

**S1 Table. The low pathogenic avian influenza viruses (LPAIV) and the accession numbers of the segments used in this study as listed in online databases GenBank and GISAID EpiFlu.**

Viral Name	Source	Accession number	Accession number
		HA segment	NA segment
A/White-fronted_goose/Netherlands/1/2007_H1N1	GenBank	KR862410	KR862542
A/Bean_goose/Netherlands/1/2007_H1N1	GenBank	KR862411	KR862543
A/Mallard/Netherlands/26/2006_H1N1	GenBank	KR862413	
A/Mallard/Netherlands/64/2006_H1N1	GenBank	KR862414	KR862551
A/Mallard/Netherlands/23/2006_H1N1	GenBank	KR862412	
A/Bewicks_swan/Netherlands/6/2006_H1N1	GenBank	KR862416	
A/Pink-footed_goose/Belgium/EMC-1/2007_H1N1	GenBank	KR862369	KR862390
A/Eurasian_wigeon/Netherlands/2/2007_H1N1	GenBank	KR862417	
A/Black-headed_gull/Netherlands/1/2008_H1N3	GenBank	KR862418	
A/White-fronted_goose/Netherlands/4/2011_H1N1	GenBank	KR862419	KR862558
A/Common_teal/Netherlands/3/2005_H1N1	GenBank	KR862408	KR862539
A/Barnacle_goose/Netherlands/1/2006_H1N1	GenBank	KR862409	KR862540
A/Eurasian_wigeon/Netherlands/6/2007_H1N1	GenBank	KR862420	KR862560
A/Mallard/Netherlands/16/2009_H1N1	GenBank	KR862421	KR862577
A/Mallard/Netherlands/53/2010_H1N1	GenBank	KR862422	KR862581
A/Mallard/Netherlands/6/2012_H1N1	GenBank	KR862423	KR862582
A/Mallard/Netherlands/7/2012_H1N1	GenBank	KR862424	KR862586
A/Mallard/Netherlands/11/2012_H1N1	GenBank	KR862426	KR862590
A/Mallard/Netherlands/51/2010_H1N1	GenBank	KR862427	KR862595
A/Northern_pintail/Egypt/EMC-2/2012_H1N1	GenBank	KR862370	KR862392
A/Northern_pintail/Egypt/EMC-3/2012_H1N1	GenBank	KR862371	
A/Chicken/Netherlands/11009919/2011_H1N1	GenBank	KY676319	KY676335
A/Teal/Egypt/20431-NAMRU3/2003_H1N2	GISAID	EPI372275	
A/Shoveler/Egypt/00134-NAMRU3/2005_H1N1	GISAID	EPI372331	
A/Shoveler/Egypt/14029-NAMRU3/2006_H1N1	GISAID	EPI372378	EPI372377
A/Teal/Egypt/01351-NAMRU3/2007_H1N1	GISAID	EPI372466	EPI372465
A/Teal/Egypt/00677-NAMRU3/2004_H1N1	GISAID	EPI372528	
A/Goose/Italy/6117/2004_H1N1	GISAID	EPI178520	EPI178522
A/Mallard/Germany/R2843/06_H1N1	GISAID	EPI222781	
A/Mallard/Germany-RP/R193/09_H1N1	GISAID	EPI248501	EPI248500
A/Wild_duck/Germany/WV30/06_H1N1	GISAID	EPI248514	EPI248512
A/Mallard/Germany/WV355/07_H1N1	GISAID	EPI248519	EPI248517
A/Wild_duck/Germany-NW/R04/08_H1N1	GISAID	EPI248521	
A/Anas_platyrhynchos/Belgium/09-762/2008_H1N1	GISAID	EPI257212	EPI257214
A/Wild_duck/Korea/CSM38/2004b_H1N1	GISAID	EPI296244	
A/Duck/Italy/7686-11/10_H1N1	GISAID	EPI301849	
A/Pintail/Italy/2703-25/06_H1N1	GISAID	EPI301856	
A/Mallard/Italy/378-49/06_H1N1	GISAID	EPI301857	
A/Teal/Italy/6323-5/07_H1N1	GISAID	EPI301858	
A/Mallard/Italy/432-21/08_H1N1	GISAID	EPI301859	
A/Shoveler/Italy/6965-6/07_H1N3	GISAID	EPI301860	
A/Turkey/Netherlands/07016245/2007_H1N5	GenBank	KY676320	KY676341
A/Anas_crecca/Spain/1384/2007_H1N1	GenBank	FN386464	FN386472
A/Anas_crecca/Spain/1404/2007_H1N1	GenBank	FN386465	FN386474
A/Anas_platyrhynchos/Spain/1365/2007_H1N1	GenBank	FN386463	FN386471
A/Bewicks_swan/Netherlands/1/2007_H1N5	GenBank	CY076976	CY076978
A/Chicken/Guangxi/GXc-1/2011_H1N2	GenBank	KF013910	
A/Common_goldeneye/Mongolia/1216/2010_H1N1	GenBank	KF501071	KF667692
A/Common_goldeneye/Mongolia/1238/2010_H1N1	GenBank	KF501070	KF667690
A/Common_teal/Netherlands/10/2000_H1N1	GenBank	CY060178	CY060180
A/Duck/Guangxi/GXd-1/2011_H1N2	GenBank	KF013918	
A/Duck/Guangxi/GXd-2/2012_H1N2	GenBank	KF013934	
A/Duck/Guangxi/GXd-4/2011_H1N2	GenBank	KF013926	
A/Duck/Hebei/843/2005_H1N2	GenBank	FJ536843	
A/Duck/Hokkaido/111/2009_H1N5	GenBank	AB560963	AB560964
A/Duck/Hokkaido/327/2009_H1N3	GenBank	AB560965	
A/Duck/Italy/1447/2005_H1N1	GenBank	HF563054	
A/Duck/Italy/281904/2006_H1N1	GenBank	FJ432770	
A/Duck/Italy/69238/2007_H1N1	GenBank	FJ432754	
A/Duck/Korea/372/2009_H1N1	GenBank	KJ764732	KJ764734
A/Duck/Korea/U11-1/2007_H1N2	GenBank	KJ764772	
A/Duck/Korea/U11/2007_H1N2	GenBank	HQ014832	
A/Duck/Korea/U14/2007_H1N3	GenBank	HQ014840	
A/Duck/Nanjing/19/2010_H1N3	GenBank	HQ336713	
A/Duck/Nanjing/20/2010_H1N3	GenBank	HQ336721	
A/Duck/Shimane/188/1999_H1N1	GenBank	CY091592	CY091594
A/Duck/Taiwan/DC167/2010_H1N3	GenBank	KC693623	

Viral Name	Source	Accession number	Accession number
		HA segment	NA segment
A/Duck/Thailand/CU-11869C/2011_H1N9	GenBank	KJ161957	
A/Duck/Tsukuba/718/2005_H1N1	GenBank	AB670330	AB472014
A/Duck/Zhejiang/0224-6/2011_H1N2	GenBank	JN605372	
A/Duck/Zhejiang/0607-13/2011_H1N2	GenBank	JN605373	
A/Duck/Zhejiang/0611-15/2011_H1N3	GenBank	JN716320	
A/Duck/Zhejiang/0611-17/2011_H1N3	GenBank	JN605375	
A/Duck/Zhejiang/0611-24/2011_H1N3	GenBank	JN716323	
A/Duck/Zhejiang/0611-8/2011_H1N3	GenBank	JN605374	
A/Duck/Zhejiang/473/2013_H1N4	GenBank	KF357774	
A/Duck/Zhejiang/475/2013_H1N4	GenBank	KF357775	
A/Duck/Zhejiang/476/2013_H1N4	GenBank	KF357776	
A/Duck/Zhejiang/477/2013_H1N4	GenBank	KF357777	KF357766
A/Egyptian_goose/South_Africa/AI1448/2007_H1N8	GenBank	GQ404705	
A/Environment/Korea/CSM12/2007_H1N2	GenBank	KJ764740	
A/Environment/Korea/UP0218/2008_H1N6	GenBank	KJ764780	
A/Goose/Italy/296426/2003_H1N1	GenBank	FJ432778	FJ432780
A/Mallard/Bavaria/185-8/2008_H1N1	GenBank	HQ259224	
A/Mallard/Bavaria/42/2006_H1N1	GenBank	GU046744	GU046745
A/Mallard/Finland/14740/2008_H1N1	GenBank	KF183609	
A/Mallard/Korea/KNU_YP09/2009_H1N1	GenBank	HQ897965	
A/Mallard/Netherlands/10/1999_H1N8	GenBank	CY060206	
A/Mallard/Netherlands/30/2006_H1N4	GenBank	CY076897	CY076899
A/Mallard/Republic_of_Georgia/1/2012_H1N1	GenBank	CY185593	CY185595
A/Mallard/Republic_of_Georgia/11/2011_H1N1	GenBank	KC190172	
A/Mallard/Republic_of_Georgia/4/2010_H1N1	GenBank	CY185441	
A/Mallard/Republic_of_Georgia/4/2012_H1N1	GenBank	CY185641	CY185643
A/Mallard/Sanjiang/390/2007_H1N1	GenBank	CY077076	CY077078
A/Mallard/Sweden/104803/2009_H1N1	GenBank	JX566076	JX566260
A/Mallard/Sweden/3/2002_H1N2	GenBank	CY060268	CY060270
A/Mallard/Sweden/51588/2006_mixed	GenBank	CY164649	
A/Mallard/Sweden/51880/2006_mixed	GenBank	CY164144	
A/Mallard/Sweden/52209/2006_mixed	GenBank	CY164872	
A/Mallard/Sweden/52405/2006_mixed	GenBank	CY164156	
A/Mallard/Sweden/57/2003_H1N1	GenBank	CY060329	CY060330
A/Mallard/Sweden/98/2002_H1N6	GenBank	CY060410	
A/Mallard/Sweden/99769/2009_H1N1	GenBank	JX565989	
A/Mallard/Sweden/99818/2009_H1N1	GenBank	JX565992	
A/Mallard/Sweden/99842/2009_H1N1	GenBank	JX566000	
A/Mallard/Sweden/99857/2009_H1N1	GenBank	JX566013	
A/Mallard/Sweden/99859/2009_H1N2	GenBank	JX566015	
A/Muscovy_duck/Guangxi/GXd-3/2012_H1N2	GenBank	KF013942	
A/Ostrich/South_Africa/AI2887/2011_H1N2	GenBank	JX069105	
A/Pintail/Akita/1265/2008_H1N2	GenBank	AB546162	
A/Pintail/Aomori/1130/2008_H1N3	GenBank	AB546180	
A/Pintail/Aomori/422/2007_H1N1	GenBank	AB546149	AB546151
A/Pintail/Aomori/794/2008_H1N1	GenBank	AB546153	AB546155
A/Pintail/Miyagi/1472/2008_H1N1	GenBank	AB546157	AB546159
A/Pintail/Shimane/324/98_H1N9	GenBank	AB274304	
A/Sparrow/Guangxi/GXs-1/2012_H1N2	GenBank	KF013902	
A/Swan/Hokkaido/55/1996_H1N1	GenBank	AB271115	AB271116
A/Swine/Hong_Kong/644/1993_H1N1	GenBank	CY085009	
A/Tufted_duck/Mongolia/1409/2010_H1N1	GenBank	KF501056	
A/WDK/JX/12416/2005_H1N1	GenBank	FN436023	
A/Wild_duck/Guangdong/520/2001_H1N9	GenBank	KF258943	
A/Wild_duck/Korea/CSM38/2004a_H1N1	GenBank	HQ014744	
A/Wild_duck/Korea/CW09/2005_H1N1	GenBank	HQ014776	
A/Wild_duck/Korea/ESD48/2006_H1N1	GenBank	HQ014816	
A/Wild_duck/Korea/HDR02/2005_H1N1	GenBank	HQ014768	
A/Wild_duck/Korea/PJ25/2006_H1N3	GenBank	HQ014800	
A/Wild_duck/Korea/PSC30-20/2010_H1N1	GenBank	KJ764764	
A/Wild_duck/Korea/SH13/2006_H1N1	GenBank	HQ014784	
A/Wild_duck/Korea/SH14/2006_H1N3	GenBank	HQ014792	
A/Wild_duck/Korea/SH29/2006_H1N3	GenBank	HQ014808	
A/Wild_duck/Korea/SH60/2004_H1N1	GenBank	HQ014760	
A/Wild_duck/Korea/UP122/2007_H1N1	GenBank	HQ014824	
A/Wild_duck/Korea/YS44/2004_H1N2	GenBank	HQ014752	
A/Wild_waterfowl/Dongting/C2383/2012_H1N2	GenBank	KF874481	
A/Avian/Germany-BB/R2859/2009_H6	GISAID	EPI339183	
A/Goose/Germany-BB/R1625/2008_H6	GISAID	EPI279941	
A/Ringed_teal/Germany-NRW/R641/2008_H6	GISAID	EPI279938	

Viral Name	Source	Accession number	Accession number
		HA segment	NA segment
A/Wild_bird/Germany-HH/R1501/2008_H6	GISAID	EPI279939	
A/Wild_bird/Germany-MV/R1511/2008_H6	GISAID	EPI279940	
A/Environment/California/NWRC182841-09/2006_H6N1	GISAID	EPI406091	
A/Environment/California/NWRC183200-14/2006_H6N1	GISAID	EPI406099	
A/Environment/California/NWRC183274-04/2006_H6N1	GISAID	EPI406103	
A/Green-winged_teal/Nova_Scotia/14917/2005_H6N1	GISAID	EPI327397	
A/Larus_argentatus/Belgium/02936pcs3/2010_H6N1	GISAID	EPI345428	EPI345427
A/Northern_shoveler/California/HKWF115/2007_H6N1	GISAID	EPI154816	
A/Duck/Germany-MV/R871/2010_H6N2	GISAID	EPI339182	
A/Green-winged_teal/Minnesota/Sg-00199/2007_H6N2	GISAID	EPI298290	
A/Green-winged_teal/Minnesota/Sg-00222/2007_H6N2	GISAID	EPI298322	
A/Mule_duck/Bulgaria/156/2010_H6N2	GISAID	EPI574180	
A/Mule_duck/Bulgaria/173/2009_H6N2	GISAID	EPI574206	
A/Shoveler/Egypt/13251-NAMRU3/2006_H6N2	GISAID	EPI372371	EPI372370
A/Teal/Egypt/13203-NAMRU3/2006_H6N2	GISAID	EPI372386	EPI372385
A/Turkey/Germany/R617/2007_H6N2	GISAID	EPI317612	
A/Wild_goose/Germany-BB/R2329/2008_H6N2	GISAID	EPI397608	EPI397607
A/Environment/North_Carolina/NWRC183941-06/2006_H6N5	GISAID	EPI406114	
A/Sentinel_mallard/Germany/Sum156/2007_H6N5	GISAID	EPI397610	EPI397609
A/Duck/Germany-NW/R2185/2006_H6N8	GISAID	EPI397606	
A/Environment/California/NWRC183200-06/2006_H6N8	GISAID	EPI406098	
A/Goose/Germany/R1767/2007_H6N8	GISAID	EPI416259	
A/Mallard/Germany-BY/R1353/2010_H6N8	GISAID	EPI339180	
A/Mule_duck/Bulgaria/365/2010_H6N8	GISAID	EPI574207	
A/Mute_swan/Germany/R2927/2007_H6N8	GISAID	EPI185339	
A/Pink-footed_goose/Iceland/0987/2011_H6N8	GISAID	EPI476116	
A/Mule_duck/Bulgaria/175/2009_H6	GISAID	EPI574252	
A/Mule_duck/Bulgaria/181/2010_H6	GISAID	EPI574247	
A/Mallard/Netherlands/78/2006_H6N8	GenBank	KR862436	
A/Eurasian_wigeon/Netherlands/1/2006_H6N2	GenBank	KR862437	KR862610
A/Mallard/Netherlands/40/2006_H6N8	GenBank	KR862438	
A/White-fronted_goose/Netherlands/3/2007_H6N5	GenBank	KR862439	KR862694
A/Mallard/Netherlands/5/2008_H6N8	GenBank	KR862440	
A/Bewicks_swan/Netherlands/8/2009_H6N8	GenBank	KR862441	
A/White-fronted_goose/Netherlands/11/2009_H6N1	GenBank	KR862443	KR862556
A/White-fronted_goose/Netherlands/4/2010_H6N8	GenBank	KR862447	
A/White-fronted_goose/Netherlands/9/2009_H6N2	GenBank	KR862444	KR862636
A/Barnacle_goose/Netherlands/1/2010_H6N8	GenBank	KR862445	
A/White-fronted_goose/Netherlands/1/2010_H6N1	GenBank	KR862446	KR862557
A/Mallard/Netherlands/2/2004_H6N8	GenBank	KR862428	
A/Common_teal/Netherlands/4/2005_H6N2	GenBank	KR862430	KR862604
A/White-fronted_goose/Netherlands/1/2006_H6N2	GenBank	KR862431	KR862606
A/Eurasian_wigeon/Netherlands/6/2005_H6N2	GenBank	KR862432	KR862607
A/White-fronted_goose/Netherlands/1/2005_H6N8	GenBank	KR862433	
A/White-fronted_goose/Netherlands/3/2006_H6N8	GenBank	KR862434	
A/White-fronted_goose/Netherlands/2/2008_H6N8	GenBank	KR862455	
A/White-fronted_goose/Netherlands/2/2007_H6N8	GenBank	KR862456	
A/Mallard/Netherlands/8/2008_H6N1	GenBank	KR862457	KR862563
A/Mallard/Netherlands/42/2008_H6N1	GenBank	KR862459	KR862569
A/Eurasian_wigeon/Netherlands/1/2008_H6N1	GenBank	KR862461	KR862573
A/Common_teal/Netherlands/3/2008_H6N1	GenBank	KR862462	KR862575
A/Mallard/Netherlands/31/2008_H6N1	GenBank	KR862460	KR862572
A/Mallard/Netherlands/17/2009_H6N8	GenBank	KR862463	
A/Mallard/Netherlands/15/2011_H6N8	GenBank	KR862465	
A/Mallard/Netherlands/20/2011_H6N8	GenBank	KR862466	
A/White-fronted_goose/Netherlands/6/2009_H6N8	GenBank	KR862470	
A/Mallard/Netherlands/18/2010_H6N8	GenBank	KR862471	
A/Chicken/Netherlands/10010413/2010_H6N1	GenBank	KY676321	KY676333
A/Turkey/Netherlands/06001571/2006_H6N5	GenBank	KY676322	KY676342
A/American_wigeon/California/8910/2008_H6N1	GenBank	CY094405	
A/American_wigeon/California/HKWF371/2007_H6N5	GenBank	CY032704	
A/American_wigeon/California/HKWF42/2007_H6N1	GenBank	CY033420	
A/American_wigeon/California/HKWF541/2007_H6N5	GenBank	CY033436	
A/Anas_discors/New_Mexico/A00629390/2008_H6N1	GenBank	KF636135	
A/Anas_discors/New_Mexico/A00706363/2008_H6N1	GenBank	KF569944	
A/Aquatic_bird/Korea/W69/2005_H6N5	GenBank	CY098532	CY098534
A/Avian/Japan/8K10135/2008_H6N5	GenBank	CY079243	CY079245
A/Avian/Japan/8K10195/2008_H6N8	GenBank	CY079211	
A/Barnacle_goose/Netherlands/1/2005_H6N2	GenBank	CY041386	CY041388
A/Bewicks_swan/Netherlands/1/2005_H6N2	GenBank	DQ822190	DQ822192

Viral Name	Source	Accession number	Accession number
		HA segment	NA segment
A/Bewicks_swan/Netherlands/2/2005_H6N8	GenBank	DQ822198	
A/Black-headed_gull/Netherlands/1/2005_H6N8	GenBank	CY041378	
A/Blue-winged_teal/Ohio/1386/2005_H6N2	GenBank	CY081380	
A/Blue-winged_teal/Ohio/1387/2005_H6N2	GenBank	CY021861	
A/Blue-winged_teal/Ohio/1918/2006_H6N5	GenBank	CY095616	
A/Common_gull/Norway/10_1602/2009_H6N8	GenBank	HE802707	
A/Common_teal/Netherlands/2/2005_H6N8	GenBank	CY041370	
A/Duck/Eastern_China/1/2008_H6N1	GenBank	JF965144	
A/Duck/Eastern_China/34/2005_H6N1	GenBank	JF965160	JF965335
A/Duck/Eastern_China/50/2002_H6N8	GenBank	JF965168	
A/Duck/Eastern_China/52/2002_H6N2	GenBank	JF965170	
A/Duck/Eastern_China/53/2002_H6N2	GenBank	JF965171	
A/Duck/Eastern_China/54/2002_H6N2	GenBank	JF965172	
A/Duck/Eastern_China/55/2003_H6N2	GenBank	JF965173	
A/Duck/Eastern_China/57/2003_H6N2	GenBank	JF965174	
A/Duck/Eastern_China/58/2003_H6N2	GenBank	JF965175	
A/Duck/Eastern_China/59/2003_H6N2	GenBank	JF965176	
A/Duck/Eastern_China/60/2003_H6N2	GenBank	JF965177	
A/Duck/Guangxi/1074/2006_H6N2	GenBank	CY109226	
A/Duck/Guangxi/1157/2006_H6N2	GenBank	CY109234	
A/Duck/Guangxi/1248/2006_H6N2	GenBank	CY109242	
A/Duck/Guangxi/141/2005_H6N2	GenBank	HM144510	HM144680
A/Duck/Guangxi/1455/2004_H6N5	GenBank	HM144533	HM144703
A/Duck/Guangxi/1533/2007_H6N2	GenBank	CY109618	
A/Duck/Guangxi/1598/2005_H6N2	GenBank	HM144511	HM144681
A/Duck/Guangxi/2140/2006_H6N2	GenBank	CY109250	
A/Duck/Guangxi/2736/2006_H6N8	GenBank	CY109258	
A/Duck/Guangxi/3333/2006_H6N1	GenBank	CY109266	CY109268
A/Duck/Guangxi/3459/2005_H6N2	GenBank	HM144512	
A/Duck/Guangxi/585/2005_H6N5	GenBank	HM144536	HM144706
A/Duck/Guizhou/1084/2006_H6N2	GenBank	CY109290	CY109292
A/Duck/Guizhou/1426/2006_H6N1	GenBank	CY109298	CY109300
A/Duck/Guizhou/2492/2007_H6N1	GenBank	CY109658	CY109660
A/Duck/Guizhou/879/2006_H6N1	GenBank	CY109921	CY109922
A/Duck/Guizhou/888/2006_H6N5	GenBank	CY109282	CY109284
A/Duck/Hokkaido/120/2001_H6N2	GenBank	AB286875	
A/Duck/Hokkaido/228/2003_H6N8	GenBank	AB294219	
A/Duck/Hokkaido/W2/2004_H6N8	GenBank	AB450441	
A/Duck/Hunan/1469/2002_H6N8	GenBank	HM144552	
A/Duck/Hunan/177/2005_H6N1	GenBank	HM144392	HM144562
A/Duck/Hunan/2110/2006_H6N2	GenBank	CY109314	
A/Duck/Hunan/5613/2003_H6N5	GenBank	HM144532	HM144702
A/Duck/Hunan/573/2002_H6N2	GenBank	HM144461	
A/Duck/Hunan/748/2005_H6N5	GenBank	HM144537	HM144707
A/Duck/Shantou/7904/2006_H6N2	GenBank	CY109426	
A/Duck/Spain/539/2006_H6N8	GenBank	AM706353	
A/Duck/Spain/543/2006_H6N8	GenBank	AM706355	
A/Duck/Suphanburi/AI157/2005_H6N1	GenBank	JQ711490	JQ711488
A/Duck/Taiwan/WB459/04_H6N5	GenBank	DQ376651	DQ376723
A/Duck/Tsukuba/561/2006_H6N1	GenBank	AB669136	
A/Duck/Yunnan/3136/2006_H6N2	GenBank	CY109346	CY109348
A/Dunlin/Barrow/65/2005_H6N1	GenBank	EF655836	
A/Environment/California/NWRC184193-25/2006_H6	GenBank	CY122504	
A/Environment/Colorado/NWRC183938-30/2006_H6	GenBank	CY122496	
A/Environment/Delaware/NWRC186237-18/2007_H6	GenBank	CY122532	
A/Environment/Illinois/NWRC183983-24/2006_H6N2	GenBank	CY122500	
A/Environment/Louisiana/NWRC186275-18/2007_H6	GenBank	CY122535	
A/Environment/New_York/23857/2005_H6N8	GenBank	CY095204	
A/Environment/New_York/32072-2/2006_H6N8	GenBank	CY095196	
A/Environment/New_York/NWRC183209-12/2006_H6N1	GenBank	CY122484	
A/Eurasian_wigeon/Netherlands/4/2000_H6N2	GenBank	KF695262	
A/Eurasian_wigeon/Sweden/1/2004_H6N2	GenBank	CY041362	
A/Glaucous_gull/Alaska/44198-119/2006_H6N1	GenBank	HM060001	
A/Greylag_goose/Iceland/0911/2011_H6N8	GenBank	CY149468	
A/Greylag_goose/Iceland/0921/2011_H6N8	GenBank	CY149476	
A/Greylag_goose/Iceland/0948/2011_H6N5	GenBank	CY149500	CY149502
A/Greylag_goose/Iceland/0961/2011_H6N8	GenBank	CY149516	
A/Greylag_goose/Iceland/0976/2011_H6N8	GenBank	CY149524	
A/Greylag_goose/Iceland/0980/2011_H6N8	GenBank	CY149532	
A/Greylag_goose/Iceland/1459/2011_H6N5	GenBank	CY149444	CY149446

Viral Name	Source	Accession number	Accession number
		HA segment	NA segment
A/Greylag_goose/Iceland/1474/2011_H6N8	GenBank	CY149452	
A/Greylag_goose/Iceland/1482/2011_H6N8	GenBank	CY149460	
A/Greylag_goose/Netherlands/4/1999_H6N1	GenBank	CY060198	CY060200
A/Gull/Moscow/3100/2006_H6N2	GenBank	EU152237	EU152239
A/Mallard_duck/Minnesota/Sg-00107/2007_H6N2	GenBank	CY034673	
A/Mallard/California/8212/2008_H6N1	GenBank	CY094165	
A/Mallard/California/8293/2008_H6N1	GenBank	CY094173	
A/Mallard/Czech_Republic/14924-1/2007_H6N5	GenBank	JF789626	JF789628
A/Mallard/Czech_Republic/15902-17K/2009_H6N2	GenBank	HQ244430	
A/Mallard/Czech_Republic/15962-1T/2010_H6N9	GenBank	JQ737237	
A/Mallard/Finland/13792/2007_H6N8	GenBank	KF183620	
A/Mallard/Hei_Longjiang/131/2006_H6N2	GenBank	EF634340	
A/Mallard/Jiangxi/10071/2005_H6N1	GenBank	HM144393	HM144563
A/Mallard/Jiangxi/10668/2005_H6N1	GenBank	HM144394	HM144564
A/Mallard/Jiangxi/12147/2005_H6N2	GenBank	HM144516	
A/Mallard/Jiangxi/13228/2005_H6N1	GenBank	HM144395	HM144565
A/Mallard/Jiangxi/227/2003_H6N1	GenBank	HM144388	HM144558
A/Mallard/Jiangxi/7787/2003_H6N1	GenBank	HM144390	HM144560
A/Mallard/Jiangxi/8264/2004_H6N2	GenBank	HM144489	HM144659
A/Mallard/Jiangxi/8341/2004_H6N5	GenBank	HM144534	HM144704
A/Mallard/Jiangxi/8346/2004_H6N5	GenBank	HM144535	HM144705
A/Mallard/Maryland/060S196/2006_H6N2	GenBank	CY190307	
A/Mallard/Maryland/504/2006_mixed	GenBank	CY081404	
A/Mallard/Minnesota/Sg-00104/2007_H6N1	GenBank	CY078034	
A/Mallard/Minnesota/Sg-00105/2007_H6N1	GenBank	CY078042	
A/Mallard/Minnesota/Sg-00106/2007_H6N2	GenBank	CY078273	
A/Mallard/Minnesota/Sg-00167/2007_H6N1	GenBank	CY078114	
A/Mallard/Minnesota/Sg-00214/2007_H6N1	GenBank	CY035387	
A/Mallard/Minnesota/Sg-00223/2007_H6N1	GenBank	CY078249	
A/Mallard/Netherlands/11/2007_H6N5	GenBank	CY041402	CY041404
A/Mallard/Netherlands/16/99_H6N5	GenBank	AY684892	
A/Mallard/Netherlands/71/2006_H6N2	GenBank	CY041394	CY041396
A/Mallard/Ontario/15915/2005_H6N5	GenBank	CY095323	
A/Mallard/Republic_of_Georgia/13/2011_H6N2	GenBank	CY185577	CY185579
A/Mallard/SanJiang/113/2006_H6N2	GenBank	EU094473	EU094475
A/Mallard/SanJiang/151/2006_H6N2	GenBank	EF592495	
A/Mallard/Sweden/3463/2003_H6N2	GenBank	CY186267	CY186269
A/Mallard/Sweden/51984/2006_mixed	GenBank	CY164804	CY164807
A/Mallard/Sweden/52/2003_H6N2	GenBank	CY060316	CY060318
A/Mallard/Sweden/52593/2006_mixed	GenBank	CY164993	CY164996
A/Mallard/Sweden/54/2003_H6N1	GenBank	KF695223	KF695225
A/Mallard/Sweden/99817/2009_H6N2	GenBank	JX565991	JX566175
A/Mallard/Sweden/99847/2009_H6N2	GenBank	JX566005	
A/Mallard/Sweden/99850/2009_H6N2	GenBank	JX566006	
A/Mallard/Sweden/99854/2009_H6N2	GenBank	JX566010	
A/Mallard/Sweden/99934/2009_H6N2	GenBank	JX566024	
A/Mallard/Sweden/99966/2009_H6N2	GenBank	JX566028	
A/Mallard/Sweden/99983/2009_H6N2	GenBank	JX566029	
A/Mallard/Sweden/99985/2009_H6N2	GenBank	JX566030	
A/Mallard/Sweden/99999/2009_H6N2	GenBank	JX566032	JX566216
A/Mallard/Wisconsin/1534/2009_H6N8	GenBank	CY097277	
A/Muscovy_duck/France/09010/2009_H6N1	GenBank	JN860172	JN860174
A/Northern_pintail/Alaska/44202-143/2006_H6N1	GenBank	EU557517	
A/Northern_pintail/Alaska/44203-078/2006_H6N8	GenBank	EU557519	
A/Northern_pintail/Alaska/44204-158/2006_H6N4	GenBank	EU557520	
A/Northern_shoveler/California/9187/2008_H6N2	GenBank	CY094309	
A/Northern_shoveler/California/K138/2005_H6N2	GenBank	CY045343	
A/Pintail/Alberta/87/1993_H6N8	GenBank	CY127024	
A/Ring-necked_duck/California/K90/2005_H6N8	GenBank	CY043808	
A/Shorebird/Delaware_Bay/13/2004_H6N8	GenBank	CY127726	
A/Shorebird/Delaware_Bay/604/2008_H6N2	GenBank	CY127831	
A/Shorebird/Delaware_Bay/65/2004_H6N8	GenBank	CY127734	
A/Shorebird/Delaware_Bay/707/2009_H6N2	GenBank	CY127895	
A/Teal/Norway/10_476/2005_H6N2	GenBank	FM179757	
A/Turkey/France/09010-1/2009_H6N1	GenBank	JN860180	
A/Turkey/France/10-040/2010_H6N1	GenBank	JQ990779	JQ990781
A/Whitefronted_goose/Netherlands/1/1999_H6N1	GenBank	CY060431	
A/Whitefronted_goose/Netherlands/2/1999_H6N2	GenBank	CY060439	
A/Wild_duck/Jiangxi/8462/2006_H6N1	GenBank	CY109338	CY109340
A/Chicken/Netherlands/11004875/2011_H7N1	GenBank	KY676323	KY676334

Viral Name	Source	Accession number	Accession number
		HA segment	NA segment
A/Duck/Turkey/55/Cetinkaya/49/2006_H7N1	GISAID	EPI346007	
A/Guinea_fowl/Italy/407/2008_H7N1	GISAID	EPI210104	
A/Mallard/Denmark/58-62-KLSV-119/09_H7N1	GISAID	EPI492308	
A/Mallard/Italy/3397-65/2008_H7N1	GISAID	EPI167297	
A/Mallard/Italy/6103-5/2007_H7N1	GISAID	EPI167296	
A/Mallard/Italy/731/09_H7N1	GISAID	EPI492522	
A/Mallard/Italy/794-18/2008_H7N1	GISAID	EPI167299	
A/Shoveler/Egypt/00597-NAMRU3/2004_H7N1	GISAID	EPI372283	EPI372282
A/Shoveler/Egypt/14879-NAMRU3/2006_H7N1	GISAID	EPI372363	EPI372362
A/Tadorna_tadorna/Belgium/3441-P3/2009_H7N1	GISAID	EPI360900	EPI360901
A/Teal/Italy/794-3/2008_H7N1	GISAID	EPI167298	
A/Chicken/Italy/2240/2003_H7N3	GISAID	EPI154960	
A/Chicken/Italy/2837-54/2007_H7N3	GISAID	EPI154980	
A/Chicken/Italy/2837-58/2007_H7N3	GISAID	EPI154981	
A/Chicken/Italy/8093/2002_H7N3	GISAID	EPI154966	
A/Guinea_fowl/Italy/1613/2003_H7N3	GISAID	EPI154959	
A/Mallard/Italy/1336/07_H7N3	GISAID	EPI167295	
A/Mallard/Italy/6103-12/2007_H7N3	GISAID	EPI154982	
A/Mallard/Italy/6104-14/2007_H7N3	GISAID	EPI167300	
A/Shoveler/Egypt/00017-NAMRU3/2007_H7N3	GISAID	EPI372450	
A/Shoveler/Egypt/00241-NAMRU3/2007_H7N3	GISAID	EPI372418	
A/Turkey/Italy/2963/2003_H7N3	GISAID	EPI243279	
A/Turkey/Italy/8307/2002_H7N3	GISAID	EPI154967	
A/Swan/Germany/R736/06_H7N4	GISAID	EPI492517	
A/Teal/Italy/11VIR-792/11_H7N6	GISAID	EPI492520	
A/Branta_canadensis/Belgium/13000-9-2/2010_H7N7	GISAID	EPI360902	
A/Chicken/Germany-NI/R874/2010_H7N7	GISAID	EPI302178	
A/Chicken/Germany/R1362/11_H7N7	GISAID	EPI492511	
A/Chicken/Netherlands/11008327/2011_H7N7	GenBank	KY676325	KY676346
A/Chicken/Netherlands/11011326/2011_H7N7	GenBank	KY676326	KY676347
A/Chicken/Netherlands/12014794/2012_H7N7	GISAID	EPI390921	EPI390922
A/Egyptian_goose/Egypt/05588-NAMRU3/2006_H7N7	GISAID	EPI372394	EPI372393
A/Mallard/Denmark/303878-1S/13_H7N7	GISAID	EPI492307	
A/Mallard/Italy/11VIR-540/11_H7N7	GISAID	EPI492519	
A/Mallard/Poland/01/08_H7N7	GISAID	EPI169422	EPI169423
A/Mallard/Poland/41/09_H7N7	GISAID	EPI211188	
A/Mallard/Poland/446/09_H7N7	GISAID	EPI254381	EPI254382
A/Pochard/Germany/R916/06_H7N7	GISAID	EPI492516	
A/Shoveler/Egypt/09864-NAMRU3/2004_H7N7	GISAID	EPI372323	EPI372322
A/Swan/Germany/R57/06_H7N7	GISAID	EPI492518	
A/Teal/Egypt/00835-NAMRU3/2004_H7N7	GISAID	EPI372307	
A/Turkey/Germany-NW/R655/2009_H7N7	GISAID	EPI356351	
A/Shoveler/Egypt/00215-NAMRU3/2007_H7N9	GISAID	EPI372410	
A/Mallard/Netherlands/82/2008_H7N7	GenBank	KR862473	KR862709
A/Bewicks_swan/Netherlands/7/2008_H7N1	GenBank	KR862474	KR862554
A/Mallard/Lithuania/EMC-2/2010_H7N2	GenBank	KR862374	
A/Mallard/Netherlands/60/2008_H7N1	GenBank	KR862477	KR862566
A/Mallard/Netherlands/61/2008_H7N1	GenBank		KR862567
A/Mallard/Netherlands/2/2009_H7N7	GenBank	KR862479	KR862717
A/Mallard/Netherlands/4/2009_H7N7	GenBank	KR862481	KR862719
A/Mallard/Netherlands/6/2009_H7N7	GenBank	KR862482	KR862720
A/Eurasian_wigeon/Netherlands/2/2008_H7N4	GenBank	KR862485	KR862692
A/Bean_goose/Netherlands/1/2009_H7N1	GenBank	KR862487	KR862576
A/Mallard/Netherlands/2/2010_H7N3	GenBank	KR862488	
A/Mallard/Netherlands/3/2010_H7N3	GenBank	KR862489	
A/Mallard/Netherlands/1/2011_H7N7	GenBank	KR862490	KR862726
A/Mallard/Netherlands/43/2011_H7N1	GenBank	KR862491	
A/Northern_shoveler/Egypt/EMC-1/2012_H7N1	GenBank	KR862376	KR862391
A/Mallard/Netherlands/5/2010_H7N3	GenBank	KR862500	
A/Turkey/Netherlands/11011530/2011_H7N7	GenBank	KY676327	KY676348
A/Chicken/Netherlands/10007882/2010_H7N4	GenBank	KY676324	KY676338
A/Anas_crecca/Spain/1460/2008_H7N9	GenBank	HQ244407	
A/Anas_platyrhynchos/Spain/1877/2009_H7N2	GenBank	KP636486	
A/Chicken/England/1158-11406/2008_H7N7	GenBank	FJ476173	
A/Chicken/England/4054/2006_H7N3	GenBank	EF467826	
A/Chicken/England/4266/2006_H7N3	GenBank	EF467825	
A/Chicken/Italy/1067/99_H7N1	GenBank	AJ584647	
A/Chicken/Italy/1082/1999_H7N1	GenBank	CY022677	CY022679
A/Chicken/Italy/1279/1999_H7N1	GenBank	CY099597	
A/Chicken/Italy/12rs206-19/1999_H7N1	GenBank	KF493039	

Viral Name	Source	Accession number	Accession number
		HA segment	NA segment
A/Chicken/Italy/12rs206-3/1999_H7N1	GenBank	KF492993	
A/Chicken/Italy/12rs206-4/1999_H7N1	GenBank	KF493027	
A/Chicken/Italy/12rs206-5/1999_H7N1	GenBank	KF493029	
A/Chicken/Italy/1391/1999_H7N1	GenBank	CY095514	
A/Chicken/Italy/13VIR4527-11/2013_H7N7	GISAID	EPI677999	EPI677998
A/Chicken/Italy/270638/02_H7N3	GenBank	EU158111	
A/Chicken/Italy/4616/2003_H7N3	GenBank	CY095522	
A/Chicken/Italy/682/2003_H7N3	GenBank	CY034750	
A/Chicken/Netherlands/06022003/2006_H7N7	GenBank	HE802065	KY676343
A/Chicken/Wales/1306/2007_H7N2	GenBank	EF675618	
A/Duck/Denmark/53-147-8/2008_H7N1	GenBank	GQ401157	GQ401158
A/Duck/Italy/4609/2003_H7N2	GenBank	CY031028	
A/Duck/Italy/4692-9/2004_H7	GenBank	CY095570	
A/Duck/Mongolia/47/2001_H7N1	GenBank	AB268557	AB302788
A/Duck/Mongolia/720/2007_H7N6	GenBank	AB450448	
A/Duck/Yunnan/87/2007_H7N6	GenBank	KF258991	
A/Garganey/Crimea/2027/2008_H7N8	GenBank	GU228596	
A/Goose/Czech_Republic/1848-K9/2009_H7N9	GenBank	GU060482	
A/Guinea_fowl/Italy/266184/02_H7N3	GenBank	EU158110	
A/Italy/3/2013_H7N7	GenBank	KF918337	KF918339
A/Mallard/Italy/199/01_H7N3	GenBank	EU158109	
A/Mallard/Italy/250/02_H7N1	GenBank	EU158105	
A/Mallard/Italy/299/05_H7N7	GenBank	EU158104	
A/Mallard/Italy/43/01_H7N3	GenBank	AY586410	
A/Mallard/Netherlands/12/2000_H7N3	GenBank	KF695239	
A/Mallard/Netherlands/22/2007_H7N1	GenBank	CY043840	CY043842
A/Mallard/Netherlands/29/2006_H7N2	GenBank	CY043832	CY043834
A/Mallard/Netherlands/33/2006_H7N8	GenBank	CY041410	
A/Mallard/Netherlands/9/2005_H7N7	GenBank	CY077008	CY077010
A/Mallard/Republic_of_Georgia/2/2010_H7N7	GenBank	CY185425	CY185427
A/Mallard/Republic_of_Georgia/3/2010_H7N3	GenBank	CY185433	
A/Mallard/Sweden/100993/2008_H7N7	GenBank	FJ803198	FJ803196
A/Mallard/Sweden/1985/2003_H7N7	GenBank	CY183336	CY183338
A/Mallard/Sweden/2051/2003_H7N7	GenBank	CY184568	
A/Mallard/Sweden/3269/2003_H7N7	GenBank	CY184576	CY184578
A/Mallard/Sweden/5994/2005_H7N7	GenBank	CY183409	CY183411
A/Mallard/Sweden/S90597/2005_H7N7	GenBank	FJ803182	FJ803175
A/Mute_swan/Hungary/5973/2007_H7N7	GenBank	GQ240813	GQ240815
A/Quail/Italy/3347/2004_H7N3	GenBank	CY020613	
A/Quail/Italy/4610/2003_H7N2	GenBank	CY021509	
A/Shoveler/Italy/2698-27/2006_H7N7	GenBank	CY095600	
A/Shoveler/Italy/2698-3/2006_H7N7	GenBank	CY095592	
A/Swan/Czech_Republic/5416/2011_H7N7	GenBank	JN966905	JN966907
A/Swan/Slovenia/53/2009_H7N7	GenBank	HQ283357	HQ283359
A/Teal/Finland/9201/2010_H7N3	GenBank	KF183621	
A/Tufted_duck/PT/13771/2006_H7N3	GenBank	HM849003	
A/Turkey/Germany/R11/2001_H7N7	GenBank	CY107856	
A/Turkey/Italy/1010/2003_H7N3	GenBank	CY021365	
A/Turkey/Italy/1067/1999_H7N1	GenBank	CY095506	
A/Turkey/Italy/1083/1999_H7N1	GenBank	KF493003	
A/Turkey/Italy/1086/1999_H7N1	GenBank	KF493012	
A/Turkey/Italy/121964/03_H7N3	GenBank	EU158106	
A/Turkey/Italy/1265/1999_H7N1	GenBank	CY025189	
A/Turkey/Italy/12rs206-1/1999_H7N1	GenBank	KF492991	
A/Turkey/Italy/12rs206-11/1999_H7N1	GenBank	KF493032	
A/Turkey/Italy/12rs206-13/1999_H7N1	GenBank	KF493033	
A/Turkey/Italy/12rs206-14/1999_H7N1	GenBank	KF493037	
A/Turkey/Italy/12rs206-17/1999_H7N1	GenBank	KF493038	
A/Turkey/Italy/12rs206-18/1999_H7N1	GenBank	KF492992	
A/Turkey/Italy/12rs206-20/1999_H7N1	GenBank	KF493040	
A/Turkey/Italy/12rs206-6/1999_H7N1	GenBank	KF493031	
A/Turkey/Italy/1555/1999_H7N1	GenBank	KF493042	
A/Turkey/Italy/1744/1999_H7N1	GenBank	KF493043	
A/Turkey/Italy/2043/2003_H7N3	GenBank	CY022613	
A/Turkey/Italy/214845/2002_H7N3	GenBank	AJ627491	
A/Turkey/Italy/2379/2000_H7N1	GenBank	GU053007	
A/Turkey/Italy/251/2003_H7N3	GenBank	CY020589	
A/Turkey/Italy/2684/2003_H7N3	GenBank	CY095554	
A/Turkey/Italy/2715/1999_H7N1	GenBank	CY025173	
A/Turkey/Italy/2716/1999_H7N1	GenBank	KF493058	

Viral Name	Source	Accession number	Accession number
		HA segment	NA segment
A/Turkey/Italy/2732/1999_H7N1	GenBank	GU052969	
A/Turkey/Italy/2962/2003_H7N3	GenBank	JX515663	
A/Turkey/Italy/2987/2003_H7N3	GenBank	CY021493	
A/Turkey/Italy/3283/1999_H7N1	GenBank	GU052976	
A/Turkey/Italy/3337/2004_H7N3	GenBank	CY021501	
A/Turkey/Italy/3620/2003_H7N3	GenBank	CY021357	
A/Turkey/Italy/3807/2004_H7N3	GenBank	CY020597	
A/Turkey/Italy/3829/2004_H7N3	GenBank	CY028676	
A/Turkey/Italy/3889/99_H7N1	GenBank	AJ493466	
A/Turkey/Italy/4130/2004_H7N3	GenBank	CY029913	
A/Turkey/Italy/4169/1999_H7N1	GenBank	CY006037	
A/Turkey/Italy/4372/2004_H7N3	GenBank	CY095538	
A/Turkey/Italy/4479/2004_H7N3	GenBank	CY020581	
A/Turkey/Italy/4603/99_H7N1	GenBank	AJ493471	
A/Turkey/Italy/4608/2003_H7N3	GenBank	CY021485	
A/Turkey/Italy/68819/03_H7N3	GenBank	EU158100	
A/Turkey/Italy/8000/2002_H7N3	GenBank	CY024738	
A/Turkey/Italy/8458/2002_H7N3	GenBank	CY095562	
A/Turkey/Italy/8534/2002_H7N3	GenBank	CY095530	
A/Turkey/Italy/8912/2002_H7N3	GenBank	CY020605	
A/Turkey/Italy/9739/2002_H7N3	GenBank	CY031611	
A/Turkey/Italy/977/1999_H7N1	GenBank	GU052999	
A/Turkey/Italy12rs206-2/1999_H7N1	GenBank	KF492994	
A/Wild_duck/Mongolia/1-241/2008_H7N9	GenBank	JN029686	
A/Yellow-legged_gull/Republic_of_Georgia/1/2012_mixed	GenBank	CY185372	
A/Northern_shoveler/Mississippi/110S5900/2011_H8N1	GISAID	EPI512596	
A/American_black_duck/Nova_Scotia/02043/2007_H8N4	GISAID	EPI404484	
A/American_green-winged_teal/California/44287-373/2007_H8N4	GISAID	EPI292438	
A/American_green-winged_teal/Interior_Alaska/9BM5045R0/2009_H8N4	GISAID	EPI433069	EPI433100
A/Chicken/Netherlands/10009401/2010_H8N4	GenBank	KY676328	KY676340
A/Environment/Pennsylvania/NWRC182092-24/2006_H8N4	GISAID	EPI406002	
A/Garganey/Ukraine/05835-NAMRU3/2006_H8N4	GISAID	EPI372512	EPI372511
A/Mallard/Interior_Alaska/8BM1966R1/2008_H8N4	GISAID	EPI299970	
A/Mallard/Interior_Alaska/8MPO547/2008_H8N4	GISAID	EPI299411	
A/Mallard/Interior_Alaska/9BM10537R0/2009_H8N4	GISAID	EPI436880	
A/Mallard/Interior_Alaska/9BM8389R0/2009_H8N4	GISAID	EPI452280	EPI452282
A/Mallard/Minnesota/Sg-00675/2008_H8N4	GISAID	EPI188649	
A/Northern_pintail/Interior_Alaska/8BM2011R1/2008_H8N4	GISAID	EPI299978	
A/Northern_pintail/Interior_Alaska/8BM2046R1/2008_H8N4	GISAID	EPI299419	
A/Northern_pintail/Interior_Alaska/8BM2621R1/2008_H8N4	GISAID	EPI299686	
A/Northern_pintail/Interior_Alaska/8BM2987/2008_H8N4	GISAID	EPI299122	
A/Northern_pintail/Interior_Alaska/8BM3088/2008_H8N4	GISAID	EPI299146	
A/Northern_pintail/Interior_Alaska/8BM3091/2008_H8N4	GISAID	EPI299694	
A/Northern_pintail/Interior_Alaska/8BM3137/2008_H8N4	GISAID	EPI299702	
A/Northern_pintail/Interior_Alaska/8MPO689/2008_H8N4	GISAID	EPI299090	
A/Northern_pintail/Interior_Alaska/9BM11556R0/2009_H8N4	GISAID	EPI452128	
A/Northern_pintail/Interior_Alaska/9BM11643R0/2009_H8N4	GISAID	EPI452142	EPI452144
A/Northern_pintail/Interior_Alaska/9BM6510R0/2009_H8N4	GISAID	EPI452001	EPI452003
A/Northern_pintail/Interior_Alaska/9BM7152R2/2009_H8N4	GISAID	EPI452015	EPI452017
A/Northern_pintail/Interior_Alaska/9BM7240R0/2009_H8N4	GISAID	EPI452050	
A/Northern_pintail/Interior_Alaska/9BM7882R0/2009_H8N4	GISAID	EPI452219	
A/Northern_pintail/Interior_Alaska/9BM8109R0/2009_H8N4	GISAID	EPI436940	
A/Northern_pintail/Interior_Alaska/9BM8237R0/2009_H8N4	GISAID	EPI452226	
A/Northern_pintail/Interior_Alaska/9BM8967R0/2009_H8N4	GISAID	EPI436976	
A/Northern_shoveler/California/AKS273/2007_H8N4	GISAID	EPI178742	
A/Northern_shoveler/California/HKWF1203/2007_H8N4	GISAID	EPI222411	
A/Northern_shoveler/California/HKWF1204/2007_H8N4	GISAID	EPI178782	
A/Northern_shoveler/California/HKWF1325/2007_H8N4	GISAID	EPI160322	
A/Northern_shoveler/Interior_Alaska/9BM2925R0/2009_H8N4	GISAID	EPI432837	
A/Northern_shoveler/Minnesota/Sg-00648/2008_H8N4	GISAID	EPI449391	
A/Mallard/Netherlands/14/2006_H8N4	GenBank	KR862502	
A/Chicken/Netherlands/11004004/2011_H8N4	GenBank	KY676329	KY676339
A/American_black_duck/Illinois/4119/2009_H8N4	GenBank	CY097534	
A/Anas_crecca/Spain/1459/2008_H8N4	GenBank	FN386466	FN386475
A/Common_teal/Netherlands/1/2005_H8N4	GenBank	CY041258	CY041260
A/Duck/Alaska/702/1991_H8N2	GenBank	CY015173	
A/Duck/Hokkaido/207/2014_H8N2	GenBank	LC029898	
A/Duck/Hokkaido/95/1981_H8N4	GenBank	AB450454	AB450455
A/Duck/LA/B174/1986_H8N4	GenBank	GU186458	
A/Duck/Thailand/SP-355/2007_H8N4	GenBank	FJ802406	FJ802407



Viral Name	Source	Accession number	Accession number
		HA segment	NA segment
A/Duck/Tsukuba/255/2005_H8N5	GenBank	AB669137	AB472028
A/Duck/Yangzhou/Q2/2005_H8N4	GenBank	EF061122	EF061126
A/Mallard_duck/Alberta/7/1987_H8N4	GenBank	CY014583	
A/Mallard/Alaska/708/2005_H8N4	GenBank	CY017749	CY017751
A/Mallard/ALB/194/1992_H8N4	GenBank	CY005972	
A/Mallard/Alberta/283/1977_H8N4	GenBank	CY005970	AY207531
A/Mallard/Interior_Alaska/8BM3061/2008_H8N4	GenBank	CY079099	
A/Mallard/Interior_Alaska/8BM3327/2008_H8N4	GenBank	CY080025	
A/Mallard/Interior_Alaska/8BM3584R1/2008_H8N4	GenBank	CY079677	
A/Mallard/Interior_Alaska/8MP0457R1/2008_H8N4	GenBank	CY079963	
A/Mallard/Minnesota/AI09-1833/2009_H8N4	GenBank	CY140663	CY140665
A/Mallard/Minnesota/AI09-1854/2009_H8N4	GenBank	CY140671	
A/Mallard/Minnesota/AI09-1867/2009_H8N4	GenBank	CY140679	
A/Mallard/Minnesota/Sg-00062/2007_H8N4	GenBank	CY064121	
A/Mallard/Minnesota/Sg-00570/2008_H8N4	GenBank	CY139985	
A/Mallard/Minnesota/Sg-00571/2008_mixed	GenBank	CY139994	
A/Mallard/Minnesota/Sg-00678/2008_H8N4	GenBank	CY042859	
A/Mallard/Minnesota/SG-00680/2008_mixed	GenBank	CY140079	
A/Mallard/Minnesota/SG-00684/2008_H8N4	GenBank	CY140088	
A/Mallard/Minnesota/Sg-00686/2008_H8N4	GenBank	CY140096	
A/Mallard/Minnesota/Sg-00688/2008_H8N4	GenBank	CY042898	
A/Mallard/Minnesota/Sg-00690/2008_H8N4	GenBank	CY042906	
A/Mallard/Minnesota/Sg-00701/2008_H8N4	GenBank	CY140342	
A/Mallard/Netherlands/1/2006_H8N4	GenBank	CY043848	CY043850
A/Mallard/Sweden/101165/2009_H8N4	GenBank	CY183572	CY183574
A/Mallard/Sweden/24/2002_H8N4	GenBank	CY060249	CY064796
A/Mallard/Sweden/2834/2003_H8N4	GenBank	CY183368	CY183370
A/Mallard/Sweden/2990/2003_H8N4	GenBank	CY183441	CY183443
A/Mallard/Sweden/3240/2003_H8N4	GenBank	CY183449	CY183451
A/Mallard/Sweden/3244/2003_H8N4	GenBank	CY183457	CY183459
A/Mallard/Sweden/4486/2004_H8N4	GenBank	CY183465	CY183467
A/Mallard/Sweden/4737/2004_mixed	GenBank	CY183474	
A/Mallard/Sweden/50055/2006_H8N4	GenBank	CY183515	CY183517
A/Mallard/Sweden/51156/2006_H8N4	GenBank	CY183523	CY183525
A/Mallard/Sweden/51671/2006_H8N4	GenBank	CY184600	CY184602
A/Mallard/Sweden/5389/2005_H8N4	GenBank	CY183483	CY183485
A/Mallard/Sweden/541/2002_H8N4	GenBank	CY184592	
A/Mallard/Sweden/58256/2006_H8N4	GenBank	CY183531	CY183533
A/Mallard/Sweden/59475/2007_H8N4	GenBank	CY183539	CY183541
A/Mallard/Sweden/60041/2007_H8N2	GenBank	CY183425	
A/Mallard/Sweden/68537/2007_mixed	GenBank	CY183555	
A/Mallard/Sweden/7242/2004_H8N4	GenBank	CY183491	CY183493
A/Mallard/Sweden/7996/2005_H8N4	GenBank	CY183499	CY183501
A/Mallard/Sweden/8005/2005_H8N4	GenBank	CY183507	CY183509
A/Mallard/Sweden/99377/2009_H8N4	GenBank	CY183564	CY183566
A/Mallard/Wisconsin/110S4489/2011_H8N4	GenBank	CY166162	
A/Mallard/Wisconsin/2080/1984_H8N4	GenBank	CY178863	
A/Mallard/Wisconsin/2086/1984_H8N4	GenBank	CY178214	CY178216
A/Mallard/Wisconsin/426/1979_H8N4	GenBank	CY180660	CY180662
A/Northern_pintail/Alaska/44204-073/2006_H8N4	GenBank	EU557521	
A/Northern_pintail/Alaska/44340-503/2007_H8N4	GenBank	GU168306	
A/Northern_pintail/Alaska/44420-106/2008_H8	GenBank	GU168307	
A/Northern_pintail/Alaska/44500-066/2009_H8N4	GenBank	JX080768	
A/Northern_shoveler/Netherlands/1/2006_H8N4	GenBank	CY077024	CY077026
A/Pintail_duck/Alberta/114/1979_H8N4	GenBank	CY005971	
A/Pintail/Alaska/246/2005_mixed	GenBank	CY096764	CY096768
A/Pintail/Barrow/140/2005_H8N4	GenBank	EF655844	
A/Pintail/Barrow/38/2005_H8N4	GenBank	EF655828	
A/Ruddy_shelduck/Mongolia/592/2010_H8N6	GenBank	KF501097	
A/Ruddy_shelduck/Mongolia/593/2010_H8N4	GenBank	KF501064	
A/Teal/Chany/444/2009_H8N8	GenBank	CY098524	
A/Turkey/Colorado/235497/2003_H8N4	GenBank	GU051909	
A/Turkey/Ontario/6118/1968_H8N4	GenBank	CY130046	EU429793
A/Teal/Northern_Ireland/14567-10-5257/2007_H9N1	GISAID	EPI383878	
A/Common_coot/Poland/88/13_H9N2	GISAID	EPI505111	
A/Mallard/Iran/C364/2007_H9N2	GISAID	EPI302559	
A/Turkey/England/13437/2013_H9N2	GISAID	EPI585514	
A/Turkey/England/13538/2013_H9N2	GISAID	EPI585519	
A/Turkey/Poland/14/13_H9N2	GISAID	EPI500817	
A/Turkey/Poland/20/13_H9N2	GISAID	EPI505105	

Viral Name	Source	Accession number	Accession number
		HA segment	NA segment
A/Ruddy_turnstone/New_Jersey/AI03-128/2003_H9N7	GISAID	EPI454831	
A/Ruddy_turnstone/New_Jersey/AI03-444/2003_H9N9	GISAID	EPI454810	
A/Mallard/Netherlands/1/2005_H9N2	GenBank	KR862503	
A/Gadwall/Netherlands/2/2006_H9N2	GenBank	KR862504	
A/Chicken/Netherlands/10020245/2010_H9N2	GenBank	KY676330	KY676337
A/Baikal_teal/Xianghai/421/2011_H9N2	GenBank	KC162234	
A/Bewicks_swan/Netherlands/5/2007_H9N2	GenBank	CY041274	
A/Chicken/Korea/25232-96006/1996_H9N2	GenBank	KF188387	KF188388
A/Chicken/Korea/25232-MS96CE6/1996_H9N2	GenBank	KF188345	
A/Chicken/Korea/AI-96004/1996_H9N2	GenBank	GU053194	
A/Chicken/Korea/GH2/2007_H9N2	GenBank	HQ871933	HQ871935
A/Chicken/Korea/MS96-CE6/1996_H9N2	GenBank	GU053186	GU053188
A/Common_murre/Oregon/19497-004/2005_H9N5	GenBank	CY075925	CY075927
A/Duck/Chiba/1/2007_H9N2	GenBank	AB874675	
A/Duck/Germany/113/1995_H9N2	GenBank	HE802066	
A/Duck/Henan/03/2009_H9N2	GenBank	KJ162122	
A/Duck/Hokkaido/13/00_H9N2	GenBank	AB276111	AB276112
A/Duck/Hokkaido/238/2008_H9N2	GenBank	AB485600	
A/Duck/Hokkaido/49/98_H9N2	GenBank	AB125928	
A/Duck/Hokkaido/9/99_H9N2	GenBank	AB262463	AB262465
A/Duck/Hokkaido/HY57/2005_H9N4	GenBank	AB455035	AB455036
A/Duck/Hokkaido/K04/2014_H9N2	GenBank	LC042043	
A/Duck/Hong_Kong/Y439/1997_H9N2	GenBank	KF188265	
A/Duck/Italy/260/2004_H9N8	GenBank	JX273564	
A/Duck/Shantou/1588/00_H9N1	GenBank	AF523389	
A/Duck/Shantou/2030/00_H9N1	GenBank	AF523390	
A/Duck/Thailand/CU-8319T/2010_H9N7	GenBank	KF591855	KF591857
A/Duck/Viet_Nam/340/2001_H9N3	GenBank	EF541420	
A/Duck/Viet_Nam/68/2001_H9N3	GenBank	EF541419	
A/Environment/Bangladesh/1041/2009_H9N2	GenBank	KC757809	
A/Eurasian_wigeon/Netherlands/4/2005_H9N2	GenBank	HM136574	KR862602
A/Gadwall/Netherlands/1/2006_H9N2	GenBank	CY043864	CY043866
A/Knot/England/497/2002_H9N9	GenBank	JX273565	
A/Laughing_gull/Delaware_Bay/5/2003_H9N1	GenBank	CY102720	
A/Mallard/Austria/WV1090234/2007_H9N2	GenBank	GU194485	
A/Mallard/England/7798-6499/2006_H9N2	GenBank	JX273566	
A/Mallard/Finland/10940/2009_H9N2	GenBank	KF183626	
A/Mallard/Finland/13353/2010_H9N2	GenBank	KF183630	
A/Mallard/Finland/13384/2010_H9N2	GenBank	KF183632	
A/Mallard/Finland/13977/2010_H9N2	GenBank	KF183634	
A/Mallard/France/090360/2009_H9N2	GenBank	CY080415	CY080417
A/Mallard/Iran/T366/2007_H9N2	GenBank	FN600117	
A/Mallard/Ireland/PV46B/1993_H9N3	GenBank	AB303077	
A/Mallard/Norway/10_1537/2009_H9N2	GenBank	HE802723	
A/Mallard/Portugal/83660/2009_H9N2	GenBank	CY116614	CY184159
A/Mallard/Portugal/83695/2009_H9N2	GenBank	CY184165	CY184167
A/Mallard/Portugal/99002/2009_H9N2	GenBank	CY116616	
A/Mallard/Portugal/99005/2009_H9N2	GenBank	CY116618	
A/Mallard/Portugal/99006/2009_H9N2	GenBank	CY116620	
A/Mallard/PT/27972-B139/2007_H9N2	GenBank	JF745931	
A/Mallard/Sweden/4932/2004_H9N2	GenBank	CY184117	CY184119
A/Mallard/Sweden/67860/2007_H9N2	GenBank	CY184149	
A/Mallard/Sweden/7146/2004_H9N2	GenBank	CY184125	CY184127
A/Mallard/Sweden/99668/2009_H9N2	GenBank	CY184173	
A/Mallard/Sweden/99785/2009_H9N2	GenBank	CY184181	
A/Mallard/Switzerland/WV1070800/2007_H9N2	GenBank	GU194480	
A/Mallard/Switzerland/WV1070805/2007_H9N2	GenBank	GU194481	
A/Mallard/Switzerland/WV1080875/2008_H9N2	GenBank	GU194482	
A/Mallard/Switzerland/WV3080008/2007_H9N2	GenBank	GU194486	
A/Mallard/Switzerland/WV3080036/2008_H9N2	GenBank	GU194487	
A/Mandarin_duck/Korea/K12-256/2012_H9N2	GenBank	KR234076	
A/Ostrich/South_Africa/AI1586/2008_H9N2	GenBank	GQ404721	
A/Pelican/Zambia/13/2009_H9N1	GenBank	AB569567	
A/Pink-footed_goose/Netherlands/1/2006_H9N2	GenBank	CY041266	CY041268
A/Ruddy_turnstone/Delaware_Bay/261/1999_H9N7	GenBank	CY102532	
A/Ruddy_turnstone/Delaware/AI03-114/2003_H9N2	GenBank	CY144483	
A/Ruddy_turnstone/Delaware/AI03-123/2003_mixed	GenBank	CY144473	
A/Ruddy_turnstone/Delaware/AI03-162/2003_mixed	GenBank	CY144464	CY144466
A/Ruddy_turnstone/Delaware/AI03-163/2003_H9N8	GenBank	CY144547	
A/Ruddy_turnstone/Delaware/AI03-165/2003_H9N5	GenBank	CY144456	CY144458

Viral Name	Source	Accession number	Accession number
		HA segment	NA segment
A/Ruddy_turnstone/Delaware/AI03-180/2003_H9N9	GenBank	CY144563	
A/Ruddy_turnstone/Delaware/AI03-193/2003_H9N5	GenBank	CY144373	CY144375
A/Ruddy_turnstone/Delaware/AI03-200/2003_H9N8	GenBank	CY144555	
A/Ruddy_turnstone/Delaware/AI03-224/2003_H9N9	GenBank	CY144523	
A/Shorebird/DE/261/2003_H9N5	GenBank	CY005992	
A/Shorebird/Delaware_Bay/127/2003_H9N2	GenBank	CY102728	
A/Shorebird/Delaware_Bay/163/2003_H9N2	GenBank	KF188256	
A/Shorebird/Delaware_Bay/246/2003_H9N5	GenBank	CY102736	CY102738
A/Shorebird/Delaware_Bay/276/1999_H9N2	GenBank	KF188373	
A/Shorebird/Delaware_Bay/283/2003_H9N1	GenBank	CY102744	
A/Shorebird/Delaware_Bay/286/2003_H9N2	GenBank	KF188278	
A/Shorebird/Delaware_Bay/293/2003_H9N2	GenBank	KF188333	
A/Shorebird/Delaware_Bay/73/2003_H9N2	GenBank	CY101323	
A/Teal/Finland/10529/2010_H9N2	GenBank	KF183628	
A/Teal/Primorie/3628/02_H9N2	GenBank	DQ787797	
A/Teal/Primorie/3631/02_H9N2	GenBank	DQ787802	
A/Teal/Switzerland/WV1070694/2007_H9N2	GenBank	GU194479	
A/Turkey/Germany/EK224/1995_H9N2	GenBank	JX273569	
A/Turkey/Netherlands/11015452/2011_H9N2	GenBank	JX273570	KY676336
A/Duck/Tsukuba/574/2006_H10N1	GISAID	EPI356629	
A/Shoveler/Egypt/00006-NAMRU3/2007_H10N1	GISAID	EPI372442	
A/Teal/Egypt/12908-NAMRU3/2005_H10N1	GISAID	EPI372481	EPI372480
A/Wild_bird/Korea/A323/2009_H10N1	GISAID	EPI387876	
A/Duck/Hokkaido/W87/2007_H10N2	GISAID	EPI161527	
A/Duck/Hunan/S11205/2012_H10N3	GISAID	EPI461563	
A/Duck/Thailand/LM-CU4747/2009_H10N3	GISAID	EPI314742	
A/Duck/Thailand/LM-CU4753/2009_H10N3	GISAID	EPI314746	
A/Muscovy_duck/Thailand/CU-LM4754/2009_H10N3	GISAID	EPI256770	
A/Duck/Italy/268302/2004_H10N4	GISAID	EPI178493	EPI178495
A/Pied_avocet/Ukraine/05848-NAMRU3/2006_H10N4	GISAID	EPI372496	EPI372495
A/Shoveler/Egypt/01574-NAMRU3/2007_H10N4	GISAID	EPI372458	EPI372457
A/Long-tailed_duck/Wisconsin/10053919/2010_H10N6	GISAID	EPI419336	
A/Mallard/Denmark/16109-4/2011-11-14_H10N6	GISAID	EPI541472	
A/Anas_platyrhynchos/Camargue/091863/09_H10N7	GISAID	EPI332944	EPI332955
A/Avian/Israel/201/2001_H10N7	GenBank	JN564724	JN575025
A/Avian/Israel/218/2000_H10N7	GenBank	JN564725	JN575026
A/Avian/Israel/232/2001_H10N7	GISAID	EPI456969	
A/Avian/Israel/297/2001_H10N7	GenBank	JN564728	JN575029
A/Avian/Israel/445/2001_H10N7	GenBank	JN564730	JN575031
A/Avian/Israel/457/2001_H10N7	GenBank	JN564731	JN575032
A/Duck/Italy/62330/2006_H10N7	GISAID	EPI178528	
A/Duck/Italy/73383/2006_H10N7	GISAID	EPI174777	
A/Duck/Shimane/45/1997_H10N7	GenBank	AB296078	AB296079
A/Harbor_seal/Denmark/14-5061-1lu/2014-07_H10N7	GISAID	EPI541474	
A/Mallard/Egypt/EMC-4/2012_H10N7	GISAID	EPI552755	
A/Mallard/Netherlands/1/2012_H10N7	GISAID	EPI552756	
A/Mallard/Netherlands/1/2014_H10N7	GISAID	EPI552751	
A/Mallard/Netherlands/47/2010_H10N7	GenBank	KR862524	KR862722
A/Mallard/Netherlands/50/2010_H10N7	GenBank	KR862527	KR862727
A/Northern_pintail/Egypt/EMC-1/2012_H10N7	GISAID	EPI552754	
A/Seal/Sweden/SVA0546/2014_H10N7	GISAID	EPI545212	
A/Shoveler/Egypt/00600-NAMRU3/2004_H10N7	GISAID	EPI372291	
A/Shoveler/Egypt/01198-NAMRU3/2007_H10N7	GISAID	EPI372402	
A/Shoveler/Egypt/09781-NAMRU3/2004_H10N7	GISAID	EPI372339	EPI372338
A/Teal/Egypt/01207-NAMRU3/2007_H10N7	GISAID	EPI372426	EPI372425
A/Seal/Sweden/SVA0824/2014_H10N7_H10N7	GISAID	EPI547696	
A/Chicken/77/Jiangxi/2014_H10N8	GISAID	EPI537463	
A/Chicken/Jiangxi/102/2013_H10N8	GISAID	EPI530542	
A/Environment/Dongting_Lake/Hunan/3-9/2007_H10N8	GISAID	EPI221966	
A/Environment/Jiangxi/03366/2013_H10N8	GISAID	EPI530386	
A/Environment/Jiangxi/03367/2013_H10N8	GISAID	EPI530394	
A/Environment/Jiangxi/03413/2013_H10N8	GISAID	EPI530402	
A/Environment/Jiangxi/03489/2013_H10N8	GISAID	EPI530410	
A/Environment/Jiangxi/10615/2014_H10N8	GISAID	EPI530418	
A/Environment/Jiangxi/10721/2014_H10N8	GISAID	EPI530426	
A/Environment/Jiangxi/10738/2014_H10N8	GISAID	EPI530434	
A/Jiangxi-Donghu/346/2013_H10N8	GISAID	EPI497477	
A/Jiangxi/09037/2014_H10N8	GISAID	EPI530450	
A/Mallard/Sweden/7/2003_H10N8	GISAID	EPI251793	
A/Northern_shoveler/Hong_Kong/MPC657/2006_H10N9	GISAID	EPI469806	

Viral Name	Source	Accession number	Accession number
		HA segment	NA segment
A/Northern_shoveler/Hong_Kong/MPE2531/2008_H10N9	GISAID	EPI469805	
A/Northern_shoveler/Hong_Kong/MPE2984/2008_H10N9	GISAID	EPI469808	
A/Shoveler/Egypt/00004-NAMRU3/2007_H10N9	GISAID	EPI372434	
A/Ruddy_turnstone/Netherlands/8/2008_H10N4	GenBank	KR862508	KR862683
A/Mallard/Netherlands/1/2007_H10N7	GenBank	KR862510	
A/Eurasian_wigeon/Netherlands/3/2007_H10N1	GenBank	KR862511	
A/Ruddy_turnstone/Netherlands/2/2009_H10N4	GenBank	KR862515	KR862690
A/Mallard/Lithuania/EMC-1/2011_H10N4	GenBank	KR862380	KR862396
A/Mallard/Lithuania/EMC-1/2010_H10N4	GenBank	KR862381	KR862397
A/Mallard/Netherlands/16/2006_H10N7	GenBank	KR862507	
A/Mallard/Netherlands/2/2008_H10N7	GenBank	KR862517	KR862710
A/Mallard/Netherlands/67/2008_H10N7	GenBank	KR862518	KR862711
A/Mallard/Netherlands/1/2009_H10N7	GenBank	KR862522	KR862715
A/Mallard/Netherlands/53/2008_H10N7	GenBank	KR862523	KR862716
A/Mallard/Netherlands/30/2009_H10	GenBank	KR862525	
A/Mallard/Egypt/EMC-1/2012_H10N7	GenBank	KR862382	
A/Chicken/Netherlands/10008427/2010_H10N7	GenBank	KY676331	KY676345
A/Turkey/Netherlands/09006938/2009_H10N7	GenBank	KY676332	KY676344
A/Mallard/Netherlands/06013952/2006_H10N7	GenBank	KY676349	
A/Mallard/Netherlands/06014516/2006_H10N8	GenBank	KY676350	
A/Avian/Israel/543/2008_H10N7	GenBank	JN564732	JN575033
A/Avian/Israel/824/2005_H10N2	GenBank	JN564733	
A/Chicken/Jiangsu/RD5/2013_H10N9	GenBank	KF006414	
A/Common_teal/Hong_Kong/MPK630/2009_H10N9	GenBank	KF259197	
A/Duck/Guangdong/E1/2012_H10N8	GenBank	JQ924786	
A/Duck/Hunan/S1496/2011_H10N8	GenBank	KP862019	
A/Duck/Hunan/S3137/2009_H10N8	GenBank	KP862027	
A/Duck/Hunan/S4280/2009_H10N8	GenBank	KP862035	
A/Duck/Huzhou/4233/2013_mixed	GenBank	KP413924	
A/Duck/Jiangxi/13875/2005_H10N3	GenBank	KP287830	
A/Duck/Jiangxi/13946/2005_H10N3	GenBank	KP287838	
A/Duck/Jiangxi/15846/2013_H10N3	GenBank	KP285477	
A/Duck/Jiangxi/2039/2005_H10N8	GenBank	KP287926	
A/Duck/Jiangxi/24570/2009_mixed	GenBank	KP287794	
A/Duck/Jiangxi/26141/2009_H10N7	GenBank	KP287966	KP287968
A/Duck/Jiangxi/26182/2009_H10N7	GenBank	KP287974	KP287976
A/Duck/Jiangxi/26281/2009_H10N7	GenBank	KP287982	
A/Duck/Jiangxi/26331/2009_H10N7	GenBank	KP287990	
A/Duck/Jiangxi/27314/2012_H10N7	GenBank	KP287665	KP287667
A/Duck/Jiangxi/302/2006_H10N3	GenBank	KP287846	
A/Duck/Jiangxi/6450/2013_H10N8	GenBank	KP285589	
A/Duck/Jiangxi/6544/2013_H10N8	GenBank	KP285661	
A/Duck/Jiangxi/6556/2013_H10N8	GenBank	KP285677	
A/Duck/Jiangxi/6613/2013_mixed	GenBank	KP287044	
A/Duck/Jiangxi/6648/2013_H10N8	GenBank	KP285733	
A/Duck/Jiangxi/860/2006_H10N3	GenBank	KP287886	
A/Duck/Mongolia/149/03_H10N5	GenBank	AB450456	AB270599
A/Duck/Zhejiang/6D20/2013_H10N2	GenBank	KP063197	
A/Eurasian_wigeon/Netherlands/4/2007_H10N1	GenBank	CY077048	
A/Goose/Guizhou/829/2012_H10N7	GenBank	KF259194	
A/Harbour_seal/Germany/1/2014_H10N7	GenBank	KP137835	KP137832
A/Herring_gull/Netherlands/4/2006_H10N4	GenBank	CY077032	CY077034
A/Mallard/Bavaria/3/2006_H10N7	GenBank	FJ183474	FJ183475
A/Mallard/Korea/1203/2010_H10N8	GenBank	JN817572	
A/Mallard/Korea/1242/2010_H10N6	GenBank	JN817576	
A/Mallard/Netherlands/02/2000_H10N7	GenBank	CY076945	CY076947
A/Mallard/Portugal/79940/2009_H10N7	GenBank	CY116612	
A/Mallard/Republic_of_Georgia/1/2010_H10N1	GenBank	KC190171	KC190180
A/Mallard/Republic_of_Georgia/12/2011_H10N4	GenBank	CY185505	CY185507
A/Mallard/Republic_of_Georgia/14/2011_H10N7	GenBank	CY185689	CY185691
A/Mallard/Republic_of_Georgia/15/2011_H10N7	GenBank	CY185385	CY185387
A/Mallard/Sweden/102087/2009_H10N1	GenBank	CY183839	CY183841
A/Mallard/Sweden/104746/2009_H10N1	GenBank	CY183855	
A/Mallard/Sweden/105186/2009_H10N1	GenBank	CY183863	
A/Mallard/Sweden/105323/2009_H10N1	GenBank	CY183887	CY183889
A/Mallard/Sweden/105402/2009_H10N1	GenBank	CY183911	
A/Mallard/Sweden/105404/2009_H10N1	GenBank	CY183919	
A/Mallard/Sweden/105465/2009_H10N1	GenBank	CY183927	CY183929
A/Mallard/Sweden/105501/2009_H10N1	GenBank	CY183951	CY183953
A/Mallard/Sweden/105522/2009_H10N1	GenBank	JX566079	JX566263

Viral Name	Source	Accession number	Accession number
		HA segment	NA segment
A/Mallard/Sweden/105527/2009_H10N1	GenBank	CY183959	CY183961
A/Mallard/Sweden/105536/2009_H10N1	GenBank	CY183967	
A/Mallard/Sweden/133546/2011_H10N4	GenBank	CY183991	CY183993
A/Mallard/Sweden/1417/2002_H10N7	GenBank	CY183637	CY183639
A/Mallard/Sweden/223/2002_H10N2	GenBank	CY183580	
A/Mallard/Sweden/3151/2003_H10N7	GenBank	CY183645	CY183647
A/Mallard/Sweden/4258/2004_H10N4	GenBank	CY183653	CY183655
A/Mallard/Sweden/4401/2004_H10N4	GenBank	CY183661	CY183663
A/Mallard/Sweden/4411/2004_H10N4	GenBank	CY183669	
A/Mallard/Sweden/51/2002_H10N2	GenBank	HM136575	
A/Mallard/Sweden/51548/2006_H10N4	GenBank	CY183718	CY183720
A/Mallard/Sweden/51619/2006_H10N4	GenBank	CY183734	CY183736
A/Mallard/Sweden/51933/2006_H10N9	GenBank	CY183758	
A/Mallard/Sweden/52903/2006_H10N9	GenBank	CY183783	
A/Mallard/Sweden/5812/2005_H10N9	GenBank	CY183677	
A/Mallard/Sweden/5824/2005_H10N7	GenBank	CY183685	
A/Mallard/Sweden/5932/2005_H10N7	GenBank	CY183401	CY183403
A/Mallard/Sweden/59463/2007_H10N7	GenBank	CY183791	CY183793
A/Mallard/Sweden/60065/2007_mixed	GenBank	CY184665	
A/Mallard/Sweden/6039/2005_H10N4	GenBank	CY184640	CY184642
A/Mallard/Sweden/64476/2007_H10N4	GenBank	CY183799	CY183801
A/Mallard/Sweden/69773/2007_H10N5	GenBank	CY183807	CY183809
A/Mallard/Sweden/69777/2007_H10N6	GenBank	CY183815	
A/Mallard/Sweden/69792/2007_H10N5	GenBank	CY183823	
A/Mallard/Sweden/737/2002_H10N2	GenBank	CY183588	CY183590
A/Mallard/Sweden/766/2002_mixed	GenBank	CY183596	
A/Mallard/Sweden/8004/2005_H10N4	GenBank	CY184657	CY184659
A/Mallard/Sweden/8023/2005_H10N4	GenBank	CY183710	CY183712
A/Mallard/Sweden/93475/2009_H10N6	GenBank	CY183831	
A/Mallard/Sweden/948/2002_H10N9	GenBank	CY183629	
A/Mallard/Switzerland/WV1090023/2009_H10	GenBank	HM179251	
A/Migratory_duck/Jiangxi/10857/2005_H10N2	GenBank	KP287998	KP288000
A/Migratory_duck/Jiangxi/10974/2005_H10N6	GenBank	KP287822	
A/Migratory_duck/Jiangxi/21248/2009_H10N8	GenBank	KP287958	
A/Migratory_duck/Jiangxi/30246/2013_H10N5	GenBank	KP284877	KP284879
A/Migratory_duck/Jiangxi/33038/2013_H10N7	GenBank	KP285893	KP285895
A/Migratory_duck/Jiangxi/33158/2013_H10N7	GenBank	KP285901	
A/Migratory_duck/Jiangxi/33238/2013_H10N7	GenBank	KP285917	
A/Migratory_duck/Jiangxi/593/2005_H10N8	GenBank	KP287934	
A/Migratory_duck/Jiangxi/6847/2003_H10N5	GenBank	KP288014	KP288016
A/Migratory_duck/Jiangxi/9334/2005_H10N6	GenBank	KP287814	
A/Migratory_duck/Jiangxi/9492/2005_H10N6	GenBank	KP288006	
A/Ostrich/SouthAfrica/2001_H10N1	GenBank	GQ247860	
A/Pekin_duck/South_Africa/AI1642/2009_H10N7	GenBank	GQ404728	
A/Ruddy_shelduck/Mongolia/1602/2010_H10N8	GenBank	KF501079	
A/Ruddy_shelduck/Mongolia/974/2010_H10N7	GenBank	KF501093	KF667728
A/Surf_scooter/Mongolia/878V/2009_H10N8	GenBank	KF501083	
A/Velvet_scooter/Mongolia/879V/2009_H10N8	GenBank	KF501096	
A/Wild_bird/Korea/A01/2011_H10N4	GenBank	JN817570	JN817551
A/Wild_bird/Korea/A02/2011_H10N4	GenBank	JN817571	JN817552
A/Wild_bird/Korea/A12/2010_H10N1	GenBank	JN817574	
A/Wild_bird/Korea/A13/2010_H10N1	GenBank	JN817575	
A/Wild_bird/Korea/L110-2/2008_H10N4	GenBank	JN817580	JN817549
A/Mallard/Netherlands/24/2006_H1N1	GenBank		KR862544
A/Mallard/Netherlands/25/2006_H1N1	GenBank		KR862545
A/Mallard/Netherlands/45/2006_H1N1	GenBank		KR862547
A/Mallard/Netherlands/46/2006_H1N1	GenBank		KR862548
A/Lesser_black-backed_gull/Netherlands/1/2007_H11N1	GenBank		KR862553
A/Mallard/Netherlands/24/2009_H6N1	GenBank		KR862555
A/Mallard/Netherlands/12/2005_H1N1	GenBank		KR862535
A/Mallard/Netherlands/14/2005_H1N1	GenBank		KR862536
A/Mallard/Netherlands/15/2005_H1N1	GenBank		KR862537
A/Brent_goose/Netherlands/1/2006_H1N1	GenBank		KR862541
A/Mallard/Netherlands/83/2008_H7N1	GenBank		KR862561
A/Mallard/Netherlands/32/2008_H6N1	GenBank		KR862562
A/Mallard/Netherlands/54/2008_H10N1	GenBank		KR862564
A/Mallard/Netherlands/46/2008_H6N1	GenBank		KR862570
A/Mallard/Netherlands/77/2008_H7N1	GenBank		KR862571
A/Common_teal/Netherlands/1/2008_H6N1	GenBank		KR862574
A/Mallard/Netherlands/28/2009_H1N1	GenBank		KR862580

Viral Name	Source	Accession number	Accession number
		HA segment	NA segment
A/Mallard/Netherlands/39/2011_N1	GenBank		KR862583
A/Mallard/Netherlands/40/2011_H7N1	GenBank		KR862584
A/Mallard/Netherlands/10/2012_H6N1	GenBank		KR862587
A/Mallard/Netherlands/24/2012_N1	GenBank		KR862588
A/Mallard/Netherlands/8/2012_H1N1	GenBank		KR862589
A/Mallard/Netherlands/78/2008_H7N1	GenBank		KR862592
A/Mallard/Netherlands/12/2012_H6N1	GenBank		KR862594
A/Mallard/Netherlands/14/2012_N1	GenBank		KR862599
A/White-fronted_goose/Germany-NI/R482/09_H1N1	GISAID	EPI248525	EPI248524
A/White-fronted_goose/Netherlands/1/1999_H6N1	GenBank		CY060433
A/Domestic_goose/Germany-MV/R3298/2009_H6N1	GISAID		EPI339177
A/Mallard/Italy/4518/2007_H10N1	GISAID		EPI511812
A/Duck/Hokkaido/Vac-1/04_H5N1	GenBank		AB259714
A/Chicken/Hubei/Wf/2002_H5N1	GenBank		DQ997088
A/Duck/Guangxi/xa/2001_H5N1	GenBank		DQ997514
A/Duck/Zhejiang/bj/2002_H5N1	GenBank		DQ997411
A/Chicken/Jilin/hk/2004_H5N1	GenBank		DQ997326
A/Teal/Hong_Kong/2978/03_H5N1	GenBank		EF467813
A/Goose/Guangdong/3/97_H5N1	GenBank		AF364335
A/Duck/France/05066b/2005_H5N1	GenBank		AJ972921
A/Duck/Viet_Nam/Ncvd1/2002_H5N1	GenBank		EF541465
A/Duck/Hokkaido/Vac-3/2007_H5N1	GenBank		AB355931
A/Duck/Eastern_China/01/2002_H3N1	GenBank		EU429718
A/Duck/Eastern_China/341/2003_H3N1	GenBank		EU429719
A/Duck/Eastern_China/213/2003_H3N1	GenBank		EU429723
A/Duck/Eastern_China/233/2003_H3N1	GenBank		EU429733
A/Duck/Eastern_China/262/2003_H3N1	GenBank		EU429734
A/Duck/Eastern_China/103/2003_H1N1	GenBank		EU429749
A/Duck/Eastern_China/152/2003_H1N1	GenBank		EU429751
A/Duck/Eastern_China/243/2003_H3N1	GenBank		EU429752
A/Duck/Eastern_China/252/2003_H3N1	GenBank		EU429753
A/Duck/Eastern_China/253/2003_H3N1	GenBank		EU429754
A/Duck/Eastern_China/267/2003_H3N1	GenBank		EU429755
A/Duck/Eastern_China/231/2003_H3N1	GenBank		EU429766
A/Chicken/Shantou/904/2001_H5N1	GenBank		CY029008
A/Quail/Shantou/3846/2002_H5N1	GenBank		CY029169
A/Chicken/Hong_Kong/715.5/01_H5N1	GenBank		AF509100
A/Duck/Hong_Kong/3461/99_H6N1	GenBank		AJ410564
A/Goose/Hong_Kong/385.3/2000_H5N1	GenBank		AF398421
A/Goose/Hong_Kong/385.5/2000_H5N1	GenBank		AF398422
A/Duck/Hokkaido/143/2003_H7N1	GenBank		AB451873
A/Goose/Hong_Kong/Ww26/2000_H5N1	GenBank		AY059483
A/Goose/Hong_Kong/Ww28/2000_H5N1	GenBank		AY059484
A/Duck/Hong_Kong/Ww381/2000_H5N1	GenBank		AY059485
A/Duck/Hong_Kong/Ww382/2000_H5N1	GenBank		AY059486
A/Duck/Hong_Kong/Ww461/2000_H5N1	GenBank		AY059487
A/Goose/Hong_Kong/Ww491/2000_H5N1	GenBank		AY059489
A/Duck/Hong_Kong/2986.1/2000_H5N1	GenBank		AY059490
A/Goose/Hong_Kong/3014.8/2000_H5N1	GenBank		AY059491
A/Mallard/France/2525/2001_H7N1	GenBank		AM157356
A/Mallard/France/2526/2001_H7N1	GenBank		AM157357
A/Mallard/France/691/2002_H1N1	GenBank		AM157358
A/Swan/Mangystau/3/2006_H5N1	GenBank		FJ436943
A/Chicken/Hong_Kong/317.5/2001b_H5N1	GenBank		AY075028
A/Goose/Hong_Kong/3014.5/2000b_H5N1	GenBank		AY075031
A/Duck/Hong_Kong/380.5/2001_H5N1	GenBank		AY075034
A/Mute_swan/Aktau/1460/2006_H5N1	GenBank		FJ434374
A/Duck/Hokkaido/83/2004_H1N1	GenBank		AB470661
A/Duck/Hokkaido/W73/2007_H1N1	GenBank		AB470663
A/Duck/Mongolia/116/2002_H1N1	GenBank		AB470667
A/Duck/Mongolia/253/2003_H1N1	GenBank		AB470668
A/Duck/Mongolia/540/2001_H1N1	GenBank		AB470669
A/Duck/Mongolia/610/2002_H1N1	GenBank		AB470670
A/Duck/Mongolia/867/2002_H7N1	GenBank		AB473545
A/Teal/Viet_Nam/MBP5/2006_H5N1	GenBank		FJ811998
A/Duck/Tsukuba/67/2005_H1N1	GenBank		AB472015
A/Duck/Chiba/884/2004_H3N1	GenBank		AB472013
A/Anas_plathyrhynchos/Spain/1266/2007_H1N1	GenBank		FN386469
A/Anas_crecca/Spain/1402/2007_H1N1	GenBank		FN386473
A/Duck/Korea/334-15/2008_H6N1	GenBank		GQ414900

Viral Name	Source	Accession number	Accession number
		HA segment	NA segment
A/Duck/Korea/112-25/2008_H6N1	GenBank		GQ414901
A/Spot-billed_duck/Korea/625/2008_H6N1	GenBank		GQ414902
A/Spot-billed_duck/Korea/545/2008_H6N1	GenBank		GQ414903
A/Spot-billed_duck/Korea/527/2008_H6N1	GenBank		GQ414905
A/Spot-billed_duck/Korea/534/2008_H6N1	GenBank		GQ414906
A/Spot-billed_duck/Korea/546/2008_H6N1	GenBank		GQ414907
A/Spot-billed_duck/Korea/536/2008_H6N1	GenBank		GQ414908
A/Spot-billed_duck/Korea/540/2008_H6N1	GenBank		GQ414910
A/Mallard/Korea/L08-8/2008_H6N1	GenBank		GQ414904
A/Mallard/Bavaria/47/2006_N1	GenBank		GU046750
A/Mallard/Bavaria/48/2006_N1	GenBank		GU046751
A/Duck/Bavaria/49/2006_H11N1	GenBank		GU046753
A/Waterfowl/Hong_Kong/378.5/2001_H5N1	GenBank		GU186694
A/Goose/Hong_Kong/437-6/1999_H5N1	GenBank		GU052021
A/Goose/Hong_Kong/437-8/1999_H5N1	GenBank		GU052029
A/Goose/Hong_Kong/485.3/2000_H5N1	GenBank		GU052044
A/Goose/Hong_Kong/1032.6/2000_H5N1	GenBank		GU052052
A/Goose/Hong_Kong/3014.5/2000a_H5N1	GenBank		GU052075
A/Chicken/Hong_Kong/317.5/2001a_H5N1	GenBank		GU052083
A/Hong_Kong/378.1/2001_H5N1	GenBank		GU052091
A/Goose/Hong_Kong/668.1/2001_H5N1	GenBank		GU052467
A/Chicken/Hong_Kong/NT873.3/01-MB_H5N1	GenBank		AY221539
A/Pheasant/Hong_Kong/FY155/01-MB_H5N1	GenBank		AY221543
A/Pheasant/Hong_Kong/FY155/01_H5N1	GenBank		AY221544
A/Chicken/Hong_Kong/FY150/01_H5N1	GenBank		AF509095
A/Mallard/Norway/10_1671/2007_H1N1	GenBank		FN773074
A/Mallard/Jiangxi/6845/2003_H6N1	GenBank		HM144559
A/Aquatic_bird/India/NIV-17095/2007_H11N1	GenBank		CY055177
A/Mallard/PT/23059/2007_H1N1	GenBank		HM849011
A/Chicken/Pakistan/NARC-16945/2010_H3N1	GenBank		HQ165998
A/Mallard/Bavaria/185-26/2008_H1N1	GenBank		HQ259234
A/Mallard/Netherlands/28/2006_H3N1	GenBank		CY076907
A/Duck/Korea/GJ74/2007_H3N1	GenBank		JN087234
A/Duck/Zhejiang/2245/2011_H5N1	GenBank		JN646732
A/Lesser_whistling-duck/Thailand/CU-W3947/2010_H12N1	GenBank		JN982529
A/Lesser_whistling-duck/Thailand/CU-W3946/2010_H12N1	GenBank		JN982521
A/Lesser_whistling-duck/Thailand/CU-W3941/2010_H12N1	GenBank		JN982513
A/Watercock/Thailand/CU-W3699/2009_H12N1	GenBank		JN982505
A/Chicken/England/1415-51184/2010_H9N1	GenBank		JQ609665
A/Mallard/Netherlands/10-Nmkt/1999_N1	GenBank		KC209509
A/Duck/Hokkaido/W26/2012_H12N1	GenBank		AB780370
A/Duck/Fujian/17/2001_H5N1	GenBank		AY585401
A/Duck/Guangdong/01/2001_H5N1	GenBank		AY585403
A/Duck/Guangdong/07/2000_H5N1	GenBank		AY585404
A/Duck/Guangdong/40/2000_H5N1	GenBank		AY585407
A/Duck/Guangxi/35/2001_H5N1	GenBank		AY585410
A/Duck/Shanghai/13/2001_H5N1	GenBank		AY585414
A/Duck/Zhejiang/52/2000_H5N1	GenBank		AY585419
A/Turkey/Italy/604/2000_H7N1	GenBank		KF493262
A/European_teal/Novosibirsk/203/2011_H5N1	GenBank		KF462363
A/European_teal/Novosibirsk/239/2011_H5N1	GenBank		KF462365
A/European_teal/Novosibirsk/261/2011_H5N1	GenBank		KF462367
A/Swine/Fujian/F1/2001_H5N1	GenBank		AY747618
A/Common_goldeneye/Mongolia/1271/2010_H7N1	GenBank		KF667689
A/Mallard/Mongolia/1551/2010_H3N1	GenBank		KF667697
A/Ruddy_shelduck/Mongolia/921C2/2009_H7N1	GenBank		KF667727
A/Swine/Fujian/1/2003_H5N1	GenBank		AY747610
A/Goose/Guangdong/1/96_H5N1	GenBank		AF144304
A/Mallard/Sweden/52405/2006_N1	GenBank		CY164158
A/Duck/Thailand/CU-13011C/2013_N1	GenBank		KJ525983
A/Aquatic_Bird/Hong_Kong/m603/98_H11N1	GenBank		AF098551
A/Mallard/Sweden/4737/2004_N1	GenBank		CY183476
A/Black-headed_gull/Republic_of_Georgia/1/2010_H11N1	GenBank		CY185411
A/Black-headed_gull/Republic_of_Georgia/2/2011_H9N1	GenBank		CY185523
A/Ruddy_turnstone/Iceland/2899/2013_H5N1	GenBank		KM213392
A/Chicken/Taiwan/0824/97_H6N1	GenBank		DQ376693
A/Chicken/Taiwan/na3/98_H6N1	GenBank		DQ376694
A/Chicken/Taiwan/165/99_H6N1	GenBank		DQ376698
A/Duck/Taiwan/WB29/99_H6N1	GenBank		DQ376699
A/Duck/Taiwan/A68/03_H6N1	GenBank		DQ376718

Viral Name	Source	Accession number	Accession number
		HA segment	NA segment
A/Swine/Fujian/2001_H5N1	GenBank		DQ432038
A/Pekin_Duck/France/M-2060/01_H1N1	GenBank		AJ697876
A/Environment/Hong_Kong/437-4/99_H5N1	GenBank		AF216714
A/Environment/Hong_Kong/437-10/99_H5N1	GenBank		AF216738
A/Mallard/Netherlands/85/2006_N2	GenBank		KR862609
A/Mallard/Netherlands/12/2006_H5N2	GenBank		KR862611
A/Mallard/Netherlands/43/2006_H5N2	GenBank		KR862612
A/Mallard/Netherlands/58/2006_H4N2	GenBank		KR862614
A/Mallard/Netherlands/63/2006_H5N2	GenBank		KR862615
A/Bewicks_swan/Netherlands/4/2006_H9N2	GenBank		KR862616
A/Mallard/Netherlands/85/2008_N2	GenBank		KR862617
A/White-fronted_goose/Netherlands/8/2009_H6N2	GenBank		KR862635
A/Bewicks_swan/Netherlands/1/2010_H5N2	GenBank		KR862637
A/White-fronted_goose/Netherlands/6/2010_H6N2	GenBank		KR862639
A/White-fronted_goose/Netherlands/7/2011_N2	GenBank		KR862642
A/Mallard/Netherlands/13/2005_H6N2	GenBank		KR862600
A/Eurasian_wigeon/Netherlands/2/2005_H1N2	GenBank		KR862601
A/Eurasian_wigeon/Netherlands/5/2005_N2	GenBank		KR862603
A/Mallard/Netherlands/19/2005_H3N2	GenBank		KR862605
A/Mallard/Netherlands/19/2007_H6N2	GenBank		KR862643
A/Mallard/Netherlands/3/2008_H6N2	GenBank		KR862644
A/Mallard/Netherlands/5/2009_H5N2	GenBank		KR862645
A/Mallard/Netherlands/43/2008_H3N2	GenBank		KR862646
A/Mallard/Netherlands/44/2008_H3N2	GenBank		KR862647
A/Mallard/Netherlands/45/2008_H4N2	GenBank		KR862648
A/Bewicks_swan/Netherlands/5/2008_H5N2	GenBank		KR862651
A/White-fronted_goose/Netherlands/5/2008_H5N2	GenBank		KR862652
A/White-fronted_goose/Netherlands/4/2009_H5N2	GenBank		KR862653
A/Mallard/Netherlands/18/2009_H6N2	GenBank		KR862654
A/Eurasian_wigeon/Netherlands/1/2009_H5N2	GenBank		KR862655
A/Black-headed_gull/Netherlands/8/2010_H13N2	GenBank		KR862656
A/Mallard/Netherlands/28/2010_H5N2	GenBank		KR862657
A/Mallard/Netherlands/34/2010_H3N2	GenBank		KR862658
A/Mallard/Netherlands/13/2011_H3N2	GenBank		KR862659
A/Eurasian_wigeon/Netherlands/1/2011_N2	GenBank		KR862660
A/Mallard/Netherlands/17/2012_H3N2	GenBank		KR862663
A/Mallard/Netherlands/27/2012_N2	GenBank		KR862665
A/Mallard/Netherlands/15/2012_H3N2	GenBank		KR862664
A/Mallard/Netherlands/27/2008_H3N2	GenBank		KR862667
A/Mallard/Netherlands/50/2008_H3N2	GenBank		KR862668
A/Mallard/Netherlands/52/2008_H5N2	GenBank		KR862674
A/White-fronted_goose/Netherlands/6/2008_H5N2	GenBank		KR862675
A/Eurasian_wigeon/Netherlands/1/2010_H5N2	GenBank		KR862676
A/Mallard/Netherlands/55/2010_H3N2	GenBank		KR862677
A/Mallard/Netherlands/18/2012_H4N2	GenBank		KR862680
A/Wild_duck/Germany/WV2555/2006_H3N2	GISAID		EPI185342
A/Pheasant/Ireland/PV12-010728/12_H5N2	GISAID		EPI375596
A/Chicken/Italy/11VIR-7548/2011_H5N2	GISAID		EPI464929
A/Turkey/Italy/12VIR-6607-5/2012_H5N2	GISAID		EPI464937
A/Chicken/Italy/12VIR-7785-67/2012_H5N2	GISAID		EPI464945
A/Turkey/Italy/12VIR-8036-2/2012_H5N2	GISAID		EPI464953
A/Mule_duck/Bulgaria/61/2010_mixed	GISAID		EPI574173
A/Mule_duck/Bulgaria/64/2010_mixed	GISAID		EPI574211
A/Mule_duck/Bulgaria/369/2009_H4N2	GISAID		EPI574213
A/Mule_duck/Bulgaria/105/2008_mixed	GISAID		EPI574258
A/Mule_duck/Bulgaria/174/2009_H6N2	GISAID		EPI574265
A/Mule_duck/Bulgaria/596/2010_H4N2	GISAID		EPI574276
A/Duck/Hong_Kong/301/1978_H7N2	GenBank		AB302790
A/Korea/KBNP-0028/2000_H9N2	GenBank		EF620902
A/Garganey/SanJiang/160/2006_H5N2	GenBank		EF634334
A/Duck/Jiang_Xi/1286/2005_H5N2	GenBank		EF597303
A/Duck/Jiang_Xi/3345/2005_H5N2	GenBank		EF597310
A/Duck/Eastern_China/164/2002_H6N2	GenBank		EU429762
A/Swine/Korea/C13/2008_H5N2	GenBank		FJ461597
A/Duck/Primorie/2621/2001_H5N2	GenBank		GQ162788
A/Spotbill_duck/Xuyi/18/2005_H5N2	GenBank		GQ184331
A/Spotbill_duck/Xuyi/6/2005_H11N2	GenBank		GQ184332
A/Mallard/Xuyi/10/2005_H5N2	GenBank		GQ184334
A/Duck/Tsukuba/9/2005_H2N2	GenBank		AB472017
A/Mallard/Netherlands/2/2005_H4N2	GenBank		CY041252



Viral Name	Source	Accession number	Accession number
		HA segment	NA segment
A/Mallard/Netherlands/26/2005_H11N2	GenBank		CY041420
A/Duck/Shimane/19/2006_H5N2	GenBank		AB472053
A/Duck/Niigata/477/2007_H5N2	GenBank		AB472055
A/Wild_bird/Korea/A81/2009_H5N2	GenBank		GU086246
A/Duck/Korea/A14/2008_H5N2	GenBank		GU086248
A/Duck/Korea/A93/2008_H5N2	GenBank		GU086249
A/Gadwall/Altai/1202/2007_H5N2	GenBank		CY049758
A/Mallard/Netherlands/3/1999_H5N2	GenBank		GU052558
A/Mallard/Sweden/7/2002_H5N2	GenBank		GU052566
A/Chicken/France/03426/2003_H5N2	GenBank		CY046126
A/Duck/France/080032/2008_H5N2	GenBank		CY046176
A/Aquatic_bird/Korea/W96/2005_H5N2	GenBank		GU361236
A/Aquatic_bird/Korea/W113/2006_H5N2	GenBank		GU361237
A/Aquatic_bird/Korea/W114/2006_H5N2	GenBank		GU361238
A/Aquatic_bird/Korea/W121/2006_H5N2	GenBank		GU361240
A/Aquatic_bird/Korea/W125/2006_H5N2	GenBank		GU361241
A/Aquatic_bird/Korea/W163/2007_H5N2	GenBank		GU361244
A/Aquatic_bird/Korea/W216/2007_H5N2	GenBank		GU361256
A/Aquatic_bird/Korea/W230/2007_H5N2	GenBank		GU361262
A/Aquatic_bird/Korea/W234/2007_H5N2	GenBank		GU361264
A/Aquatic_bird/Korea/W344/2008_H5N2	GenBank		GU361267
A/Mallard/Sweden/4/2002_H10N2	GenBank		CY060302
A/Teal/Norway/10_1360/2007_H4N2	GenBank		FN773069
A/Duck/Fujian/11339/2005_H6N2	GenBank		HM144700
A/Duck/Fujian/8719/2005_H6N2	GenBank		HM144699
A/Duck/Fujian/7033/2005_H6N2	GenBank		HM144698
A/Duck/Fujian/5643/2005_H6N2	GenBank		HM144697
A/Duck/Fujian/5426/2005_H6N2	GenBank		HM144696
A/Duck/Fujian/5117/2005_H6N2	GenBank		HM144695
A/Duck/Fujian/4125/2005_H6N2	GenBank		HM144694
A/Duck/Fujian/3937/2005_H6N2	GenBank		HM144693
A/Duck/Fujian/3701/2005_H6N2	GenBank		HM144692
A/Duck/Fujian/3193/2005_H6N2	GenBank		HM144691
A/Duck/Fujian/1695/2005_H6N2	GenBank		HM144689
A/Duck/Fujian/629/2005_H6N2	GenBank		HM144688
A/Duck/Fujian/420/2005_H6N2	GenBank		HM144687
A/Duck/Shantou/22596/2005_H6N2	GenBank		HM144679
A/Mallard/Shantou/198/2005_H6N2	GenBank		HM144661
A/Wild_duck/Shantou/180/2005_H6N2	GenBank		HM144660
A/Wild_duck/Shantou/7900/2004_H6N2	GenBank		HM144658
A/Wild_duck/Shantou/7307/2004_H6N2	GenBank		HM144656
A/Wild_duck/Shantou/3433/2003_H6N2	GenBank		HM144645
A/Wild_duck/Shantou/2853/2003_H6N2	GenBank		HM144642
A/Mallard/Netherlands/7/2007_H4N2	GenBank		CY076923
A/Mallard/Sweden/74/2003_H5N2	GenBank		CY076931
A/Herring_gull/Atyrau/2186/2007_H11N2	GenBank		HQ541743
A/Swine/KU/16/2001_H7N2	GenBank		CY067688
A/Duck/France/05057a/2005_H6N2	GenBank		AM489442
A/Spur-winged_goose/Nigeria/226/2008_H5N2	GenBank		FR771826
A/Spur-winged_goose/Nigeria/210/2008_H5N2	GenBank		FR771827
A/Spur-winged_goose/Nigeria/2/2008_H5N2	GenBank		FR771828
A/Avian/Japan/8K10148/2008_H4N2	GenBank		CY088723
A/Ostrich/South_Africa/9508103/95_H9N2	GenBank		AF508575
A/Chicken/Korea/99029/99_H9N2	GenBank		AF508582
A/Chicken/Eastern_China/43/2007_H6N2	GenBank		JF965302
A/Teal/Norway/10_1037/2010_H3N2	GenBank		FR873768
A/Mallard/Norway/10_1368/2010_H6N2	GenBank		FR873773
A/Avian/Israel/289/2001_H6N2	GenBank		JN575028
A/Chicken/Korea/KNUSWR09/2009_H9N2	GenBank		JN852797
A/Duck/Jiangxi/5748/2006_H6N2	GenBank		CY109332
A/Mallard/Netherlands/14/2007_H2N2	GenBank		CY121977
A/Mallard/Sweden/58112/2006_H2N2	GenBank		CY121929
A/Mallard/Sweden/58451/2006_H2N2	GenBank		CY121937
A/Mallard/Sweden/68735/2007_H2N2	GenBank		CY121945
A/White-fronted_goose/Netherlands/22/1999_H2N2	GenBank		CY121961
A/Mallard/Sweden/99858/2009_H6N2	GenBank		JX566198
A/Mallard/Sweden/99843/2009_H6N2	GenBank		JX566185
A/Mallard/Sweden/99820/2009_H11N2	GenBank		JX566177
A/Mallard/Sweden/100537/2009_H6N2	GenBank		JX566222
A/Duck/Japan/9U0036/2009_H5N2	GenBank		JX673923

Viral Name	Source	Accession number	Accession number
		HA segment	NA segment
A/Duck/Japan/9U0139/2009_H5N2	GenBank		JX673929
A/Duck/Japan/9U0025/2009_H5N2	GenBank		JX673936
A/Duck/Jiangsu/26/2004_H3N2	GenBank		KC261671
A/Mallard/Finland/13748/2007_H5N2	GenBank		KF183617
A/Mallard/Sweden/21/2002_H5N2	GenBank		KF695272
A/Chicken/New_Jersey/251-4/2008_H5N2	GenBank		KJ018202
A/Mallard/Sweden/274/2002_H4N2	GenBank		CY164218
A/Mallard/Sweden/906/2002_H4N2	GenBank		CY164258
A/Mallard/Sweden/1195/2002_H4N2	GenBank		CY164274
A/Mallard/Sweden/58359/2006_mixed	GenBank		CY165021
A/Mallard/Sweden/58463/2006_mixed	GenBank		CY165049
A/Mallard/Sweden/68504/2007_H4N2	GenBank		CY165100
A/Mallard/Netherlands/1/2007_H3N2	GenBank		CY043818
A/Eurasian_wigeon/Netherlands/3/2005_H9N2	GenBank		CY043858
A/Mallard/Sweden/58705/2006_H5N2	GenBank		CY184143
A/Mallard/Sweden/79196/2008_mixed	GenBank		CY184415
A/Migratory_duck/Jiangxi/10861/2005_H10N2	GenBank		KP287808
A/Duck/Nanchang/1749/1992_H11N2	GenBank		CY005532
A/Chicken/Korea/MS96/96_H9N2	GenBank		AF203786
A/Muskrat/Russia/63/2014_H2N2	GenBank		KR052706
A/Duck/Denmark/65047/04_H5N2	GenBank		DQ251448
A/Dk/Hong_Kong/293/1978_H7N2	GenBank		CY005620
A/Duck/Kingmen/E322/04_H6N2	GenBank		DQ376721
A/Ruddy_turnstone/Netherlands/1/2008_H10N4	GenBank		KR862686
A/Ruddy_turnstone/Netherlands/5/2008_H10N4	GenBank		KR862688
A/Ruddy_turnstone/Netherlands/1/2009_H10N4	GenBank		KR862689
A/Mallard/Netherlands/11/2006_H8N4	GenBank		KR862681
A/Mallard/Netherlands/13/2006_H8N4	GenBank		KR862682
A/Mallard/Netherlands/30/2011_H6N4	GenBank		KR862693
A/Ruddy_Turnstone/Delaware/67/98_H12N4	GISAID		EPI16616
A/Pintail/Alaska/314/2005_H12N4	GISAID		EPI307548
A/Blue-winged_teal/Guatemala/CIP049-04/2010_H8N4	GenBank		CY096650
A/Red_knot/Delaware_Bay/227/1994_mixed	GISAID		EPI345275
A/Shorebird/Delaware_Bay/215/1994_mixed	GISAID		EPI437174
A/Ruddy_turnstone/Delaware_Bay/124/1994_mixed	GISAID		EPI437442
A/Ruddy_turnstone/Delaware_Bay/150/1994_H1N4	GISAID		EPI437470
A/Mallard/Sweden/100546/2009_H8N4	GenBank		JX566224
A/Blue-winged_teal/ALB/685/1982_H6N4	GISAID		EPI85929
A/Mallard_duck/Alberta/299/1977_H4N4	GISAID		EPI87231
A/Mallard/Alberta/194/1992_H8N4	GISAID		EPI87925
A/Duck/Hokkaido/18/00_H10N4	GenBank		AB274042
A/Chicken/New_South_Wales/2/1997_H7N4	GenBank		CY022695
A/Chicken/New_South_Wales/327/1997_H7N4	GenBank		CY022703
A/Emu/New_South_Wales/775/1997_H7N4	GenBank		CY022711
A/Duck/Eastern_China/01/2005_H8N4	GenBank		EU429780
A/Mallard/Iran/V16/04_H8N4	GenBank		AM933239
A/Duck/Hubei/137/1985_H10N4	GenBank		EU559265
A/Mink/Sweden/3900/1984_H10N4	GenBank		GQ176142
A/Mallard/Gloucestershire/PD374/1985_H10N4	GenBank		GQ176126
A/Fowl/Hampshire/PD378/1985_H10N4	GenBank		GQ176118
A/Whistling_swan/Shimane/468/1988_H10N4	GenBank		GQ176110
A/Anas_plathyrhynchos/Spain/1495/2008_H10N4	GenBank		FN386476
A/Anas_plathyrhynchos/Spain/1502/2008_H8N4	GenBank		FN386477
A/Gray_teal/Western_Australia/1840/1979_H4N4	GenBank		CY045265
A/Chicken/NSW/1651/1997_H7N4	GenBank		GU053096
A/Mallard/Sweden/8/2003_H8N4	GenBank		CY060406
A/Mallard/PT/9408-3/2006_H9N4	GenBank		HM849002
A/Duck/Victoria/24/1981_H8N4	GenBank		CY094945
A/Teal/Chany/7119/2008_H15N4	GenBank		CY098542
A/Duck/Tsukuba/20/2007_H8N4	GenBank		AB669141
A/Duck/Thailand/CU-9754C/2010_H7N4	GenBank		JX307164
A/Duck/Thailand/CU-10524C/2011_H7N4	GenBank		JX307193
A/Duck/Thailand/CU-9744C_/2010_H7N4	GenBank		JX307210
A/Environment/Korea/PSC13-43/2008_H8N4	GenBank		JX679162
A/Mallard/Alberta/58/1989_H6N4	GenBank		CY126443
A/Ruddy_turnstone/Delaware/AI03-378/2003_H12N4	GenBank		CY144383
A/Duck/Thailand/CU-10510C/2011_H7N4	GenBank		KF591867
A/Mallard/Sweden/17/2002_H10N4	GenBank		KF695363
A/Mallard/Wisconsin/772/1982_H6N4	GenBank		CY178136
A/Duck/Wisconsin/2366/1985_N4	GenBank		CY177458

Viral Name	Source	Accession number	Accession number
		HA segment	NA segment
A/Mallard/Wisconsin/1360/1983_H7N4	GenBank		CY179525
A/Mallard/Sweden/396/2002_H10N4	GenBank		CY184618
A/Mallard_duck/ALB/7/1987_H8N4	GenBank		CY004998
A/Mallard_duck/ALB/581/1983_H4N4	GenBank		CY004813
A/Mallard/Netherlands/83/2008_H12N5	GenBank		KR862695
A/Eurasian_wigeon/Netherlands/2/2009_H12N5	GenBank		KR862696
A/Mallard/Netherlands/4/2011_H12N5	GenBank		KR862698
A/Mallard/Netherlands/13/2008_H4N5	GenBank		KR862699
A/Duck/Hokkaido/24/04_H10N5	GISAID		EPI160652
A/Mallard/Denmark/77-64590-5/2005_H7N5	GISAID		EPI174859
A/Mallard/California/6524/2008_H12N5	GISAID		EPI328292
A/Mallard/Alberta/220/2006_	GISAID		EPI343416
A/Mallard/Alberta/12/1993_	GISAID		EPI344668
A/Arenaria_interpres/Belgium/02936pcs1/2010_H12N5	GISAID		EPI345387
A/Mallard/Ohio/170/1999_H6N5	GISAID		EPI44086
A/Emperor_goose/Alaska/44064-075/2006_H2N5	GISAID		EPI442443
A/Mallard/Minnesota/182729/1998_H6N5	GISAID		EPI448392
A/Green-winged_teal/Minnesota/Sg-00820/2008_H4N5	GISAID		EPI449492
A/Ruddy_turnstone/New_Jersey/AI07-697/2007_H12N5	GISAID		EPI454987
A/Ruddy_turnstone/New_Jersey/AI07-803/2007_H12N5	GISAID		EPI455001
A/Mule_duck/Bulgaria/674/2010_H6N5	GISAID		EPI574266
A/Mallard/Alberta/202/1996_H2N5	GISAID		EPI85385
A/Pintail/Alberta/49/2003_H9N5	GISAID		EPI86317
A/Mallard/Alberta/52/1997_H12N5	GISAID		EPI86417
A/Green-winged_teal/ALB/199/1991_H12N5	GISAID		EPI88775
A/Duck/Hokkaido/66/01_H12N5	GenBank		AB270747
A/Duck/Hokkaido/1058/2001_H4N5	GenBank		AB270594
A/Chicken/Hubei/119/1983_H10N5	GenBank		EU559271
A/Duck/Tsukuba/11/2004_H6N5	GenBank		AB472026
A/Duck/Shiga/69/2006_H6N5	GenBank		AB472027
A/Anas_plathyrhynchos/Spain/1252/2007_H6N4	GenBank		FN386470
A/Mallard/Switzerland/WV4060167/2006_H3N5	GenBank		GQ415323
A/Duck/Yangzhou/013/2008_H6N5	GenBank		GU220601
A/Duck/Eastern_China/031/2009_H5N5	GenBank		GU272663
A/Duck/Eastern_China/008/2008_H5N5	GenBank		GU272655
A/Mallard/Netherlands/2/1999_H3N5	GenBank		CY060263
A/Black-headed_gull/Netherlands/1/2006_H4N5	GenBank		CY076994
A/Avian/Japan/8KI0040/2008_H3N5	GenBank		CY079277
A/Duck/Vietnam/G18/2009_H12N5	GenBank		AB593481
A/Duck/Mongolia/OIE-7457/2011_H3N5	GenBank		AB701297
A/Goose/Guangdong/K0103/2010_H5N5	GenBank		JQ973688
A/Quail/Jiangsu/K0104/2010_H5N5	GenBank		JQ973680
A/Mallard/Sweden/30/2002_H2N5	GenBank		CY122069
A/Duck/Guangxi/GXd-1/2009_H6N5	GenBank		JX293561
A/Aquatic_bird/Korea/CN5/2009_H6N5	GenBank		JX465642
A/Swine/Hubei/10/2008_H10N5	GenBank		JX500445
A/Mallard/Sweden/100127/2009_H12N5	GenBank		JX566221
A/Wild_duck/Korea/SH12-7/2008_H10N5	GenBank		JX679163
A/Duck/HuBei/03/2010_H5N5	GenBank		JX878685
A/Ruddy_turnstone/Delaware_Bay/118/2007_mixed	GenBank		CY127777
A/Duck/Vietnam/OIE-707/2011_H11N5	GenBank		AB781683
A/Mallard/Astrakhan/263/1982_H14N5	GenBank		AB289336
A/Ruddy_turnstone/New_Jersey/AI07-796/2007_H12N5	GenBank		CY144725
A/Mallard/Finland/10952/2008_H4N5	GenBank		KF183615
A/Black-headed_gull/Iceland/1298/2011_H10N5	GenBank		CY149486
A/Duck/Guangdong/Wy11/2008_H5N5	GenBank		CY091629
A/Duck/Guangdong/Wy19/2008_H5N5	GenBank		CY091637
A/Duck/Guangdong/Wy24/2008_H5N5	GenBank		CY091645
A/Mallard/Sweden/50709/2006_H4N5	GenBank		CY164570
A/Mallard/Sweden/343/2002_H12N5	GenBank		CY184001
A/Mallard/Sweden/2213/2003_H12N5	GenBank		CY184025
A/Mallard/Sweden/3328/2003_H12N5	GenBank		CY184033
A/Mallard/Sweden/50968/2006_H12N5	GenBank		CY184041
A/Mallard/Sweden/60069/2007_H12N5	GenBank		CY184049
A/Mallard/Sweden/68529/2007_H12N5	GenBank		CY184057
A/Black-headed_gull/Republic_of_Georgia/9/2012_H2N5	GenBank		CY185619
A/Mallard/Sweden/79389/2008_mixed	GenBank		CY186278
A/Mallard/Sweden/80329/2008_H11N5	GenBank		CY186398
A/Mallard/Alberta/26/2001_mixed	GenBank		CY185798
A/Migratory_duck/Jiangxi/31454/2013_H10N5	GenBank		KP284895

Viral Name	Source	Accession number	Accession number
		HA segment	NA segment
A/Migratory_duck/Jiangxi/31577/2013_H10N5	GenBank		KP285887
A/Migratory_duck/Jiangxi/7231/2003_H10N5	GenBank		KP288024
A/Black_duck/AUS/4045/1980_H6N5	GenBank		CY005693
A/Mallard/Netherlands/2/2007_H10N7	GenBank		KR862705
A/Mallard/Netherlands/3/2007_H10N7	GenBank		KR862706
A/Northern_shoveler/Egypt/EMC-4/2012_H10N7	GenBank		KR862401
A/Mallard/Netherlands/68/2008_H10N7	GenBank		KR862712
A/Mallard/Netherlands/3/2009_H7N7	GenBank		KR862718
A/Mallard/Netherlands/7/2009_H7N7	GenBank		KR862721
A/Mallard/Netherlands/21/2010_H10N7	GenBank		KR862723
A/Mallard/Netherlands/22/2010_H10N7	GenBank		KR862724
A/Mallard/Netherlands/23/2010_H10N7	GenBank		KR862725
A/Northern_shoveler/Egypt/EMC-2/2012_H10N7	GenBank		KR862402
A/Mallard/Netherlands/73/2008_H10N7	GenBank		KR862733
A/Mallard/Netherlands/74/2008_H10N7	GenBank		KR862734
A/Mallard/Netherlands/15/2013_H7N7	GenBank		KR862742
A/Mallard/Poland/16/09_H7N7	GISAID		EPI254380
A/Turkey/Netherlands/03003568/03_H7N7	GISAID		EPI290239
A/Chicken/Germany/R1801/2011_H7N7	GISAID		EPI356304
A/Turkey/Germany/R1775/2011_H7N7	GISAID		EPI356305
A/Turkey/Germany-NI/R534/2013_H7N7	GISAID		EPI470367
A/Duck/Mongolia/583/02_H4N7	GenBank		AB289334
A/Anser_anser/Germany/R752/06_H7N7	GenBank		AM933236
A/Anas_crecca/Germany/Wv177/05_H7N7	GenBank		AM933237
A/Whooper_swan/Norway/10_438/2006_H7N7	GenBank		FM179762
A/Duck/Hokkaido/W90/2007_H10N7	GenBank		AB450445
A/Duck/Taiwan/4201/99_H7N7	GenBank		AB450450
A/Mallard/Korea/GH170/2007_H7N7	GenBank		FJ750866
A/Magpie/Korea/YJD174/2007_H7N7	GenBank		FJ750856
A/Mallard/Sweden/S90735/2003_H7N7	GenBank		FJ803183
A/Mallard/Korea/GH171/2007_H7N7	GenBank		FJ959088
A/Duck/Shimane/18/2006_H7N7	GenBank		AB472030
A/Duck/Shiga/B149/2007_H7N7	GenBank		AB472031
A/Duck/Tsukuba/664/2007_H7N7	GenBank		AB472059
A/Duck/Tsukuba/922/2008_H7N7	GenBank		AB472060
A/Duck/Chiba/13/2008_H7N7	GenBank		AB472061
A/Duck/Tsukuba/30/2007_H7N7	GenBank		AB472063
A/Northern_pintail/Aomori/372/2008_H7N7	GenBank		AB516423
A/Northern_pintail/Aomori/1001/2008_H7N7	GenBank		AB517633
A/Northern_pintail/Akita/1366/2008_H7N7	GenBank		AB517634
A/Northern_pintail/Akita/1367/2008_H7N7	GenBank		AB517636
A/Mallard/PT/14683/2006_H6N7	GenBank		HM849014
A/Chicken/Netherlands/1/2003_H7N7	GenBank		AY340077
A/Netherlands/219/03_H7N7	GenBank		AY340079
A/King_eider/Alaska/44068-067/2006_H4N7	GenBank		JX081153
A/Mallard/Sweden/109/2002_H2N7	GenBank		CY122033
A/Mallard/Sweden/112/2002_H2N7	GenBank		CY122049
A/Mallard/Sweden/9/2003_H2N7	GenBank		CY122141
A/Chicken/Germany/R28/03_H7N7	GenBank		AJ620349
A/Mallard/Portugal/79905/2009_H10N7	GenBank		CY116607
A/Mallard/Korea/GG2/2007_H7N7	GenBank		KC609788
A/Wild_bird_feces/Korea/HDR22/2006_H7N7	GenBank		KC609785
A/Wild_duck/Korea/MHC40-28/2010_H7N7	GenBank		KC609802
A/Mallard/Korea/NHG187/2008_H7N7	GenBank		KC609794
A/Wild_bird_feces/Korea/HDR23/2006_H7N7	GenBank		KC609786
A/Mallard/64650/03_H5N7	GenBank		AY531030
A/Wild_goose/Dongting/PC0360/2012_H7N7	GenBank		KC876685
A/Duck/Fukui/1/2004_H7N7	GenBank		AB824727
A/Turkey/Ireland/PV8/1995_H7N7	GenBank		KF160885
A/Environment/Hunan/S4484/2011_H12N7	GenBank		CY146766
A/Duck/Fujian/5408/2008_H7N7	GenBank		KF259621
A/Duck/Fujian/5476/2008_H7N7	GenBank		KF259622
A/Duck/Jiangxi/16309/2010_H7N7	GenBank		KF259628
A/Duck/Jiangxi/16326/2010_H7N7	GenBank		KF259629
A/Duck/Jiangxi/16769/2010_H7N7	GenBank		KF259630
A/Duck/Jiangxi/21980/2010_H7N7	GenBank		KF259631
A/Duck/Jiangxi/1717/2003_H7N7	GenBank		KF259633
A/Duck/Jiangxi/1748/2003_H7N7	GenBank		KF259634
A/Common_teal/Hong_Kong/MPM1670/2011_H7N7	GenBank		KF259636
A/Common_teal/Hong_Kong/MPL634/2011_H7N7	GenBank		KF259637

Viral Name	Source	Accession number	Accession number
		HA segment	NA segment
A/Common_teal/Hong_Kong/MPM1740/2011_H7N7	GenBank		KF259638
A/Wild_waterfowl/Hong_Kong/MPL705/2011_H7N7	GenBank		KF259639
A/Wild_waterfowl/Hong_Kong/MPM2121/2011_H7N7	GenBank		KF259640
A/Wild_waterfowl/Hong_Kong/MPL1006/2011_H7N7	GenBank		KF259641
A/Mallard/Sweden/105/2002_H7N7	GenBank		KF695338
A/Mallard/Sweden/7206/2004_H7N7	GenBank		CY183419
A/Mallard/Sweden/124987/2010_H7N7	GenBank		CY183435
A/Mallard/Sweden/6148/2005_H10N7	GenBank		CY183704
A/Mallard/Sweden/885/2002_H7N7	GenBank		CY184506
A/Mallard/Sweden/1337/2002_H7N7	GenBank		CY184514
A/Mallard/Sweden/1645/2002_H7N7	GenBank		CY184522
A/Mallard/Sweden/5944/2005_H7N7	GenBank		CY184586
A/Mallard/Republic_of_Georgia/1/2010_H10N7	GenBank		CY185419
A/Domestic_duck/Republic_of_Georgia/1/2010_H10N7	GenBank		CY185451
A/Domestic_duck/Republic_of_Georgia/2/2010_H10N7	GenBank		CY185459
A/Black-headed_gull/Republic_of_Georgia/7/2012_H2N7	GenBank		CY185651
A/Black-headed_gull/Republic_of_Georgia/8/2012_H2N7	GenBank		CY185699
A/Mallard/Sweden/1628/2002_H7N7	GenBank		CY186302
A/Mallard/Sweden/1671/2002_H7N7	GenBank		CY186310
A/Mallard/Sweden/1678/2002_H7N7	GenBank		CY186318
A/Mallard/Sweden/1682/2002_H7N7	GenBank		CY186334
A/Mallard/Sweden/1448/2002_H7N7	GenBank		CY186416
A/Ruddy_turnstone/Iceland/1946/2012_H2N7	GenBank		KM213382
A/Duck/Jiangxi/5879/2008_mixed	GenBank		KP287687
A/Duck/Jiangxi/1410/2008_H10N7	GenBank		KP287896
A/Duck/Jiangxi/1591/2008_H10N7	GenBank		KP287912
A/Chicken/Jiangxi/10784/2014_H7N7	GenBank		KP414901
A/Wild_bird/Jiangxi/34458/2013_H7N7	GenBank		KP417105
A/Wild_bird/Jiangxi/35982/2013_H7N7	GenBank		KP417121