KC892661 | KC883253 | KF790455 | KC883438 | CY074931 | JX913043 | JN872413 |
| KC892764 | KC882583 | KF790509 | KC892536 | CY074699 | JX913051 | KC291190 |
| KC892772 | KC882690 | KF790517 | KC892914 | CY088971 | JX978770 | JN872429 |
| KC892786 | KC883179 | KC882902 | KC892420 | CY074771 | KC488834 | JN872416 |
| KC892959 | KF789968 | KF789546 | KC892668 | CY088843 | KC488809 | JN872410 |
| KC893140 | KC892899 | KF789906 | KF790196 | CY088979 | JX978740 | KF142476 |
| KC893145 | KC883449 | KF789535 | KF790216 | CY092313 | KC488843 | JN872422 |
| | KC535396 | KC535295 | KF790184 | CY074827 | KC488827 | JN872424 |
| | KC882692 | KC882908 | KF790195 | CY074875 | KC488826 | JN872411 |
| | KC893147 | KF789627 | KF790238 | CY074891 | KC135510 | HM628692 |
| | KC892260 | KC883270 | KF790255 | CY098073 | JQ988033 | JN872425 |
| | CY134637 | KC892437 | KF789796 | CY088955 | KC488837 * | JN872426 |
| | CY134638 | KC882651 | CY134659 | CY088987 | CY093567 | JN872428 |
| | CY134648 | KC883338 | CY147301 | CY088867 | CY093575 | JN872419 |
| | CY134649 | KC892364 | KF598716 | CY074803 | KC135496 | KC291191 |
| | KC892544 | KF789840 | KF598717 | CY092289 | KC135504 | KX679214 |
| | CY141185 | KC883292 | KF598718 | CY088939 | KC135500 | EU716428 |
| | CY141186 | KC892367 | KF598719 | CY074675 | KC135508 | CY121632 |
| | CY141187 | KC883093 | KF598720 | CY074707 | JN940429 | EU716426 |
| | CY141188 | KC892829 | KF598721 | CY089003 | JN940431 | EU716429 |
| | CY141189 | KF789739 | KF598722 | CY074835 | KC135506 | |
| | CY141190 | KC892985 | KF598723 | CY070935 | KC135502 | |
| | CY141191 | KC892850 | KF598724 | CY074867 | KC135498 | |
| | CY141192 | KC882777 | KF598725 | CY074899 | JN940427 | |
| | CY141193 | KC882784 | KF598702 | CY074819 | CY114538 | |
| | CY141194 | KC892253 | KF598728 | CY088883 | CY114558 | |
| | CY141195 | CY120885 | KF598703 | CY074923 | JX978743 | |
| | CY141196 | KC892971 | KF598729 | CY089011 | KC488812 | |
| | CY141197 | KC892677 | KF598704 | CY088931 | JX978737 | |
| | CY141199 | KC892655 | KF598730 | CY074691 | KC488807 | |
| | CY141200 | KC882482 | KF598705 | CY089027 | CY114533 | |
| | CY147291 | KC892638 | KF598706 | CY074859 | JX978734 | |
| | KF789983 | CY147299 | KF598732 | CY088875 | JX978761 | |
| | KF790197 | CY147305 | KF598707 | CY088774 | KC488820 | |
| | KC892953 | KC892641 | KF598733 | CY074907 | JX978746 | |
| | KC882724 | KC892490 | KF598708 | CY088859 | KC488815 | |
| | KC882462 | KC892747 | KF598709 | CY088790 | JX978764 | |
| | KF789585 | KF790448 | KF598710 | CY088947 | JX978767 | |
| | KF790050 | KF790054 | KF598711 | CY074851 | KC488831 * | |
| | KF142471 | KF789927 | KF598712 | CY088782 | KC488823 | |
| | KC883203 | KF789534 | KF598713 | CY074811 | JX978776 | |
| | KF790330 | CY091581 | KF598714 | CY093117 | CY114548 | |
| | KC893107 | CY092281 | CY111004 | CY092297 | KC135512 | |
| | KC893166 | CY092265 | KF551068 | CY088923 | JQ988045 | |
| | KF789614 | CY092273 | KC526207 | CY070927 | CY110774 | |
| | KF790532 | KF199854 | CY111005 | CY098065 | CY110775 | |
| | KF789660 | CY068081 | KC526208 | CY074883 | CY110776 | |
| | KC882545 | KC882579 | CY111007 | CY089019 | KC488817 | |
| | KC883261 | KC882584 | CY111006 | CY074715 | | |

| Pacific Islands | Eastern United States | Western United States | Canada and Alaska, USA | Mexico, Central America, and Caribbean | Europe | South America |
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| | KC882523 | KF790512 | KC526210 | CY088963 | | |
| | KC883427 | KC883258 | CY111008 | CY074683 | | |
| | KC892576 | KC893012 | KF551069 | CY103791 | | |
| | KC892723 | KF789646 | KC526211 | CY074755 | | |
| | KC882447 | KC882644 | CY111011 | CY074787 | | |
| | KC892236 | KF789567 | KC526212 | CY074723 | | |
| | KC892696 | KC892376 | CY111009 | CY093375 | | |
| | KF789664 | KC883221 | KC526213 | CY093471 | | |
| | KF789667 | KC883246 | CY111010 | CY093479 | | |
| | CY141209 | KC892462 | KC526214 | CY093503 | | |
| | CY141210 | KC892968 | KF551070 | CY093511 | | |
| | CY141211 | KC892227 | CY111013 | CY093519 | | |
| | KF790187 | KC893064 | CY110990 | CY093527 | | |
| | KF790524 | KC892859 | CY110991 | CY093535 | | |
| | KF789674 | KF790214 | CY110992 | CY093543 | | |
| | KC893110 | KF789637 | CY110993 | CY093551 | | |
| | KC893183 | KF789799 | CY110994 | CY093559 | | |
| | KC893180 | KF789828 | KF551072 | CY093447 | | |
| | KF790135 | KC892812 | CY110995 | CY093423 | | |
| | KC892456 | KF790454 | CY110996 | CY093431 | | |
| | KF789949 | KC535447 | CY110997 | CY093439 | | |
| | KC535419 | KF790503 | CY110998 | | | |
| | KC883129 | KC882764 | CY110999 | | | |
| | KF790039 | KC883336 | KF551074 | | | |
| | KC882652 | KF789550 | CY111000 | | | |
| | KC883156 | KF790036 | KF551075 | | | |
| | KF790362 | KC883408 | CY111001 | | | |
| | KC882606 | KC882609 | CY111002 | | | |
| | KC892889 | KC883086 | CY111003 | | | |
| | KC883137 | KC892361 | KF551067 | | | |
| | KC882836 | KC892635 | KF551076 | | | |
| | KC892978 | KC892600 | KF551077 | | | |
| | KC892573 | KC892608 | KF551078 | | | |
| | KC892719 | KC892845 | KC526204 | | | |
| | KC892896 | KC892879 | KC526205 | | | |
| | KC892758 | KC892876 | KC526206 | | | |
| | CY070967 | KC892874 | JQ658890 | | | |
| | CY072214 | KC892871 | JQ658925 | | | |
| | CY134640 | KC892206 | JQ658889 | | | |
| | CY134641 | KC892221 | JQ658891 | | | |
| | CY134643 | KC892392 | JQ658892 | | | |
| | CY134644 | KC892224 | JQ658901 | | | |
| | CY134645 | KC893067 | JQ658895 | | | |
| | CY134646 | KF790242 | JQ658896 | | | |
| | CY134647 | KF789590 | JQ658898 | | | |
| | CY134650 | KF789759 | JQ658899 | | | |
| | CY134651 | CY141215 | JQ658897 | | | |
| | CY134652 | CY141216 | JQ658903 | | | |
| | CY134653 | KF790329 | JQ658900 | | | |
| | CY134654 | KC882914 | JQ658902 | | | |
| | CY134661 | KC892370 | JQ658921 | | | |
| | CY134686 | KC883443 | JQ658907 | | | |
| | CY141220 | KF790461 | JQ658904 | | | |
| | CY141221 | KC892552 | JQ658923 | | | |
| | CY141222 | KF790473 | JQ658913 | | | |
| | CY141223 | KC882900 | JQ658914 | | | |
| | CY141224 | KF790457 | JQ658908 | | | |
| | CY141225 | KC892508 | JQ658909 | | | |
| | CY141226 | KF789731 | JQ658910 | | | |
| | CY141227 | KC892822 | JQ658911 | | | |
| | CY141228 | KF790019 | JQ658912 | | | |
| | CY141229 | KC883415 | JQ658927 | | | |
| | CY141230 | KC892209 | JQ658926 | | | |
| | CY141231 | KF790023 | JQ658920 | | | |
| | CY141232 | KC883095 | JQ658918 | | | |
| | CY141234 | KC892954 | JQ658919 | | | |
| | CY141235 | KF789767 | JQ658915 | | | |
| | CY141239 | KC892751 | JQ658916 | | | |
| | CY141240 | KF790323 | JQ658917 | | | |
| | CY141241 | KF790384 | JQ658893 | | | |
| | CY141242 | KC893072 | JQ658894 | | | |
| | CY141243 | KF789656 | JQ658905 | | | |

| Pacific Islands | Eastern United States | Western United States | Canada and Alaska, USA | Mexico, Central America, and Caribbean | Europe | South America |
|-----------------|-----------------------|-----------------------|------------------------|--|--------|---------------|
| | CY141244 | KF789977 | JQ658906 | | | |
| | CY141245 | KC882772 | JQ658924 | | | |
| | CY141246 | KC892358 | JQ658888 | | | |
| | CY141247 | KC892549 | KF598738 | | | |
| | CY141248 | KC883084 | KF598743 | | | |
| | KF789982 | KC892931 | KF761498 | | | |
| | KF790180 | KC882793 | KF761499 | | | |
| | KF790282 | KC893047 | KF761500 | | | |
| | KF790236 | KC892198 | KF761501 | | | |
| | KF790277 | KC892212 | KF761503 | | | |
| | KF790258 | KF790432 | KF761505 | | | |
| | KF790278 | KC892960 | KF761506 | | | |
| | KF789822 | KF789752 | KF761507 | | | |
| | KF790419 | KF790077 | KF761508 | | | |
| | KF790394 | KC535372 | KF761509 | | | |
| | CY084334 | KC535405 | KF761510 | | | |
| | KC882595 | KC892815 | KF761511 | | | |
| | KC893087 | KC882736 | KF761512 | | | |
| | KF790201 | KC882775 | KF761513 | | | |
| | KF790138 | KC882917 | KF685747 | | | |
| | KF789613 | KF790331 | | | | |
| | KC883240 | KC883394 | | | | |
| | KF789728 | KF789544 | | | | |
| | KF789842 | KF789847 | | | | |
| | KC892471 | KC883407 | | | | |
| | KC892555 | KC892352 | | | | |
| | KC892193 | KC892355 | | | | |
| | KC892279 | KC883099 | | | | |
| | KC882431 | KC892379 | | | | |
| | KC892156 | KC892388 | | | | |
| | KC892177 | KC892444 | | | | |
| | KC892149 | KC892802 | | | | |
| | KC882577 | KC892504 | | | | |
| | KC892976 | KC892618 | | | | |
| | KC892524 | KC892885 | | | | |
| | KF789582 | KC892882 | | | | |
| | KF789770 | KC892675 | | | | |
| | CY141249 | CY120883 | | | | |
| | CY141250 | CY141276 | | | | |
| | CY141251 | CY141277 | | | | |
| | | CY141278 | | | | |
| | | CY141279 | | | | |
| | | CY141280 | | | | |
| | | CY141281 | | | | |
| | | CY141282 | | | | |
| | | KC892241 | | | | |
| | | KC892665 | | | | |
| | | KF790001 | | | | |
| | | KF790167 | | | | |
| | | KF790516 | | | | |
| | | KF789753 | | | | |
| | | KF789818 | | | | |
| | | KF789826 | | | | |

Technical Appendix Table 3. GenBank background sequences Asia, Australia, New Zealand, and Africa

| Middle East and Central Asia | Australia and New Zealand | China, including Hong Kong | Singapore | Africa | Northeast Asia |
|---------------------------------|------------------------------|-------------------------------|-----------|----------|----------------|
| KC865653 | CY090869 | CY091827 | JX437710 | CY062337 | AB796432 |
| KC865611 | CY090877 | CY091837 | JX437711 | CY062338 | CY120889 |
| KC865637 | | CY091841 | KF014202 | CY062339 | CY130200 |
| KC865649 | | CY091843 | KF014130 | CY062340 | CY147295 |
| KC865651 | | CY091845 | JX437712 | CY062341 | CY147296 |
| KC865613 | | CY099953 | JX437713 | CY062342 | CY147298 |
| KC865621 | | HQ664924 | JX437714 | CY062343 | CY147300 |
| KC865619 | | HQ664914 | JX437715 | CY062344 | CY147303 |
| KC709818 | | HQ664931 | JX437716 | CY062345 | CY147294 |
| KC865609 | | CY050136 | JX437717 | CY062346 | CY147302 |
| CY116636 | | CY050138 | KF014203 | CY062349 | CY147311 |
| CY116638 | | CY050102 | JX437718 | CY062350 | HQ703350 |
| CY116640 | | CY050104 | JX437719 | CY062351 | HQ703352 |
| KC865647 | | CY050106 | KF014204 | CY062352 | |
| KC865655 | | CY050108 | KF014205 | JQ396181 | |
| KC865657 | | CY050110 | KF014131 | JQ396183 | |
| KC865659 | | CY050111 | KF014206 | JQ396184 | |
| KC865661 | | CY050115 | KF014132 | JQ396185 | |
| KC865663 | | CY050123 | KF014133 | KF451872 | |
| KC865615 | | CY050125 | KF014207 | KF451873 | |
| KC865617 | | CY050127 | KF014208 | KF451875 | |
| KC865623 | | CY050128 | JX437720 | KF451876 | |
| KC865625 | | CY050089 | KF014209 | KF451877 | |
| KC865627 | | CY050090 | KF014134 | KF451878 | |
| KC865629 | | CY050091 | KF014135 | KF451880 | |
| KC865631 | | CY050093 | KF014210 | KF451881 | |
| KC865633 | | CY050095 | KF014136 | KF451882 | |
| KC865635 | | CY050097 | KF014211 | KF451883 | |
| KC865639 | | JQ220541 | KF014137 | KF451884 | |
| KC865641 | | JN256732 | KF014212 | KF451885 | |
| KC865643 | | CY106912 | KF014138 | JQ396182 | |
| KC865645 | | JN256733 | KF014213 | KC999473 | |
| | | CY115776 | KF014214 | KC999477 | |
| | | CY106920 | KF014139 | KC999474 | |
| | | JN256736 | KF014215 | KC999475 | |
| | | CY106944 | KF014140 | KC999476 | |
| | | CY115800 | KF014141 | | |
| | | JN256738 | KF014216 | | |
| | | CY106960 | KF014217 | | |
| | | JN256739 | KF014142 | | |
| | | CY115816 | KF014218 | | |
| | | CY106968 | JX437721 | | |
| | | JN256740 | KF014143 | | |
| | | CY115824 | KF014219 | | |
| | | JN256741 | KF014220 | | |
| | | CY106984 | KF014144 | | |
| | | JN256742 | JX437842 | | |
| | | CY106992 | KF014145 | | |
| | | | KF014221 | | |
| | | | KF014146 | | |
| | | | KF014222 | | |
| | | | KF014147 | | |
| | | | JX437722 | | |
| | | | KF014223 | | |
| | | | KF014224 | | |
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| | | | KF014225 | | |
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| | | | KF014226 | | |
| | | | KF014150 | | |
| | | | KF014227 | | |
| | | | KF014151 | | |
| | | | KF014228 | | |
| | | | KF014152 | | |
| | | | CY124151 | | |
| | | | CY124153 | | |
| | | | CY124155 | | |
| | | | CY124157 | | |

| Middle East and Central Asia | Australia and New Zealand | China, including Hong Kong | Singapore | Africa | Northeast Asia |
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| | | | CY124159 | | |
| | | | CY124161 | | |
| | | | CY124163 | | |
| | | | CY124165 | | |
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| | | | CY100101 | | |
| | | | CY100103 | | |

| Middle East and Central Asia | Australia and New Zealand | China, including Hong Kong | Singapore | Africa | Northeast Asia |
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| | | | CY124295 | | |
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| | | | KF014253 | | |
| | | | KF014254 | | |

| Middle East and Central Asia | Australia and New Zealand | China, including Hong Kong | Singapore | Africa | Northeast Asia |
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| | | | KF014190 | | |
| | | | KF014191 | | |
| | | | KF014255 | | |
| | | | JX437840 | | |
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| | | | KF014196 | | |
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| | | | KF432083 | | |
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| | | | CY124395 | | |
| | | | CY124399 | | |
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| | | | CY124403 | | |
| | | | CY100125 | | |
| | | | CY100127 | | |
| | | | CY124407 | | |
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| | | | CY124417 | | |
| | | | CY124419 | | |
| | | | CY124423 | | |
| | | | CY124429 | | |

| Middle East and Central Asia | Australia and New Zealand | China, including Hong Kong | Singapore | Africa | Northeast Asia |
|---------------------------------|------------------------------|-------------------------------|-----------|--------|----------------|
| | | | CY124431 | | |
| | | | CY124433 | | |
| | | | CY124435 | | |
| | | | CY124437 | | |
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| | | | CY124453 | | |
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| | | | CY124493 | | |
| | | | CY124499 | | |
| | | | CY124501 | | |

Technical Appendix Table 4. GISAID Reference HA H3N2 Sequences for South America*

| Strain name (includes country) | Strain ID | Originating laboratory | Submitting laboratory |
|--------------------------------|----------------|---|---|
| A/Paraguay/06/2013 | EPI_ISL_149684 | Central Laboratory of Public Health | CDC |
| A/Bolivia/902/2013 | EPI_ISL_146007 | CENETROP | CDC |
| A/Santiago/47142/2013 | EPI_ISL_145682 | Instituto de Salud Publica de Chile | CDC |
| A/Uruguay/322/2013 | EPI_ISL_145680 | Departamento de Laboratorio de Salud Publica | CDC |
| A/French Guiana/1118/2013 | EPI_ISL_145679 | National Influenza Center French Guiana and French Indies | CDC |
| A/Uruguay/396/2013 | EPI_ISL_145678 | Departamento de Laboratorio de Salud Publica | CDC |
| A/Brazil/3873/2013 | EPI_ISL_145677 | Instituto Adolfo Lutz | CDC |
| A/Valparaiso/34097/2013 | EPI_ISL_145676 | Instituto de Salud Publica de Chile | CDC |
| A/Santiago/46150/2013 | EPI_ISL_145671 | Instituto de Salud Publica de Chile | CDC |
| A/Peru/140/2013 | EPI_ISL_145670 | NAMRU-6 | CDC |
| A/Santiago/36541/2013 | EPI_ISL_145642 | Instituto de Salud Publica de Chile | CDC |
| A/Santiago/35652/2013 | EPI_ISL_145641 | Instituto de Salud Publica de Chile | CDC |
| A/Venezuela/05/2013 | EPI_ISL_145515 | Instituto Nacional de Higiene "Rafael Rangel" | CDC |
| A/Brazil/265/2013 | EPI_ISL_145511 | Oswaldo Cruz Foundation - Ministry of Health | CDC |
| A/Ecuador/440/2013 | EPI_ISL_145510 | NAMRU-6 | CDC |
| A/Brazil/0328/2013 | EPI_ISL_145500 | Instituto Adolfo Lutz | CDC |
| A/Brazil/0289/2013 | EPI_ISL_145126 | Oswaldo Cruz Foundation - Ministry of Health | CDC |
| A/Argentina/555/2013 | EPI_ISL_145122 | Instituto Nacional de Enfermedades Infecciosas | CDC |
| A/Argentina/45/2013 | EPI_ISL_145121 | Instituto Nacional de Enfermedades Infecciosas | CDC |
| A/Argentina/433/2013 | EPI_ISL_145114 | Instituto Nacional de Enfermedades Infecciosas | CDC |
| A/Argentina/206/2013 | EPI_ISL_145113 | Instituto Nacional de Enfermedades Infecciosas | CDC |
| A/Brazil/0328/2013 | EPI_ISL_144304 | Instituto Adolfo Lutz | CDC |
| A/Santiago/20181/2013 | EPI_ISL_143262 | Instituto de Salud Publica de Chile | CDC |
| A/Peru/114/2013 | EPI_ISL_143252 | NAMRU-6 | CDC |
| A/Peru/55/2013 | EPI_ISL_143251 | NAMRU-6 | CDC |
| A/Valdivia/20596/2013 | EPI_ISL_142587 | Instituto de Salud Publica de Chile | CDC |
| A/Valparaiso/14542/2013 | EPI_ISL_140994 | Instituto de Salud Publica de Chile | CDC |
| A/Buenos Aires/10435982/2012 | EPI_ISL_132003 | Instituto Nacional de Enfermedades Infecciosas | National Institute for Medical Research |
| A/Buenos Aires/1004423/2012 | EPI_ISL_132002 | Instituto Nacional de Enfermedades Infecciosas | National Institute for Medical Research |
| A/Peru/1026/2012 | EPI_ISL_131270 | NAMRU-6 | CDC |
| A/Uruguay/06/2012 | EPI_ISL_129661 | Departamento de Laboratorio de Salud Publica | CDC |
| A/Peru/1339/2012 | EPI_ISL_129405 | NAMRU-6 | CDC |
| A/Curico/51369/2012 | EPI_ISL_129166 | Instituto de Salud Publica de Chile | CDC |
| A/Belem/119244/2012 | EPI_ISL_129163 | National Influenza Center | CDC |
| A/Venezuela/72/2012 | EPI_ISL_129162 | Instituto Nacional de Higiene "Rafael Rangel" | CDC |
| A/Guyane/1296/2012 | EPI_ISL_129053 | CRR virus Influenza region Sud | National Institute for Medical Research |
| (A/Guadeloupe/44/2012) | | | |
| A/Paraguay/32/2012 | EPI_ISL_129005 | Central Laboratory of Public Health | CDC |
| A/Puerto Montt/51699/2012 | EPI_ISL_129001 | Instituto de Salud Publica de Chile | CDC |
| A/Punta Arenas/52090/2012 | EPI_ISL_128997 | Instituto de Salud Publica de Chile | CDC |
| A/Vina Del Mar/49586/2012 | EPI_ISL_128995 | Instituto de Salud Publica de Chile | CDC |
| A/Santiago/45700/2012 | EPI_ISL_128988 | Instituto de Salud Publica de Chile | CDC |
| A/Linares/52087/2012 | EPI_ISL_128987 | Instituto de Salud Publica de Chile | CDC |
| A/Suriname/295/2012 | EPI_ISL_128986 | Caribbean Epidemiology Center | CDC |
| A/Suriname/297/2012 | EPI_ISL_127834 | Caribbean Epidemiology Center | CDC |
| A/Santiago/35234/2012 | EPI_ISL_125917 | Instituto de Salud Publica de Chile | CDC |
| A/Santiago/33977/2012 | EPI_ISL_125916 | Instituto de Salud Publica de Chile | CDC |
| A/Brazil/7920/2012 | EPI_ISL_125910 | Instituto Adolfo Lutz | CDC |
| A/Brazil/8456/2012 | EPI_ISL_125906 | Instituto Adolfo Lutz | CDC |
| A/Paraguay/37/2012 | EPI_ISL_125905 | Central Laboratory of Public Health | CDC |
| A/Paraguay/146/2012 | EPI_ISL_125904 | Central Laboratory of Public Health | CDC |
| A/Brazil/8751/2012 | EPI_ISL_125902 | Instituto Adolfo Lutz | CDC |
| A/Santiago/37926/2012 | EPI_ISL_124524 | Instituto de Salud Publica de Chile | CDC |
| A/Santiago/37126/2012 | EPI_ISL_124523 | Instituto de Salud Publica de Chile | CDC |
| A/Puerto Montt/12477/2012 | EPI_ISL_119880 | Instituto de Salud Publica de Chile | CDC |
| A/Santiago/3564/2012 | EPI_ISL_119879 | Instituto de Salud Publica de Chile | CDC |
| A/Santiago/14696/2012 | EPI_ISL_119711 | Instituto de Salud Publica de Chile | CDC |
| A/Paraguay/726/2011 | EPI_ISL_102988 | Central Laboratory of Public Health | CDC |
| A/Paraguay/216/2011 | EPI_ISL_101916 | Central Laboratory of Public Health | CDC |
| A/Bolivia/340/2011 | EPI_ISL_99074 | CENETROP | CDC |
| A/Bolivia/340/2011 | EPI_ISL_99073 | CENETROP | CDC |
| A/Bolivia/340/2011 | EPI_ISL_99072 | CENETROP | CDC |
| A/Brazil/1151/2011 | EPI_ISL_99068 | Instituto Adolfo Lutz | CDC |

| Strain name (includes country) | Strain ID | Originating laboratory | Submitting laboratory |
|--------------------------------|---------------|--|---|
| A/Brazil/1151/2011 | EPI_ISL_99067 | Instituto Adolfo Lutz | CDC |
| A/Brazil/1151/2011 | EPI_ISL_99066 | Instituto Adolfo Lutz | CDC |
| A/Chile/72/2011 | EPI_ISL_99065 | Instituto de Salud Publica de Chile | CDC |
| A/Chile/72/2011 | EPI_ISL_99064 | Instituto de Salud Publica de Chile | CDC |
| A/Chile/64/2011 | EPI_ISL_99063 | Instituto de Salud Publica de Chile | CDC |
| A/Chile/64/2011 | EPI_ISL_99062 | Instituto de Salud Publica de Chile | CDC |
| A/Paraguay/2395/2010 | EPI_ISL_99025 | Central Laboratory of Public Health | CDC |
| A/Paraguay/2395/2010 | EPI_ISL_99024 | Central Laboratory of Public Health | CDC |
| A/Paraguay/2395/2010 | EPI_ISL_99023 | Central Laboratory of Public Health | CDC |
| A/Paraguay/2394/2010 | EPI_ISL_99022 | Central Laboratory of Public Health | CDC |
| A/Paraguay/2394/2010 | EPI_ISL_99021 | Central Laboratory of Public Health | CDC |
| A/Paraguay/2394/2010 | EPI_ISL_99020 | Central Laboratory of Public Health | CDC |
| A/Suriname/5163/2009 | EPI_ISL_98967 | Caribbean Epidemiology Center | CDC |
| A/Suriname/5163/2009 | EPI_ISL_98966 | Caribbean Epidemiology Center | CDC |
| A/Bolivia/805/2011 | EPI_ISL_98825 | CENETROP | CDC |
| A/Santiago/18456/2011 | EPI_ISL_98644 | Instituto de Salud Publica de Chile | CDC |
| A/Paraguay/210/2011 | EPI_ISL_98643 | Central Laboratory of Public Health | CDC |
| A/Santiago/18454/2011 | EPI_ISL_96108 | Instituto de Salud Publica de Chile | CDC |
| A/Santiago/14944/2011 | EPI_ISL_96107 | Instituto de Salud Publica de Chile | CDC |
| A/Santiago/13652/2011 | EPI_ISL_96106 | Instituto de Salud Publica de Chile | CDC |
| A/Peru/7111/2011 | EPI_ISL_96105 | NAMRU-6 | CDC |
| A/Peru/6311/2011 | EPI_ISL_96104 | NAMRU-6 | CDC |
| A/Paraguay/210/2011 | EPI_ISL_96101 | Central Laboratory of Public Health | CDC |
| A/Colombia/6459/2011 | EPI_ISL_96087 | Instituto Nacional de Salud de Columbia | CDC |
| A/Chile/64/2011 | EPI_ISL_96086 | Instituto de Salud Publica de Chile | CDC |
| A/Brazil/6078/2011 | EPI_ISL_96085 | Instituto Adolfo Lutz | CDC |
| A/Brazil/5613/2011 | EPI_ISL_96084 | Instituto Adolfo Lutz | CDC |
| A/Argentina/8823/2011 | EPI_ISL_96080 | CEMIC University Hospital | CDC |
| A/Argentina/676/2011 | EPI_ISL_96079 | Instituto Nacional de Enfermedades Infecciosas | CDC |
| A/Argentina/566/2011 | EPI_ISL_96078 | Instituto Nacional de Enfermedades Infecciosas | CDC |
| A/Argentina/198/2011 | EPI_ISL_96077 | Instituto Nacional de Enfermedades Infecciosas | CDC |
| A/Brazil/6772/2011 | EPI_ISL_95509 | | CDC |
| A/Argentina/179/2011 | EPI_ISL_95507 | Instituto Nacional de Enfermedades Infecciosas | CDC |
| A/Argentina/215/2011 | EPI_ISL_95505 | Instituto Nacional de Enfermedades Infecciosas | CDC |
| A/Santa Fe/1431/2011 | EPI_ISL_94722 | Instituto Nacional de Enfermedades Infecciosas | National Institute for Medical Research |
| A/Entre Rios/755282/2011 | EPI_ISL_94721 | Instituto Nacional de Enfermedades Infecciosas | National Institute for Medical Research |
| A/Buenos Aires/10140261/2011 | EPI_ISL_94720 | Instituto Nacional de Enfermedades Infecciosas | National Institute for Medical Research |
| A/Chile/9920/2011 | EPI_ISL_93777 | Instituto de Salud Publica de Chile | CDC |
| A/Chile/72/2011 | EPI_ISL_93776 | Instituto de Salud Publica de Chile | CDC |
| A/Chile/64/2011 | EPI_ISL_93775 | Instituto de Salud Publica de Chile | CDC |
| A/Brazil/1151/2011 | EPI_ISL_93773 | Instituto Adolfo Lutz | CDC |
| A/Bolivia/405/2011 | EPI_ISL_93772 | CENETROP | CDC |
| A/Bolivia/401/2011 | EPI_ISL_93771 | CENETROP | CDC |
| A/Bolivia/373/2011 | EPI_ISL_93770 | CENETROP | CDC |
| A/Peru/9310/2010 | EPI_ISL_89817 | NAMRU-6 | CDC |
| A/Peru/8410/2010 | EPI_ISL_89816 | NAMRU-6 | CDC |
| A/Peru/7710/2010 | EPI_ISL_89815 | NAMRU-6 | CDC |
| A/Peru/4010/2010 | EPI_ISL_89814 | NAMRU-6 | CDC |
| A/Argentina/8409/2010 | EPI_ISL_87951 | Instituto Nacional de Enfermedades Infecciosas | CDC |
| A/Argentina/02/2010 | EPI_ISL_87950 | Instituto Nacional de Enfermedades Infecciosas | CDC |
| A/Argentina/01/2010 | EPI_ISL_87949 | Instituto Nacional de Enfermedades Infecciosas | CDC |
| A/Argentina/28379/2010 | EPI_ISL_85724 | Instituto Nacional de Enfermedades Infecciosas | National Institute for Medical Research |
| A/Argentina/28378/2010 | EPI_ISL_85723 | Instituto Nacional de Enfermedades Infecciosas | National Institute for Medical Research |
| A/Argentina/28372/2010 | EPI_ISL_85722 | Instituto Nacional de Enfermedades Infecciosas | National Institute for Medical Research |
| A/Argentina/28370/2010 | EPI_ISL_85721 | Instituto Nacional de Enfermedades Infecciosas | National Institute for Medical Research |
| A/Argentina/28367/2010 | EPI_ISL_85720 | Instituto Nacional de Enfermedades Infecciosas | National Institute for Medical Research |
| A/Argentina/28342/2010 | EPI_ISL_85719 | Instituto Nacional de Enfermedades Infecciosas | National Institute for Medical Research |

| Strain name (includes country) | Strain ID | Originating laboratory | Submitting laboratory |
|--------------------------------|---------------|---|--|
| A/Argentina/28306/2010 | EPI_ISL_85718 | Instituto Nacional de Enfermedades Infecciosas | National Institute for Medical Research |
| A/Argentina/28302/2010 | EPI_ISL_85717 | Instituto Nacional de Enfermedades Infecciosas | National Institute for Medical Research |
| A/Argentina/27724/2010 | EPI_ISL_85716 | Instituto Nacional de Enfermedades Infecciosas | National Institute for Medical Research |
| A/Paraguay/2394/2010 | EPI_ISL_85613 | Central Laboratory of Public Health | CDC |
| A/Uruguay/2214/2010 | EPI_ISL_85601 | Departamento de Laboratorio de Salud Publica | CDC |
| A/Bolivia/1053/2010 | EPI_ISL_84043 | CENETROP | CDC |
| A/Argentina/27893/2010 | EPI_ISL_83717 | Instituto Nacional de Enfermedades Infecciosas | National Institute for Medical Research |
| A/Argentina/27891/2010 | EPI_ISL_83716 | Instituto Nacional de Enfermedades Infecciosas | National Institute for Medical Research |
| A/Argentina/27724/2010 | EPI_ISL_83714 | Instituto Nacional de Enfermedades Infecciosas | National Institute for Medical Research |
| A/Argentina/27895/2010 | EPI_ISL_83713 | Instituto Nacional de Enfermedades Infecciosas | National Institute for Medical Research |
| A/Argentina/27894/2010 | EPI_ISL_83712 | Instituto Nacional de Enfermedades Infecciosas | National Institute for Medical Research |
| A/Venezuela/07/2010 | EPI_ISL_83173 | Instituto Nacional de Higiene "Rafael Rangel" | CDC |
| A/Brazil/0791/2010 | EPI_ISL_79673 | Oswaldo Cruz Foundation - Ministry of Health | CDC |
| A/Brazil/0610/2010 | EPI_ISL_79672 | Oswaldo Cruz Foundation - Ministry of Health | CDC |
| A/Chile/8196/2010 | EPI_ISL_79664 | Instituto de Salud Publica de Chile | CDC |
| A/Colombia/6722/2010 | EPI_ISL_79660 | Instituto Nacional de Salud de Columbia | CDC |
| A/Chile/6927/2010 | EPI_ISL_79330 | Instituto de Salud Publica de Chile | CDC |
| A/Chile/6380/2010 | EPI_ISL_79329 | Instituto de Salud Publica de Chile | CDC |
| A/Chile/6278/2010 | EPI_ISL_79328 | Instituto de Salud Publica de Chile | CDC |
| A/Chile/6096/2010 | EPI_ISL_79327 | Instituto de Salud Publica de Chile | CDC |
| A/Chile/5845/2010 | EPI_ISL_79326 | Instituto de Salud Publica de Chile | CDC |
| A/Bolivia/317/2010 | EPI_ISL_77796 | Instituto Nacional de Laboratorios de Salud (INLASA) | CDC |
| A/Colombia/7158/2009 | EPI_ISL_76692 | Instituto Nacional de Salud de Columbia | CDC |
| A/Colombia/4335/2009 | EPI_ISL_69716 | | CDC |
| A/Colombia/6123/2009 | EPI_ISL_66567 | Instituto Nacional de Salud de Columbia | CDC |
| A/Bolivia/2948/2009 | EPI_ISL_66561 | - | CDC |
| A/Bolivia/2675/2009 | EPI_ISL_66560 | - | CDC |
| A/Brazil/884/2009 | EPI_ISL_60770 | National Influenza Center | CDC |
| A/Brazil/933/2009 | EPI_ISL_60769 | National Influenza Center | CDC |
| A/Brazil/1814/2009 | EPI_ISL_60764 | Instituto Adolfo Lutz | CDC |
| A/Argentina/7646/2009 | EPI_ISL_60763 | Instituto Nacional de Enfermedades Infecciosas | CDC |
| A/Paraguay/52/2009 | EPI_ISL_60745 | Central Laboratory of Public Health | CDC |
| A/Argentina/15/2009 | EPI_ISL_34979 | - | CDC |
| A/Suriname/5163/2009 | EPI_ISL_34969 | Caribbean Epidemiology Center | CDC |
| A/Venezuela/9602/2007 | EPI_ISL_23342 | - | CDC |
| A/Venezuela/8241/2007 | EPI_ISL_23341 | - | CDC |
| A/Brazil/1623/2008 | EPI_ISL_23203 | - | CDC |
| A/Brazil/1619/2008 | EPI_ISL_23202 | - | CDC |
| A/Guyane/32/2007 | EPI_ISL_21966 | - | CDC |
| A/Guyane/25/2007 | EPI_ISL_21964 | - | CDC |
| A/Guyane/13/2007 | EPI_ISL_21962 | - | CDC |
| A/Argentina/449/2007 | EPI_ISL_21784 | - | CDC |
| A/Argentina/445/2007 | EPI_ISL_21783 | - | CDC |
| A/Argentina/389/2007 | EPI_ISL_21781 | - | CDC |
| A/Argentina/3888/2007 | EPI_ISL_21780 | - | CDC |
| A/Uruguay/716/2007 | EPI_ISL_21292 | - | CDC |
| A/Uruguay/716/2007 | EPI_ISL_21291 | - | CDC |
| A/Uruguay/716/2007 | EPI_ISL_21290 | - | CDC |
| A/Peru/8307/2007 | EPI_ISL_20684 | - | CDC |
| A/Santiago/10086/2007 | EPI_ISL_20677 | - | CDC |
| A/Uruguay/0723/2007 | EPI_ISL_20638 | - | CDC |
| A/Uruguay/0710/2007 | EPI_ISL_20636 | - | CDC |
| A/Uruguay/0707/2007 | EPI_ISL_20635 | - | CDC |
| A/Argentina/501/2007 | EPI_ISL_20603 | - | CDC |
| A/Argentina/405/2007 | EPI_ISL_20602 | - | CDC |
| A/Argentina/426/2007 | EPI_ISL_20601 | - | CDC |
| A/Argentina/503/2007 | EPI_ISL_20600 | - | CDC |
| A/Argentina/117/2007 | EPI_ISL_20599 | - | CDC |
| A/Argentina/335/2007 | EPI_ISL_20598 | - | CDC |
| A/Argentina/402/2007 | EPI_ISL_20596 | - | CDC |
| A/Argentina/305/2007 | EPI_ISL_20595 | - | CDC |
| A/Argentina/146/2007 | EPI_ISL_20594 | - | CDC |
| A/Argentina/3797/2007 | EPI_ISL_20590 | - | CDC |

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|--------------------------------|---------------|------------------------|-----------------------|
| A/Argentina/3743/2007 | EPI_ISL_20587 | – | CDC |
| A/Argentina/3726/2007 | EPI_ISL_20586 | – | CDC |
| A/Argentina/3689/2007 | EPI_ISL_20585 | – | CDC |
| A/Brazil/80/2007 | EPI_ISL_20577 | – | CDC |
| A/Peru/3355/2006 | EPI_ISL_20573 | – | CDC |
| A/Peru/0128/2006 | EPI_ISL_20572 | – | CDC |
| A/Santiago/6881/2007 | EPI_ISL_20544 | – | CDC |
| A/Santiago/6421/2007 | EPI_ISL_20543 | – | CDC |
| A/Uruguay/716/2007 | EPI_ISL_19048 | – | CDC |

*CDC, Centers for Disease Control and Prevention, Atlanta, GA, USA; NAMRU-6, United States Navy Medical Research Unit-6. The – symbol indicates missing details.