

Table S1. The original set of all full genome influenza A sequences.

A/mallard/ALB/5/1995(H10N1)
A/blue-winged teal/ALB/778/1978(H10N3)
A/mallard duck/ALB/40/1984(H10N6)
A/pintail duck/ALB/584/1984(H10N6)
A/pintail duck/ALB/303/1977(H10N7)
A/mallard duck/ALB/302/1977(H10N7)
A/pintail/Alberta/129/1993(H10N7)
A/mallard/ALB/196/1996(H10N7)
A/pintail/Alberta/202/2000(H10N7)
A/mallard/Alberta/208/2000(H10N7)
A/mallard/Alberta/209/2003(H10N7)
A/chicken/Germany/N/1949(H10N7)
A/mallard duck/Minnesota/19/1979(H10N7)
A/mallard/Ohio/99/1989(H10N7)
A/mallard/Ohio/122/1989(H10N7)
A/shorebird/DE/122/2004(H10N7)
A/quail/Italy/1117/1965(H10N8)
A/common scoter/Maryland/297/2005(H10N8)
A/duck/Hong Kong/562/1979(H10N9)
A/Black Duck/Ohio/194/1986(H11N1)
A/mallard/Ohio/1851/2005(H11N1)
A/mallard/ALB/124/1991(H11N2)
A/bufflehead/Ohio/246/1986(H11N2)
A/green-winged teal/Ohio/81/1999(H11N2)
A/green-winged teal/Ohio/1747/2005(H11N2)
A/mallard duck/ALB/797/1983(H11N3)
A/mallard/Ohio/102/1986(H11N3)
A/mallard/Ohio/94/1993(H11N3)
A/mallard/Missouri/MO130/2005(H11N3)
A/duck/England/1/1956(H11N6)
A/sharp-tailed sandpiper/Australia/6/2004(H11N9)
A/mallard duck/ALB/294/1977(H11N9)
A/redhead duck/Alberta/357/1983(H11N9)
A/pintail/Alberta/84/2000(H11N9)
A/shoveler/Netherlands/19/1999(H11N9)
A/mallard duck/Tennessee/11457/1985(H11N9)
A/Black Duck/Ohio/239/1986(H11N9)
A/green-winged teal/Ohio/397/1986(H11N9)
A/mallard/Ohio/568/1987(H11N9)
A/mallard/Ohio/399/1987(H11N9)
A/green-winged teal/Ohio/496/1987(H11N9)
A/green-winged teal/Ohio/340/1987(H11N9)
A/mallard/Ohio/173/1990(H11N9)
A/blue-winged teal/Ohio/101/1993(H11N9)
A/blue-winged teal/Ohio/96/1993(H11N9)
A/mallard/Ohio/209/1998(H11N9)
A/black duck/Ohio/161/1999(H11N9)
A/shorebird/DE/236/2003(H11N9)

A/green-winged teal/Ohio/1844/2005(H11N9)
A/american black duck/Ohio/1823/2005(H11N9)
A/mallard/Maryland/1124/2005(H11N9)
A/mallard/Missouri/MO32/2005(H11N9)
A/mallard duck/Alberta/342/1983(H12N1)
A/green-winged teal/ALB/199/1991(H12N5)
A/mallard/Alberta/52/1997(H12N5)
A/pintail/Alberta/49/2003(H12N5)
A/mallard/Ohio/407/1987(H12N5)
A/mallard/Ohio/409/1988(H12N5)
A/ruddy turnstone/DE/97/2000(H12N5)
A/pintail/Alaska/20/2005(H12N5)
A/pintail/Alaska/102/2005(H12N5)
A/mallard/Maryland/1135/2005(H12N5)
A/mallard/Maryland/1153/2005(H12N5)
A/mallard/Maryland/1131/2005(H12N5)
A/herring gull/DE/475/1986(H13N2)
A/herring gull/NJ/782/1986(H13N2)
A/laughing gull/DE/2838/1987(H13N2)
A/duck/Siberia/272/1998(H13N6)
A/duck/Siberia/272PF/1998(H13N6)
A/gull/Maryland/704/1977(H13N6)
A/gull/Minnesota/945/1980(H13N6)
A/shorebird/DE/68/2004(H13N9)
A/wedge-tailed shearwater/Western Australia/2576/1979(H15N9)
A/sooty tern/Western Australia/2190/1983(H15N9)
A/wedge-tailed shearwater/Western Australia/2327/1983(H15N9)
A/herring gull/Delaware/712/1988(H16N3)
A/shorebird/Delaware/168/06(H16N3)
A/mallard duck/ALB/46/1977(H1N1)
A/pintail duck/ALB/219/1977(H1N1)
A/mallard duck/ALB/127/1977(H1N1)
A/pintail duck/ALB/238/1979(H1N1)
A/mallard duck/ALB/965/1979(H1N1)
A/mallard duck/ALB/322/1988(H1N1)
A/blue-winged teal/Alberta/141/1992(H1N1)
A/mallard/ALB/201/1998(H1N1)
A/pintail duck/Alberta/210/2002(H1N1)
A/pigeon/MN/1407/1981(H1N1)
A/mallard/Tennessee/11464/1985(H1N1)
A/green-winged teal/Ohio/430/1987(H1N1)
A/mallard/Ohio/171/1990(H1N1)
A/black duck/Ohio/95/1993(H1N1)
A/mallard/Ohio/118/1993(H1N1)
A/duck/NY/13152-13/1994(H1N1)
A/duck/NJ/7717-70/1995(H1N1)
A/mallard/Ohio/56/1999(H1N1)
A/mallard/Ohio/66/1999(H1N1)
A/green-winged teal/Ohio/72/1999(H1N1)
A/pintail/Ohio/25/1999(H1N1)

A/mallard/MD/161/2002(H1N1)
A/mallard/MD/163/2002(H1N1)
A/mallard/MD/168/2002(H1N1)
A/mallard/MD/170/2002(H1N1)
A/mallard/MD/369/2002(H1N1)
A/mallard/MD/382/2002(H1N1)
A/mallard/MD/390/2002(H1N1)
A/mallard/MD/403/2002(H1N1)
A/mallard/MD/406/2002(H1N1)
A/mallard duck/New York/170/1982(H1N2)
A/mallard duck/New York/6861/1978(H1N5)
A/mallard/Alberta/42/1977(H1N6)
A/blue-winged teal/Ohio/907/2002(H1N6)
A/mallard/Ohio/265/1987(H1N9)
A/semi-palmated sandpiper/Brazil/43/1990(H2N1)
A/mallard duck/Alberta/323/1988(H2N1)
A/mallard/Ohio/30/1986(H2N1)
A/green-winged teal/Ohio/175/1986(H2N1)
A/mallard/Ohio/37/1986(H2N1)
A/herring gull/DE/698/1988(H2N1)
A/ruddy turnstone/Delaware/34/1993(H2N1)
A/mallard/Postdam/178-4/83(H2N2)
A/mallard/Postdam/178-4/83(H2N2)
A/duck/Hong Kong/319/1978(H2N2)
A/chicken/New York/13828-3/1995(H2N2)
A/guinea fowl/New York/20221-11/1995(H2N2)
A/mallard/Alberta/77/1977(H2N3)
A/mallard duck/ALB/376/1985(H2N3)
A/mallard duck/ALB/353/1988(H2N3)
A/mallard/ALB/201/1996(H2N3)
A/mallard/ALB/205/1998(H2N3)
A/mallard/ALB/226/1998(H2N3)
A/mallard/Alberta/79/2003(H2N3)
A/duck/Germany/1215/1973(H2N3)
A/mallard/Alberta/149/2002(H2N4)
A/mallard/Alberta/884/1984(H2N5)
A/mallard/Alberta/202/1996(H2N5)
A/sanderling/NJ/766/1986(H2N7)
A/laughing gull/NJ/798/1986(H2N7)
A/herring gull/Delaware/471/1986(H2N7)
A/herring gull/DE/703/1988(H2N8)
A/herring gull/DE/692/1988(H2N8)
A/pintail/Alberta/293/1977(H2N9)
A/blue-winged teal/ALB/16/1997(H2N9)
A/duck/Nanchang/2-0486/2000(H2N9)
A/duck/Nanchang/4-184/2000(H2N9)
A/duck/Hong Kong/278/1978(H2N9)
A/laughing gull/NJ/75/1985(H2N9)
A/mallard duck/ALB/26/1976(H3N1)
A/blue-winged teal/ALB/452/1983(H3N1)

A/mallard/Ohio/181/1986(H3N1)
A/pintail duck/ALB/86/1976(H3N2)
A/turkey/Ontario/31232/2005(H3N2)
A/duck/Hong Kong/7/1975(H3N2)
A/mallard/Ohio/48/1986(H3N2)
A/mallard/Ohio/424/1988(H3N2)
A/blue-winged teal/Ohio/31/1999(H3N2)
A/blue-winged teal/Ohio/908/2002(H3N2)
A/turkey/Illinois/2004(H3N2)
A/mallard/Maryland/681/2005(H3N2)
A/mallard/Maryland/691/2005(H3N2)
A/mallard/Maryland/631/2005(H3N2)
A/mallard/Maryland/615/2005(H3N2)
A/mallard/Maryland/710/2005(H3N2)
A/mallard/Maryland/712/2005(H3N2)
A/mallard/Maryland/708/2005(H3N2)
A/mallard duck/ALB/712/1978(H3N3)
A/mallard/ALB/394/1988(H3N3)
A/mallard duck/ALB/635/1983(H3N5)
A/mallard/ALB/118/1995(H3N5)
A/mallard duck/ALB/676/1979(H3N6)
A/pintail duck/ALB/462/1979(H3N6)
A/mallard duck/Alberta/331/1985(H3N6)
A/chicken/Nanchang/7-010/2000(H3N6)
A/quail/Nanchang/7-026/2000(H3N6)
A/mallard/Ohio/156/1990(H3N6)
A/pintail/Alaska/53/2005(H3N6)
A/mallard/Ohio/1717/2005(H3N6)
A/shearwater/Australia/405/1978(H3N8)
A/black duck/AUS/751/1978(H3N8)
A/black duck/Western Australia/4954/1983(H3N8)
A/red-necked stint/Western Australia/4923/1983(H3N8)
A/red-necked stint/Western Australia/4500/1984(H3N8)
A/mallard duck/ALB/564/1979(H3N8)
A/green-winged teal/ALB/438/1979(H3N8)
A/pintail duck/ALB/169/1980(H3N8)
A/mallard duck/ALB/525/1985(H3N8)
A/blue-winged teal/ALB/569/1985(H3N8)
A/mallard/Alberta/156/2001(H3N8)
A/duck/Nanchang/1681/1992(H3N8)
A/Duck/Hokkaido/8/80 (H3N8)
A/duck/Chabarovsk/1610/1972 (H3N8)
A/mallard/Ohio/264/1986(H3N8)
A/northern shoveler/Ohio/35/1986(H3N8)
A/pintail/Ohio/454/1987(H3N8)
A/green-winged teal/Ohio/466/1987(H3N8)
A/northern shoveler/Ohio/454/1987(H3N8)
A/pintail/Ohio/339/1987(H3N8)
A/blue-winged teal/Ohio/926/2002(H3N8)
A/mallard/Ohio/654/2002(H3N8)

A/mallard/Ohio/649/2002(H3N8)
A/mallard/Alaska/256/2005(H3N8)
A/pintail/Alaska/279/2005(H3N8)
A/pintail/Alaska/211/2005(H3N8)
A/mallard/Alaska/715/2005(H3N8)
A/pintail/Alaska/779/2005(H3N8)
A/longtail duck/Maryland/291/2005(H3N8)
A/pintail/Alaska/49/2005(H3N8)
A/green-winged teal/Ohio/1289/2005(H3N8)
A/mallard/Ohio/1801/2005(H3N8)
A/duck/Ukraine/1/1963(H3N8)
A/mallard duck/ALB/291/1977(H4N1)
A/mallard/ALB/47/1998(H4N1)
A/mallard duck/ALB/354/1978(H4N2)
A/mallard duck/ALB/106/1979(H4N2)
A/blue-winged teal/ALB/580/1979(H4N2)
A/pintail duck/ALB/599/1979(H4N2)
A/mallard duck/ALB/630/1984(H4N2)
A/duck/Hong Kong/24/1976(H4N2)
A/turkey/Minnesota/833/1980(H4N2)
A/green-winged teal/Ohio/344/1986(H4N2)
A/mallard/Ohio/275/1987(H4N2)
A/mallard/Ohio/97/1989(H4N2)
A/mallard/Ohio/686/2002(H4N2)
A/mallard/Alberta/300/1977(H4N3)
A/blue-winged teal/ALB/136/1990(H4N3)
A/pintail duck/New York/155/1982(H4N3)
A/gray teal/Australia/2/1979(H4N4)
A/canvasback duck/ALB/274/1977(H4N6)
A/gadwall duck/ALB/53/1977(H4N6)
A/redhead duck/ALB/74/1977(H4N6)
A/blue-winged teal/ALB/243/1977(H4N6)
A/mallard duck/ALB/161/1977(H4N6)
A/pintail duck/ALB/623/1985(H4N6)
A/blue-winged teal/ALB/293/1994(H4N6)
A/mallard/ALB/49/1995(H4N6)
A/pintail/Alberta/269/2001(H4N6)
A/blue-winged teal/Alberta/293/2003(H4N6)
A/duck/Nanchang/4-165/2000(H4N6)
A/duck/Czechoslovakia/1956(H4N6)
A/duck/Hong Kong/365/1978(H4N6)
A/duck/Shiga/8/2004(H4N6)
A/ruddy turnstone/NJ/47/1985(H4N6)
A/mallard/Ohio/83/1986(H4N6)
A/mallard/Ohio/298/1987(H4N6)
A/ruddy turnstone/DE/512/1988(H4N6)
A/mallard/Ohio/324/1988(H4N6)
A/mallard/Ohio/129/1989(H4N6)
A/mallard/Ohio/178/1990(H4N6)
A/mallard/Ohio/657/2002(H4N6)

A/mallard/Ohio/667/2002(H4N6)
A/mallard/Maryland/750/2002(H4N6)
A/blue-winged teal/Ohio/989/2002(H4N6)
A/mallard/Ohio/655/2002(H4N6)
A/mallard/Ohio/668/2002(H4N6)
A/mallard/Ohio/671/2002(H4N6)
A/pintail/Alaska/310/2005(H4N6)
A/blue-winged teal/Ohio/1339/2005(H4N6)
A/green-winged teal/Ohio/1324/2005(H4N6)
A/mallard/Maryland/1241/2005(H4N6)
A/green-winged teal/Ohio/1292/2005(H4N6)
A/white-winged scoter/Maryland/301/2005(H4N6)
A/green-winged teal/Ohio/1324/2005(H4N6)
A/green-winged teal/Ohio/1292/2005(H4N6)
A/duck/Victoria/5384/2002(H4N8)
A/red-necked stint/Australia/2/2004(H4N8)
A/mallard duck/ALB/210/1977(H4N8)
A/pintail duck/ALB/220/1977(H4N8)
A/mallard/Alberta/30/2001(H4N8)
A/mallard duck/New York/194/1982(H4N8)
A/mallard/Ohio/338/1986(H4N8)
A/black duck/Maryland/834/2002(H4N8)
A/mallard duck/New York/180/1986(H4N9)
A/chicken/Afghanistan/1207/2006(H5N1)
A/chicken/Afghanistan/1573-47/2006(H5N1)
A/chicken/Afghanistan/1573-65/2006(H5N1)
A/chicken/Afghanistan/1573-92/2006(H5N1)
A/chicken/Afghanistan/1573-7/2006(H5N1)
A/crested eagle/Belgium/01/2004(H5N1)
A/chicken/Burkina Faso/1347-16/2006(H5N1)
A/guinea fowl/Burkina Faso/1347-20/2006(H5N1)
A/Goose/Guangdong/1/96(H5N1)
A/chicken/Hubei/wj/1997(H5N1)
A/goose/Guangdong/3/1997(H5N1)
A/Duck/Anyang/AVL-1/2001(H5N1)
A/chicken/Hebei/718/2001(H5N1)
A/duck/Guangxi/xa/2001(H5N1)
A/goose/Guangdong/xb/2001(H5N1)
A/chicken/Hebei/108/02(H5N1)
A/chicken/Jiangsu/cz1/2002(H5N1)
A/chicken/Jilin/hd/2002(H5N1)
A/duck/Shanghai/xj/2002(H5N1)
A/duck/Zhejiang/bj/2002(H5N1)
A/chicken/Jilin/xw/2003(H5N1)
A/duck/China/E319-2/03(H5N1)
A/duck/Hubei/wp/2003(H5N1)
A/goose/Fujian/bb/2003(H5N1)
A/goose/Jilin/hb/2003(H5N1)
A/chicken/Guangdong/174/04(H5N1)
A/chicken/Guangdong/178/04(H5N1)

A/chicken/Guangdong/191/04(H5N1)
A/chicken/Henan/12/2004(H5N1)
A/chicken/Henan/13/2004(H5N1)
A/chicken/Henan/16/2004(H5N1)
A/chicken/Henan/wu/2004(H5N1)
A/chicken/Hubei/327/2004(H5N1)
A/chicken/Jilin/9/2004(H5N1)
A/duck/Guangdong/173/04(H5N1)
A/mallard/Guangxi/wt/2004(H5N1)
A/swan/Guangxi/307/2004(H5N1)
A/chicken/Henan/01/2004(H5N1)
A/Bar-headed Goose/Qinghai/12/05(H5N1)
A/Bar-headed Goose/Qinghai/5/05(H5N1)
A/Bar-headed Goose/Qinghai/59/05(H5N1)
A/Bar-headed Goose/Qinghai/60/05(H5N1)
A/Bar-headed Goose/Qinghai/61/05(H5N1)
A/Bar-headed Goose/Qinghai/62/05(H5N1)
A/Bar-headed Goose/Qinghai/65/05(H5N1)
A/Bar-headed Goose/Qinghai/67/05(H5N1)
A/Bar-headed Goose/Qinghai/68/05(H5N1)
A/Bar-headed Goose/Qinghai/75/05(H5N1)
A/Brown-headed Gull/Qinghai/3/05(H5N1)
A/Great Black-headed Gull/Qinghai/2/05(H5N1)
A/chicken/Fujian/10039/2005(H5N1)
A/chicken/Fujian/11933/2005(H5N1)
A/chicken/Fujian/12239/2005(H5N1)
A/chicken/Fujian/9821/2005(H5N1)
A/chicken/Guangxi/3154/2005(H5N1)
A/chicken/Guangxi/3791/2005(H5N1)
A/chicken/Guangxi/4989/2005(H5N1)
A/chicken/Guiyang/2147/2005(H5N1)
A/chicken/Guiyang/2173/2005(H5N1)
A/chicken/Guiyang/3055/2005(H5N1)
A/chicken/Guiyang/3570/2005(H5N1)
A/chicken/Guiyang/3721/2005(H5N1)
A/chicken/Guiyang/4059/2005(H5N1)
A/chicken/Hebei/326/2005(H5N1)
A/duck/Fujian/10934/2005(H5N1)
A/duck/Fujian/11094/2005(H5N1)
A/duck/Fujian/11311/2005(H5N1)
A/duck/Fujian/12032/2005(H5N1)
A/duck/Fujian/9651/2005(H5N1)
A/duck/Fujian/9713/2005(H5N1)
A/duck/Guangxi/2775/2005(H5N1)
A/duck/Guangxi/3085/2005(H5N1)
A/duck/Guangxi/3364/2005(H5N1)
A/duck/Guangxi/3548/2005(H5N1)
A/duck/Guangxi/3741/2005(H5N1)
A/duck/Guangxi/3819/2005(H5N1)
A/duck/Guangxi/4016/2005(H5N1)

A/duck/Guangxi/4184/2005(H5N1)
A/duck/Guangxi/4196/2005(H5N1)
A/duck/Guangxi/4428/2005(H5N1)
A/duck/Guangxi/4665/2005(H5N1)
A/duck/Guangxi/4830/2005(H5N1)
A/duck/Guangxi/5165/2005(H5N1)
A/duck/Guangxi/5270/2005(H5N1)
A/duck/Guangxi/5457/2005(H5N1)
A/duck/Guiyang/2231/2005(H5N1)
A/duck/Guiyang/3242/2005(H5N1)
A/duck/Guiyang/3834/2005(H5N1)
A/duck/Guiyang/3996/2005(H5N1)
A/duck/Hunan/5106/2005(H5N1)
A/duck/Hunan/5152/2005(H5N1)
A/duck/Shantou/13323/2005(H5N1)
A/duck/Yunnan/4589/2005(H5N1)
A/duck/Yunnan/5236/2005(H5N1)
A/duck/Yunnan/5251/2005(H5N1)
A/duck/Yunnan/5877/2005(H5N1)
A/goose/Guangxi/3017/2005(H5N1)
A/goose/Guangxi/3316/2005(H5N1)
A/goose/Guangxi/4289/2005(H5N1)
A/goose/Guangxi/4513/2005(H5N1)
A/goose/Guangxi/5414/2005(H5N1)
A/goose/Guiyang/3422/2005(H5N1)
A/goose/Yunnan/3315/2005(H5N1)
A/goose/Yunnan/4129/2005(H5N1)
A/goose/Yunnan/4494/2005(H5N1)
A/goose/Yunnan/4804/2005(H5N1)
A/goose/Yunnan/6027/2005(H5N1)
A/Guinea fowl/Shantou/1341/2006(H5N1)
A/chicken/Fujian/584/2006(H5N1)
A/chicken/Guangxi/1951/2006(H5N1)
A/chicken/Guangxi/463/2006(H5N1)
A/chicken/Guiyang/29/2006(H5N1)
A/chicken/Guiyang/441/2006(H5N1)
A/chicken/Shantou/1233/2006(H5N1)
A/chicken/Shantou/3840/2006(H5N1)
A/chicken/Shantou/3923/2006(H5N1)
A/chicken/Shanxi/2/2006(H5N1)
A/duck/Fujian/668/2006(H5N1)
A/duck/Fujian/671/2006(H5N1)
A/duck/Guangxi/150/2006(H5N1)
A/duck/Guangxi/1830/2006(H5N1)
A/duck/Guangxi/2143/2006(H5N1)
A/duck/Guangxi/288/2006(H5N1)
A/duck/Guangxi/392/2006(H5N1)
A/duck/Guangxi/744/2006(H5N1)
A/duck/Guangxi/804/2006(H5N1)
A/duck/Guangxi/89/2006(H5N1)

A/duck/Guiyang/293/2006(H5N1)
A/duck/Guiyang/497/2006(H5N1)
A/duck/Hunan/324/2006(H5N1)
A/duck/Hunan/344/2006(H5N1)
A/duck/Hunan/856/2006(H5N1)
A/duck/Hunan/988/2006(H5N1)
A/goose/Guangxi/1458/2006(H5N1)
A/goose/Guangxi/1633/2006(H5N1)
A/goose/Guangxi/1898/2006(H5N1)
A/goose/Guangxi/224/2006(H5N1)
A/goose/Guangxi/532/2006(H5N1)
A/goose/Guangxi/582/2006(H5N1)
A/goose/Guiyang/337/2006(H5N1)
A/goose/Shantou/2086/2006(H5N1)
A/goose/Shantou/239/2006(H5N1)
A/goose/Shantou/3265/2006(H5N1)
A/goose/Shantou/3295/2006(H5N1)
A/pheasant/Shantou/2239/2006(H5N1)
A/duck/Cote d'Ivoire/1787-18/2006(H5N1)
A/chicken/Cote d'Ivoire/1787-34/2006(H5N1)
A/turkey/Ivory Coast/4372-2/2006(H5N1)
A/turkey/Ivory Coast/4372-3/2006(H5N1)
A/turkey/Ivory Coast/4372-4/2006(H5N1)
A/chicken/Ivory Coast/1787-35/2006(H5N1)
A/cygnus olor/Croatia/1/2005(H5N1)
A/buzzard/Denmark/6370/06(H5N1)
A/grey lag goose/Denmark/6692/06(H5N1)
A/peacock/Denmark/60295/06(H5N1)
A/peregrine/Denmark/6632/06(H5N1)
A/tufted duck/Denmark/6431/06(H5N1)
A/tufted duck/Denmark/6540/06(H5N1)
A/whooper swan/Denmark/7224/06(H5N1)
A/whooper swan/Denmark/7275/06(H5N1)
A/chicken/Egypt/3/2006(H5N1)
A/duck/Egypt/2253-3/2006(H5N1)
A/chicken/Egypt/2253-1/2006(H5N1)
A/turkey/Egypt/2253-2/2006(H5N1)
A/Chicken/Hong Kong/258/97 (H5N1)
A/Chicken/Hong Kong/786/97 (H5N1)
A/Duck/Hong Kong/p46/97 (H5N1)
A/Goose/Hong Kong/w355/97 (H5N1)
A/Chicken/Hong Kong/728/97 (H5N1)
A/Environment/Hong Kong/437-10/99 (H5N1)
A/Environment/Hong Kong/437-4/99 (H5N1)
A/Environment/Hong Kong/437-6/99 (H5N1)
A/Environment/Hong Kong/437-8/99 (H5N1)
A/peregrine falcon/HK/D0028/2004(H5N1)
A/Japanese white-eye/Hong Kong/1038/2006(H5N1)
A/chicken/Hong Kong/282/2006(H5N1)
A/chicken/Hong Kong/947/2006(H5N1)

A/common magpie/Hong Kong/2125/2006(H5N1)
A/common magpie/Hong Kong/2256/2006(H5N1)
A/common magpie/Hong Kong/3033/2006(H5N1)
A/common magpie/Hong Kong/645/2006(H5N1)
A/crested myna/Hong Kong/540/2006(H5N1)
A/large-billed crow/Hong Kong/2512/2006(H5N1)
A/little egret/Hong Kong/718/2006(H5N1)
A/munia/Hong Kong/2454/2006(H5N1)
A/white-backed munia/Hong Kong/2469/2006(H5N1)
A/Ck/Indonesia/BL/2003(H5N1)
A/Ck/Indonesia/PA/2003(H5N1)
A/Dk/Indonesia/MS/2004(H5N1)
A/chicken/Dairi/BPPVI/2005(H5N1)
A/chicken/Deli Serdang/BPPVI/2005(H5N1)
A/chicken/Gunung Kidal/BBVW/2005(H5N1)
A/chicken/Indonesia/CDC25/2005(H5N1)
A/chicken/Magetan/BBVW/2005(H5N1)
A/chicken/Purworejo/BBVW/2005(H5N1)
A/chicken/Simalanggang/BPPVI/2005(H5N1)
A/chicken/Tarutung/BPPVI/2005(H5N1)
A/chicken/Tebing Tinggi/BPPVI/2005(H5N1)
A/duck/Parepare/BBVM/2005(H5N1)
A/Cygnus cygnus/Iran/754/2006(H5N1)
A/mallard/Italy/3401/2005(H5N1)
A/mallard/Italy/835/2006(H5N1)
A/Cygnus olor/Italy/742/2006(H5N1)
A/cygnus olor/Italy/808/2006(H5N1)
A/duck/Yokohama/aq10/2003(H5N1)
A/chicken/Kyoto/3/2004(H5N1)
A/chicken/Oita/8/2004(H5N1)
A/chicken/Yamaguchi/7/2004(H5N1)
A/crow/Kyoto/53/2004(H5N1)
A/crow/Osaka/102/2004(H5N1)
A/duck/Hokkaido/Vac-1/04(H5N1)
A/R(duck/Mongolia/54/01-duck/Mongolia/47/01)(H5N1)
A/bar-headed goose/Mongolia/1/05(H5N1)
A/whooper swan/Mongolia/3/05(H5N1)
A/common goldeneye/Mongolia/12/2006(H5N1)
A/whooper swan/Mongolia/2/06(H5N1)
A/duck/Niger/914/2006(H5N1)
A/chicken/Nigeria/641/2006(H5N1)
A/chicken/Nigeria/957-20/2006(H5N1)
A/chicken/Nigeria/1047-8/2006(H5N1)
A/ostrich/Nigeria/1047-25/2006(H5N1)
A/chicken/Nigeria/1047-54/2006(H5N1)
A/chicken/Nigeria/1047-62/2006(H5N1)
A/chicken/Nigeria/1047-30/2006(H5N1)
A/chicken/Nigeria/1047-34/2006(H5N1)
A/guinea fowl/Nigeria/957-12/2006(H5N1)
A/Cygnus olor/Astrakhan/Ast05-2-1/2005(H5N1)

A/Cygnus olor/Astrakhan/Ast05-2-10/2005(H5N1)
A/Cygnus olor/Astrakhan/Ast05-2-2/2005(H5N1)
A/Cygnus olor/Astrakhan/Ast05-2-3/2005(H5N1)
A/Cygnus olor/Astrakhan/Ast05-2-4/2005(H5N1)
A/Cygnus olor/Astrakhan/Ast05-2-5/2005(H5N1)
A/Cygnus olor/Astrakhan/Ast05-2-6/2005(H5N1)
A/Cygnus olor/Astrakhan/Ast05-2-7/2005(H5N1)
A/Cygnus olor/Astrakhan/Ast05-2-8/2005(H5N1)
A/Cygnus olor/Astrakhan/Ast05-2-9/2005(H5N1)
A/chicken/Kurgan/3/2005(H5N1)
A/chicken/Omsk/14/05(H5N1)
A/chicken/Suzdalka/06/05(H5N1)
A/chicken/Tula/4/05(H5N1)
A/duck/Novosibirsk/02/05(H5N1)
A/duck/Novosibirsk/56/2005(H5N1)
A/goose/Krasnoozerskoe/627/05(H5N1)
A/goose/Suzdalka/10/05(H5N1)
A/grebe/Novosibirsk/29/2005(H5N1)
A/turkey/Suzdalka/12/05(H5N1)
A/chicken/Krasnodar/123/06(H5N1)
A/grebe/Tyva/Tyv06-1/2006(H5N1)
A/grebe/Tyva/Tyv06-2/06(H5N1)
A/grebe/Tyva/Tyv06-8/2006(H5N1)
A/Cygnus cygnus/Krasnodar/329/07(H5N1)
A/chicken/Krasnodar/300/07(H5N1)
A/chicken/Moscow/2/2007(H5N1)
A/chicken/Russia_Krasnodar/2/2007(H5N1)
A/swan/Slovenia/760/2006(H5N1)
A/chicken/Sudan/1784-7/2006(H5N1)
A/chicken/Sudan/1784-10/2006(H5N1)
A/chicken/Sudan/1784-8/2006(H5N1)
A/chicken/Sudan/2115-9/2006(H5N1)
A/chicken/Sudan/2115-12/2006(H5N1)
A/chicken/Sudan/2115-10/2006(H5N1)
A/Ck/Thailand/9.1/2004(H5N1)
A/Qa/Thailand/57/2004(H5N1)
A/bird/Thailand/3.1/2004(H5N1)
A/chicken/Nakorn-Patom/Thailand/CU-K2/2004(H5N1)
A/little grebe/Thailand/Phichit-01/2004(H5N1)
A/open-billed stork/Bangkok/LBD0111F/04(H5N1)
A/open-billed stork/Bangkok/LBD0511F/04(H5N1)
A/open-billed stork/Nakhonsawan/BBD0104F/2004(H5N1)
A/open-billed stork/Nakhonsawan/BBD0404F/2004(H5N1)
A/open-billed stork/Suphanburi/TSD0912F/2004(H5N1)
A/open-billed stork/Nakhonsawan/BBA0627May/05(H5N1)
A/open-billed stork/Nakhonsawan/BBA2611M/05(H5N1)
A/open-billed stork/Nakhonsawan/BBA2811M/05(H5N1)
A/open-billed stork/Nakhonsawan/BBA2911M/05(H5N1)
A/open-billed stork/Nakhonsawan/BBA3011M/2005(H5N1)
A/open-billed stork/Nakhonsawan/BBD1221J/05(H5N1)

A/open-billed stork/Nakhonsawan/BBD1421J/05(H5N1)
A/open-billed stork/Nakhonsawan/BBD1521J/2005(H5N1)
A/open-billed stork/Nakhonsawan/BBD1621J/05(H5N1)
A/open-billed stork/Nakhonsawan/BBD1721J/05(H5N1)
A/open-billed stork/Nakhonsawan/BBD1821J/05(H5N1)
A/open-billed stork/Nakhonsawan/BBD2316F/05(H5N1)
A/open-billed stork/Nakhonsawan/BBD2416F/05(H5N1)
A/open-billed stork/Nakhonsawan/BBD2616F/2005(H5N1)
A/open-billed stork/Nakhonsawan/BBD3009M/05(H5N1)
A/open-billed stork/Nakhonsawan/BBD3209M/05(H5N1)
A/open-billed stork/Nakhonsawan/BBD3309M/05(H5N1)
A/open-billed stork/Nakhonsawan/BBD3509M/05(H5N1)
A/open-billed stork/Nakhonsawan/BBD3516M/05(H5N1)
A/open-billed stork/Nakhonsawan/BBD3616M/05(H5N1)
A/open-billed stork/Nakhonsawan/BBD4011M/05(H5N1)
A/open-billed stork/Nakhonsawan/BBD4211M/05(H5N1)
A/open-billed stork/Nakhonsawan/BBD4411M/05(H5N1)
A/chicken/Thailand/ICRC-V143/2007(H5N1)
A/turkey/Turkey/1/2005(H5N1)
A/chicken/Scotland/1959(H5N1)
A/Ck/Viet Nam/35/2004(H5N1)
A/Ck/Viet Nam/36/2004(H5N1)
A/Ck/Viet Nam/37/2004(H5N1)
A/Ck/Viet Nam/38/2004(H5N1)
A/Ck/Viet Nam/C57/2004(H5N1)
A/chicken/Viet Nam/33/2004(H5N1)
A/chicken/Viet Nam/LD-080/2004(H5N1)
A/chicken/Viet Nam/TG-023/2004(H5N1)
A/chicken/Viet Nam/TN-025/2004(H5N1)
A/duck/Viet Nam/1/2005(H5N1)
A/chicken/Viet Nam/2/2005(H5N1)
A/chicken/Viet Nam/6/2005(H5N1)
A/chicken/Viet Nam/8/2005(H5N1)
A/chicken/Viet Nam/9/2005(H5N1)
A/chicken/Viet Nam/10/2005(H5N1)
A/chicken/Viet Nam/11/2005(H5N1)
A/duck/Viet Nam/12/2005(H5N1)
A/duck/Viet Nam/20/2005(H5N1)
A/quail/Viet Nam/15/2005(H5N1)
A/chicken/Viet Nam/17/2005(H5N1)
A/duck/Viet Nam/18/2005(H5N1)
A/duck/Viet Nam/19/2005(H5N1)
A/mallard duck/ALB/57/1976(H5N2)
A/garganey/SanJiang/160/2006(H5N2)
A/duck/Denmark/65047/04(H5N2)
A/duck/Potsdam/1402-6/1986(H5N2)
A/duck/Hong Kong/342/1978(H5N2)
A/turkey/Italy/1980(H5N2)
A/poultry/Italy/330/1997(H5N2)
A/poultry/Italy/382/1997(H5N2)

A/poultry/Italy/373/1997(H5N2)
A/poultry/Italy/367/1997(H5N2)
A/poultry/Italy/365/1997(H5N2)
A/turkey/Italy/1258/2005(H5N2)
A/turkey/Italy/1325/2005(H5N2)
A/teal/Italy/3931-38/2005(H5N2)
A/chicken/Ibaraki/1/2005(H5N2)
A/chicken/Hidalgo/28159-232/1994(H5N2)
A/chicken/Chis/15224/1997(H5N2)
A/duck/Minnesota/1516/1981(H5N2)
A/mallard/New York/189/1982(H5N2)
A/chicken/Pennsylvania/1/1983(H5N2)
A/wigeon/Ohio/379/1988(H5N2)
A/black duck/New York/184/1988(H5N2)
A/turkey/MN/3397-3/1992(H5N2)
A/mallard/Maryland/789/2002(H5N2)
A/mallard/Maryland/182/2006(H5N2)
A/duck/Hong Kong/205/1977(H5N3)
A/goose/Hong Kong/23/1978(H5N3)
A/duck/Italy/775/2004(H5N3)
A/teal/Italy/3812/2005(H5N3)
A/tern/South Africa/1961(H5N3)
A/herring gull/NJ/402/1989(H5N3)
A/duck/Potsdam/2216-4/1984(H5N6)
A/mallard/Denmark/64650/03(H5N7)
A/shorebird/DE/101/2004(H5N7)
A/shorebird/DE/75/2004(H5N7)
A/turkey/Ireland/1378/1983(H5N8)
A/chicken/Italy/22A/1998(H5N9)
A/gray teal/Australia/1/1979(H6N1)
A/pintail/ALB/179/1993(H6N1)
A/duck/Hong Kong/d73/1976(H6N1)
A/chicken/Hong Kong/17/1977(H6N1)
A/Teal/Hong Kong/W312/97(H6N1)
A/duck/Taiwan/0526/72(H6N1)
A/chicken/Taiwan/G2/87(H6N1)
A/chicken/Taiwan/G23/87(H6N1)
A/chicken/Taiwan/0824/97(H6N1)
A/chicken/Taiwan/na3/98(H6N1)
A/chicken/Taiwan/0705/99(H6N1)
A/chicken/Taiwan/165/99(H6N1)
A/chicken/Taiwan/ns2/99(H6N1)
A/duck/Taiwan/WB29/99(H6N1)
A/partridge/Taiwan/LU1/99(H6N1)
A/chicken/Taiwan/2838N/00(H6N1)
A/chicken/Taiwan/2838V/00(H6N1)
A/chicken/Taiwan/SP1/00(H6N1)
A/duck/Taiwan/29-3/00(H6N1)
A/chicken/Taiwan/0329/01(H6N1)
A/chicken/Taiwan/1205/01(H6N1)

A/chicken/Taiwan/1212/01(H6N1)
A/chicken/Taiwan/1215/01(H6N1)
A/chicken/Taiwan/0107/02(H6N1)
A/chicken/Taiwan/0208/02(H6N1)
A/chicken/Taiwan/0222/02(H6N1)
A/chicken/Taiwan/0320/02(H6N1)
A/chicken/Taiwan/0408/02(H6N1)
A/chicken/Taiwan/A37/02(H6N1)
A/chicken/Taiwan/PF1/02(H6N1)
A/chicken/Taiwan/PF2/02(H6N1)
A/chicken/Taiwan/PF3/02(H6N1)
A/chicken/Taiwan/0706/03(H6N1)
A/chicken/Taiwan/1203/03(H6N1)
A/duck/Taiwan/A68/03(H6N1)
A/duck/Taiwan/WB239/03(H6N1)
A/chicken/Taiwan/0114/04(H6N1)
A/chicken/Taiwan/0305/04(H6N1)
A/chicken/Taiwan/ch1006/04(H6N1)
A/chicken/Taiwan/0204/05(H6N1)
A/chicken/Taiwan/A342/05(H6N1)
A/mallard/Ohio/249/1998(H6N1)
A/snow goose/Maryland/410/2005(H6N1)
A/snow goose/Maryland/353/2005(H6N1)
A/snow goose/Maryland/364/2005(H6N1)
A/eurasian coot/Western Australia/2727/1979(H6N2)
A/mallard duck/ALB/250/1978(H6N2)
A/mallard duck/ALB/280/1978(H6N2)
A/mallard duck/ALB/290/1978(H6N2)
A/mallard duck/ALB/10/1985(H6N2)
A/blue-winged teal/ALB/69/1985(H6N2)
A/pintail duck/ALB/111/1985(H6N2)
A/shoveler/ALB/114/1985(H6N2)
A/mallard duck/ALB/98/1985(H6N2)
A/coot/ALB/134/1987(H6N2)
A/mallard duck/ALB/294/1987(H6N2)
A/mallard/Hei Longjiang/131/2006(H6N2)
A/mallard/SanJiang/113/2006(H6N2)
A/mallard/SanJiang/151/2006(H6N2)
A/duck/Hong Kong/d134/1977(H6N2)
A/duck/Hokkaido/120/2001(H6N2)
A/duck/Kingmen/E322/04(H6N2)
A/green-winged teal/Ohio/86/1986(H6N2)
A/black duck/Ohio/101/1986(H6N2)
A/mallard/Ohio/81/1986(H6N2)
A/mallard/Ohio/344/1987(H6N2)
A/black duck/Ohio/307/1987(H6N2)
A/pintail/Ohio/351/1987(H6N2)
A/pintail/Ohio/294/1988(H6N2)
A/pintail/Ohio/73/1989(H6N2)
A/pintail/Ohio/226/1998(H6N2)

A/chicken/New York/14677-13/1998(H6N2)
A/green-winged teal/Ohio/203/1998(H6N2)
A/green-winged teal/Ohio/178/1999(H6N2)
A/duck/New York/16873/1999(H6N2)
A/gadwall/Ohio/37/1999(H6N2)
A/chicken/CA/431/2000(H6N2)
A/chicken/California/431/00(H6N2)
A/chicken/California/465/00(H6N2)
A/chicken/California/139/01(H6N2)
A/chicken/California/6643/01(H6N2)
A/chicken/California/905/01(H6N2)
A/mallard/Maryland/881/2002(H6N2)
A/mallard/Ohio/666/2002(H6N2)
A/mallard/Maryland/470/2002(H6N2)
A/mallard/Maryland/172/2002(H6N2)
A/mallard/Ohio/648/2002(H6N2)
A/mallard/Ohio/653/2002(H6N2)
A/Japanese quail/CA/K0401010/2004(H6N2)
A/chicken/CA/S0403106/2004(H6N2)
A/blue-winged teal/Ohio/1387/2005(H6N2)
A/mallard duck/ALB/76/1985(H6N3)
A/mallard duck/ALB/155/1990(H6N3)
A/mallard duck/ALB/191/1990(H6N3)
A/mallard duck/ALB/253/1990(H6N3)
A/chicken/New York/28263/1989(H6N3)
A/blue-winged teal/ALB/685/1982(H6N4)
A/shearwater/Australia/1/1973(H6N5)
A/black duck/AUS/4045/1980(H6N5)
A/blue-winged teal/ALB/48/1978(H6N5)
A/mallard/ALB/199/1992(H6N5)
A/mallard/Alberta/154/2003(H6N5)
A/duck/Taiwan/WB459/04(H6N5)
A/mallard/Ohio/170/1999(H6N5)
A/pintail duck/ALB/189/1982(H6N6)
A/widgeon/ALB/256/1982(H6N6)
A/blue-winged teal/ALB/266/1982(H6N6)
A/mallard duck/ALB/289/1982(H6N6)
A/blue-winged teal/MN/993/1980(H6N6)
A/turkey/Minnesota/957/1980(H6N6)
A/mallard/Ohio/664/2002(H6N6)
A/mallard duck/ALB/761/1978(H6N8)
A/pintail duck/ALB/628/1979(H6N8)
A/mallard/ALB/206/1996(H6N8)
A/wood duck/New York/60/1982(H6N8)
A/mallard duck/New York/90/1982(H6N8)
A/laughing gull/NJ/276/1989(H6N8)
A/green-winged teal/Ohio/59/1989(H6N8)
A/mallard/Ohio/64/1989(H6N8)
A/mallard/Ohio/115/1989(H6N8)
A/mallard/Ohio/123/1989(H6N8)

A/Canada goose/Ohio/127/1989(H6N8)
A/green-winged teal/Ohio/80/1993(H6N8)
A/ruddy turnstone/Delaware/105/1998(H6N8)
A/mallard/Ohio/217/1998(H6N8)
A/mallard/Ohio/242/1998(H6N8)
A/shorebird/DE/12/2004(H6N8)
A/mallard/Maryland/2022/2005(H6N8)
A/mallard/Maryland/1983/2005(H6N8)
A/mallard duck/ALB/1151/1979(H6N9)
A/mallard/Alberta/34/2001(H7N1)
A/duck/Nanchang/1904/1992(H7N1)
A/chicken/Italy/4789/1999(H7N1)
A/chicken/Italy/5093/99(H7N1)
A/quail/Italy/4992/1999(H7N1)
A/turkey/Italy/1265/1999(H7N1)
A/turkey/Italy/2715/1999(H7N1)
A/turkey/Italy/2732/1999(H7N1)
A/turkey/Italy/3489/1999(H7N1)
A/turkey/Italy/3560/1999(H7N1)
A/turkey/Italy/4294/1999(H7N1)
A/turkey/Italy/4301/1999(H7N1)
A/turkey/Italy/4617/1999(H7N1)
A/turkey/Italy/4644/1999(H7N1)
A/turkey/Italy/4169/1999(H7N1)
A/turkey/Italy/4580/1999(H7N1)
A/turkey/Italy/3675/1999(H7N1)
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A/chicken/Italy/1082/1999(H7N1)
A/turkey/Italy/977/1999(H7N1)
A/turkey/Italy/4708/1999(H7N1)
A/turkey/Italy/4482/1999(H7N1)
A/turkey/Italy/4295/1999(H7N1)
A/turkey/Italy/3185/1999(H7N1)
A/turkey/Italy/3488/1999(H7N1)
A/ostrich/Italy/2332/00(H7N1)
A/ostrich/Italy/984/00(H7N1)
A/ostrich/Italy/1038/2000(H7N1)
A/turkey/Italy/2984/2000(H7N1)
A/turkey/Italy/4426/2000(H7N1)
A/duck/Italy/551/2000(H7N1)
A/guinea fowl/Italy/155/2000(H7N1)
A/quail/Italy/396/2000(H7N1)
A/chicken/Italy/2335/2000(H7N1)
A/turkey/Italy/1084/2000(H7N1)
A/pekin duck/Italy/1848/2000(H7N1)
A/turkey/Italy/1351/2001(H7N1)
A/chicken/Italy/322/2001(H7N1)
A/chicken/Hebei/1/2002(H7N2)
A/quail/Italy/4610/2003(H7N2)
A/chukar/New York/11653-1/2005(H7N2)

A/chicken/New York/16326-5/2005(H7N2)
A/chicken/New York/16330/2005(H7N2)
A/chicken/New York/21211-2/2005(H7N2)
A/duck/New York/21211-6/2005(H7N2)
A/chicken/New York/21211-1/2005(H7N2)
A/chukar/New York/21211-7/2005(H7N2)
A/chicken/Victoria/224/1992(H7N3)
A/chicken/Queensland/1994(H7N3)
A/cinnamon teal/Bolivia/4537/2001(H7N3)
A/blue-winged teal/ALB/295/1977(H7N3)
A/widgeon/Alberta/284/1977(H7N3)
A/green-winged teal/ALB/228/1985(H7N3)
A/mallard/Alberta/24/01(H7N3)
A/mallard/Alberta/24/01(H7N3)
A/GSC_chicken/British Columbia/04(H7N3)
A/GSC_chicken_B/British Columbia/04(H7N3)
A/chicken/British Columbia/04(H7N3)
A/chicken/British Columbia/GSC_human_B/04(H7N3)
A/turkey/Italy/8912/2002(H7N3)
A/turkey/Italy/8000/2002(H7N3)
A/turkey/Italy/251/2003(H7N3)
A/turkey/Italy/3620/2003(H7N3)
A/turkey/Italy/1010/2003(H7N3)
A/turkey/Italy/4608/2003(H7N3)
A/turkey/Italy/2987/2003(H7N3)
A/turkey/Italy/2043/2003(H7N3)
A/turkey/Italy/4479/2004(H7N3)
A/turkey/Italy/3807/2004(H7N3)
A/quail/Italy/3347/2004(H7N3)
A/turkey/Italy/3337/2004(H7N3)
A/mallard/Netherlands/12/2000(H7N3)
A/chicken/Pakistan/34669/1995(H7N3)
A/turkey/Oregon/1971(H7N3)
A/pheasant/Minnesota/917/1980(H7N3)
A/turkey/Minnesota/1200/1980(H7N3)
A/ruddy turnstone/NJ/65/1985(H7N3)
A/Mallard/Ohio/322/1998(H7N3)
A/Black Duck/Ohio/415/2001(H7N3)
A/blue-winged teal/Ohio/658/2004(H7N3)
A/mallard/Delaware/418/2005(H7N3)
A/laughing gull/Delaware/42/06(H7N3)
A/shorebird/Delaware/22/06(H7N3)
A/turkey/England/1963(H7N3)
A/chicken/New South Wales/2/1997(H7N4)
A/chicken/New South Wales/327/1997(H7N4)
A/emu/New South Wales/775/1997(H7N4)
A/mallard duck/ALB/224/1977(H7N5)
A/starling/Victoria/1985(H7N7)
A/chicken/Victoria/1976(H7N7)
A/goose/Leipzig/187-7/1979(H7N7)

A/chicken/Netherlands/03010132/03(H7N7)
A/ruddy turnstone/DE/2378/1988(H7N7)
A/red knot/NJ/325/1989(H7N7)
A/mallard/Ohio/421/1987(H7N8)
A/turkey/Minnesota/1/1988(H7N9)
A/turkey/Ontario/6118/1968(H8N4)
A/pintail duck/Alberta/114/1979(H8N4)
A/mallard/Alberta/7/1987(H8N4)
A/mallard/Alberta/194/1992(H8N4)
A/duck/Yangzhou/02/2005(H8N4)
A/mallard/Alaska/708/2005(H8N4)
A/mallard duck/ALB/396/1983(H9N1)
A/mallard duck/ALB/506/1983(H9N1)
A/mallard duck/ALB/743/1983(H9N1)
A/ruddy turnstone/DE/2731/1987(H9N1)
A/laughing gull/DE/5/2003(H9N1)
A/mallard duck/ALB/321/1988(H9N2)
A/mallard/Alberta/11/1991(H9N2)
A/mallard/ALB/17/1991(H9N2)
A/Chicken/Beijing/1/94(H9N2)
A/chicken/Shandong/7/96(H9N2)
A/chicken/Shandong/6/96(H9N2)
A/chicken/Guangdong/5/97(H9N2)
A/chicken/Guangdong/6/97(H9N2)
A/duck/Nanjing/2/97(H9N2)
A/chicken/Shenzhen/9/97(H9N2)
A/duck/Nanjing/1/97(H9N2)
A/chicken/Henan/5/98(H9N2)
A/chicken/Shijiazhuang/2/98(H9N2)
A/Chicken/Shanghai/F/98(H9N2)
A/chicken/Beijing/8/98(H9N2)
A/chicken/Guangxi/10/99(H9N2)
A/chicken/Guangxi/4/1999(H9N2)
A/chicken/Guangxi/9/99(H9N2)
A/chicken/Ningxia/4/99(H9N2)
A/chicken/Fujian/25/00(H9N2)
A/chicken/Guangdong/4/00(H9N2)
A/chicken/Guangxi/6/2000(H9N2)
A/chicken/Hebei/31/00(H9N2)
A/chicken/Heilongjiang/35/00(H9N2)
A/chicken/Henan/26/00(H9N2)
A/chicken/Jiangsu/1/00(H9N2)
A/chicken/Guangdong/10/00(H9N2)
A/quail/Nanchang/2-0460/2000(H9N2)
A/pigeon/Nanchang/2-0461/2000(H9N2)
A/wild duck/Nanchang/2-0480/2000(H9N2)
A/chicken/Guangdong/47/01(H9N2)
A/chicken/Guangdong/56/01(H9N2)
A/chicken/Heilongjiang/48/01(H9N2)
A/chicken/Jilin/53/01(H9N2)

A/chicken/Shanghai/10/01(H9N2)
A/chicken/Nanchang/4-301/2001(H9N2)
A/chicken/Guangdong/21/02(H9N2)
A/chicken/Henan/43/02(H9N2)
A/duck/Hubei/W1/2004(H9N2)
A/bird/Guangxi/62/2005(H9N2)
A/bird/Guangxi/82/2005(H9N2)
A/bird/Guangxi/83/2005(H9N2)
A/chicken/Guangxi/37/2005(H9N2)
A/chicken/Guangxi/55/2005(H9N2)
A/duck/Guangxi/51/2005(H9N2)
A/bird/Guangxi/A1/2006(H9N2)
A/bird/Guangxi/H1/2006(H9N2)
A/quail/Guangxi/B1/2006(H9N2)
A/Quail/Hong Kong/AF157/92(H9N2)
A/Chicken/Hong Kong/739/94(H9N2)
A/Quail/Hong Kong/G1/97 (H9N2)
A/chicken/Osaka/aq48/97(H9N2)
A/parakeet/Chiba/1/97(H9N2)
A/parakeet/Narita/92A/98(H9N2)
A/duck/Hokkaido/9/99(H9N2)
A/chicken/Kobe/aq26/2001(H9N2)
A/chicken/Osaka/aq19/2001(H9N2)
A/chicken/Osaka/aq58/2001(H9N2)
A/chicken/Osaka/aq69/2001(H9N2)
A/chicken/Yokohama/aq120/2001(H9N2)
A/chicken/Yokohama/aq135/2001(H9N2)
A/chicken/Yokohama/aq144/2001(H9N2)
A/chicken/Yokohama/aq55/2001(H9N2)
A/chicken/Yokohama/aq134/2002(H9N2)
A/chicken/Yokohama/aq45/2002(H9N2)
A/chicken/Pakistan/2/99(H9N2)
A/Korea/KBNP-0028/2000(H9N2)
A/turkey/California/189/66(H9N2)
A/turkey/Wisconsin/1/1966(H9N2)
A/turkey/Wisconsin/1/1966(H9N2)
A/goose/MN/5733-1/1980(H9N2)
A/quail/Dubai/301/2000(H9N2)
A/quail/Dubai/303/2000(H9N2)
A/chicken/Dubai/338/2001(H9N2)
A/chicken/Dubai/339/2001(H9N2)
A/chicken/Dubai/383/2002(H9N2)
A/chicken/Dubai/463/2003(H9N2)
A/knot/DE/2552/1987(H9N5)
A/ruddy turnstone/DE/2576/1987(H9N5)
A/duck/HK/147/1977(H9N6)
A/ruddy turnstone/DE/773/1988(H9N6)
A/ruddy turnstone/DE/510/1988(H9N6)
A/mallard/Ohio/184/1986(mixed)
A/mallard/Ohio/81/1986(mixed)

A/mallard/Ohio/656/2002(mixed)
A/mallard/Maryland/899/2002(mixed)
A/canine/Florida/242/2003(H3N8)
A/canine/Florida/43/2004(H3N8)
A/feline/Indonesia/CDC1/2006(H5N1)
A/environment/Delaware/235/2005(H11N6)
A/environment/Delaware/232/2005(H11N8)
A/environment/Delaware/234/2005(H11N8)
A/environment/Maryland/763/2006(H11N9)
A/environment/Ohio/1007/2005(H1N1)
A/environment/Ohio/994/2005(H3N2)
A/environment/Ohio/1001/2005(H3N2)
A/environment/Maryland/1174/2005(H3N6)
A/environment/Delaware/245/2005(H3N6)
A/environment/Delaware/251/2005(H3N6)
A/environment/Maryland/1176/2005(H3N6)
A/environment/Maryland/1172/2005(H3N6)
A/environment/Maryland/1165/2005(H3N8)
A/environment/Maryland/1175/2005(H3N8)
A/environment/Maryland/1158/2005(H3N8)
A/environment/Maryland/1101/2006(H4N6)
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A/environment/New York/11678-4/2005(H7N2)
A/environment/New York/16326-1/2005(H7N2)
A/chicken/New York/11678-5/2005(H7N2)
A/environment/New York/22067-3/2005(H7N2)
A/environment/Maryland/261/2006(H7N3)
A/environment/Maryland/267/2006(H7N3)
A/environment/Maryland/566/2006(H7N9)
A/equine/Idaho/37875/1991(H3N8)
A/equine/Ohio/1/2003(H3N8)
A/equine/Wisconsin/1/03(H3N8)
A/Brevig Mission/1/1918(H1N1)
A/Henry/1936(H1N1)
A/Cam/1946(H1N1)
A/Melbourne/1935(H1N1)
A/New South Wales/18/1999(H1N1)
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A/Chile/1/1983(H1N1)
A/Tientsin/78/1977(H1N1)
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A/Hong Kong/117/1977(H1N1)
A/India/6263/1980(H1N1)
A/Roma/1949(H1N1)
A/Tennessee/UR06-0523/2007(H1N1)
A/Malaysia/1954(H1N1)
A/Malaya/302/1954(H1N1)
A/New Caledonia/20/1999(H1N1)
A/New Zealand/7/1983(H1N1)
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A/South Canterbury/159/2001(H1N1)
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A/Auckland/606/2001(H1N1)
A/Canterbury/106/2004(H1N1)
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A/Wellington/12/2005(H1N1)
A/Otago/5/2005(H1N1)
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A/Wellington/13/2005(H1N1)
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A/Wellington/11/2005(H1N1)
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A/Waikato/17/2005(H1N1)
A/Auckland/619/2005(H1N1)
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A/Puerto Rico/8/34/Mount Sinai(H1N1)
A/Puerto Rico/8/34(H1N1)
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A/USSR/90/1977(H1N1)
A/USSR/92/1977(H1N1)
A/USSR/46/1979(H1N1)
A/Singapore/6/1986(H1N1)
A/Taiwan/01/1986(H1N1)
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A/TW/3355/97(H1N1)
A/Tonga/14/1984(H1N1)
A/Alaska/1935(H1N1)

A/Phila/1935(H1N1)
A/Hickox/1940(H1N1)
A/Bel/1942(H1N1)
A/Weiss/1943(H1N1)
A/AA/Marton/1943(H1N1)
A/Iowa/1943(H1N1)
A/AA/Huston/1945(H1N1)
A/FortMonmouth/1/1947(H1N1)
A/Albany/4835/1948(H1N1)
A/Fort Worth/1950(H1N1)
A/Albany/4836/1950(H1N1)
A/Albany/12/1951(H1N1)
A/Albany/1618/1951(H1N1)
A/Albany/14/1951(H1N1)
A/Albany/13/1951(H1N1)
A/Denver/1957(H1N1)
A/Wisconsin/301/1976(H1N1)
A/New Jersey/1976(H1N1)
A/Memphis/10/1978(H1N1)
A/Memphis/11/1978(H1N1)
A/Memphis/13/1978(H1N1)
A/Memphis/15/1978(H1N1)
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A/bar-headed goose/Tibet/8/2006(H5N1)
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A/Bayern/66/2009(H1N1)

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A/black duck/Ohio/195/1990(mixed)
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A/black-headed gull/Netherlands/1/2006(H4N5)
A/black-headed gull/Sweden/1/2005(H13N8)
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A/chicken/Lang Son/200/2005(H5N1)
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A/chicken/Laos/P0171/2007(H5N1)
A/chicken/Liaoning/23/2005(H5N1)
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A/chicken/Rawalpindi/NARC72/2002(H7N3)
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A/chicken/South Kalimantan/UT6029/2006(H5N1)
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A/chicken/Suphanburi/NIAH7540/2004(H5N1)
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A/Chile/1600/2009(H1N1)
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A/Chile/3242/2009(H1N1)
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A/Chile/3467/2009(H1N1)

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A/Chile/3766/2009(H1N1)
A/Chile/3819/2009(H1N1)
A/Chile/3905/2009(H1N1)
A/Chile/3935/2009(H1N1)
A/Chile/40/2009(H1N1)
A/Chile/4064/2009(H1N1)
A/Chile/4181/2009(H1N1)
A/Chile/4182/2009(H1N1)
A/Chile/42/2009(H1N1)
A/Chile/4257/2009(H1N1)
A/Chile/4406/2009(H1N1)
A/Chile/4438/2009(H1N1)
A/Chile/56/2009(H1N1)
A/Chile/88/2009(H1N1)
A/Chile/95/2009(H1N1)
A/Chita/01/2009(H1N1)
A/Chita/CRIE-8/2009(H1N1)
A/chukar/New York/23164-13/2005(H7N2)
A/cinnamon teal/California/44287-234/2007(H11N9)
A/cinnamon teal/California/44287-659/2007(H10N3)
A/Cologne/INS136/2009(H1N1)
A/Cologne/INS286/2009(H1N1)
A/Colorado/03/2009(H1N1)
A/Colorado/UR06-0452/2007(H3N2)
A/Colorado/WRAIR0353S/2009(H1N1)
A/common eider/Netherlands/1/2006(H3N8)
A/common eider/Netherlands2/2006(H4N8)
A/common goldeneye/Mongolia/X60/2009(H5N1)
A/common murre/Oregon/19497-004/2005(H9N5)
A/common murre/Oregon/20361-001/2007(H10N7)
A/common murre/Oregon/20361-002/2007(H12N5)
A/common teal/Netherlands/10/2000(H1N1)
A/common teal/Netherlands/1/2005(H8N4)
A/common teal/Netherlands/2/2005(H6N8)
A/common teal/Netherlands/9/2000(H11N9)
A/Copenhagen/INS144/2009(H1N1)
A/Copenhagen/INS433/2009(H1N1)
A/Copenhagen/INS434/2009(H1N1)
A/Copenhagen/INS95/2009(H1N1)
A/Copenhagen/INS96/2009(H1N1)
A/Copenhagen/INS98/2009(H1N1)
A/Cottbus/1/1964(H2N2)
A/Craven/WR0019/2009(H1N1)
A/Craven/WR0093/2009(H1N1)
A/Craven/WR1001/2009(H1N1)
A/Cygnus olor/Caspian Sea/2006(H5N1)

A/Czech Republic/1/1966(H2N2)
A/Czech Republic/1/2011(H1N1)
A/Dakar/WRAIR0011T/2009(H3N2)
A/Dakar/WRAIR0018N/2010(H1N1)
A/Dakar/WRAIR0018T/2010(H1N1)
A/Dakar/WRAIR0019T/2010(H1N1)
A/Dakar/WRAIR0020T/2010(H1N1)
A/Delware/WRAIR1240/2009(H3N2)
A/Denmark/523/2009(H1N1)
A/Denmark/524/2009(H1N1)
A/Denmark/528/2009(H1N1)
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A/District of Columbia/INS115/2009(H1N1)
A/District of Columbia/INS17/2009(H1N1)
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A/District of Columbia/INS47/2009(H1N1)
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A/District of Columbia/WRAMC-1154048/2008(H1N1)
A/domestic green-winged teal/Hunan/67/2005(H5N1)
A/domestic green-winged teal/Hunan/79/2005(H5N1)
A/donkey/Xinjiang/5/2007(H3N8)
A/duck/Alberta/35/1976(H1N1)
A/duck/Altai/1285/1991(H5N3)
A/duck/Ang Thong/71(2)/2004(H5N1)
A/duck/Angthong/NIAH8246/2004(H5N1)
A/duck/Anhui/1/06(H5N1)
A/duck/Anhui/56/2005(H5N1)
A/duck/Bac Lieu/07-06/2007(H5N1)

A/duck/Beijing/40/04(H3N8)
A/duck/Beijing/61/05(H3N8)
A/duck/Cambodia/D14AL/2006(H5N1)
A/duck/Denmark/53-147-8/2008(H7N1)
A/duck/East Java/UT1046/2004(H5N1)
A/duck/East Java/UT1107/2004(H5N1)
A/duck/Egypt/0871/2008(H5N1)
A/duck/Egypt/D2br10/2007(H5N1)
A/duck/France/06436/2006(H5N3)
A/duck/France/080032/2008(H5N2)
A/duck/France/080036/2008(H5N1)
A/duck/Fujian/11339/2005(H6N2)
A/duck/Fujian/1695/2005(H6N2)
A/duck/Fujian/2546/2005(H6N2)
A/duck/Fujian/3193/2005(H6N2)
A/duck/Fujian/3701/2005(H6N2)
A/duck/Fujian/3937/2005(H6N2)
A/duck/Fujian/4125/2005(H6N2)
A/duck/Fujian/420/2005(H6N2)
A/duck/Fujian/5117/2005(H6N2)
A/duck/Fujian/5426/2005(H6N2)
A/duck/Fujian/5643/2005(H6N2)
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A/duck/Fujian/8719/2005(H6N2)
A/duck/Fujian/FQ107/2007(H9N2)
A/duck/Fukushima/2/2011(H5N1)
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A/duck/Guangxi/12/2003(H5N1)
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A/duck/Hau Giang/07-12/2007(H5N1)
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A/duck/Hong Kong/702/1979(H9N2)
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A/duck/Hubei/49/2005(H5N1)
A/duck/Hubei/Hangmei01/2006(H5N1)
A/duck/Hunan/11/2007(H5N1)
A/duck/Hunan/1469/2002(H6N8)
A/duck/Hunan/177/2005(H6N1)
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A/duck/Hunan/3315/2006(H5N1)
A/duck/Hunan/3340/2006(H5N1)
A/duck/Hunan/3748/2004(H6N8)

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A/duck/Hunan/573/2002(H6N2)
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A/duck/Hunan/748/2005(H6N5)
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A/duck/Hunan/8/2008(H5N1)
A/duck/Hunan/908/2005(H6N2)
A/duck/Interior Alaska/7MP1550/2007(H4N6)
A/duck/Interior Alaska/7MP1570/2007(H4N6)
A/duck/Interior Alaska/7MP1582/2007(H1N1)
A/duck/Interior Alaska/7MP1591R1/2007(H3N8)
A/duck/Interior Alaska/7MP1598/2007(H3N8)
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A/duck/Italy/281904/2006(H1N1)
A/duck/Italy/4609/2003(H7N2)
A/duck/Italy/69238/2007(H1N1)
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A/duck/Jiangxi/80/2005(H5N1)
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A/duck/LA/B174/1986(H8N4)
A/duck/Lang Son/201/2005(H5N1)
A/duck/Laos/25/2006(H5N1)
A/duck/Laos/A0301/2007(H5N1)
A/duck/Laos/A0503/2007(H5N1)
A/duck/Laos/A0617/2007(H5N1)
A/duck/Laos/P0050/2007(H5N1)
A/duck/Laos/P0117/2007(H5N1)
A/duck/Laos/P0127/2007(H5N1)
A/duck/Laos/P0137/2007(H5N1)
A/duck/Laos/P0161/2007(H5N1)
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A/duck/Mongolia/867/2002(H7N1)
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A/duck/New York/469961/2006(H5N2)
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A/duck/New York/494165/2007(H5N2)

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A/duck/New York/504372/2007(H5N2)
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A/duck/New York/88291-13/2005(H7N2)
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A/duck/NY/6874/1978(H3N2)
A/duck/Ohio/470655/2007(H5N2)
A/duck/Omsk/1822/2006(H5N1)
A/duck/Pennsylvania/446080-6/2006(H5N2)
A/duck/Pennsylvania/446080-7/2006(H5N2)
A/duck/Primorie/2621/2001(H5N2)
A/duck/Primorie/2633/2001(H5N3)
A/duck/Shantou/10196/2005(H6N2)
A/duck/Shantou/1090/2001(H6N2)
A/duck/Shantou/1197/2001(H6N2)
A/duck/Shantou/1211/2002(H6N2)
A/duck/Shantou/1215/2002(H6N2)
A/duck/Shantou/1217/2002(H6N2)
A/duck/Shantou/1233/2002(H6N2)
A/duck/Shantou/1249/2002(H6N2)
A/duck/Shantou/1252/2000(H6N2)
A/duck/Shantou/1275/2004(H6N1)
A/duck/Shantou/1286/2001(H6N2)
A/duck/Shantou/13145/2005(H6N2)
A/duck/Shantou/13468/2005(H6N2)
A/duck/Shantou/14062/2005(H6N2)
A/duck/Shantou/14966/2005(H6N2)
A/duck/Shantou/1522/2001(H6N2)
A/duck/Shantou/1586/2001(H6N2)
A/duck/Shantou/16432/2005(H6N2)
A/duck/Shantou/1646/2002(H6N2)
A/duck/Shantou/1648/2002(H6N2)
A/duck/Shantou/1655/2000(H6N2)
A/duck/Shantou/1674/2002(H6N2)
A/duck/Shantou/1706/2002(H6N2)
A/duck/Shantou/17232/2005(H6N2)
A/duck/Shantou/17887/2005(H6N2)
A/duck/Shantou/1840/2000(H6N2)
A/duck/Shantou/184/2002(H6N2)
A/duck/Shantou/2045/2002(H6N2)
A/duck/Shantou/2061/2002(H6N2)
A/duck/Shantou/2167/2001(H6N2)
A/duck/Shantou/22596/2005(H6N2)
A/duck/Shantou/2444/2001(H6N2)
A/duck/Shantou/2446/2002(H6N2)
A/duck/Shantou/2450/2002(H6N2)
A/duck/Shantou/2471/2002(H6N2)
A/duck/Shantou/2472/2005(H6N2)
A/duck/Shantou/2542/2001(H6N2)

A/duck/Shantou/259/2000(H6N2)
A/duck/Shantou/266/2002(H6N2)
A/duck/Shantou/313/2002(H6N2)
A/duck/Shantou/3324/2005(H6N2)
A/duck/Shantou/339/2000(H6N2)
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A/duck/Shantou/5480/2005(H6N2)
A/duck/Shantou/5808/2005(H6N2)
A/duck/Shantou/6698/2005(H6N2)
A/duck/Shantou/674/2002(H6N2)
A/duck/Shantou/6847/2004(H6N2)
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A/duck/Shantou/924/2005(H6N2)
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A/duck/Tasmania/277/2007(H7N2)
A/duck/Tibet/S2/2009(H9N2)
A/duck/United Kingdom/1/1956(H11N6)
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A/duck/Victoria/D23/1994(H4N2)
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A/duck/Vietnam/G30/2008(H11N9)
A/duck/Vietnam/G32/2008(H11N9)
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A/duck/Zambia/10/2009(H6N2)
A/duck/Zambia/11/2009(H11N9)
A/duck/Zambia/12/2009(H11N9)
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A/dunlin/Barrow/65/2005(H6N1)
A/dunlin/Sweden/1/2005(H4N6)
A/Ekaterinburg/01/2009(H1N1)
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A/emu/NY/12716/1994(H5N9)
A/England/195/2009(H1N1)
A/England/26/2008(H1N1)
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A/England/557/2007(H1N1)
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A/England/594/2006(H1N1)
A/England/654/2007(H1N1)

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A/env/California/7286/2008(H2N3)
A/env/California/7313/2008(H2N3)
A/env/California/7335/2008(H2N3)
A/env/California/7341/2008(H5N3)
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A/environment/Hunan/1-81/2007(H9N2)
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A/equine/Georgia/9/1981(H3N8)
A/equine/Heilongjiang/10/2008(H3N8)
A/equine/Huabei/1/2007(H3N8)
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A/equine/Kentucky/magnificent_genius1/1981(H3N8)
A/equine/Kentucky/pass_the_pepper1/1976(H3N8)
A/equine/Kentucky/Rosie100/1981(H3N8)
A/equine/Lexington/1/1966(H7N7)
A/equine/Liaoning/9/2008(H3N8)
A/equine/Miami/1/1963(H3N8)
A/equine/Montana/9233/2007(H3N8)
A/equine/Newmarket/5/2003(H3N8)
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A/equine/Ohio/113461-3/2005(H3N8)
A/equine/Prague/2/1956(H7N7)

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A/equine/Santa Fe/1/1985(H3N8)
A/equine/Sao Paulo/1/1969(H3N8)
A/equine/Sao Paulo/4/1976(H7N7)
A/equine/Sao Paulo/6/1963(H3N8)
A/equine/Sussex/1/1989(H3N8)
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A/equine/Switzerland/173/1993(H3N8)
A/equine/Tennessee/5/1986(H3N8)
A/equine/Texas/39655/1991(H3N8)
A/equine/Uruguay/1063/1976(H7N7)
A/equine/Uruguay/1/1963(H3N8)
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A/equine/Xinjiang/2/2007(H3N8)
A/equine/Xinjiang/3/2007(H3N8)
A/equine/Xinjiang/4/2007(H3N8)
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A/Eurasian wigeon/Netherlands/4/2007(H10N1)
A/Eurasian wigeon/Sweden/1/2004(H6N2)
A/falcon/Saudi Arabia/D1795/2005(H5N1)
A/falcon/Saudi Arabia/D1936/2007(H5N1)
A/feces/Hunan/1-23/2007(H9N2)
A/feces/Hunan/2-28/2007(H9N2)
A/feces/Hunan/3-91/2007(H9N2)
A/feline/Korea/01/2010(H3N2)
A/Florida/04/2009(H1N1)
A/Florida/UR06-0265/2007(H1N1)
A/Florida/UR07-0022/2008(H1N1)
A/Florida/UR07-0095/2008(H3N2)
A/Florida/UR07-0101/2008(H3N2)
A/Florida/UR07-0102/2008(H3N2)
A/Florida/UR07-0146/2008(H3N2)
A/Florida/UR07-0154/2008(H3N2)
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A/Frankfurt/INS301/2009(H1N1)
A/Frankfurt/INS302/2009(H1N1)
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A/Frankfurt/INS305/2009(H1N1)
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A/Frankfurt/INS402/2010(H1N1)
A/Frankfurt/INS403/2010(H1N1)
A/Frankfurt/INS93/2009(H1N1)

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A/Ft Carson/WR1448P/2009(H1N1)
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A/Fukuoka-C/1/2009(H1N1)
A/Fukuoka-C/2/2009(H1N1)
A/Fukuoka-C/3/2009(H1N1)
A/Fukushima/1/2009(H1N1)
A/Fuzhou/01/2009(H1N1)
A/gadwall/Altai/1202/2007(H5N2)
A/gadwall/Altai/1324/2007(H3N8)
A/gadwall/Altai/1326/2007(H3N8)
A/gadwall/Altai/1328/2007(H3N8)
A/gadwall/California/29595/2007(H10N7)
A/gadwall/California/44287-543/2007(H10N7)
A/gadwall/California/HKWF100/2007(H6N1)
A/gadwall/Minnesota/Sg-00044/2007(mixed)
A/gadwall/Netherlands/1/2006(H9N2)
A/gadwall/Wisconsin/08OS2296/2008(H6N2)
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A/garganey/Altai/1216/2007(H3N6)
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A/Genoa/14/2003(H3N2)
A/Georgia/1/1967(H2N2)
A/Georgia/NHRC0001/1999(H3N2)
A/Georgia/NHRC0001/2002(H3N2)
A/Georgia/NHRC0001/2003(H3N2)
A/Georgia/NHRC0001/2004(H3N2)
A/Georgia/NHRC0001/2005(H3N2)
A/Georgia/NHRC0001/2006(H3N2)
A/Germany-BY/74/2009(H1N1)
A/Gifu-C/67/2009(H1N1)
A/goose/Czech Republic/1848-K9/2009(H7N9)
A/goose/Czech Republic/1848-T14/2009(H7N9)
A/goose/Guangdong/72/2004(H5N1)
A/goose/Hubei/65/2005(H5N1)
A/goose/Hungary/14756/2006(H5N1)
A/goose/Italy/296426/2003(H1N1)
A/goose/OH/22911-2/1986(H5N2)
A/goose/Shantou/106/2002(H6N2)
A/goose/Shantou/1321/2002(H6N2)
A/goose/Shantou/756/2002(H6N2)
A/goose/Shantou/879/2002(H6N2)
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A/goose/Yunnan/3798/2006(H5N1)
A/goose/Yunnan/4371/2006(H5N1)
A/goose/Yunnan/4985/2006(H5N1)
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A/goose/Zambia/06/2008(H3N8)
A/goose/Zambia/07/2008(H4N6)
A/goose/Zambia/09/2009(H11N9)

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A/gray teal/Western Australia/1855/1979(H4N6)
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A/great crested-grebe/Qinghai/1/2009(H5N1)
A/great crested grebe/Tyva/22/2010(H5N1)
A/great egret/Hong Kong/807/2008(H5N1)
A/greater white-fronted goose/California/44358-076/2007(H6N1)
A/greater white-fronted goose/California/44358-077/2007(H6N1)
A/greater white-fronted goose/California/44358-089/2007(H6N1)
A/greater white-fronted goose/California/44358-095/2007(H6N1)
A/greater white-fronted goose/California/44358-112/2007(H6N1)
A/greater white-fronted goose/California/AKS617/2007(H6N1)
A/greater white fronted goose/California/HKWF446/2007(H10N7)
A/Great Lakes/WRAIR1652P/2009(H1N1)
A/Great Lakes/WRAIR1664P/2009(H1N1)
A/grebe/Tyva/2/2010(H5N1)
A/grebe/Tyva/3/2009(H5N1)
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A/green winged teal/California/AKS1370/2008(H7N3)
A/green-winged teal/California/K218/2005(H4N6)
A/green-winged teal/California/K481/2006(H1N3)
A/green winged teal/Delaware/458672-5/2006(H5N2)
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A/green-winged teal/Interior Alaska/6MP1312/2006(H3N8)
A/green-winged teal/Interior Alaska/6MP1330/2006(H3N8)
A/green-winged teal/Interior Alaska/7MP1672R1/2007(mixed)
A/green-winged teal/Interior Alaska/8BM3706/2008(mixed)
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A/green-winged teal/LA/169GW/1988(H10N7)
A/green-winged teal/LA/9GW/1987(H11N9)
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A/green-winged teal/Minnesota/Sg-00131/2007(H3N2)
A/green-winged teal/Minnesota/Sg-00180/2007(H6N2)
A/green-winged teal/Minnesota/Sg-00199/2007(H6N2)
A/green-winged teal/Minnesota/Sg-00222/2007(H6N2)
A/green-winged teal/Nova Scotia/14687/2005(H4N6)
A/green winged teal/Ohio/464069/2006(H5N2)
A/green winged teal/Ohio/468160/2006(H5N2)
A/green-winged teal/Ohio/960/2002(H3N8)
A/grey heron/Hong Kong/1046/2008(H5N1)
A/grey heron/Hong Kong/3088/2007(H5N1)
A/greylag goose/Netherlands/4/1999(H6N1)
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A/Guam/NHRC0002/2009(H1N1)

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A/Guinea fowl/New York/23165-12/2005(H7N2)
A/Guinea fowl/New York/31621-8/2005(H7N2)
A/Guinea fowl/New York/32084/2006(H7N2)
A/Guinea fowl/New York/37982-3/2005(H7N2)
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A/Guinea fowl/New York/98616-3/2005(H7N2)

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A/Guinea fowl/Oregon/459674-5/2006(H5N2)
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A/gull/Maryland/19/1977(H2N9)
A/gull/Moscow/3100/2006(H6N2)
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A/Gunma/07G006/2008(H1N1)
A/Gunma/08G006/2009(H1N1)
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A/herring gull/Mongolia/454/2008(H13N8)
A/herring gull/Netherlands/4/2006(H10N4)
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A/Korea/CJ68/2009(H1N1)
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A/Lagos/WRAIR1984N/2009(H1N1)
A/Lagos/WRAIR1984T/2009(H1N1)
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A/laughing gull/Delaware Bay/6/2006(H7N3)
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A/mallard/Maryland/338/2003(H2N3)
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A/northern pintail/Interior Alaska/8BM3731/2008(H3N8)

A/northern pintail/Interior Alaska/8BM3736/2008(H12N5)
A/northern pintail/Interior Alaska/8MP0262R2/2008(H7N3)
A/northern pintail/Interior Alaska/8MP0689/2008(H8N4)
A/northern pintail/Oregon/44249-559/2006(H3N8)
A/northern pintail/Saskatchewan/22910/2007(H3N2)
A/northern pintail/South Dakota/Sg-00126/2007(H3N2)
A/northern pintail/Utah/469648/2006(H5N2)
A/northern shoveler/Alaska/7MP0954/2007(H4N6)
A/northern shoveler/Alaska/7MP1026/2007(H3N8)
A/northern shoveler/Alaska/7MP1113/2007(H4N6)
A/northern shoveler/Alaska/7MP1606/2007(H3N8)
A/northern shoveler/Alaska/7MP1668/2007(H3N8)
A/northern shoveler/Alaska/7MP1669B/2007(H3N8)
A/northern shoveler/Alaska/7MP1708/2007(H3N8)
A/northern shoveler/California/27820/2007(H7N3)
A/northern shoveler/California/27943/2007(H10N7)
A/northern shoveler/California/27985/2007(H7N6)
A/northern shoveler/California/44241-862/2006(H11N9)
A/northern shoveler/California/44287-088/2007(H10N7)
A/northern shoveler/California/44287-162/2007(H10N7)
A/northern shoveler/California/44287-164/2007(H7N7)
A/northern shoveler/California/44287-179/2007(H7N6)
A/northern shoveler/California/44287-364/2007(H7N3)
A/northern shoveler/California/44363-082/2007(H11N9)
A/northern shoveler/California/AKS273/2007(H8N4)
A/northern shoveler/California/HKWF1005/2007(H10N3)
A/northern shoveler/California/HKWF1021/2007(H3N7)
A/northern shoveler/California/HKWF1026/2007(H7N3)
A/northern shoveler/California/HKWF1046/2007(H3N5)
A/northern shoveler/California/HKWF1131/2007(H3N5)
A/northern shoveler/California/HKWF115/2007(H6N1)
A/northern shoveler/California/HKWF1199/2007(H3N5)
A/northern shoveler/California/HKWF1201/2007(H3N5)
A/northern shoveler/California/HKWF1203/2007(H8N4)
A/northern shoveler/California/HKWF1204/2007(H8N4)
A/northern shoveler/California/HKWF1325/2007(H8N4)
A/northern shoveler/California/HKWF1370/2007(H10N3)
A/northern shoveler/California/HKWF2031/2008(H7N3)
A/northern shoveler/California/HKWF216/2007(H6N1)
A/northern shoveler/California/HKWF268/2007(H6N2)
A/northern shoveler/California/HKWF383/2007(H6N1)
A/northern shoveler/California/HKWF392sm/2007(H10N7)
A/northern shoveler/California/HKWF569/2007(H3N1)
A/northern shoveler/California/HKWF608/2007(H10N7)
A/northern shoveler/California/HKWF611/2007(H11N9)
A/northern shoveler/California/HKWF96/2007(H10N7)
A/northern shoveler/California/HKWF979/2007(H3N3)
A/northern shoveler/California/JN587/2006(H10N3)
A/northern shoveler/California/K138/2005(H6N2)
A/northern shoveler/California/K168/2005(H1N9)

A/northern shoveler/Illinois/08OS3331/2008(H4N8)
A/northern shoveler/Interior Alaska/1/2007(H12N5)
A/northern shoveler/Interior Alaska/1/2007(H3N8)
A/northern shoveler/Interior Alaska/1/2007(H4N6)
A/northern shoveler/Interior Alaska/2/2007(H3N8)
A/northern shoveler/Interior Alaska/3/2007(H3N8)
A/northern shoveler/Interior Alaska/4/2007(H3N8)
A/northern shoveler/Interior Alaska/6MP1287/2006(H3N8)
A/northern shoveler/Interior Alaska/6MP1339/2006(H3N8)
A/northern shoveler/Interior Alaska/7MP0944/2007(H3N8)
A/northern shoveler/Interior Alaska/7MP0953/2007(H3N8)
A/northern shoveler/Interior Alaska/7MP1033/2007(H3N8)
A/northern shoveler/Interior Alaska/7MP1077/2007(H1N1)
A/northern shoveler/Interior Alaska/7MP1080/2007(H3N8)
A/northern shoveler/Interior Alaska/7MP1081/2007(H1N1)
A/northern shoveler/Interior Alaska/7MP1649/2007(H3N8)
A/northern shoveler/Interior Alaska/7MP1670/2007(H3N8)
A/northern shoveler/Interior Alaska/7MP1765/2007(H3N8)
A/northern shoveler/Interior Alaska/7MP1766/2007(H3N8)
A/northern shoveler/Interior Alaska/7MP1796/2007(mixed)
A/northern shoveler/Interior Alaska/7MP1800/2007(mixed)
A/northern shoveler/Interior Alaska/8BM3470/2008(H9N2)
A/northern shoveler/Interior Alaska/8BM3684/2008(mixed)
A/northern shoveler/Mississippi/09OS025/2009(H12N5)
A/northern shoveler/Mississippi/09OS168/2009(H10N6)
A/northern shoveler/Mississippi/09OS643/2009(H7N7)
A/Northern shoveler/NC/6412-052/2005(H7N6)
A/northern shoveler/Netherlands/1/2006(H8N4)
A/northern shoveler/Oregon/44336-179/2007(H4N6)
A/northern shoveler/TX/56/2000(H10N7)
A/northern shoveler/Washington/44249-603/2006(H6N1)
A/northern shoveler/Washington/44249-645/2006(H5N2)
A/northern shoveler/Washington/44249-664/2006(H7N3)
A/northern shoveler/Washington/44249-675/2006(H10N2)
A/northern shoveler/Washington/44249-700/2006(H10N1)
A/northern shoveler/Washington/44249-731/2006(H10N7)
A/northern shoveler/Washington/44249-749/2006(H7N3)
A/northern shoveler/Washington/44249-752/2006(H7N3)
A/northern shoveler/Washington/44249-765/2006(H10N2)
A/northern shoveler/Washington/44249-783/2006(H7N3)
A/Northern shoveler/Washington/467923/2006(H5N2)
A/Norway/2924/2009(H1N1)
A/Norway/3206-3/2009(H1N1)
A/Novosibirsk/02/2009(H1N1)
A/Nsk/NIV10348/2009(H1N1)
A/Odense/INS143/2009(H1N1)
A/Odense/INS176/2009(H1N1)
A/Odense/INS177/2009(H1N1)
A/Odense/INS307/2009(H1N1)
A/Odense/INS308/2009(H1N1)

A/Ohio/07/2009(H1N1)
A/Ohio/UR06-0296/2007(H1N1)
A/Ohio/UR06-0493/2007(H1N1)
A/Ohio/UR06-0591/2007(H1N1)
A/Ohio/UR07-0005/2008(H3N2)
A/Ohio/UR07-0013/2008(H3N2)
A/Ohio/UR07-0016/2008(H3N2)
A/Ohio/UR07-0031/2008(H3N2)
A/Ohio/UR07-0035/2008(H3N2)
A/Ohio/UR07-0043/2008(H3N2)
A/Ohio/UR07-0058/2008(H3N2)
A/Ohio/UR07-0089/2008(H3N2)
A/Ohio/UR07-0105/2008(H3N2)
A/Ohio/UR07-0126/2008(H3N2)
A/Ohio/UR07-0140/2008(H3N2)
A/Omsk/02/2009(H1N1)
A/Ontario/10016/2009(H1N1)
A/Ontario/10296/2009(H1N1)
A/Ontario/1252/2007(H3N2)
A/Ontario/130741/2010(H1N1)
A/Ontario/142358/2009(H1N1)
A/Ontario/147265/2009(H1N1)
A/Ontario/147723/2009(H1N1)
A/Ontario/152439/2009(H1N1)
A/Ontario/152846/2009(H1N1)
A/Ontario/156785/2009(H1N1)
A/Ontario/222656/2009(H1N1)
A/Ontario/235657/2009(H1N1)
A/Ontario/237882/2009(H1N1)
A/Ontario/25389/2009(H1N1)
A/Ontario/25913/2009(H1N1)
A/Ontario/26184/2009(H1N1)
A/Ontario/296008/2009(H1N1)
A/Ontario/29801/2009(H1N1)
A/Ontario/304434/2009(H1N1)
A/Ontario/305139/2009(H1N1)
A/Ontario/305598/2009(H1N1)
A/Ontario/308054/2009(H1N1)
A/Ontario/309862/2009(H1N1)
A/Ontario/313762/2009(H1N1)
A/Ontario/314095/2009(H1N1)
A/Ontario/314137/2009(H1N1)
A/Ontario/314603/2009(H1N1)
A/Ontario/315003/2009(H1N1)
A/Ontario/315015/2009(H1N1)
A/Ontario/315047/2009(H1N1)
A/Ontario/315107/2009(H1N1)
A/Ontario/315181/2009(H1N1)
A/Ontario/315187/2009(H1N1)
A/Ontario/315613/2009(H1N1)

A/Ontario/315637/2009(H1N1)
A/Ontario/320266/2009(H1N1)
A/Ontario/328474/2009(H1N1)
A/Ontario/35273/2009(H1N1)
A/Ontario/3620/2010(H1N1)
A/Ontario/720545/2010(H1N1)
A/Ontario/778873/2010(H1N1)
A/Ontario/804635/2010(H1N1)
A/Ontario/9698/2009(H1N1)
A/Ontario/9739/2009(H1N1)
A/open-bill stork/Thailand/VSMU-15-ATG/2005(H5N1)
A/open-bill stork/Thailand/VSMU-20-AYA/2004(H5N1)
A/open-bill stork/Thailand/VSMU-9-BKK/2004(H5N1)
A/Oregon/UR06-0609/2007(H1N1)
A/Orenburg/IIV2974/2009(H1N1)
A/Osaka/1/2009(H1N1)
A/Osaka/180/2009(H1N1)
A/Osaka/2/2009(H1N1)
A/Osaka-C/1/2009(H1N1)
A/Osaka-C/2/2009(H1N1)
A/Oslo/INS110/2009(H1N1)
A/Oslo/INS219/2009(H1N1)
A/Oslo/INS404/2009(H1N1)
A/ostrich/Suzhou/097/2003(H5N1)
A/Panama/2007/1999(H3N2)
A/Paris/2573/2009(H1N1)
A/Paris/2580/2009(H1N1)
A/Paris/2590/2009(H1N1)
A/Paris/2591/2009(H1N1)
A/Paris/2592/2009(H1N1)
A/Paris/2629/2009(H1N1)
A/pekin duck/California/P30/2006(H4N2)
A/pelican/Zambia/01/2006(H3N6)
A/pelican/Zambia/13/2009(H9N1)
A/Pendleton/WRAIR1661P/2009(H1N1)
A/Pennsylvania/PIT02/2008(H3N2)
A/Pennsylvania/PIT04/2008(H3N2)
A/Pennsylvania/PIT05/2008(H3N2)
A/Pennsylvania/PIT06/2008(H3N2)
A/Pennsylvania/PIT08/2008(H3N2)
A/Pennsylvania/PIT12/2008(H3N2)
A/Pennsylvania/PIT20/2008(H3N2)
A/Pennsylvania/PIT22/2008(H3N2)
A/Pennsylvania/PIT25/2008(H3N2)
A/Pennsylvania/PIT31/2008(H3N2)
A/Pennsylvania/PIT34/2008(H3N2)
A/Pennsylvania/PIT39/2008(H3N2)
A/Pennsylvania/PIT42/2008(H3N2)
A/Pennsylvania/PIT43/2008(H3N2)
A/Pensacola/INS107/2009(H1N1)

A/Pensacola/INS108/2009(H1N1)
A/Pensacola/INS109/2009(H1N1)
A/Pensacola/INS210/2009(H1N1)
A/Pensacola/INS211/2009(H1N1)
A/Pensacola/INS212/2009(H1N1)
A/Pensacola/INS213/2009(H1N1)
A/Pensacola/INS233/2009(H1N1)
A/Pensacola/INS234/2009(H1N1)
A/Pensacola/INS235/2009(H1N1)
A/Pensacola/INS37/2009(H1N1)
A/Pensacola/INS38/2009(H1N1)
A/Pensacola/INS39/2009(H1N1)
A/peregrine falcon/Aomori/7/2011(H5N1)
A/peregrine falcon/Hong Kong/2142/2008(H5N1)
A/peregrine falcon/Tochigi/15/2011(H5N1)
A/Perm/01/2009(H1N1)
A/Peru/WRAIR1295P/2007(H1N1)
A/Peru/WRAIR1296P/2007(H1N1)
A/Peru/WRAIR1298P/2007(H1N1)
A/Peru/WRAIR1299P/2007(H1N1)
A/Peru/WRAIR1300P/2007(H1N1)
A/Peru/WRAIR1310P/2007(H1N1)
A/Peru/WRAIR1311P/2007(H1N1)
A/Peru/WRAIR1376P/2007(H1N1)
A/Peru/WRAIR1377P/2007(H1N1)
A/Peru/WRAIR1378P/2007(H1N1)
A/Peru/WRAIR1505P/2007(H1N1)
A/Peru/WRAIR1508P/2007(H3N2)
A/Peru/WRAIR1509P/2007(H1N1)
A/pheasant/Shantou/4567/2002(H5N1)
A/Philippines/2/1982(H3N2)
A/Philippines/2-MA/1982(H3N2)
A/pied magpie/Liaoning/7/2006(H5N1)
A/pigeon/Laos/P0022/2007(H5N1)
A/pigeon/Rostov-on-Don/6/2007(H5N1)
A/pigeon/Thailand/VSMU-11-KRI/2005(H5N1)
A/pigeon/Thailand/VSMU-13-KRI/2005(H5N1)
A/pigeon/Thailand/VSMU-7-NPT/2004(H5N1)
A/pika/Qinghai/BI/2007(H5N1)
A/pink-footed goose/Netherlands/1/2006(H9N2)
A/pintail/Alaska/314/2005(mixed)
A/pintail/Alberta/21/2006(H1N1)
A/pintail/Minnesota/479/1999(H3N6)
A/Piura/WRAIR0603F/2009(H1N1)
A/Piura/WRAIR1694P/2009(H1N1)
A/Potsdam/2/1965(H2N2)
A/Prague/196-81511/2009(H1N1)
A/Prague/197-81395/2009(H1N1)
A/Puerto Rico/8-1/1934(H1N1)
A/Puerto Rico/8/1934(H1N1)

A/Puerto Rico/8-SV14/1934(H1N1)
A/Puerto Rico/8-WG/1934(H1N1)
A/Pune/NIV6196/2009(H1N1)
A/Pune/NIV6447/2009(H1N1)
A/Pune/NIV8489/2009(H1N1)
A/Qatar/AF02/2008(H3N2)
A/quail/IN/38685/1993(H1N1)
A/quail/Italy/1117/1965(H10N8)
A/quail/Nakhon Pathom/NIAH7562/2005(H5N1)
A/quail/New York/30732-12/2005(H7N2)
A/quail/New York/501360/2007(H5N2)
A/quail/New York/63806-13/2005(H7N2)
A/quail/New York/89641/2005(H7N2)
A/quail/NJ/25254-22/1995(H10N7)
A/quail/Phathumthani/NIAH2711/2004(H5N1)
A/quail/Yogyakarta/UT1023/2004(H5N1)
A/quail/Yogyakarta/UT1075/2004(H5N1)
A/Quebec/144147/2009(H1N1)
A/Quebec/144180/2009(H1N1)
A/Quebec/147023/2009(H1N1)
A/Quebec/147365/2009(H1N1)
A/Quito/WR1589N/2009(H1N1)
A/raccoon dog/Shandong/sd1/2005(H5N1)
A/raccoon dog/Shandong/sd2/2005(H5N1)
A/red crested pochard/Mongolia/1915/2006(H3N6)
A/redhead/Alberta/11817/2005(H4N6)
A/red knot/DE/1587/2001(H10N7)
A/red knot/GA/1721/2001(H10N7)
A/red knot/NJ/1443/2001(H10N7)
A/red-necked stint/Australia/3/2004(H4N8)
A/red-necked stint/Australia/5/2004(H4N8)
A/red-necked stint/Western Australia/4094/1984(H4N8)
A/red-necked stint/Western Australia/4915/1984(H3N8)
A/red-necked stint/Western Australia/5745/1982(H12N9)
A/Rhode Island/02/2009(H1N1)
A/ring necked duck/California/HKWF402/2007(H6N1)
A/ring necked duck/California/HKWF515/2007(H6N1)
A/ring-necked duck/California/HKWF662/2007(H6N1)
A/ring-necked duck/California/K90/2005(H6N8)
A/ring-necked duck/Michigan/588/2006(mixed)
A/ring-necked duck/Minnesota/Sg-00066/2007(mixed)
A/ring-necked duck/Minnesota/Sg-00067/2007(H4N6)
A/ring-necked duck/Minnesota/Sg-00068/2007(H10N7)
A/ring-necked duck/Minnesota/Sg-00069/2007(mixed)
A/rock dove/Oregon/20547-003/2007(H1N2)
A/rock dove/Oregon/20547-004/2007(H1N2)
A/rook/Rostov-on-Don/26/2007(H5N1)
A/rosy-billed pochard/Argentina/CIP051-557/2007(H6N2)
A/rosy-billed pochard/Argentina/CIP051-575/2007(H6N8)
A/rosy-billed pochard/Argentina/CIP051-925/2008(H6N2)

A/Rotterdam/1957(H2N2)
A/ruddy shelduck/Mongolia/37/2005(H12N3)
A/ruddy shelduck/Mongolia/P52/2005(H12N3)
A/ruddy shelduck/Mongolia/X42/2009(H5N1)
A/ruddy turnstone/DE/1450/2001(H10N7)
A/ruddy turnstone/DE/1529/2001(H10N7)
A/ruddy turnstone/DE/323/2004(H10N7)
A/ruddy turnstone/DE/509531/2007(H5N1)
A/ruddy turnstone/Delaware/103/2007(H5N1)
A/ruddy turnstone/Delaware/291/2006(H6N1)
A/ruddy turnstone/Delaware/293/2006(H6N2)
A/ruddy turnstone/Delaware/752/2006(H7N7)
A/ruddy turnstone/Delaware Bay/108/2007(H7N3)
A/ruddy turnstone/Delaware Bay/121/2007(H7N3)
A/ruddy turnstone/Delaware Bay/123/2007(H7N3)
A/ruddy turnstone/Delaware Bay/279/2006(H7N3)
A/ruddy turnstone/Delaware Bay/283/2006(H7N3)
A/ruddy turnstone/New Jersey/563/2006(H7N2)
A/ruddy turnstone/New Jersey/581/2000(H12N5)
A/ruddy turnstone/NJ/1600/2001(H10N7)
A/ruddy turnstone/NJ/1605/2001(H10N7)
A/ruddy turnstone/NJ/1956/2001(H10N7)
A/ruddy turnstone/NJ/2002/2001(H10N7)
A/ruddy turnstone/NJ/203/2004(H10N7)
A/ruddy turnstone/NJ/238/2004(H10N7)
A/ruddy turnstone/NJ/327/2004(H5N7)
A/ruddy turnstone/NJ/335/2005(H3N6)
A/ruddy turnstone/NJ/350/2004(H10N7)
A/ruddy turnstone/NJ/357/2005(H3N6)
A/ruddy turnstone/NJ/823/2001(H10N7)
A/rufous-necked stint/Japan/6KS0279/2006(mixed)
A/Russia/01/2009(H1N1)
A/Russia/100/2009(H1N1)
A/Russia/12/2009(H1N1)
A/Russia/14/2009(H1N1)
A/Russia/165/2009(H1N1)
A/Russia/171/2009(H1N1)
A/Russia/178/2009(H1N1)
A/Russia/180/2009(H1N1)
A/Russia/190/2009(H1N1)
A/Russia/191/2009(H1N1)
A/Russia/19/2009(H1N1)
A/Russia/200/2009(H1N1)
A/Russia/4/2009(H1N1)
A/Russia/61/2009(H1N1)
A/Russia/74/2009(H1N1)
A/Sachsen-Anhalt/101/2009(H1N1)
A/Saitama/85/2009(H1N1)
A/Sakai/1/2009(H1N1)
A/Sakai/2/2009(H1N1)

A/saker falcon/Kuwait/0286/2007(H5N1)
A/Salekhard/01/2009(H1N1)
A/San Antonio/PR921/2009(H1N1)
A/San Antonio/PR922/2009(H1N1)
A/San Antonio/PR923/2009(H1N1)
A/sanderling/Delaware/449/2006(H9N2)
A/sanderling/NJ/1042/2005(H3N6)
A/San Diego/INS01/2009(H1N1)
A/San Diego/INS02/2009(H1N1)
A/San Diego/INS03/2009(H1N1)
A/San Diego/INS04/2009(H1N1)
A/San Diego/INS05/2009(H1N1)
A/San Diego/INS06/2009(H1N1)
A/San Diego/INS07/2009(H1N1)
A/San Diego/INS08/2009(H1N1)
A/San Diego/INS09/2009(H1N1)
A/San Diego/INS101/2009(H1N1)
A/San Diego/INS10/2009(H1N1)
A/San Diego/INS102/2009(H1N1)
A/San Diego/INS103/2009(H1N1)
A/San Diego/INS104/2009(H1N1)
A/San Diego/INS105/2009(H1N1)
A/San Diego/INS11/2009(H1N1)
A/San Diego/INS12/2009(H1N1)
A/San Diego/INS13/2009(H1N1)
A/San Diego/INS14/2009(H1N1)
A/San Diego/INS15/2009(H1N1)
A/San Diego/INS16/2009(H1N1)
A/San Diego/INS193/2009(H1N1)
A/San Diego/INS194/2009(H1N1)
A/San Diego/INS195/2009(H1N1)
A/San Diego/INS197/2009(H1N1)
A/San Diego/INS198/2009(H1N1)
A/San Diego/INS199/2009(H1N1)
A/San Diego/INS201/2009(H1N1)
A/San Diego/INS202/2009(H1N1)
A/San Diego/INS203/2009(H1N1)
A/San Diego/INS204/2009(H1N1)
A/San Diego/INS214/2009(H1N1)
A/San Diego/INS215/2009(H1N1)
A/San Diego/INS216/2009(H1N1)
A/San Diego/INS217/2009(H1N1)
A/San Diego/INS218/2009(H1N1)
A/San Diego/INS34/2009(H1N1)
A/San Diego/INS35/2009(H1N1)
A/San Diego/INS42/2009(H1N1)
A/San Diego/INS48/2009(H1N1)
A/San Diego/INS49/2009(H1N1)
A/San Diego/INS50/2009(H1N1)
A/San Diego/INS51/2009(H1N1)

A/San Diego/INS52/2009(H1N1)
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A/turkey/Israel/884/2005(H9N2)
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A/waterfowl/Colorado/476466-3/2007(H5N2)

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A/western grebe/Washington/20569-004/2007(H1N2)
A/whiskered tern/Egypt/04/2004(H6N2)
A/whistling swan/Shimane/468/1988(H10N4)
A/whitefronted goose/Netherlands/2/1999(H6N2)
A/white front goose/Alaska/446843/2006(H5N2)
A/white front goose/Alaska/477003/2007(H5N2)
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A/whooper swan/Aomori/1/2008(H5N1)
A/whooper swan/Aomori/2/2008(H5N1)
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