

Supporting Information

S2 Table. Details of the low pathogenic avian influenza virus (LPAIV) sequences downloaded from the GISAID EpiFlu Database. We gratefully acknowledge the authors, originating and submitting laboratories of the sequences from GISAID EpiFlu Database on which this research is based. All submitters of data may be contacted directly via the GISAID website.

| Isolate name | Accession number HA segment | Accession number NA segment | Country | Collection Date | Originating Laboratory | Submitting Laboratory | Authors |
|--|--------------------------------|--------------------------------|----------|-----------------|---|---|---|
| A/Teal/Egypt/20431-NAMRU3/2003_H1N2 | EPI372275 | | Egypt | 22-Dec-2003 | U.S. Naval Medical Research Unit No.3 | Centers for Disease Control and Prevention | Gerloff, Nancy; Simpson, Natosha; Jones, Joyce; Kis, Zoltan; Bahgat, Verina; Soliman, Atef; Ellassal, Emad; Ahmed, Lu'ay; Gaynor, Anne; Cornelius, Claire; Davis, Todd |
| A/Shoveler/Egypt/00134-NAMRU3/2005_H1N1 | EPI372331 | | Egypt | 13-Jan-2005 | U.S. Naval Medical Research Unit No.3 | Centers for Disease Control and Prevention | Gerloff, Nancy; Simpson, Natosha; Jones, Joyce; Kis, Zoltan; Bahgat, Verina; Soliman, Atef; Ellassal, Emad; Ahmed, Lu'ay; Gaynor, Anne; Cornelius, Claire; Davis, Todd |
| A/Shoveler/Egypt/14029-NAMRU3/2006_H1N1 | EPI372378 | EPI372377 | Egypt | 8-Dec-2006 | U.S. Naval Medical Research Unit No.3 | Centers for Disease Control and Prevention | Gerloff, Nancy; Simpson, Natosha; Jones, Joyce; Kis, Zoltan; Bahgat, Verina; Soliman, Atef; Ellassal, Emad; Ahmed, Lu'ay; Gaynor, Anne; Cornelius, Claire; Davis, Todd |
| A/Teal/Egypt/01351-NAMRU3/2007_H1N1 | EPI372466 | EPI372465 | Egypt | 26-Jan-2007 | U.S. Naval Medical Research Unit No.3 | Centers for Disease Control and Prevention | Gerloff, Nancy; Simpson, Natosha; Jones, Joyce; Kis, Zoltan; Bahgat, Verina; Soliman, Atef; Ellassal, Emad; Ahmed, Lu'ay; Gaynor, Anne; Cornelius, Claire; Davis, Todd |
| A/Teal/Egypt/00677-NAMRU3/2004_H1N1 | EPI372528 | | Egypt | 28-Jan-2004 | U.S. Naval Medical Research Unit No.3 | Centers for Disease Control and Prevention | Gerloff, Nancy; Simpson, Natosha; Jones, Joyce; Kis, Zoltan; Bahgat, Verina; Soliman, Atef; Ellassal, Emad; Ahmed, Lu'ay; Gaynor, Anne; Cornelius, Claire; Davis, Todd |
| A/Goose/Italy/6117/2004_H1N1 | EPI178520 | EPI178522 | Italy | 2004* | - | Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna | Fereidouni, S.R. |
| A/Mallard/Germany/R2843/06_H1N1 | EPI222781 | | Germany | 2006* | - | Friedrich-Loeffler-Institut | - |
| A/Mallard/Germany-RP/R193/09_H1N1 | EPI248501 | EPI248500 | Germany | 2009* | - | Friedrich-Loeffler-Institut | - |
| A/Wild_duck/Germany/WV30/06_H1N1 | EPI248514 | EPI248512 | Germany | 2006* | - | Friedrich-Loeffler-Institut | - |
| A/Mallard/Germany/WV35/07_H1N1 | EPI248519 | EPI248517 | Germany | 2007* | - | Friedrich-Loeffler-Institut | - |
| A/Wild_duck/Germany-NW/R04/08_H1N1 | EPI248521 | | Germany | 2008* | - | Friedrich-Loeffler-Institut | - |
| A/Anas_platyrhynchos/Belgium/09-762/2008_H1N1 | EPI257212 | EPI257214 | Belgium | Nov-2008* | Veterinary and Agrochemical Research Institute | Veterinary and Agrochemical Research Institute | Van Borm, Steven |
| A/Wild_duck/Korea/CSM38/2004b_H1N1 | EPI296244 | | Korea | Nov-2004* | - | Other database import | Jeong, O.-M.; Kim, Y.-J.; Choi, J.-G.; Kang, H.-M.; Kim, M.-C.; Kwon, J.-H.; Lee, Y.-J. |
| A/Duck/Italy/7686-11/10_H1N1 | EPI301849 | | Italy | 15-Dec-2010 | Istituto Zooprofilattico Sperimentale Delle Venezie | Istituto Zooprofilattico Sperimentale Delle Venezie | Monne, I.; Fusaro, A.; Valastro, V.; Schivo, A.; Buratin, A.; Terregino, C.; Capua, I.; Cattoli, G. |
| A/Pintail/Italy/2703-25/06_H1N1 | EPI301856 | | Italy | 5-Sep-2006 | Istituto Zooprofilattico Sperimentale Delle Venezie | Istituto Zooprofilattico Sperimentale Delle Venezie | Monne, I.; Fusaro, A.; Valastro, V.; Schivo, A.; Buratin, A.; Terregino, C.; Capua, I.; Cattoli, G. |
| A/Mallard/Italy/378-49/06_H1N1 | EPI301857 | | Italy | 4-May-2006 | Istituto Zooprofilattico Sperimentale Delle Venezie | Istituto Zooprofilattico Sperimentale Delle Venezie | Monne, I.; Fusaro, A.; Valastro, V.; Schivo, A.; Buratin, A.; Terregino, C.; Capua, I.; Cattoli, G. |
| A/Teal/Italy/6323-5/07_H1N1 | EPI301858 | | Italy | 30-Nov-2007 | Istituto Zooprofilattico Sperimentale Delle Venezie | Istituto Zooprofilattico Sperimentale Delle Venezie | Monne, I.; Fusaro, A.; Valastro, V.; Schivo, A.; Buratin, A.; Terregino, C.; Capua, I.; Cattoli, G. |
| A/Mallard/Italy/432-21/08_H1N1 | EPI301859 | | Italy | 15-Feb-2008 | Istituto Zooprofilattico Sperimentale Delle Venezie | Istituto Zooprofilattico Sperimentale Delle Venezie | Monne, I.; Fusaro, A.; Valastro, V.; Schivo, A.; Buratin, A.; Terregino, C.; Capua, I.; Cattoli, G. |
| A/Shoveler/Italy/6965-6/07_H1N3 | EPI301860 | | Italy | 1-Feb-2008 | Istituto Zooprofilattico Sperimentale Delle Venezie | Istituto Zooprofilattico Sperimentale Delle Venezie | Monne, I.; Fusaro, A.; Valastro, V.; Schivo, A.; Buratin, A.; Terregino, C.; Capua, I.; Cattoli, G. |
| A/Avian/Germany-BB/R2859/2009_H6 | EPI339183 | | Germany | 2009* | - | Friedrich-Loeffler-Institut | - |
| A/Goose/Germany-BB/R1625/2008_H6 | EPI279941 | | Germany | 2008* | - | Friedrich-Loeffler-Institut | - |
| A/Ringed_teal/Germany-NRW/R641/2008_H6 | EPI279938 | | Germany | 2008* | - | Friedrich-Loeffler-Institut | - |
| A/Wild_bird/Germany-HH/R1501/2008_H6 | EPI279939 | | Germany | 2008* | - | Friedrich-Loeffler-Institut | - |
| A/Wild_bird/Germany-MV/R1511/2008_H6 | EPI279940 | | Germany | 2008* | - | Friedrich-Loeffler-Institut | - |
| A/Environment/California/NWRC182841-09/2006_H6N1 | EPI406091 | | USA | 2006* | - | Other database import | Anderson, T.; Piaggio, T. |
| A/Environment/California/NWRC183200-14/2006_H6N1 | EPI406099 | | USA | 2006* | - | Other database import | Anderson, T.; Piaggio, T. |
| A/Environment/California/NWRC183274-04/2006_H6N1 | EPI406103 | | USA | 2006* | - | Other database import | Anderson, T.; Piaggio, T. |
| A/Green-winged_teal/Nova_Scotia/14917/2005_H6N1 | EPI327397 | | Canada | 14-Sep-2005 | - | Other database import | The NIAID Influenza Genome Sequencing Consortium |
| A/Larus_argentatus/Belgium/02936pcs3/2010_H6N1 | EPI345428 | EPI345427 | Belgium | 27-Jan-2010 | Veterinary and Agrochemical Research Institute | Veterinary and Agrochemical Research Institute | Van Borm, S.; Rosseel, T.; Lambrecht, B.; Vangeluwe, D.; Vandenbussche, F.; van den Berg, T. |
| A/Northern_shoveler/California/HKWF115/2007_H6N1 | EPI154816 | | USA | 24-Oct-2007 | - | Other database import | - |
| A/Duck/Germany-MV/R871/2010_H6N2 | EPI339182 | | Germany | 2010* | - | Friedrich-Loeffler-Institut | - |
| A/Green-winged_teal/Minnesota/Sg-00199/2007_H6N2 | EPI298290 | | USA | 14-Sep-2007 | - | Other database import | The NIAID Influenza Genome Sequencing Consortium |
| A/Green-winged_teal/Minnesota/Sg-00222/2007_H6N2 | EPI298322 | | USA | 16-Sep-2007 | - | Other database import | The NIAID Influenza Genome Sequencing Consortium |
| A/Mule_duck/Bulgaria/156/2010_H6N2 | EPI574180 | | Bulgaria | 9-Feb-2010 | - | Other database import | Marinova-Petkova, A.; Georgiev, G.; Petkov, T.; Darnell, D.; Franks, J.; Walker, D.; Seiler, P.; Danner, A.; Graham, A.; McKenzie, P.; Krauss, S.; Webby, R.J.; Webster, R.G. |
| A/Mule_duck/Bulgaria/173/2009_H6N2 | EPI574206 | | Bulgaria | 12-Jan-2009 | - | Other database import | Marinova-Petkova, A.; Georgiev, G.; Petkov, T.; Darnell, D.; Franks, J.; Walker, D.; Seiler, P.; Danner, A.; Graham, A.; McKenzie, P.; Krauss, S.; Webby, R.J.; Webster, R.G. |
| A/Shoveler/Egypt/13251-NAMRU3/2006_H6N2 | EPI372371 | EPI372370 | Egypt | 2-Dec-2006 | U.S. Naval Medical Research Unit No.3 | Centers for Disease Control and Prevention | Gerloff, Nancy; Simpson, Natosha; Jones, Joyce; Kis, Zoltan; Bahgat, Verina; Soliman, Atef; Ellassal, Emad; Ahmed, Lu'ay; Gaynor, Anne; Cornelius, Claire; Davis, Todd |
| A/Teal/Egypt/13203-NAMRU3/2006_H6N2 | EPI372386 | EPI372385 | Egypt | 2-Dec-2006 | U.S. Naval Medical Research Unit No.3 | Centers for Disease Control and Prevention | Gerloff, Nancy; Simpson, Natosha; Jones, Joyce; Kis, Zoltan; Bahgat, Verina; Soliman, Atef; Ellassal, Emad; Ahmed, Lu'ay; Gaynor, Anne; Cornelius, Claire; Davis, Todd |
| A/Turkey/Germany/R617/2007_H6N2 | EPI317612 | | Germany | 2007* | Friedrich-Loeffler-Institut | Friedrich-Loeffler-Institut | - |
| A/Wild_goose/Germany-BB/R2329/2008_H6N2 | EPI397608 | EPI397607 | Germany | 2008* | - | Friedrich-Loeffler-Institut | - |
| A/Environment/North_Carolina/NWRC183941-06/2006_H6N5 | EPI406114 | | USA | 2006* | - | Other database import | Anderson, T.; Piaggio, T. |
| A/Sentinel_mallard/Germany/Sum156/2007_H6N5 | EPI397610 | EPI397609 | Germany | 2007* | - | Friedrich-Loeffler-Institut | - |
| A/Duck/Germany-NW/R2185/2006_H6N8 | EPI397606 | | Germany | 2006* | - | Friedrich-Loeffler-Institut | - |
| A/Environment/California/NWRC183200-06/2006_H6N8 | EPI406098 | | USA | 2006* | - | Other database import | Anderson, T.; Piaggio, T. |
| A/Goose/Germany/R1767/2007_H6N8 | EPI416259 | | Germany | 2007* | - | Friedrich-Loeffler-Institut | - |
| A/Mallard/Germany-BY/R1353/2010_H6N8 | EPI339180 | | Germany | 2010* | - | Friedrich-Loeffler-Institut | - |
| A/Mule_duck/Bulgaria/365/2010_H6N8 | EPI574207 | | Bulgaria | 9-Mar-2010 | - | Other database import | Marinova-Petkova, A.; Georgiev, G.; Petkov, T.; Darnell, D.; Franks, J.; Walker, D.; Seiler, P.; Danner, A.; Graham, A.; McKenzie, P.; Krauss, S.; Webby, R.J.; Webster, R.G. |
| A/Mute_swan/Germany/R2927/2007_H6N8 | EPI185339 | | Germany | 2007* | - | Friedrich-Loeffler-Institut | - |

| Isolate name | Accession number HA segment | Accession number NA segment | Country | Collection Date | Originating Laboratory | Submitting Laboratory | Authors |
|---|-----------------------------------|-------------------------------------|-------------------------------------|---|---|--|--|
| A/Pink-footed_goose/Iceland/0987/2011_H6N8 | EPI476116 | | Iceland | 1-Nov-2011 | - | Other database import | Wentworth,D.E.; Halpin,R.A.; Lin,X.; Bera,J.; Akopov,A.; Ransier,A.; Mohan,M.; Fedorova,N.; Tsitrin,T.; Stockwell,T.; Amedeo,P.; Appalla,L.; Bishop,B.; Edworthy,P.; Gupta,N.; Hoover,J.; Katzell,D.; Li,K.; Schobel,S.; Shrivastava,S.; Thovarai,V.; Wang,S.; Bao,Y.; Sanders,R.; Zhdanov,S.; Kirvutin,B.; Lioman,D.J.; Tatusova,T.; Hal,J.S.; Marinove-Petkova,A.; Georgiev,G.; Petkov,T.; Darnell,D.; Franks,J.; Walker,D.; Seiler,P.; Danner,A.; Graham,A.; McKenzie,P.; Krauss,S.; Webby,R.J.; Webster,R.G. |
| A/Mule_duck/Bulgaria/175/2009_H6 | EPI574252 | | Bulgaria | 12-Jan-2009 | - | Other database import | Marinove-Petkova,A.; Georgiev,G.; Petkov,T.; Darnell,D.; Franks,J.; Walker,D.; Seiler,P.; Danner,A.; Graham,A.; McKenzie,P.; Krauss,S.; Webby,R.J.; Webster,R.G. |
| A/Mule_duck/Bulgaria/181/2010_H6 | EPI574247 | | Bulgaria | 11-Feb-2010 | - | Other database import | Marinove-Petkova,A.; Georgiev,G.; Petkov,T.; Darnell,D.; Franks,J.; Walker,D.; Seiler,P.; Danner,A.; Graham,A.; McKenzie,P.; Krauss,S.; Webby,R.J.; Webster,R.G. |
| A/Chicken/Netherlands/11004875/2011_H7N1 A/Duck/Turkey/55/Cetinkaya/49/2006_H7N1 | pending EPI346007 | EPI316304 | Netherlands Turkey | 22-Apr-2011 2-Mar-2006 | Central Veterinary Institute Pendik Veterinary Control and Research Institute | Central Veterinary Institute Animal and Plant Health Agency (APHA) | Heutink R., S. Pritz-Verschuren and G.Koch Collins,S; Russell,C; Focosi-Snyman,R; Essen,S; Shell,W; Akcadag,B; Iyisan,S; Unsal Baca,A; Reid,S; Manvell,R; Banks,J |
| A/Guinea_fowl/Italy/407/2008_H7N1 | EPI210104 | | Italy | 2008* | Istituto Zooprofilattico Sperimentale Delle Venezia | Istituto Zooprofilattico Sperimentale Delle Venezia | - |
| A/Mallard/Denmark/58-62-KLSV-119/09_H7N1 | EPI492308 | | Denmark | 21-Oct-2009 | National Veterinary Institute | Animal and Plant Health Agency (APHA) | Barrass,L; Russell,C; Shell,W; Manvell,R; Jorgensen,P; Reid,S |
| A/Mallard/Italy/3397-65/2008_H7N1 | EPI167297 | | Italy | 2008* | - | Istituto Zooprofilattico Sperimentale Delle Venezia | - |
| A/Mallard/Italy/6103-5/2007_H7N1 | EPI167296 | | Italy | 2007* | - | Istituto Zooprofilattico Sperimentale Delle Venezia | - |
| A/Mallard/Italy/731/09_H7N1 | EPI492522 | | Italy | 7-Jan-2009 | Istituto Zooprofilattico Sperimentale Delle Venezia | Animal and Plant Health Agency (APHA) | Agyeman-Dua,E; Russell,C; Shell,W; Manvell,R; Terregino,C; Reid,S |
| A/Mallard/Italy/794-18/2008_H7N1 | EPI167299 | | Italy | 2008* | - | Istituto Zooprofilattico Sperimentale Delle Venezia | - |
| A/Shoveler/Egypt/00597-NAMRU3/2004_H7N1 | EPI372283 | EPI372282 | Egypt | 27-Jan-2004 | U.S. Naval Medical Research Unit No.3 | Centers for Disease Control and Prevention | Gerloff, Nancy; Simpson, Natosha; Jones, Joyce; Kis, Zoltan; Bahgat, Verina; Soliman,Atef; Elassal, Emad; Ahmed, Lu'ay; Gaynor, Anne; Cornelius, Claire; Davis,Todd |
| A/Shoveler/Egypt/14879-NAMRU3/2006_H7N1 | EPI372363 | EPI372362 | Egypt | 22-Dec-2006 | U.S. Naval Medical Research Unit No.3 | Centers for Disease Control and Prevention | Gerloff, Nancy; Simpson, Natosha; Jones, Joyce; Kis, Zoltan; Bahgat, Verina; Soliman,Atef; Elassal, Emad; Ahmed, Lu'ay; Gaynor, Anne; Cornelius, Claire; Davis,Todd |
| A/Tadorna_tadorna/Belgium/3441-P3/2009_H7N1 | EPI360900 | EPI360901 | Belgium | 21-Mar-2009 | Veterinary and Agrochemical Research Institute | Veterinary and Agrochemical Research Institute | - |
| A/Teal/Italy/794-3/2008_H7N1 | EPI167298 | | Italy | 2008* | - | Istituto Zooprofilattico Sperimentale Delle Venezia | - |
| A/Chicken/Italy/2240/2003_H7N3 | EPI154960 | | Italy | 2003* | - | Istituto Zooprofilattico Sperimentale Delle Venezia | Fusaro, A.; Tassoni, L.; Milani, A.; Salviato, A.; Schivo, A.; Monne, I.; Cattoli, G. |
| A/Chicken/Italy/2837-54/2007_H7N3 | EPI154980 | | Italy | 2007* | - | Istituto Zooprofilattico Sperimentale Delle Venezia | - |
| A/Chicken/Italy/2837-58/2007_H7N3 | EPI154981 | | Italy | 2007* | - | Istituto Zooprofilattico Sperimentale Delle Venezia | - |
| A/Chicken/Italy/8093/2002_H7N3 | EPI154966 | | Italy | 2002* | - | Istituto Zooprofilattico Sperimentale Delle Venezia | Fusaro, A.; Tassoni, L.; Milani, A.; Salviato, A.; Schivo, A.; Monne, I.; Cattoli, G. |
| A/Guinea_fowl/Italy/1613/2003_H7N3 | EPI154959 | | Italy | 2003* | - | Istituto Zooprofilattico Sperimentale Delle Venezia | Fusaro, A.; Tassoni, L.; Milani, A.; Salviato, A.; Schivo, A.; Monne, I.; Cattoli, G. |
| A/Mallard/Italy/1336/07_H7N3 | EPI167295 | | Italy | 2007* | - | Istituto Zooprofilattico Sperimentale Delle Venezia | - |
| A/Mallard/Italy/6103-12/2007_H7N3 | EPI154982 | | Italy | 2007* | - | Istituto Zooprofilattico Sperimentale Delle Venezia | - |
| A/Mallard/Italy/6104-14/2007_H7N3 | EPI167300 | | Italy | 2007* | - | Istituto Zooprofilattico Sperimentale Delle Venezia | - |
| A/Shoveler/Egypt/00017-NAMRU3/2007_H7N3 | EPI372450 | | Egypt | 29-Dec-2006 | U.S. Naval Medical Research Unit No.3 | Centers for Disease Control and Prevention | Gerloff, Nancy; Simpson, Natosha; Jones, Joyce; Kis, Zoltan; Bahgat, Verina; Soliman,Atef; Elassal, Emad; Ahmed, Lu'ay; Gaynor, Anne; Cornelius, Claire; Davis,Todd |
| A/Shoveler/Egypt/00241-NAMRU3/2007_H7N3 | EPI372418 | | Egypt | 5-Jan-2007 | U.S. Naval Medical Research Unit No.3 | Centers for Disease Control and Prevention | Gerloff, Nancy; Simpson, Natosha; Jones, Joyce; Kis, Zoltan; Bahgat, Verina; Soliman,Atef; Elassal, Emad; Ahmed, Lu'ay; Gaynor, Anne; Cornelius, Claire; Davis,Todd |
| A/Turkey/Italy/2963/2003_H7N3 | EPI243279 | | Italy | 23-May-2003 | - | Istituto Zooprofilattico Sperimentale Delle Venezia | - |
| A/Turkey/Italy/8307/2002_H7N3 | EPI154967 | | Italy | 2002* | - | Istituto Zooprofilattico Sperimentale Delle Venezia | Fusaro, A.; Tassoni, L.; Milani, A.; Salviato, A.; Schivo, A.; Monne, I.; Cattoli, G. |
| A/Swan/Germany/R736/06_H7N4 | EPI492517 | | Germany | Mar-2003* | Friedrich-Loeffler-Institut | Animal and Plant Health Agency (APHA) | Hanna,A; Russell,C; Shell,W; Harder,T; Grund,C; Starick,E; Manvell,R |
| A/Teal/Italy/11VIR-792/11_H7N6 | EPI492520 | | Italy | 31-Jan-2011 | Istituto Zooprofilattico Sperimentale Delle Venezia | Animal and Plant Health Agency (APHA) | Collins,S; Hanna,A; Essen,S; Focosi-Snyman,R; Manvell, R; Terregino,C; Reid,S |
| A/Branta_canadensis/Belgium/13000-9-2/2010_H7N7 | EPI360902 | | Belgium | 2010* | Veterinary and Agrochemical Research Institute | Veterinary and Agrochemical Research Institute | - |
| A/Chicken/Germany-NI/R874/2010_H7N7 A/Chicken/Germany/R1362/11_H7N7 | EPI302178 EPI492511 | | Germany Germany | 2010* May-2011* | Friedrich-Loeffler-Institut Friedrich-Loeffler-Institut | Friedrich-Loeffler-Institut Animal and Plant Health Agency (APHA) | - Agyeman-Dua,E; Russell,C; Shell,W; Manvell,R; Harder,T; Grund,C; Starick,E; Fereidouni,S; Reid,S |
| A/Chicken/Netherlands/11011326/2011_H7N7 A/Chicken/Netherlands/12014794/2012_H7N7 A/Egyptian_goose/Egypt/05588-NAMRU3/2006_H7N7 | pending EPI390921 EPI372394 | EPI325342 EPI390922 EPI372393 | Netherlands Netherlands Egypt | 21-Jun-2006 9-Aug-2012 7-Apr-2006 | Central Veterinary Institute Central Veterinary Institute U.S. Naval Medical Research Unit No.3 | Central Veterinary Institute Central Veterinary Institute Centers for Disease Control and Prevention | Pritz-Verschuren, Sylvia J.; Heutink, Rene; Koch, Guus Heutink,Rene; Pritz-Verschuren,Sylvia; Bouwstra,Ruth; Koch, Guus Gerloff, Nancy; Simpson, Natosha; Jones, Joyce; Kis, Zoltan; Bahgat, Verina; Soliman,Atef; Elassal, Emad; Ahmed, Lu'ay; Gaynor, Anne; Cornelius, Claire; Davis,Todd |
| A/Mallard/Denmark/303878-1S/13_H7N7 | EPI492307 | | Denmark | 26-May-2013 | National Veterinary Institute | Animal and Plant Health Agency (APHA) | Puranik,A; Hanna,A; Essen,S; Focosi-Snyman,R; Manvell,R; Hjulsgaer,C; Trebbien,R; Breum,S; Larsen,L; Reid,S |
| A/Mallard/Italy/11VIR-540/11_H7N7 | EPI492519 | | Italy | 10-Jan-2011 | Istituto Zooprofilattico Sperimentale Delle Venezia | Animal and Plant Health Agency (APHA) | Collins,S; Hanna,A; Essen,S; Focosi-Snyman,R; Manvell, R; Terregino,C; Reid,S |

| Isolate name | Accession number HA segment | Accession number NA segment | Country | Collection Date | Originating Laboratory | Submitting Laboratory | Authors |
|--|--------------------------------|--------------------------------|---------|-----------------|--|---|--|
| A/Mallard/Poland/01/08_H7N7 | EPI169422 | EPI169423 | Poland | 28-Dec-2007 | National Veterinary Research Institute | National Veterinary Research Institute | - |
| A/Mallard/Poland/41/09_H7N7 | EPI211188 | | Poland | 16-Feb-2009 | National Veterinary Research Institute | National Veterinary Research Institute | - |
| A/Mallard/Poland/446/09_H7N7 | EPI254381 | EPI254382 | Poland | 27-Dec-2009 | National Veterinary Research Institute | National Veterinary Research Institute | Smietanka,K; Pikula,A; Minta,Z |
| A/Pochard/Germany/R916/06_H7N7 | EPI492516 | | Germany | Mar-2006* | Friedrich-Loeffler-Institut | Animal and Plant Health Agency (APHA) | Hanna,A; Russell,C; Shell,W; Harder,T; Grund,C; Starick,E; Manvell,R |
| A/Shoveler/Egypt/09864-NAMRU3/2004_H7N7 | EPI372323 | EPI372322 | Egypt | 22-Dec-2004 | U.S. Naval Medical Research Unit No.3 | Centers for Disease Control and Prevention | Gerloff, Nancy; Simpson, Natoshia; Jones, Joyce; Kis, Zoltan; Bahgat, Verina; Soliman,Atef; Elassal, Emad; Ahmed, Lu'ay; Gaynor, Anne; Cornelius, Claire; Davis,Todd |
| A/Swan/Germany/R57/06_H7N7 | EPI492518 | | Germany | Jan-2006* | Friedrich-Loeffler-Institut | Animal and Plant Health Agency (APHA) | Hanna,A; Russell,C; Shell,W; Harder,T; Grund,C; Starick,E; Manvell,R |
| A/Teal/Egypt/00835-NAMRU3/2004_H7N7 | EPI372307 | | Egypt | 18-Feb-2004 | U.S. Naval Medical Research Unit No.3 | Centers for Disease Control and Prevention | Gerloff, Nancy; Simpson, Natoshia; Jones, Joyce; Kis, Zoltan; Bahgat, Verina; Soliman,Atef; Elassal, Emad; Ahmed, Lu'ay; Gaynor, Anne; Cornelius, Claire; Davis,Todd |
| A/Turkey/Germany-NW/R655/2009_H7N7 | EPI356351 | | Germany | 2009* | - | Friedrich-Loeffler-Institut | - |
| A/Shoveler/Egypt/00215-NAMRU3/2007_H7N9 | EPI372410 | | Egypt | 5-Jan-2007 | U.S. Naval Medical Research Unit No.3 | Centers for Disease Control and Prevention | Gerloff, Nancy; Simpson, Natoshia; Jones, Joyce; Kis, Zoltan; Bahgat, Verina; Soliman,Atef; Elassal, Emad; Ahmed, Lu'ay; Gaynor, Anne; Cornelius, Claire; Davis,Todd |
| A/Chicken/Italy/13VR4527-11/2013_H7N7 | EPI677999 | EPI677998 | Italy | 13-Aug-2013 | - | Istituto Zooprofilattico Sperimentale Delle Venezie | - |
| A/Northern_shoveler/Mississippi/11055900/2011_H8N1 | EPI512596 | | USA | 8-Dec-2011 | - | Other database import | Wentworth,D.E.; Dugan,V.; Halpin,R.; Lin,X.; Bera,J.; Ghedin,E.; Fedorova,N.; Overton,L.; Tsittrin,T.; Stockwell,T.; Amedeo,P.; Bishop,B.; Chen,H.; Edworthy,P.; Gupta,N.; Katzel,D.; Li,K.; Schobel,S.; Shrivastava,S.; Thovarai,V.; Wang,S.; Nolting,J.M.; Fries,A.C.; Bowman,A.S.; Bao,Y.; Sanders,R.; Zhdanov,S.; Kiryutin,B.; Lipman,D.J.; Tatusova,T.; Slemons,R. |
| A/American_black_duck/Nova_Scotia/02043/2007_H8N4 | EPI404484 | | Canada | 8-Aug-2007 | - | Other database import | Wentworth,D.E.; Dugan,V.; Halpin,R.; Lin,X.; Bera,J.; Ghedin,E.; Fedorova,N.; Overton,L.; Tsittrin,T.; Stockwell,T.; Amedeo,P.; Bishop,B.; Chen,H.; The NIAID Influenza Genome Sequencing Consortium |
| A/American_green-winged_teal/California/44287-373/2007_H8N4 | EPI292438 | | USA | 27-Jan-2007 | - | Other database import | Wentworth,D.E.; Dugan,V.; Halpin,R.; Lin,X.; Bera,J.; Ghedin,E.; Fedorova,N.; Overton,L.; Tsittrin,T.; Stockwell,T.; Amedeo,P.; Bishop,B.; Chen,H.; Edworthy,P.; Gupta,N.; Katzel,D.; Li,K.; Schobel,S.; Shrivastava,S.; Thovarai,V.; Wang,S.; Runstadler,J.; Lindberg,M.; Huettmann,F.; Petruska,M.; Meixell,B.; Gingsrich,J.P.; Gildehaus,L.A.; Vick,L.; Kokx,K.; Dillon,D.; Aldehoff,F.; Felker,E.P.; Marcotte,R.W.; Schmidt,J.C.; Moore,J.R.; Gerdes,K.E.; Ran,Y.; Sanders,R.; Dornnovov,D.; Kiryutin,B.; Lipman,D.J.; Tatusova,T. |
| A/American_green-winged_teal/Interior_Alaska/9BM5045R0/2009_H8N4 | EPI433069 | EPI433100 | USA | 29-Jul-2009 | - | Other database import | Anderson,T.; Piaggio,T. |
| A/Environment/Pennsylvania/NWRC182092-24/2006_H8N4 | EPI406002 | | USA | 2006* | - | Other database import | Centers for Disease Control and Prevention |
| A/Garganey/Ukraine/05835-NAMRU3/2006_H8N4 | EPI372512 | EPI372511 | Ukraine | 13-Aug-2006 | U.S. Naval Medical Research Unit No.3 | Centers for Disease Control and Prevention | Gerloff, Nancy; Simpson, Natoshia; Jones, Joyce; Kis, Zoltan; Bahgat, Verina; Soliman,Atef; Elassal, Emad; Ahmed, Lu'ay; Gaynor, Anne; Cornelius, Claire; Davis,Todd |
| A/Mallard/Interior_Alaska/8BM1966R1/2008_H8N4 | EPI299970 | | USA | 8-Aug-2008 | - | Other database import | The NIAID Influenza Genome Sequencing Consortium |
| A/Mallard/Interior_Alaska/8MP0547/2008_H8N4 | EPI299411 | | USA | 11-Aug-2008 | - | Other database import | The NIAID Influenza Genome Sequencing Consortium |
| A/Mallard/Interior_Alaska/9BM10537R0/2009_H8N4 | EPI436880 | | USA | 2009* | - | Other database import | Wentworth,D.E.; Dugan,V.; Halpin,R.; Lin,X.; Bera,J.; Ghedin,E.; Fedorova,N.; Overton,L.; Tsittrin,T.; Stockwell,T.; Amedeo,P.; Bishop,B.; Chen,H.; |
| A/Mallard/Interior_Alaska/9BM8389R0/2009_H8N4 | EPI452280 | EPI452282 | USA | 2009* | - | Other database import | - |
| A/Mallard/Minnesota/Sg-00675/2008_H8N4 | EPI188649 | | USA | 3-Aug-2008 | - | Other database import | Sreevatsan,S.; Ramakrishnan,M.A.; Wang,P.; Anderson,T.L.; Jindal,N.; Chander,Y.; Goyal,S.M.; Osterholm,M.T. |
| A/Northern_pintail/Interior_Alaska/8BM2011R1/2008_H8N4 | EPI299978 | | USA | 9-Aug-2008 | - | Other database import | The NIAID Influenza Genome Sequencing Consortium |
| A/Northern_pintail/Interior_Alaska/8BM2046R1/2008_H8N4 | EPI299419 | | USA | 9-Aug-2008 | - | Other database import | The NIAID Influenza Genome Sequencing Consortium |
| A/Northern_pintail/Interior_Alaska/8BM2621R1/2008_H8N4 | EPI299686 | | USA | 14-Aug-2008 | - | Other database import | The NIAID Influenza Genome Sequencing Consortium |
| A/Northern_pintail/Interior_Alaska/8BM2987/2008_H8N4 | EPI299122 | | USA | 17-Aug-2008 | - | Other database import | The NIAID Influenza Genome Sequencing Consortium |
| A/Northern_pintail/Interior_Alaska/8BM3088/2008_H8N4 | EPI299146 | | USA | 18-Aug-2008 | - | Other database import | The NIAID Influenza Genome Sequencing Consortium |
| A/Northern_pintail/Interior_Alaska/8BM3091/2008_H8N4 | EPI299694 | | USA | 18-Aug-2008 | - | Other database import | The NIAID Influenza Genome Sequencing Consortium |
| A/Northern_pintail/Interior_Alaska/8BM3137/2008_H8N4 | EPI299702 | | USA | 18-Aug-2008 | - | Other database import | The NIAID Influenza Genome Sequencing Consortium |
| A/Northern_pintail/Interior_Alaska/8MP0689/2008_H8N4 | EPI299090 | | USA | 13-Aug-2008 | - | Other database import | The NIAID Influenza Genome Sequencing Consortium |
| A/Northern_pintail/Interior_Alaska/9BM11556R0/2009_H8N4 | EPI452128 | | USA | 2009* | - | Other database import | Wentworth,D.E.; Dugan,V.; Halpin,R.; Lin,X.; Bera,J.; Ghedin,E.; Fedorova,N.; Overton,L.; Tsittrin,T.; Stockwell,T.; Amedeo,P.; Bishop,B.; Chen,H.; |
| A/Northern_pintail/Interior_Alaska/9BM11643R0/2009_H8N4 | EPI452142 | EPI452144 | USA | 2009* | - | Other database import | Wentworth,D.E.; Dugan,V.; Halpin,R.; Lin,X.; Bera,J.; Ghedin,E.; Fedorova,N.; Overton,L.; Tsittrin,T.; Stockwell,T.; Amedeo,P.; Bishop,B.; Chen,H.; |
| A/Northern_pintail/Interior_Alaska/9BM6510R0/2009_H8N4 | EPI452001 | EPI452003 | USA | 2009* | - | Other database import | Wentworth,D.E.; Dugan,V.; Halpin,R.; Lin,X.; Bera,J.; Ghedin,E.; Fedorova,N.; Overton,L.; Tsittrin,T.; Stockwell,T.; Amedeo,P.; Bishop,B.; Chen,H.; |
| A/Northern_pintail/Interior_Alaska/9BM7152R2/2009_H8N4 | EPI452015 | EPI452017 | USA | 2009* | - | Other database import | Wentworth,D.E.; Dugan,V.; Halpin,R.; Lin,X.; Bera,J.; Ghedin,E.; Fedorova,N.; Overton,L.; Tsittrin,T.; Stockwell,T.; Amedeo,P.; Bishop,B.; Chen,H.; |
| A/Northern_pintail/Interior_Alaska/9BM7240R0/2009_H8N4 | EPI452050 | | USA | 2009* | - | Other database import | Wentworth,D.E.; Dugan,V.; Halpin,R.; Lin,X.; Bera,J.; Ghedin,E.; Fedorova,N.; Overton,L.; Tsittrin,T.; Stockwell,T.; Amedeo,P.; Bishop,B.; Chen,H.; |
| A/Northern_pintail/Interior_Alaska/9BM7882R0/2009_H8N4 | EPI452219 | | USA | 2009* | - | Other database import | Wentworth,D.E.; Dugan,V.; Halpin,R.; Lin,X.; Bera,J.; Ghedin,E.; Fedorova,N.; Overton,L.; Tsittrin,T.; Stockwell,T.; Amedeo,P.; Bishop,B.; Chen,H.; |
| A/Northern_pintail/Interior_Alaska/9BM8109R0/2009_H8N4 | EPI436940 | | USA | 2009* | - | Other database import | Wentworth,D.E.; Dugan,V.; Halpin,R.; Lin,X.; Bera,J.; Ghedin,E.; Fedorova,N.; Overton,L.; Tsittrin,T.; Stockwell,T.; Amedeo,P.; Bishop,B.; Chen,H.; |
| A/Northern_pintail/Interior_Alaska/9BM8237R0/2009_H8N4 | EPI452226 | | USA | 2009* | - | Other database import | Wentworth,D.E.; Dugan,V.; Halpin,R.; Lin,X.; Bera,J.; Ghedin,E.; Fedorova,N.; Overton,L.; Tsittrin,T.; Stockwell,T.; Amedeo,P.; Bishop,B.; Chen,H.; |
| A/Northern_pintail/Interior_Alaska/9BM8967R0/2009_H8N4 | EPI436976 | | USA | 2009* | - | Other database import | Wentworth,D.E.; Dugan,V.; Halpin,R.; Lin,X.; Bera,J.; Ghedin,E.; Fedorova,N.; Overton,L.; Tsittrin,T.; Stockwell,T.; Amedeo,P.; Bishop,B.; Chen,H.; |
| A/Northern_shoveler/California/AKS273/2007_H8N4 | EPI178742 | | USA | 1-Dec-2007 | - | Other database import | - |

| Isolate name | Accession number HA segment | Accession number NA segment | Country | Collection Date | Originating Laboratory | Submitting Laboratory | Authors |
|---|--------------------------------|--------------------------------|----------|-----------------|---------------------------------------|---|---|
| A/Northern_shoveler/California/HKWF1203/2007_H8N4 | EPI222411 | | USA | 5-Dec-2007 | - | Other database import | Cardona,C.; Boyce,W.M.; Nelson,J.; Anchell,N.; Dao,N.; Anunciacion,J.; Cai,H.; Green,L.; Detter,C.; Kiss,H.; Dannen,M. |
| A/Northern_shoveler/California/HKWF1204/2007_H8N4 | EPI178782 | | USA | 5-Dec-2007 | - | Other database import | - |
| A/Northern_shoveler/California/HKWF1325/2007_H8N4 | EPI160322 | | USA | 9-Dec-2007 | - | Other database import | - |
| A/Northern_shoveler/Interior_Alaska/9BM2925R0/2009_H8N4 | EPI432837 | | USA | 16-Jul-2009 | - | Other database import | Wentworth,D.E.; Dugan,V.; Halpin,R.; Lin,X.; Bera,J.; Ghedin,E.; Fedorova,N.; Overton,L.; Tsitrin,T.; Stockwell,T.; Amedeo,P.; Bishop,B.; Chen,H.; |
| A/Northern_shoveler/Minnesota/Sg-00648/2008_H8N4 | EPI449391 | | USA | 1-Aug-2008 | - | Other database import | Wentworth,D.E.; Dugan,V.; Halpin,R.; Lin,X.; Bera,J.; Wester,E.; Ghedin,E.; Fedorova,N.; Tsitrin,T.; Stockwell,T.; Amedeo,P.; Bishop,B.; Edworthy,P.; Gupta,N.; Katzel,D.; Li,K.; Schobel,S.; Shrivastava,S.; Thovarai,V.; Wang,S.; Lebarbenchon,C.; Sreevatsan,S.; Poulson,B.; Yang,M.; Stallknecht,D.; Bao,Y.; Sanders,R.; Dernovoy,D.; Kiryutin,B.; |
| A/Teal/Northern_Ireland/14567-10-5257/2007_H9N1 | EPI383878 | | Ireland | 2007* | - | Other database import | Linman,D.J.; Tatusova,T. Slomka,M.J.; Hanna,A.; Mahmood,S.; Govil,J.; Krill,D.; Manvell,R.J.; Shell,W.; Arnold,M.E.; Banks,J.; Brown,I.H. |
| A/Common_coot/Poland/88/13_H9N2 | EPI505111 | | Poland | 22-Sep-2013 | - | National Veterinary Research Institut Poland, PIWet-PIB | - |
| A/Mallard/Iran/C364/2007_H9N2 | EPI302559 | | Iran | 2007* | - | Other database import | Fereidouni,SR. |
| A/Turkey/England/13437/2013_H9N2 | EPI585514 | | England | 14-Apr-2013 | Animal and Plant Health Agency (APHA) | Animal and Plant Health Agency (APHA) | Reid, SM; Banks, J; Ceeraz, V; Cox, WJ; Howard, WA; Puranik, A; Collins, S; Seekings, A; Manvell, R; Irvine, RM; Brown, IH |
| A/Turkey/England/13538/2013_H9N2 | EPI585519 | | England | 14-Apr-2013 | Animal and Plant Health Agency (APHA) | Animal and Plant Health Agency (APHA) | Reid, SM; Banks, J; Ceeraz, V; Cox, WJ; Howard, WA; Puranik, A; Collins, S; Seekings, A; Manvell, R; Irvine, RM; Brown, IH |
| A/Turkey/Poland/14/13_H9N2 | EPI500817 | | Poland | 23-Apr-2013 | - | National Veterinary Research Institut Poland, PIWet-PIB | - |
| A/Turkey/Poland/20/13_H9N2 | EPI505105 | | Poland | 15-May-2013 | - | National Veterinary Research Institut Poland, PIWet-PIB | - |
| A/Ruddy_turnstone/New_Jersey/AI03-128/2003_H9N7 | EPI454831 | | USA | 21-May-2003 | - | Other database import | Wentworth,D.E.; Dugan,V.; Halpin,R.; Lin,X.; Bera,J.; Wester,E.; Ghedin,E.; Fedorova,N.; Tsitrin,T.; Stockwell,T.; Amedeo,P.; Bishop,B.; Edworthy,P.; Gupta,N.; Katzel,D.; Li,K.; Schobel,S.; Shrivastava,S.; Thovarai,V.; Wang,S.; Lebarbenchon,C.; Sreevatsan,S.; Poulson,B.; Yang,M.; Stallknecht,D.; Bao,Y.; Sanders,R.; Dernovoy,D.; Kiryutin,B.; |
| A/Ruddy_turnstone/New_Jersey/AI03-444/2003_H9N9 | EPI454810 | | USA | 20-May-2003 | - | Other database import | Linman,D.J.; Tatusova,T. Wentworth,D.E.; Dugan,V.; Halpin,R.; Lin,X.; Bera,J.; Wester,E.; Ghedin,E.; Fedorova,N.; Tsitrin,T.; Stockwell,T.; Amedeo,P.; Bishop,B.; Edworthy,P.; Gupta,N.; Katzel,D.; Li,K.; Schobel,S.; Shrivastava,S.; Thovarai,V.; Wang,S.; Lebarbenchon,C.; Sreevatsan,S.; Poulson,B.; Yang,M.; Stallknecht,D.; Bao,Y.; Sanders,R.; Dernovoy,D.; Kiryutin,B.; |
| A/Duck/Tsukuba/574/2006_H10N1 | EPI356629 | | Japan | 2006* | - | Other database import | Lioman,D.J.; Tatusova,T. Tsukamoto,K.; Javier,P.; Shishido,M.; Noguchi,D.; Pearce,J.; Kang,H.; Jeong,O.; Lee,Y.; Nakanishi,K.; Ashizawa,T. |
| A/Shoveler/Egypt/00006-NAMRU3/2007_H10N1 | EPI372442 | | Egypt | 29-Dec-2006 | U.S. Naval Medical Research Unit No.3 | Centers for Disease Control and Prevention | Gerloff, Nancy; Simpson, Natosha; Jones, Joyce; Kis, Zoltan; Bahgat, Verina; Soliman,Atef; Elassal, Emad; Ahmed, Lu'ay; Gaynor, Anne; Corneliu, Claire; Davis, Todd |
| A/Teal/Egypt/12908-NAMRU3/2005_H10N1 | EPI372481 | EPI372480 | Egypt | 21-Nov-2005 | U.S. Naval Medical Research Unit No.3 | Centers for Disease Control and Prevention | Gerloff, Nancy; Simpson, Natosha; Jones, Joyce; Kis, Zoltan; Bahgat, Verina; Soliman,Atef; Elassal, Emad; Ahmed, Lu'ay; Gaynor, Anne; Corneliu, Claire; Davis, Todd |
| A/Wild_bird/Korea/A323/2009_H10N1 | EPI387876 | | Korea | Nov-2009* | - | Other database import | Kim,H.R.; Lee,Y.J.; Oem,J.K.; Bae,Y.C.; Kang,M.S.; Kang,H.M.; Choi,J.G.; Park,C.K.; Kwon,Y.K. |
| A/Duck/Hokkaido/W87/2007_H10N2 | EPI161527 | | Japan | 2007* | - | Other database import | - |
| A/Duck/Hunan/S11205/2012_H10N3 | EPI461563 | | China | 25-Mar-2012 | - | Other database import | Deng,G.; Tan,D.; Shi,J.; Cui,P.; Jiang,Y.; Liu,L.; Tian,G.; Kawaoka,Y.; Li,C.; Chen,H. |
| A/Duck/Thailand/LM-CU4747/2009_H10N3 | EPI314742 | | Thailand | 11-2009* | - | Other database import | Amonsin,A.; Lapkuntod,J.; Suradhat,S.; Tantilertcharoen,R.; Bunpapong,N.; Boonyapisitsopa,S.; Wongphatcharachai,M.; Wisedchanwet,T.; Poovorawan,Y.; Sasireevaian,J.; Thanawongnuwech,R. |
| A/Duck/Thailand/LM-CU4753/2009_H10N3 | EPI314746 | | Thailand | 11-2009* | - | Other database import | Amonsin,A.; Lapkuntod,J.; Suradhat,S.; Tantilertcharoen,R.; Bunpapong,N.; Boonyapisitsopa,S.; Wongphatcharachai,M.; Wisedchanwet,T.; Poovorawan,Y.; Sasireevaian,J.; Thanawongnuwech,R. |
| A/Muscovy_duck/Thailand/CU-LM4754/2009_H10N3 | EPI256770 | | Thailand | 11-2009* | - | Other database import | Amonsin,A. |
| A/Duck/Italy/268302/2004_H10N4 | EPI178493 | EPI178495 | Italy | 2004* | - | Other database import | Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia |
| A/Pied_avocet/Ukraine/05848-NAMRU3/2006_H10N4 | EPI372496 | EPI372495 | Ukraine | 1-May-2006 | U.S. Naval Medical Research Unit No.3 | Centers for Disease Control and Prevention | Gerloff, Nancy; Simpson, Natosha; Jones, Joyce; Kis, Zoltan; Bahgat, Verina; Soliman,Atef; Elassal, Emad; Ahmed, Lu'ay; Gaynor, Anne; Corneliu, Claire; Davis, Todd |
| A/Shoveler/Egypt/01574-NAMRU3/2007_H10N4 | EPI372458 | EPI372457 | Egypt | 9-Feb-2007 | U.S. Naval Medical Research Unit No.3 | Centers for Disease Control and Prevention | Gerloff, Nancy; Simpson, Natosha; Jones, Joyce; Kis, Zoltan; Bahgat, Verina; Soliman,Atef; Elassal, Emad; Ahmed, Lu'ay; Gaynor, Anne; Corneliu, Claire; Davis, Todd |
| A/Long-tailed_duck/Wisconsin/10053919/2010_H10N6 | EPI419336 | | USA | 16-Nov-2010 | - | Other database import | Wentworth,D.E.; Dugan,V.; Halpin,R.; Lin,X.; Bera,J.; Wester,E.; Ghedin,E.; Fedorova,N.; Tsitrin,T.; Stockwell,T.; Amedeo,P.; Bishop,B.; Edworthy,P.; Gupta,N.; Katzel,D.; Li,K.; Schobel,S.; Shrivastava,S.; Thovarai,V.; Wang,S.; Lebarbenchon,C.; Sreevatsan,S.; Poulson,B.; Yang,M.; Stallknecht,D.; Bao,Y.; Sanders,R.; Dernovoy,D.; Kiryutin,B.; |
| A/Mallard/Denmark/16109-4/2011-11-14_H10N6 | EPI541472 | | Denmark | 14-Nov-2011 | Technical University of Denmark | Technical University of Denmark | Linman,D.J.; Tatusova,T. Hjulsgaer, Charlotte; Breum, Solvej; Trebbien, Ramona; Larsen, Lars E |
| A/Anas_platyrhynchos/Camargue/091863/09_H10N7 | EPI332944 | EPI332955 | France | 20-May-2009 | Station Biologique "Tour du Valat" | Institut Pasteur | VITTECOQ Marion, GRANDHOMME Viviane |
| A/Avian/Israel/232/2001_H10N7 | EPI456969 | | Israel | Feb-2001* | - | Other database import | Shkoda,J.; Panshin,A.; Shihmanter,E.; Lapin,K.; Lipkind,M. |
| A/Duck/Italy/62330/2006_H10N7 | EPI178528 | | Italy | 2006* | - | Other database import | - |
| A/Duck/Italy/73383/2006_H10N7 | EPI174777 | | Italy | 2006* | - | Other database import | Istituto Zooprofilattico Sperimentale Delle Venezia |
| A/Harbor_seal/Denmark/14-5061-1lu/2014-07_H10N7 | EPI541474 | | Denmark | Jul-2014* | Technical University of Denmark | Technical University of Denmark | Krog, Jesper Schak; Hjulsgaer, Charlotte; Larsen, Lars E |
| A/Mallard/Egypt/EMC-4/2012_H10N7 | EPI552755 | | Egypt | 9-Mar-2012 | Erasmus Medical Center | Erasmus Medical Center | Bodewes, Rogier; Bestebroer, Theo M.; Van der Vries, Erhard; Verhagen, Josanne H.; Koopmans, Marion P.; Fouchier, Ron A.M.; Wohlsein, Peter; Siebert, Ursula; Baumgärtner, Wolfgaang; Osterhaus, Albert D.M.E. |

| Isolate name | Accession number HA segment | Accession number NA segment | Country | Collection Date | Originating Laboratory | Submitting Laboratory | Authors |
|--|--------------------------------|--------------------------------|-----------------|-----------------|---|---|---|
| A/Mallard/Netherlands/1/2012_H10N7 | EPI552756 | | Netherlands | 14-Jan-2012 | Erasmus Medical Center | Erasmus Medical Center | Bodewes, Rogier; Bestebroer, Theo M.; Van der Vries, Erhard; Verhagen, Josanne H.; Koopmans, Marion P.; Fouchier, Ron A.M.; Wohlsein, Peter; Siebert, Ursula; Baumgärtner, Wolfgang; Osterhaus, Albert D.M.E. |
| A/Mallard/Netherlands/1/2014_H10N7 | EPI552751 | | Netherlands | 17-Feb-2014 | Erasmus Medical Center | Erasmus Medical Center | Bodewes, Rogier; Bestebroer, Theo M.; Van der Vries, Erhard; Verhagen, Josanne H.; Koopmans, Marion P.; Fouchier, Ron A.M.; Wohlsein, Peter; Siebert, Ursula; Baumgärtner, Wolfgang; Osterhaus, Albert D.M.E. |
| A/Northern_paintail/Egypt/EMC-1/2012_H10N7 | EPI552754 | | Egypt | 20-Jan-2012 | Erasmus Medical Center | Erasmus Medical Center | Bodewes, Rogier; Bestebroer, Theo M.; Van der Vries, Erhard; Verhagen, Josanne H.; Koopmans, Marion P.; Fouchier, Ron A.M.; Wohlsein, Peter; Siebert, Ursula; Baumgärtner, Wolfgang; Osterhaus, Albert D.M.E. |
| A/Seal/Sweden/SVA0546/2014_H10N7 | EPI545212 | | Sweden | 16-Apr-2014 | Swedish Museum of Natural History | National Veterinary Institute | Siamak,Zohari; Aleksija,Neimanis; Tero,Härkönen; Charlotta,Moraesus; Jean-Francois,Vallachare |
| A/Shoveler/Egypt/00600-NAMRU3/2004_H10N7 | EPI372291 | | Egypt | 27-Jan-2004 | U.S. Naval Medical Research Unit No.3 | Centers for Disease Control and Prevention | Gerloff, Nancy; Simpson, Natosha; Jones, Joyce; Kis, Zoltan; Bahgat, Verina; Soliman,Atef; Ellassal, Emad; Ahmed, Lu'ay; Gaynor, Anne; Cornelius, Claire; Davis,Todd |
| A/Shoveler/Egypt/01198-NAMRU3/2007_H10N7 | EPI372402 | | Egypt | 19-Jan-2007 | U.S. Naval Medical Research Unit No.3 | Centers for Disease Control and Prevention | Gerloff, Nancy; Simpson, Natosha; Jones, Joyce; Kis, Zoltan; Bahgat, Verina; Soliman,Atef; Ellassal, Emad; Ahmed, Lu'ay; Gaynor, Anne; Cornelius, Claire; Davis,Todd |
| A/Shoveler/Egypt/09781-NAMRU3/2004_H10N7 | EPI372339 | EPI372338 | Egypt | 18-Dec-2004 | U.S. Naval Medical Research Unit No.3 | Centers for Disease Control and Prevention | Gerloff, Nancy; Simpson, Natosha; Jones, Joyce; Kis, Zoltan; Bahgat, Verina; Soliman,Atef; Ellassal, Emad; Ahmed, Lu'ay; Gaynor, Anne; Cornelius, Claire; Davis,Todd |
| A/Teal/Egypt/01207-NAMRU3/2007_H10N7 | EPI372426 | EPI372425 | Egypt | 19-Jan-2007 | U.S. Naval Medical Research Unit No.3 | Centers for Disease Control and Prevention | Gerloff, Nancy; Simpson, Natosha; Jones, Joyce; Kis, Zoltan; Bahgat, Verina; Soliman,Atef; Ellassal, Emad; Ahmed, Lu'ay; Gaynor, Anne; Cornelius, Claire; Davis,Todd |
| A/Seal/Sweden/SVA0824/2014_H10N7_H10N7 | EPI547696 | | Sweden | 29-Aug-2014 | Swedish Museum of Natural History | National Veterinary Institute | Siamak,Zohari; Aleksija,Neimanis; Tero,Härkönen; Charlotta,Moraesus; Jean-Francois,Vallachare |
| A/Chicken/77/Jiangxi/2014_H10N8 | EPI537463 | | China | 9-Jan-2014 | - | Tsinghua University | - |
| A/Chicken/Jiangxi/102/2013_H10N8 | EPI530542 | | China | 8-Dec-2013 | South China Agricultural University | South China Agricultural University | Wenbao,Q; Xianfeng,Zhou; Lihong,Huang; Huanan,Li; Qian,Li; Ming,Liao; Mingbin,Liu |
| A/Environment/Dongting_Lake/Hunan/3-9/2007_H10N8 | EPI221966 | | China | 2007* | - | Other database import | Zhang,H.; Chen, Z. |
| A/Environment/Jiangxi/03366/2013_H10N8 | EPI530386 | | China | 8-Dec-2013 | WHO Chinese National Influenza Center | WHO Chinese National Influenza Center | Wang,Dayan; Gao,Rongbao; Yang,Lei; Zhou,Shumei; Li,Xiyang; Zhou,Jianfang; Zhu,Wenfei; Guo,Junfeng; Li,Xiaodan; Dong,Jie; Huang,Weijuan; Zhang,Ye; Dong,Libo; Zhao,Xiang; Lu,Jian; Lan,Yu; Shu,Yuelong |
| A/Environment/Jiangxi/03367/2013_H10N8 | EPI530394 | | China | 8-Dec-2013 | WHO Chinese National Influenza Center | WHO Chinese National Influenza Center | Wang,Dayan; Gao,Rongbao; Yang,Lei; Zhou,Shumei; Li,Xiyang; Zhou,Jianfang; Zhu,Wenfei; Guo,Junfeng; Li,Xiaodan; Dong,Jie; Huang,Weijuan; Zhang,Ye; Dong,Libo; Zhao,Xiang; Lu,Jian; Lan,Yu; Shu,Yuelong |
| A/Environment/Jiangxi/03413/2013_H10N8 | EPI530402 | | China | 11-Dec-2013 | WHO Chinese National Influenza Center | WHO Chinese National Influenza Center | Wang,Dayan; Gao,Rongbao; Yang,Lei; Zhou,Shumei; Li,Xiyang; Zhou,Jianfang; Zhu,Wenfei; Guo,Junfeng; Li,Xiaodan; Dong,Jie; Huang,Weijuan; Zhang,Ye; Dong,Libo; Zhao,Xiang; Lu,Jian; Lan,Yu; Shu,Yuelong |
| A/Environment/Jiangxi/03489/2013_H10N8 | EPI530410 | | China | 27-Dec-2013 | WHO Chinese National Influenza Center | WHO Chinese National Influenza Center | Wang,Dayan; Gao,Rongbao; Yang,Lei; Zhou,Shumei; Li,Xiyang; Zhou,Jianfang; Zhu,Wenfei; Guo,Junfeng; Li,Xiaodan; Dong,Jie; Huang,Weijuan; Zhang,Ye; Dong,Libo; Zhao,Xiang; Lu,Jian; Lan,Yu; Shu,Yuelong |
| A/Environment/Jiangxi/10615/2014_H10N8 | EPI530418 | | China | 10-Jan-2014 | WHO Chinese National Influenza Center | WHO Chinese National Influenza Center | Wang,Dayan; Gao,Rongbao; Yang,Lei; Zhou,Shumei; Li,Xiyang; Zhou,Jianfang; Zhu,Wenfei; Guo,Junfeng; Li,Xiaodan; Dong,Jie; Huang,Weijuan; Zhang,Ye; Dong,Libo; Zhao,Xiang; Lu,Jian; Lan,Yu; Shu,Yuelong |
| A/Environment/Jiangxi/10721/2014_H10N8 | EPI530426 | | China | 15-Jan-2014 | WHO Chinese National Influenza Center | WHO Chinese National Influenza Center | Wang,Dayan; Gao,Rongbao; Yang,Lei; Zhou,Shumei; Li,Xiyang; Zhou,Jianfang; Zhu,Wenfei; Guo,Junfeng; Li,Xiaodan; Dong,Jie; Huang,Weijuan; Zhang,Ye; Dong,Libo; Zhao,Xiang; Lu,Jian; Lan,Yu; Shu,Yuelong |
| A/Environment/Jiangxi/10738/2014_H10N8 | EPI530434 | | China | 14-Jan-2014 | WHO Chinese National Influenza Center | WHO Chinese National Influenza Center | Wang,Dayan; Gao,Rongbao; Yang,Lei; Zhou,Shumei; Li,Xiyang; Zhou,Jianfang; Zhu,Wenfei; Guo,Junfeng; Li,Xiaodan; Dong,Jie; Huang,Weijuan; Zhang,Ye; Dong,Libo; Zhao,Xiang; Lu,Jian; Lan,Yu; Shu,Yuelong |
| A/Jiangxi-Donghu/346/2013_H10N8 | EPI497477 | | China | 4-Dec-2013 | - | WHO Chinese National Influenza Center | Rongbao,Gao; Shumei,Zou; Xiang,Zhao; Lei,Yang; Dayan,Wang; Yuelong,Shu |
| A/Jiangxi/09037/2014_H10N8 | EPI530450 | | China | 8-Jan-2014 | WHO Chinese National Influenza Center | WHO Chinese National Influenza Center | Wang,Dayan; Gao,Rongbao; Yang,Lei; Zhou,Shumei; Li,Xiyang; Zhou,Jianfang; Zhu,Wenfei; Guo,Junfeng; Li,Xiaodan; Dong,Jie; Huang,Weijuan; Zhang,Ye; Dong,Libo; Zhao,Xiang; Lu,Jian; Lan,Yu; Shu,Yuelong |
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| A/Northern_shoveler/Hong_Kong/MPE2984/2008_H10N9 | EPI469808 | | Hong Kong (SAR) | 2008* | - | Other database import | Lam,T.T.Y.; Wang,J.; Shen,Y.; Zhou,B.; Duan,L.; Cheung,C.L.; Ma,C.; Lycett,S.J.; Leung,C.Y.H.; Chen,X.; Li,L.; Hong,W.; Chai,Y.; Zhou,L.; Liang,H.; Ou,Z.; Liu,Y.; Ferooqui,A.; Kelvin,D.J.; Poon,L.L.M.; Smith,D.K.; Pybus,O.G.; Leung,G.M.; Shu,Y.; Webster,R.G.; Webb,R.J.; Peiris,J.S.M.; Rambaut,A.; Zhu,H.; Guan,Y. |
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| A/White-fronted_goose/Germany-NI/R482/09_H1N1 | EPI248525 | EPI248524 | Germany | 2009* | - | Friedrich-Loeffler-Institut | - |
| A/Domestic_goose/Germany-MV/R3298/2009_H6N1 | EPI339177 | | Germany | 2009* | - | Friedrich-Loeffler-Institut | - |
| A/Mallard/Italy/4518/2007_H10N1 | EPI511812 | | Italy | 2007* | Istituto Zooprofilattico Sperimentale Delle Venezie | Istituto Zooprofilattico Sperimentale Delle Venezie | - |
| A/Wild_duck/Germany/WV2555/2006_H3N2 | EPI185342 | | Germany | 2006* | - | Friedrich-Loeffler-Institut | - |
| A/Pheasant/Ireland/PV12-010728/12_H5N2 | EPI375596 | | Ireland | 24-Mar-2012 | Central Veterinary Research Laboratory | Animal and Plant Health Agency (APHA) | Puranik, A; Thomas, S; Hanna, A; Essen, S; Focosi-Snyman, R; Manvell, R.J; Raleigh, P; Flynn, O; Reid, S |

| Isolate name | Accession number HA segment | Accession number NA segment | Country | Collection Date | Originating Laboratory | Submitting Laboratory | Authors |
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| A/Turkey/Italy/12VIR-6607-5/2012_H5N2 | | EPI464937 | Italy | 31-Aug-2012 | Istituto Zooprofilattico Sperimentale Delle Venezia | Istituto Zooprofilattico Sperimentale Delle Venezia | Monne, I.; Salviato, A.; Tassoni, L.; Cattoli, G. |
| A/Chicken/Italy/12VIR-7785-67/2012_H5N2 | | EPI464945 | Italy | 28-Sep-2012 | Istituto Zooprofilattico Sperimentale Delle Venezia | Istituto Zooprofilattico Sperimentale Delle Venezia | Monne, I.; Salviato, A.; Tassoni, L.; Cattoli, G. |
| A/Turkey/Italy/12VIR-8036-2/2012_H5N2 | | EPI464953 | Italy | 28-Jun-2012 | Istituto Zooprofilattico Sperimentale Delle Venezia | Istituto Zooprofilattico Sperimentale Delle Venezia | Monne, I.; Salviato, A.; Tassoni, L.; Cattoli, G. |
| A/Mule_duck/Bulgaria/61/2010_mixed | | EPI574173 | Bulgaria | 10-Jan-2010 | - | Other database import | Marinove-Petkova,A.; Georgiev,G.; Petkov,T.; Darnell,D.; Franks,J.; Walker,D.; Seiler,P.; Danner,A.; Graham,A.; McKenzie,P.; Krauss,S.; Webby,R.J.; Webster,R.G. |
| A/Mule_duck/Bulgaria/64/2010_mixed | | EPI574211 | Bulgaria | 9-Jan-2010 | - | Other database import | Marinove-Petkova,A.; Georgiev,G.; Petkov,T.; Darnell,D.; Franks,J.; Walker,D.; Seiler,P.; Danner,A.; Graham,A.; McKenzie,P.; Krauss,S.; Webby,R.J.; Webster,R.G. |
| A/Mule_duck/Bulgaria/369/2009_H4N2 | | EPI574213 | Bulgaria | 16-Mar-2009 | - | Other database import | Marinove-Petkova,A.; Georgiev,G.; Petkov,T.; Darnell,D.; Franks,J.; Walker,D.; Seiler,P.; Danner,A.; Graham,A.; McKenzie,P.; Krauss,S.; Webby,R.J.; Webster,R.G. |
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| A/Mule_duck/Bulgaria/174/2009_H6N2 | | EPI574265 | Bulgaria | 12-Jan-2009 | - | Other database import | Marinove-Petkova,A.; Georgiev,G.; Petkov,T.; Darnell,D.; Franks,J.; Walker,D.; Seiler,P.; Danner,A.; Graham,A.; McKenzie,P.; Krauss,S.; Webby,R.J.; Webster,R.G. |
| A/Mule_duck/Bulgaria/596/2010_H4N2 | | EPI574276 | Bulgaria | 29-Mar-2010 | - | Other database import | Marinove-Petkova,A.; Georgiev,G.; Petkov,T.; Darnell,D.; Franks,J.; Walker,D.; Seiler,P.; Danner,A.; Graham,A.; McKenzie,P.; Krauss,S.; Webby,R.J.; Webster,R.G. |
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| A/Pintail/Alaska/314/2005_H12N4 | | EPI307548 | USA | 11-Aug-2005 | - | Other database import | The NIAID Influenza Genome Sequencing Consortium |
| A/Red_knot/Delaware_Bay/227/1994_mixed | | EPI345275 | USA | 23-May-1994 | - | Other database import | The NIAID Influenza Genome Sequencing Consortium |
| A/Shorebird/Delaware_Bay/215/1994_mixed | | EPI437174 | USA | 23-May-1994 | - | Other database import | Wentworth,D.E.; Dugan,V.; Halpin,R.; Lin,X.; Bera,J.; Ghedin,E.; Fedorova,N.; Overton,L.; Tsitrin,T.; Stockwell,T.; Amedeo,P.; Bishop,B.; Chen,H.; Edworthy,P.; Gupta,N.; Katzel,D.; Li,K.; Schobel,S.; Shrivastava,S.; Thovarai,V.; Wang,S.; Runstadler,J.; Lindberg,M.; Huettmann,F.; Petrus,M.; Meixell,B.; Gingrich,J.P.; Gildehaus,L.A.; Vick,L.; Kokx,K.; Dillon,D.; Aldehoff,F.; Felker,E.P.; Marcotte,R.W.; Schmidt,J.C.; Moore,J.R.; Gerdes,K.E.; Rao,Y.; Sanders,R.; Dornovov,D.; Kiryutin,B.; Inman,D.I.; Tatusova,T. |
| A/Ruddy_turnstone/Delaware_Bay/124/1994_mixed | | EPI437442 | USA | 22-May-1994 | - | Other database import | Wentworth,D.E.; Dugan,V.; Halpin,R.; Lin,X.; Bera,J.; Ghedin,E.; Fedorova,N.; Overton,L.; Tsitrin,T.; Stockwell,T.; Amedeo,P.; Bishop,B.; Chen,H.; Edworthy,P.; Gupta,N.; Katzel,D.; Li,K.; Schobel,S.; Shrivastava,S.; Thovarai,V.; Wang,S.; Runstadler,J.; Lindberg,M.; Huettmann,F.; Petrus,M.; Meixell,B.; Gingrich,J.P.; Gildehaus,L.A.; Vick,L.; Kokx,K.; Dillon,D.; Aldehoff,F.; Felker,E.P.; Marcotte,R.W.; Schmidt,J.C.; Moore,J.R.; Gerdes,K.E.; Rao,Y.; Sanders,R.; Dornovov,D.; Kiryutin,B.; Inman,D.I.; Tatusova,T. |
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| A/Mallard/Alberta/194/1992_H8N4 | | EPI87925 | Canada | 1-Dec-1992 | - | Other database import | - |
| A/Duck/Hokkaido/24/04_H10N5 | | EPI160652 | Japan | 2004* | - | Other database import | - |
| A/Mallard/Denmark/77-64590-5/2005_H7N5 | | EPI174859 | Denmark | 19-Sep-2005 | Technical University of Denmark | National Veterinary Institute | - |
| A/Mallard/California/6524/2008_H12N5 | | EPI328292 | USA | 5-Nov-2008 | - | Other database import | The NIAID Influenza Genome Sequencing Consortium |
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| A/Mallard/Ohio/170/1999_H6N5 | | EPI44086 | USA | 23-Oct-1999 | - | Other database import | - |
| A/Emperor_goose/Alaska/44064-075/2006_H2N5 | | EPI442443 | USA | 25-May-2006 | - | Other database import | Reeves,A.B.; Pearce,J.M.; Ramey,A.M.; Ely,C.R.; Schmutz,J.A.; Flint,P.L.; Derksen,D.V.; Ip,H.S.; Trust,K.A. |
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| A/Mallard/Alberta/52/1997_H12N5 | | EPI86417 | Canada | 31-Oct-1997 | - | Other database import | - |
| A/Green-winged_teal/ALB/199/1991_H12N5 | | EPI88775 | Canada | 26-Aug-1991 | - | Other database import | - |
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| A/Turkey/Netherlands/03003568/03_H7N7 | | EPI290239 | Netherlands | 9-Mar-2003 | - | Central Veterinary Institute | - |
| A/Chicken/Germany/R1801/2011_H7N7 | | EPI356304 | Germany | 2011* | - | Friedrich-Loeffler-Institut | - |
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| A/Turkey/Germany-NI/R534/2013_H7N7 | | EPI470367 | Germany | 11-Apr-2013 | - | Friedrich-Loeffler-Institut | - |