

## APPENDIX D

### Accession Numbers of the genes enrolled in the study

#### H1N1 Genes with accession numbers

SI No	Gene name with accession No
1	>gb GU433033.1 :21-1721 Influenza A virus (A/Novosibirsk/02/2009(H1N1)) segment 4 hemagglutinin (HA) gene, complete cds
2	>gi 89033082 gb DQ415318.1  Influenza A virus (A/TW/4845/99(H1N1)) HA gene, complete cds
3	>gb CY105230.1 :18-1715 Influenza A virus (A/HaNoi/BM862/2003(H1N1)) hemagglutinin (HA) gene, complete cds
4	>gb CY105174.1 :18-1715 Influenza A virus (A/HoChiMinh/HCM639/2006(H1N1)) hemagglutinin (HA) gene, complete cds
5	>gi 256383630 gb GQ499334.1  Influenza A virus (A/Washington/29/2009(H1N1)) segment 4 hemagglutinin (HA) gene, complete cds
6	>gi 243031627 gb GQ338409.1  Influenza A virus (A/Texas/37/2009(H1N1)) segment 4 hemagglutinin (HA) gene, complete cds
7	>gi 237651300 gb GQ160538.1  Influenza A virus (A/New Mexico/04/2009(H1N1)) segment 4 hemagglutinin (HA) gene, complete cds
8	>gb CY176942.1 :21-1721 Influenza A virus (A/Netherlands/602/2009(H1N1)) hemagglutinin (HA) gene, complete cds
9	>gb CY163864.1 :21-1718 Influenza A virus (A/Brisbane/59/2007(H1N1)) hemagglutinin (HA) gene, complete cds
10	>gb HM204579.1 :1-1701 Influenza A virus (A/Pune/NIV21123/2009(H1N1)) segment 4 hemagglutinin (HA) gene, complete cds
11	>gb HM204576.1 :1-1701 Influenza A virus (A/Nsk/NIV10348/2009(H1N1)) segment 4 hemagglutinin (HA) gene, complete cds
12	>gb HM204571.1 :1-1701 Influenza A virus (A/Blore/NIV1189/2009(H1N1)) segment 4 hemagglutinin (HA) gene, complete cds
13	>gi 758899355 ref NC_026433.1  Influenza A virus (A/California/07/2009(H1N1)) segment 4 hemagglutinin (HA) gene, complete cds
14	>gi 377520201 gb CY096806.1  Influenza A virus (A/Thailand/ICRC-BKK34004/2010(H1N1)) hemagglutinin (HA) gene, complete cds
15	>gb KJ942171.1 :1-759 Influenza A virus (A/Mumbai/4593/2010(H1N1)) segment 7 matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
16	>gb KF270585.1 :1-759 Influenza A virus (A/India/P131027/2013(H1N1)) segment 7 matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
17	>gb JX262211.1 :1-759 Influenza A virus (A/India/GWL01/2011(H1N1)) segment 7 matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds

18	>gb JF510037.1 :1-759 Influenza A virus (A/India/GWL_DSC/2010(H1N1)) segment 7 matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
19	>gb CY088641.1 :1-759 Influenza A virus (A/Pune/NIV10278/2009(H1N1)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
20	>gb CY088648.1 :1-759 Influenza A virus (A/Vadu/NIV1043725/2010(H1N1)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
21	>gb CY088655.1 :1-759 Influenza A virus (A/Rtng/NIV11650/2009(H1N1)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
22	>gb KF270585.1 :1-759 Influenza A virus (A/India/P131027/2013(H1N1)) segment 7 matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
23	>gb DQ415350.1 :1-759 Influenza A virus (A/TW/3355/97(H1N1)) M2 (M2) and M1 (M1) genes, complete cds
24	>gb AF258523.1 :26-784 Influenza A virus (A/Hong Kong/427/98(H1N1)) M1 and M2 genes, complete cds
25	>gb LK054735.1 :26-784 Influenza A virus (A/Paris/650/2004 (H1N1)), segment 7 complete cds
26	>gb CY148268.1 :15-773 Influenza A virus (A/Georgia/M5081/2012(H1N1)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
27	>gb CY176943.1 :14-772 Influenza A virus (A/Netherlands/602/2009(H1N1)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
28	>gb CY148236.1 :4-762 Influenza A virus (A/Netherlands/602/2009(H1N1)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
29	>gb CY148244.1 :14-772 Influenza A virus (A/Puerto Rico/8/1934(H1N1)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
30	>gb KC985112.1  Influenza A virus (A/India/P078750/2007(H1N1)) segment 6 neuraminidase (NA) gene, complete cds
31	>gb DQ415340.1  Influenza A virus (A/TW/4845/99(H1N1)) NA gene, complete cds
32	>gb GQ894896.1  Influenza A virus (A/Texas/19/2009(H1N1)) segment 6 neuraminidase (NA) gene, complete cds
33	>gb CY188067.1 :10-1419 Influenza A virus (A/Nicaragua/6388_04/2013(H1N1)) neuraminidase (NA) gene, complete cds
34	>gb CY182715.1  Influenza A virus (A/Houston/JMM_64/2012(H1N1)) neuraminidase (NA) gene, complete cds
35	>gb CY176878.1 :9-1418 Influenza A virus (A/Netherlands/602-6F12LP4/2009(H1N1)) neuraminidase (NA) gene, complete cds
36	>gb CY176748.1 :10-1419 Influenza A virus (A/Bangkok/INS3_681/2012(H1N1)) neuraminidase (NA) gene, complete cds
37	>gb CY128365.1 :9-1418 Influenza A virus (A/Viet Nam/15032004/2009(H1N1)) neuraminidase (NA) gene, complete cds
38	>gb CY120757.1 :9-1418 Influenza A virus (A/Brazil/AVS11/2011(H1N1)) neuraminidase (NA) gene, complete cds
39	>gb CY119236.1 :6-1418 Influenza A virus (A/Malaysia/1715991/2007(H1N1))

	neuraminidase (NA) gene, complete cds
40	>gb CY091697.1 :3-1412 Influenza A virus (A/Singapore/GP582/2011(H1N1)) neuraminidase (NA) gene, complete cds
41	>gi 523794172 gb KF280656.1  Influenza A virus (A/India/P1112874/2011(H1N1)) segment 5 nucleocapsid protein (NP) gene, complete cds
42	>gi 523794153 gb KF280664.1  Influenza A virus (A/India/P1114854/2011(H1N1)) segment 5 nucleocapsid protein (NP) gene, complete cds
43	>gi 523794134 gb KF280672.1  Influenza A virus (A/India/Nsk12388/2012(H1N1)) segment 5 nucleocapsid protein (NP) gene, complete cds
44	>gi 523794115 gb KF280680.1  Influenza A virus (A/India/P121716/2012(H1N1)) segment 5 nucleocapsid protein (NP) gene, complete cds
45	>gi 523794096 gb KF280688.1  Influenza A virus (A/India/P121717/2012(H1N1)) segment 5 nucleocapsid protein (NP) gene, complete cds
46	>gi 523794077 gb KF280696.1  Influenza A virus (A/India/P121773/2012(H1N1)) segment 5 nucleocapsid protein (NP) gene, complete cds
47	>gi 523794058 gb KF280704.1  Influenza A virus (A/India/P121778/2012(H1N1)) segment 5 nucleocapsid protein (NP) gene, complete cds
48	>gi 523794039 gb KF280712.1  Influenza A virus (A/India/P121939/2012(H1N1)) segment 5 nucleocapsid protein (NP) gene, complete cds
49	>gi 523794020 gb KF280720.1  Influenza A virus (A/India/P12946/2012(H1N1)) segment 5 nucleocapsid protein (NP) gene, complete cds
50	>gi 523794001 gb KF280728.1  Influenza A virus (A/India/VD122268/2012(H1N1)) segment 5 nucleocapsid protein (NP) gene, complete cds
51	>gi 523793982 gb KF280736.1  Influenza A virus (A/India/Nag132467/2013(H1N1)) segment 5 nucleocapsid protein (NP) gene, complete cds
52	>gi 523793963 gb KF280744.1  Influenza A virus (A/India/P131845/2013(H1N1)) segment 5 nucleocapsid protein (NP) gene, complete cds
53	>gi 523793944 gb KF280752.1  Influenza A virus (A/India/P132194/2013(H1N1)) segment 5 nucleocapsid protein (NP) gene, complete cds
54	>gi 397311320 gb JX262210.1  Influenza A virus (A/India/GWL02/2011(H1N1)) segment 5 nucleocapsid protein (NP) gene, complete cds
55	>gi 397311318 gb JX262209.1  Influenza A virus (A/India/GWL01/2011(H1N1)) segment 5 nucleocapsid protein (NP) gene, complete cds
56	>gi 343796061 gb CY084285.1  Influenza A virus

	(A/India/NIV1028816/2010(H1N1)) nucleocapsid protein (NP) gene, partial cds
57	>gi 343796041 gb CY084276.1  Influenza A virus (A/India/NIV1028800/2010(H1N1)) nucleocapsid protein (NP) gene, partial cds
58	>gi 343796013 gb CY084263.1  Influenza A virus (A/India/NIV34760/2010(H1N1)) nucleocapsid protein (NP) gene, partial cds
59	>gi 343795987 gb CY084251.1  Influenza A virus (A/India/NIV30784/2010(H1N1)) nucleocapsid protein (NP) gene, partial cds
60	>gi 343795963 gb CY084240.1  Influenza A virus (A/India/NIV29386/2010(H1N1)) nucleocapsid protein (NP) gene, partial cds
61	>gi 323135520 gb JF265674.1  Influenza A virus (A/India/Blore/2010(H1N1)) segment 5 nucleocapsid protein (NP) gene, complete cds
62	>gi 323135518 gb JF265673.1  Influenza A virus (A/India/GWL_DSC/2010(H1N1)) segment 5 nucleocapsid protein (NP) gene, complete cds
63	>gi 296491226 gb HM241725.1  Influenza A virus (A/Pune/NIV10604/2009(H1N1)) segment 5 nucleocapsid protein (NP) gene, partial cds
64	>gi 296491224 gb HM241718.1  Influenza A virus (A/Nsk/NIV10348/2009(H1N1)) segment 5 nucleocapsid protein (NP) gene, complete cds
65	>gi 296491208 gb HM241711.1  Influenza A virus (A/Ytml/NIV9438/2009(H1N1)) segment 5 nucleocapsid protein (NP) gene, complete cds
66	>gi 296491206 gb HM241704.1  Influenza A virus (A/Jalna/NIV9436/2009(H1N1)) segment 5 nucleocapsid protein (NP) gene, complete cds
67	>gi 296491204 gb HM241697.1  Influenza A virus (A/Che/NIV658/2009(H1N1)) segment 5 nucleocapsid protein (NP) gene, complete cds
68	>gi 273039038 gb GU292375.1  Influenza A virus (A/Blore/NIV236/2009(H1N1)) segment 5 nucleocapsid protein (NP) gene, partial cds
69	>gi 273039035 gb GU292376.1  Influenza A virus (A/Blore/NIV310/2009(H1N1)) segment 5 nucleocapsid protein (NP) gene, partial cds
70	>gi 273039032 gb GU292377.1  Influenza A virus (A/Hyd/NIV51/2009(H1N1)) segment 5 nucleocapsid protein (NP) gene, partial cds
71	>gi 273039029 gb GU292378.1  Influenza A virus (A/Pune/NIV6196/2009(H1N1)) segment 5 nucleocapsid protein (NP) gene, partial cds
72	>gi 273039026 gb GU292379.1  Influenza A virus (A/Pune/NIV6447/2009(H1N1)) segment 5 nucleocapsid protein (NP) gene, partial cds
73	>gi 273039023 gb GU292380.1  Influenza A virus (A/Pune/NIV8489/2009(H1N1)) segment 5 nucleocapsid protein (NP) gene, partial cds

74	>gi 343794751 gb CY088709.1  Influenza A virus (A/Mum/NIV9945/2009(H1N1)) nucleocapsid protein (NP) gene, complete cds
75	>gi 343794736 gb CY088702.1  Influenza A virus (A/Pune/NIV9355/2009(H1N1)) nucleocapsid protein (NP) gene, complete cds
76	>gi 343794720 gb CY088695.1  Influenza A virus (A/Pune/NIV759/2009(H1N1)) nucleocapsid protein (NP) gene, complete cds
77	>gi 343794704 gb CY088688.1  Influenza A virus (A/Mum/NIV5442/2009(H1N1)) nucleocapsid protein (NP) gene, complete cds
78	>gi 343794688 gb CY088681.1  Influenza A virus (A/Mum/NIV398/2009(H1N1)) nucleocapsid protein (NP) gene, complete cds
79	>gi 343794672 gb CY088674.1  Influenza A virus (A/Delhi/NIV3610/2009(H1N1)) nucleocapsid protein (NP) gene, complete cds
80	>gi 343794656 gb CY088667.1  Influenza A virus (A/Ngp/NIV22704/2010(H1N1)) nucleocapsid protein (NP) gene, complete cds
81	>gi 343794640 gb CY088660.1  Influenza A virus (A/Ngp/NIV14725/2009(H1N1)) nucleocapsid protein (NP) gene, complete cds
82	>gi 343794624 gb CY088653.1  Influenza A virus (A/Rtng/NIV11650/2009(H1N1)) nucleocapsid protein (NP) gene, complete cds
83	>gi 343794608 gb CY088646.1  Influenza A virus (A/Vadu/NIV1043725/2010(H1N1)) nucleocapsid protein (NP) gene, complete cds
84	>gi 343794592 gb CY088639.1  Influenza A virus (A/Pune/NIV10278/2009(H1N1)) nucleocapsid protein (NP) gene, complete cds
85	>gi 343794576 gb CY088632.1  Influenza A virus (A/Pune/NIV0953725/2009(H1N1)) nucleocapsid protein (NP) gene, complete cds
86	>gi 133754157 gb CY020456.1  Influenza A virus (A/India/6263/1980(H1N1)) segment 5, complete sequence cds
87	>gi 397311316 gb JX262208.1  Influenza A virus (A/India/GWL02/2011(H1N1)) segment 3 polymerase PA (PA) gene, complete cds
88	>gi 397311314 gb JX262207.1  Influenza A virus (A/India/GWL01/2011(H1N1)) segment 3 polymerase PA (PA) gene, complete cds
89	>gi 296491425 gb HM241724.1  Influenza A virus (A/Pune/NIV10604/2009(H1N1)) segment 3 polymerase PA (PA) gene, complete cds
90	>gi 296491423 gb HM241717.1  Influenza A virus (A/Nsk/NIV10348/2009(H1N1)) segment 3 polymerase PA (PA) gene, complete cds
91	>gi 296491421 gb HM241710.1  Influenza A virus (A/Ytml/NIV9438/2009(H1N1)) segment 3 polymerase PA (PA) gene, complete cds
92	>gi 296491419 gb HM241703.1  Influenza A virus (A/Jalna/NIV9436/2009(H1N1)) segment 3 polymerase PA (PA) gene, complete cds

93	>gi 296491417 gb HM241696.1  Influenza A virus (A/Che/NIV658/2009(H1N1)) segment 3 polymerase PA (PA) gene, complete cds
94	>gi 343794749 gb CY088708.1  Influenza A virus (A/Mum/NIV9945/2009(H1N1)) polymerase PA (PA) gene, complete cds
95	>gi 343794734 gb CY088701.1  Influenza A virus (A/Pune/NIV9355/2009(H1N1)) polymerase PA (PA) gene, complete cds
96	>gi 343794718 gb CY088694.1  Influenza A virus (A/Pune/NIV759/2009(H1N1)) polymerase PA (PA) gene, complete cds
97	>gi 343794702 gb CY088687.1  Influenza A virus (A/Mum/NIV5442/2009(H1N1)) polymerase PA (PA) gene, complete cds
98	>gi 343794686 gb CY088680.1  Influenza A virus (A/Mum/NIV398/2009(H1N1)) polymerase PA (PA) gene, complete cds
99	>gi 343794670 gb CY088673.1  Influenza A virus (A/Delhi/NIV3610/2009(H1N1)) polymerase PA (PA) gene, complete cds
100	>gi 343794654 gb CY088666.1  Influenza A virus (A/Ngp/NIV22704/2010(H1N1)) polymerase PA (PA) gene, complete cds
101	>gi 343794638 gb CY088659.1  Influenza A virus (A/Ngp/NIV14725/2009(H1N1)) polymerase PA (PA) gene, complete cds
102	>gi 343794622 gb CY088652.1  Influenza A virus (A/Rtng/NIV11650/2009(H1N1)) polymerase PA (PA) gene, complete cds
103	>gi 343794606 gb CY088645.1  Influenza A virus (A/Vadu/NIV1043725/2010(H1N1)) polymerase PA (PA) gene, complete cds
104	>gi 343794590 gb CY088638.1  Influenza A virus (A/Pune/NIV10278/2009(H1N1)) polymerase PA (PA) gene, complete cds
105	>gi 343794574 gb CY088631.1  Influenza A virus (A/Pune/NIV0953725/2009(H1N1)) polymerase PA (PA) gene, complete cds
106	>gi 323135524 gb JF265676.1  Influenza A virus (A/India/Blore/2010(H1N1)) segment 3 polymerase PA (PA) gene, complete cds
107	>gi 323135522 gb JF265675.1  Influenza A virus (A/India/GWL_DSC/2010(H1N1)) segment 3 polymerase PA (PA) gene, complete cds
108	>gi 523794167 gb KF280654.1  Influenza A virus (A/India/P1112874/2011(H1N1)) segment 3 polymerase PA (PA) and PA-X protein (PA-X) genes, complete cds
109	>gi 523794148 gb KF280662.1  Influenza A virus (A/India/P1114854/2011(H1N1)) segment 3 polymerase PA (PA) and PA-X protein (PA-X) genes, complete cds
110	>gi 523794129 gb KF280670.1  Influenza A virus (A/India/Nsk12388/2012(H1N1)) segment 3 polymerase PA (PA) and PA-X protein (PA-X) genes, complete cds
111	>gi 523794110 gb KF280678.1  Influenza A virus (A/India/P121716/2012(H1N1)) segment 3 polymerase PA (PA) and PA-X protein (PA-X) genes, complete cds
112	>gi 523794091 gb KF280686.1  Influenza A virus (A/India/P121717/2012(H1N1)) segment 3 polymerase PA (PA) and PA-X

	protein (PA-X) genes, complete cds
113	>gi 523794072 gb KF280694.1  Influenza A virus (A/India/P121773/2012(H1N1)) segment 3 polymerase PA (PA) and PA-X protein (PA-X) genes, complete cds
114	>gi 523794053 gb KF280702.1  Influenza A virus (A/India/P121778/2012(H1N1)) segment 3 polymerase PA (PA) and PA-X protein (PA-X) genes, complete cds
115	>gi 523794034 gb KF280710.1  Influenza A virus (A/India/P121939/2012(H1N1)) segment 3 polymerase PA (PA) and PA-X protein (PA-X) genes, complete cds
116	>gi 523794015 gb KF280718.1  Influenza A virus (A/India/P12946/2012(H1N1)) segment 3 polymerase PA (PA) and PA-X protein (PA-X) genes, complete cds
117	>gi 523793996 gb KF280726.1  Influenza A virus (A/India/VD122268/2012(H1N1)) segment 3 polymerase PA (PA) and PA-X protein (PA-X) genes, complete cds
118	>gi 523793977 gb KF280734.1  Influenza A virus (A/India/Nag132467/2013(H1N1)) segment 3 polymerase PA (PA) and PA-X protein (PA-X) genes, complete cds
119	>gi 523793958 gb KF280742.1  Influenza A virus (A/India/P131845/2013(H1N1)) segment 3 polymerase PA (PA) and PA-X protein (PA-X) genes, complete cds
120	>gi 523793939 gb KF280750.1  Influenza A virus (A/India/P132194/2013(H1N1)) segment 3 polymerase PA (PA) and PA-X protein (PA-X) genes, complete cds
121	>gi 328942925 gb JF764086.1  Influenza A virus (A/India/Blore/2010(H1N1)) segment 2 polymerase PB1 (PB1) gene and nonfunctional PB1-F2 protein (PB1-F2) gene, complete cds
122	>gi 328942923 gb JF764085.1  Influenza A virus (A/India/GWL_DSC/2010(H1N1)) segment 2 polymerase PB1 (PB1) gene and nonfunctional PB1-F2 protein (PB1-F2) gene, complete cds
123	>gi 523794165 gb KF280653.1  Influenza A virus (A/India/P1112874/2011(H1N1)) segment 2 polymerase PB1 (PB1) gene and nonfunctional PB1-F2 protein (PB1-F2) gene, complete cds
124	>gi 523794146 gb KF280661.1  Influenza A virus (A/India/P1114854/2011(H1N1)) segment 2 polymerase PB1 (PB1) gene and nonfunctional PB1-F2 protein (PB1-F2) gene, complete cds
125	>gi 523794127 gb KF280669.1  Influenza A virus (A/India/Nsk12388/2012(H1N1)) segment 2 polymerase PB1 (PB1) gene and nonfunctional PB1-F2 protein (PB1-F2) gene, complete cds
126	>gi 523794108 gb KF280677.1  Influenza A virus (A/India/P121716/2012(H1N1)) segment 2 polymerase PB1 (PB1) gene and nonfunctional PB1-F2 protein (PB1-F2) gene, complete cds
127	>gi 523794089 gb KF280685.1  Influenza A virus (A/India/P121717/2012(H1N1)) segment 2 polymerase PB1 (PB1) gene and nonfunctional PB1-F2 protein (PB1-F2) gene, complete cds
128	>gi 523794070 gb KF280693.1  Influenza A virus

	(A/India/P121773/2012(H1N1)) segment 2 polymerase PB1 (PB1) gene and nonfunctional PB1-F2 protein (PB1-F2) gene, complete cds
129	>gi 523794051 gb KF280701.1  Influenza A virus (A/India/P121778/2012(H1N1)) segment 2 polymerase PB1 (PB1) gene and nonfunctional PB1-F2 protein (PB1-F2) gene, complete cds
130	>gi 523794032 gb KF280709.1  Influenza A virus (A/India/P121939/2012(H1N1)) segment 2 polymerase PB1 (PB1) gene and nonfunctional PB1-F2 protein (PB1-F2) gene, complete cds
131	>gi 523794013 gb KF280717.1  Influenza A virus (A/India/P12946/2012(H1N1)) segment 2 polymerase PB1 (PB1) gene and nonfunctional PB1-F2 protein (PB1-F2) gene, complete cds
132	>gi 523793994 gb KF280725.1  Influenza A virus (A/India/VD122268/2012(H1N1)) segment 2 polymerase PB1 (PB1) gene and nonfunctional PB1-F2 protein (PB1-F2) gene, complete cds
133	>gi 523793975 gb KF280733.1  Influenza A virus (A/India/Nag132467/2013(H1N1)) segment 2 polymerase PB1 (PB1) gene and nonfunctional PB1-F2 protein (PB1-F2) gene, complete cds
134	>gi 523793956 gb KF280741.1  Influenza A virus (A/India/P131845/2013(H1N1)) segment 2 polymerase PB1 (PB1) gene and nonfunctional PB1-F2 protein (PB1-F2) gene, complete cds
135	>gi 523793937 gb KF280749.1  Influenza A virus (A/India/P132194/2013(H1N1)) segment 2 polymerase PB1 (PB1) gene and nonfunctional PB1-F2 protein (PB1-F2) gene, complete cds
136	>gi 296491530 gb HM241723.1  Influenza A virus (A/Pune/NIV10604/2009(H1N1)) segment 2 polymerase PB1 (PB1) gene and nonfunctional PB1-F2 protein (PB1-F2) gene, complete cds
137	>gi 296491527 gb HM241716.1  Influenza A virus (A/Nsk/NIV10348/2009(H1N1)) segment 2 polymerase PB1 (PB1) gene and nonfunctional PB1-F2 protein (PB1-F2) gene, complete cds
138	>gi 296491523 gb HM241709.1  Influenza A virus (A/Ytml/NIV9438/2009(H1N1)) segment 2 polymerase PB1 (PB1) gene and nonfunctional PB1-F2 protein (PB1-F2) gene, complete cds
139	>gi 296491521 gb HM241702.1  Influenza A virus (A/Jalna/NIV9436/2009(H1N1)) segment 2 polymerase PB1 (PB1) gene and nonfunctional PB1-F2 protein (PB1-F2) gene, complete cds
140	>gi 331693869 gb HQ154084.2  Influenza A virus (A/KOL/927/2009(H1N1)) segment 2 polymerase PB1 (PB1) gene and nonfunctional PB1-F2 protein (PB1-F2) gene, complete cds
141	>gi 331693867 gb HQ154078.2  Influenza A virus (A/KOL/230/2009(H1N1)) segment 2 polymerase PB1 (PB1) gene and nonfunctional PB1-F2 protein (PB1-F2) gene, complete cds
142	>gi 331693863 gb HM460510.2  Influenza A virus (A/KOL/2449/2009(H1N1)) segment 2 polymerase PB1 (PB1) gene and nonfunctional PB1-F2 protein (PB1-F2) gene, complete cds
143	>gi 331693861 gb HM460507.2  Influenza A virus (A/KOL/2086/2009(H1N1)) segment 2 polymerase PB1 (PB1) gene and nonfunctional PB1-F2 protein (PB1-F2) gene, complete cds



144	>gi 397311312 gb JX262206.1  Influenza A virus (A/India/GWL02/2011(H1N1)) segment 2 polymerase PB1 (PB1) gene, complete cds
145	>gi 397311310 gb JX262205.1  Influenza A virus (A/India/GWL01/2011(H1N1)) segment 2 polymerase PB1 (PB1) gene, complete cds
146	>gi 296491519 gb HM241695.1  Influenza A virus (A/Che/NIV658/2009(H1N1)) segment 2 polymerase PB1 (PB1) gene and nonfunctional PB1-F2 protein (PB1-F2) gene, complete cds
147	>gi 343794747 gb CY088707.1  Influenza A virus (A/Mum/NIV9945/2009(H1N1)) polymerase PB1 (PB1) gene and PB1-F2 gene, complete cds
148	>gi 343794732 gb CY088700.1  Influenza A virus (A/Pune/NIV9355/2009(H1N1)) polymerase PB1 (PB1) gene and PB1-F2 gene, complete cds
149	>gi 343794716 gb CY088693.1  Influenza A virus (A/Pune/NIV759/2009(H1N1)) polymerase PB1 (PB1) gene and PB1-F2 gene, complete cds
150	>gi 343794700 gb CY088686.1  Influenza A virus (A/Mum/NIV5442/2009(H1N1)) polymerase PB1 (PB1) gene and PB1-F2 gene, complete cds
151	>gi 343794684 gb CY088679.1  Influenza A virus (A/Mum/NIV398/2009(H1N1)) polymerase PB1 (PB1) gene and PB1-F2 gene, complete cds
152	>gi 343794668 gb CY088672.1  Influenza A virus (A/Delhi/NIV3610/2009(H1N1)) polymerase PB1 (PB1) gene and PB1-F2 gene, complete cds
153	>gi 343794652 gb CY088665.1  Influenza A virus (A/Ngp/NIV22704/2010(H1N1)) polymerase PB1 (PB1) gene and PB1-F2 gene, complete cds
154	>gi 343794636 gb CY088658.1  Influenza A virus (A/Ngp/NIV14725/2009(H1N1)) polymerase PB1 (PB1) gene and PB1-F2 gene, complete cds
155	>gi 343794620 gb CY088651.1  Influenza A virus (A/Rtng/NIV11650/2009(H1N1)) polymerase PB1 (PB1) gene and PB1-F2 gene, complete cds
156	>gi 343794604 gb CY088644.1  Influenza A virus (A/Vadu/NIV1043725/2010(H1N1)) polymerase PB1 (PB1) gene and PB1-F2 gene, complete cds
157	>gi 343794588 gb CY088637.1  Influenza A virus (A/Pune/NIV10278/2009(H1N1)) polymerase PB1 (PB1) gene and PB1-F2 gene, complete cds
158	>gi 343794572 gb CY088630.1  Influenza A virus (A/Pune/NIV0953725/2009(H1N1)) polymerase PB1 (PB1) gene and PB1-F2 gene, complete cds
159	>gi 331693881 gb HQ853559.1  Influenza A virus (A/KOL/929/2007(H1N1)) segment 2 polymerase PB1 (PB1) and PB1-F2 protein (PB1-F2) genes, complete cds

160	>gi 331693879 gb HQ853557.1  Influenza A virus (A/KOL/918/2007(H1N1)) segment 2 polymerase PB1 (PB1) and PB1-F2 protein (PB1-F2) genes, complete cds
161	>gi 331693865 gb HQ154076.2  Influenza A virus (A/KOL/46/2009(H1N1)) segment 2 polymerase PB1 (PB1) and PB1-F2 protein (PB1-F2) genes, complete cds
162	>gi 331693885 gb HQ853571.1  Influenza A virus (A/KOL/781/2009(H1N1)) segment 2 polymerase PB1 (PB1) and PB1-F2 protein (PB1-F2) genes, complete cds
163	>gi 331693883 gb HQ853567.1  Influenza A virus (A/KOL/968/2007(H1N1)) segment 2 polymerase PB1 (PB1) and PB1-F2 protein (PB1-F2) genes, complete cds
164	>gi 331693877 gb HQ853556.1  Influenza A virus (A/KOL/611/2007(H1N1)) segment 2 polymerase PB1 (PB1) and PB1-F2 protein (PB1-F2) genes, complete cds
165	>gi 331693875 gb HQ853555.1  Influenza A virus (A/KOL/596/2007(H1N1)) segment 2 polymerase PB1 (PB1) and PB1-F2 protein (PB1-F2) genes, complete cds
166	>gi 331693873 gb HQ853552.1  Influenza A virus (A/KOL/536/2007(H1N1)) segment 2 polymerase PB1 (PB1) and PB1-F2 protein (PB1-F2) genes, complete cds
167	>gi 331693871 gb HQ853550.1  Influenza A virus (A/KOL/507/2007(H1N1)) segment 2 polymerase PB1 (PB1) and PB1-F2 protein (PB1-F2) genes, complete cds
168	>gi 133754164 gb CY020459.1  Influenza A virus (A/India/6263/1980(H1N1)) segment 2, complete cds
169	>gi 397311308 gb JX262204.1  Influenza A virus (A/India/GWL02/2011(H1N1)) segment 1 polymerase PB2 (PB2) gene, complete cds
170	>gi 397311306 gb JX262203.1  Influenza A virus (A/India/GWL01/2011(H1N1)) segment 1 polymerase PB2 (PB2) gene, complete cds
171	>gi 523794163 gb KF280652.1  Influenza A virus (A/India/P1112874/2011(H1N1)) segment 1 polymerase PB2 (PB2) gene, complete cds
172	>gi 523794144 gb KF280660.1  Influenza A virus (A/India/P1114854/2011(H1N1)) segment 1 polymerase PB2 (PB2) gene, complete cds
173	>gi 523794125 gb KF280668.1  Influenza A virus (A/India/Nsk12388/2012(H1N1)) segment 1 polymerase PB2 (PB2) gene, complete cds
174	>gi 523794106 gb KF280676.1  Influenza A virus (A/India/P121716/2012(H1N1)) segment 1 polymerase PB2 (PB2) gene, complete cds
175	>gi 523794087 gb KF280684.1  Influenza A virus (A/India/P121717/2012(H1N1)) segment 1 polymerase PB2 (PB2) gene, complete cds
176	>gi 523794068 gb KF280692.1  Influenza A virus

	(A/India/P121773/2012(H1N1)) segment 1 polymerase PB2 (PB2) gene, complete cds
177	>gi 523794049 gb KF280700.1  Influenza A virus (A/India/P121778/2012(H1N1)) segment 1 polymerase PB2 (PB2) gene, complete cds
178	>gi 523794030 gb KF280708.1  Influenza A virus (A/India/P121939/2012(H1N1)) segment 1 polymerase PB2 (PB2) gene, complete cds
179	>gi 523794011 gb KF280716.1  Influenza A virus (A/India/P12946/2012(H1N1)) segment 1 polymerase PB2 (PB2) gene, complete cds
180	>gi 523793992 gb KF280724.1  Influenza A virus (A/India/VD122268/2012(H1N1)) segment 1 polymerase PB2 (PB2) gene, complete cds
181	>gi 523793973 gb KF280732.1  Influenza A virus (A/India/Nag132467/2013(H1N1)) segment 1 polymerase PB2 (PB2) gene, complete cds
182	>gi 523793954 gb KF280740.1  Influenza A virus (A/India/P131845/2013(H1N1)) segment 1 polymerase PB2 (PB2) gene, complete cds
183	>gi 523793935 gb KF280748.1  Influenza A virus (A/India/P132194/2013(H1N1)) segment 1 polymerase PB2 (PB2) gene, complete cds
184	>gi 296491611 gb HM241722.1  Influenza A virus (A/Pune/NIV10604/2009(H1N1)) segment 1 polymerase PB2 (PB2) gene, complete cds
185	>gi 296491609 gb HM241715.1  Influenza A virus (A/Nsk/NIV10348/2009(H1N1)) segment 1 polymerase PB2 (PB2) gene, complete cds
186	>gi 296491607 gb HM241708.1  Influenza A virus (A/Ytml/NIV9438/2009(H1N1)) segment 1 polymerase PB2 (PB2) gene, complete cds
187	>gi 296491605 gb HM241701.1  Influenza A virus (A/Jalna/NIV9436/2009(H1N1)) segment 1 polymerase PB2 (PB2) gene, complete cds
188	>gi 296491594 gb HM241694.1  Influenza A virus (A/Che/NIV658/2009(H1N1)) segment 1 polymerase PB2 (PB2) gene, complete cds
189	>gi 343794745 gb CY088706.1  Influenza A virus (A/Mum/NIV9945/2009(H1N1)) polymerase PB2 (PB2) gene, complete cds
190	>gi 343794730 gb CY088699.1  Influenza A virus (A/Pune/NIV9355/2009(H1N1)) polymerase PB2 (PB2) gene, complete cds
191	>gi 343794714 gb CY088692.1  Influenza A virus (A/Pune/NIV759/2009(H1N1)) polymerase PB2 (PB2) gene, complete cds
192	>gi 343794698 gb CY088685.1  Influenza A virus (A/Mum/NIV5442/2009(H1N1)) polymerase PB2 (PB2) gene, complete cds
193	>gi 343794682 gb CY088678.1  Influenza A virus (A/Mum/NIV398/2009(H1N1)) polymerase PB2 (PB2) gene, complete cds

194	>gi 343794666 gb CY088671.1  Influenza A virus (A/Delhi/NIV3610/2009(H1N1)) polymerase PB2 (PB2) gene, complete cds
195	>gi 343794650 gb CY088664.1  Influenza A virus (A/Ngp/NIV22704/2010(H1N1)) polymerase PB2 (PB2) gene, complete cds
196	>gi 343794634 gb CY088657.1  Influenza A virus (A/Ngp/NIV14725/2009(H1N1)) polymerase PB2 (PB2) gene, complete cds
197	>gi 343794618 gb CY088650.1  Influenza A virus (A/Rtng/NIV11650/2009(H1N1)) polymerase PB2 (PB2) gene, complete cds
198	>gi 343794602 gb CY088643.1  Influenza A virus (A/Vadu/NIV1043725/2010(H1N1)) polymerase PB2 (PB2) gene, complete cds
199	>gi 343794586 gb CY088636.1  Influenza A virus (A/Pune/NIV10278/2009(H1N1)) polymerase PB2 (PB2) gene, complete cds
200	>gi 343794570 gb CY088629.1  Influenza A virus (A/Pune/NIV0953725/2009(H1N1)) polymerase PB2 (PB2) gene, complete cds
201	>gi 323135528 gb JF265678.1  Influenza A virus (A/India/GWL_DSC/2010(H1N1)) segment 1 polymerase PB2 (PB2) gene, complete cds
202	>gi 323135526 gb JF265677.1  Influenza A virus (A/India/Blore/2010(H1N1)) segment 1 polymerase PB2 (PB2) gene, complete cds

### H1N2 genes with accession numbers

SI No	Gene name with accession No
1	>gb JQ290156.1 Influenza A virus (A/Minnesota/19/2011(H1N2)) segment 4 hemagglutinin (HA) gene, complete cds
2	>gb CY121149.1  Influenza A virus (A/reassortant/X-7F1(X-7 x Rockefeller Institute/5/1957)(H1N2)) hemagglutinin (HA) gene, complete cds
3	>gi 208972351 gb FJ231786.1  Influenza A virus (A/Sachsen/2005.03.02/2002(H1N2)) segment 4 hemagglutinin (HA) gene, complete cds
4	>gi 158830256 gb EU097962.1  Influenza A virus (A/Denmark/50/2003(H1N2)) hemagglutinin (HA) gene, complete cds
5	>gi 208972359 gb FJ231790.1  Influenza A virus (A/Rheinland-Pfalz/34/2003(H1N2)) segment 4 hemagglutinin (HA) gene, complete cds
6	>gb CY006107.1  Influenza A virus (A/New York/219/2003(H1N2)) segment 4, complete cds
7	>gb CY003761.1  Influenza A virus (A/New York/400/2003(H1N2)) segment 4, complete cds
8	>gb CY003368.1  Influenza A virus (A/New York/217/2002(H1N2)) segment 4, complete cds
9	>gb CY002992.1  Influenza A virus (A/New York/226/2003(H1N2)) segment 4, complete cds

10	>gb CY002664.1  Influenza A virus (A/New York/297/2003(H1N2)) segment 4, complete cds
11	>gb CY002656.1  Influenza A virus (A/New York/294/2003(H1N2)) segment 4, complete cds
12	>gb CY002632.1  Influenza A virus (A/New York/231/2003(H1N2)) segment 4, complete cds
13	>gb CY002360.1  Influenza A virus (A/New York/300/2003(H1N2)) segment 4, complete cds
14	>gb CY002152.1  Influenza A virus (A/New York/296/2003(H1N2)) segment 4, complete cds
15	>gi 208972357 gb FJ231789.1  Influenza A virus (A/Baden-Wuerttemberg/129/2003(H1N2)) segment 4 hemagglutinin (HA) gene, complete cds
16	>gb CY146817.1  Influenza A virus (A/PAL/unknown(H1N2)) hemagglutinin (HA) gene, complete cds
17	>gb CY001680.2  Influenza A virus (A/New York/78/2002(H1N2)) segment 4, complete cds
18	>gb CY045844.1  Influenza A virus (A/NWS-F(NWS/1934-Rockefeller Institute/5/1957)(H1N2)) segment 4, complete cds
19	>gi 165935543 gb EU249176.1  Influenza A virus (A/Baden-Wuerttemberg/129/2003(H1N2)) M2 protein and M1 protein genes, complete cds
20	>gi 165935540 gb EU249175.1  Influenza A virus (A/Baden-Wuerttemberg/20/2003(H1N2)) M1 protein gene, complete cds
21	>gi 512244245 gb CY146818.1  Influenza A virus (A/PAL/unknown(H1N2)) matrix protein 1 (M1) genes, complete cds
22	>gi 392340852 gb CY121142.1  Influenza A virus (A/reassortant/X-7(NWS/1934 x Rockefeller Institute/5/1957)(H1N2)) matrix protein 1 (M1) genes, complete cds
23	>gi 392341173 gb CY121150.1  Influenza A virus (A/reassortant/X-7F1(X-7 x Rockefeller Institute/5/1957)(H1N2)) matrix protein 1 (M1) genes, complete cds
24	>gi 165935546 gb EU249177.1  Influenza A virus (A/Rheinland-Pfalz/34/2003(H1N2)) M1 protein genes, complete cds
25	>gi 165935534 gb EU249173.1  Influenza A virus (A/Sachsen/05.03.02/2002(H1N2)) M1 protein genes, complete cds
26	>gi 165935537 gb EU249174.1  Influenza A virus (A/Sachsen/11.03.02/2002(H1N2)) M1 protein genes, complete cds
27	>gi 165935549 gb EU249178.1  Influenza A virus (A/Sachsen/678/2003(H1N2)) M1 protein genes, complete cds
28	>gi 550848697 gb KF680289.1  Influenza A virus (A/swine/Brazil/31_11_3/2011(H1N2)) segment 7 matrix protein 1 (M1) genes, complete cds
29	>gi 701168924 gb KP027588.1  Influenza A virus (A/swine/Brazil/G2P1/2013(H1N2)) segment 7 matrix protein 1 (M1) genes,

	complete cds			
30	>gi 701168905 gb KP027596.1	Influenza A virus	(A/swine/Brazil/G2P2/2013(H1N2)) segment 7 matrix protein 1 (M1) genes, complete cds	
31	>gi 530539414 gb KF514382.1	Influenza A virus	(A/swine/Denmark/10302-2/2012(H1N2)) segment 7 matrix protein 1 (M1) genes, complete cds	
32	>gi 82622936 gb DQ280234.1	Influenza A virus	(A/swine/Ontario/48235/04(H1N2)) matrix protein 1 (M1) genes, complete cds	
33	>gi 82622922 gb DQ280228.1	Influenza A virus	(A/swine/Ontario/52156/03(H1N2)) matrix protein 1 (M1) genes, complete cds	
34	>gi 82622882 gb DQ280210.1	Influenza A virus	(A/swine/Ontario/55383/04(H1N2)) matrix protein 1 (M1) genes, complete cds	
35	>gi 317016294 gb HQ840333.1	Influenza A virus	(A/swine/South Dakota/152B/2009(H1N2)) segment 7 matrix protein 1 (M1) genes, complete cds	
36	>gi 545265189 gb KF572619.1	Influenza A virus	(A/wild boar/Brazil/214-11-13D/2011(H1N2)) segment 7 matrix protein 1 (M1) genes, complete cds	
37	>gi 165935543 gb EU249176.1	Influenza A virus	(A/Baden-Wuerttemberg/129/2003(H1N2)) M2 protein gene, complete cds	
38	>gi 165935540 gb EU249175.1	Influenza A virus	(A/Baden-Wuerttemberg/20/2003(H1N2)) M2 protein genes, complete cds	
39	>gi 512244245 gb CY146818.1	Influenza A virus	(A/PAL/unknown(H1N2)) matrix protein 2 (M2) gene, complete cds	
40	>gi 392340852 gb CY121142.1	Influenza A virus	(A/reassortant/X-7(NWS/1934 x Rockefeller Institute/5/1957)(H1N2)) matrix protein 2 (M2) genes, complete cds	
41	>gi 392341173 gb CY121150.1	Influenza A virus	(A/reassortant/X-7F1(X-7 x Rockefeller Institute/5/1957)(H1N2)) matrix protein 2 (M2) gene, complete cds	
42	>gi 165935546 gb EU249177.1	Influenza A virus	(A/Rheinland-Pfalz/34/2003(H1N2)) M2 protein genes, complete cds	
43	>gi 165935534 gb EU249173.1	Influenza A virus	(A/Sachsen/05.03.02/2002(H1N2)) M2 protein gene, complete cds	
44	>gi 165935537 gb EU249174.1	Influenza A virus	(A/Sachsen/11.03.02/2002(H1N2)) M2 protein genes, complete cds	
45	>gi 165935549 gb EU249178.1	Influenza A virus	(A/Sachsen/678/2003(H1N2)) M2 protein genes, complete cds	
46	>gi 550848697 gb KF680289.1	Influenza A virus	(A/swine/Brazil/31_11_3/2011(H1N2)) segment 7 matrix protein 2 (M2) genes, complete cds	
47	>gi 701168924 gb KP027588.1	Influenza A virus	(A/swine/Brazil/G2P1/2013(H1N2)) segment 7 matrix protein 2 (M2) genes, complete cds	
48	>gi 701168905 gb KP027596.1	Influenza A virus	(A/swine/Brazil/G2P2/2013(H1N2)) segment 7 matrix protein 2 (M2) genes,	

	complete cds				
49	>gi 530539414 gb KF514382.1  Influenza A virus (A/swine/Denmark/10302-2/2012(H1N2)) segment 7 matrix protein 2 (M2) genes, complete cds				
50	>gi 82622936 gb DQ280234.1  Influenza A virus (A/swine/Ontario/48235/04(H1N2)) matrix protein 2 (M2) genes, complete cds				
51	>gi 82622922 gb DQ280228.1  Influenza A virus (A/swine/Ontario/52156/03(H1N2)) matrix protein 2 (M2), complete cds				
52	>gi 82622882 gb DQ280210.1  Influenza A virus (A/swine/Ontario/55383/04(H1N2)) matrix protein 2 (M2) genes, complete cds				
53	>gi 317016294 gb HQ840333.1  Influenza A virus (A/swine/South Dakota/152B/2009(H1N2)) segment 7 matrix protein 2 (M2) genes, complete cds				
54	>gi 545265189 gb KF572619.1  Influenza A virus (A/wild boar/Brazil/214-11-13D/2011(H1N2)) segment 7 matrix protein 2 (M2)genes, complete cds				
55	>gi 208972457 gb FJ231839.1  Influenza A virus (A/Baden-Wuerttemberg/20/2003(H1N2)) segment 6 neuraminidase (NA) gene, complete cds				
56	>gi 24850065 gb AF503469.1  Influenza A virus (A/Egypt/21181/2001(H1N2)) neuraminidase (NA) gene, complete cds				
57	>gi 24850067 gb AF503470.1  Influenza A virus (A/India/66139/2001(H1N2)) neuraminidase (NA) gene, complete cds				
58	>gi 24850069 gb AF503471.1  Influenza A virus (A/India/77251/2001(H1N2)) neuraminidase (NA) gene, complete cds				
59	>gi 392857564 gb CY122317.1 Influenza A virus (A/Memphis/8/2003(H1N2)) neuraminidase (NA) gene, complete cds				
60	>gi 24850057 gb AF503465.1  Influenza A virus (A/Nevada/5/2001(H1N2)) neuraminidase (NA) gene, complete cds				
61	>gi 73665675 gb CY002354.1  Influenza A virus (A/New York/209/2003(H1N2)) segment 6, complete cds				
62	>gi 83658760 gb CY006869.1  Influenza A virus (A/New York/211/2003(H1N2)) segment 6, complete cds				
63	>gi 77746801 gb CY003370.1  Influenza A virus (A/New York/217/2002(H1N2)) segment 6, complete cds				
64	>gi 83026891 gb CY006749.1  Influenza A virus (A/New York/225/2003(H1N2)) segment 6, complete cds				
65	>gi 90571902 gb CY010078.1  Influenza A virus (A/New York/229/2003(H1N2)) segment 6, complete cds				
66	>gi 74422588 gb CY002634.1  Influenza A virus (A/New York/231/2003(H1N2)) segment 6, complete cds				
67	>gi 74422757 gb CY002658.1  Influenza A virus (A/New York/294/2003(H1N2)) segment 6, complete cds				
68	>gi 72542995 gb CY002154.1  Influenza A virus (A/New York/296/2003(H1N2)) segment 6, complete cds				
69	>gi 74477271 gb CY002666.1  Influenza A virus (A/New				

York/297/2003(H1N2)) segment 6, complete cds					
70	>gi 24850071 gb AF503472.1	Influenza	A	virus	(A/Oman/16353/2001(H1N2)) neuraminidase (NA) gene, complete cds
71	>gi 392340857 gb CY121143.1	Influenza	A	virus	(A/reassortant/X-7(NWS/1934 x Rockefeller Institute/5/1957)(H1N2)) neuraminidase (NA) gene, complete cds
72	>gi 208972461 gb FJ231841.1	Influenza	A	virus	(A/Rheinland-Pfalz/34/2003(H1N2)) segment 6 neuraminidase (NA) gene, complete cds
73	>gi 208972463 gb FJ231842.1	Influenza	A	virus	(A/Sachsen/678/2003(H1N2)) segment 6 neuraminidase (NA) gene, complete cds
74	>gi 24850063 gb AF503468.1	Influenza	A	virus	(A/Singapore/73/2001(H1N2)) neuraminidase (NA) gene, complete cds
75	>gi 24850055 gb AF503464.1	Influenza	A	virus	(A/Texas/7/2001(H1N2)) neuraminidase (NA) gene, complete cds
76	>gi 24850053 gb AF503463.1	Influenza	A	virus	(A/Wisconsin/12/2001(H1N2)) neuraminidase (NA) gene, complete cds
77	>gi 363804984 gb JQ290150.1	Influenza	A	virus	(A/Minnesota/19/2011(H1N2)) segment 5 nucleocapsid protein (NP) gene, complete cds
78	>gi 83658762 gb CY006870.1	Influenza	A	virus	(A/New York/211/2003(H1N2)) segment 5, complete cds
79	>gi 77746803 gb CY003371.1	Influenza	A	virus	(A/New York/217/2002(H1N2)) segment 5, complete cds
80	>gi 73665677 gb CY002355.1	Influenza	A	virus	(A/New York/209/2003(H1N2)) segment 5, complete cds
81	>gi 74422591 gb CY002635.1	Influenza	A	virus	(A/New York/231/2003(H1N2)) segment 5, complete cds
82	>gi 74477273 gb CY002667.1	Influenza	A	virus	(A/New York/297/2003(H1N2)) segment 5, complete cds
83	>gi 73665696 gb CY002363.1	Influenza	A	virus	(A/New York/300/2003(H1N2)) segment 5, complete cds
84	>gi 77863440 gb CY003764.1	Influenza	A	virus	(A/New York/400/2003(H1N2)) segment 5, complete cds
85	>gi 83659757 gb CY003772.1	Influenza	A	virus	(A/New York/417/2002(H1N2)) segment 5, complete cds
86	>gi 77747389 gb CY003675.1	Influenza	A	virus	(A/New York/482/2003(H1N2)) segment 5, complete cds
87	>gi 82561126 gb CY006390.1	Influenza	A	virus	(A/New York/481/2003(H1N2)) segment 5, complete cds
88	>gi 82561145 gb CY006398.1	Influenza	A	virus	(A/New York/487/2003(H1N2)) segment 5, complete cds
89	>gi 77747447 gb CY003699.1	Influenza	A	virus	(A/New York/489/2003(H1N2)) segment 5, complete cds



90	>gi 80974087 gb CY006190.1	Influenza A virus	(A/New York/491/2003(H1N2)) segment 5, complete cds
91	>gi 67644051 gb CY001683.1	Influenza A virus	(A/New York/78/2002(H1N2)) segment 5, complete cds
92	>gi 117571135 gb CY017118.1	Influenza A virus	(A/New York/C1/2003(H1N2)) segment 5, complete cds
93	>gi 257165302 gb CY045847.1	Influenza A virus	(A/NWS-F(NWS/1934-Rockefeller Institute/5/1957)(H1N2)) segment 5, complete cds
94	>gi 512244259 gb CY146820.1	Influenza A virus	(A/PAL/unknown(H1N2)) nucleocapsid protein (NP) gene, complete cds
95	>gi 392340859 gb CY121144.1	Influenza A virus	(A/reassortant/X-7(NWS/1934 x Rockefeller Institute/5/1957)(H1N2)) nucleocapsid protein (NP) gene, complete cds
96	>gi 392341178 gb CY121152.1	Influenza A virus	(A/reassortant/X-7F1(X-7 x Rockefeller Institute/5/1957)(H1N2)) nucleocapsid protein (NP) gene, complete cds
97	>gi 158830342 gb EU097813.1	Influenza A virus	(A/Denmark/12/2003(H1N2)) polymerase acidic protein (PA) gene, complete cds
98	>gi 363804992 gb JQ290153.1	Influenza A virus	(A/Minnesota/19/2011(H1N2)) segment 3 polymerase PA (PA) gene, complete cds
99	>gi 73665682 gb CY002357.1	Influenza A virus	(A/New York/209/2003(H1N2)) segment 3, complete cds
100	>gi 83658767 gb CY006872.1	Influenza A virus	(A/New York/211/2003(H1N2)) segment 3, complete cds
101	>gi 77746808 gb CY003373.1	Influenza A virus	(A/New York/217/2002(H1N2)) segment 3, complete cds
102	>gi 80973776 gb CY006112.1	Influenza A virus	(A/New York/219/2003(H1N2)) segment 3, complete cds
103	>gi 83026898 gb CY006752.1	Influenza A virus	(A/New York/225/2003(H1N2)) segment 3, complete cds
104	>gi 74422765 gb CY002661.1	Influenza A virus	(A/New York/294/2003(H1N2)) segment 3, complete cds
105	>gi 74422596 gb CY002637.1	Influenza A virus	(A/New York/231/2003(H1N2)) segment 3, complete cds
106	>gi 90571909 gb CY010081.1	Influenza A virus	(A/New York/229/2003(H1N2)) segment 3, complete cds
107	>gi 74477278 gb CY002669.1	Influenza A virus	(A/New York/297/2003(H1N2)) segment 3, complete cds
108	>gi 73665701 gb CY002365.1	Influenza A virus	(A/New York/300/2003(H1N2)) segment 3, complete cds
109	>gi 72543042 gb CY002157.1	Influenza A virus	(A/New York/296/2003(H1N2)) segment 3, complete cds

110	>gi 82561131 gb CY006392.1	Influenza A virus	(A/New York/481/2003(H1N2)) segment 3, complete cds
111	>gi 83659762 gb CY003774.1	Influenza A virus	(A/New York/417/2002(H1N2)) segment 3, complete cds
112	>gi 77863445 gb CY003766.1	Influenza A virus	(A/New York/400/2003(H1N2)) segment 3, complete cds
113	>gi 257165307 gb CY045849.1	Influenza A virus	(A/NWS-F(NWS/1934-Rockefeller Institute/5/1957)(H1N2)) segment 3, complete cds
114	>gi 392340868 gb CY121146.1	Influenza A virus	(A/reassortant/X-7(NWS/1934 x Rockefeller Institute/5/1957)(H1N2)) polymerase PA (PA) gene, complete cds
115	>gi 392341184 gb CY121154.1	Influenza A virus	(A/reassortant/X-7F1(X-7 x Rockefeller Institute/5/1957)(H1N2)) polymerase PA (PA) gene, complete cds
116	>gi 157011839 gb EU097788.1	Influenza A virus	(A/Denmark/12/2003(H1N2)) polymerase PB1 (PB1) gene, complete cds
117	>gi 157011837 gb EU097787.1	Influenza A virus	(A/Denmark/86/2003(H1N2)) polymerase PB1 (PB1) gene, complete cds
118	>gi 73665684 gb CY002358.1	Influenza A virus	(A/New York/209/2003(H1N2)) segment 2, complete cds
119	>gi 83658769 gb CY006873.1	Influenza A virus	(A/New York/211/2003(H1N2)) segment 2, complete cds
120	>gi 77746810 gb CY003374.1	Influenza A virus	(A/New York/217/2002(H1N2)) segment 2, complete cds
121	>gi 80973778 gb CY006113.1	Influenza A virus	(A/New York/219/2003(H1N2)) segment 2, complete cds
122	>gi 83026900 gb CY006753.1	Influenza A virus	(A/New York/225/2003(H1N2)) segment 2, complete cds
123	>gi 76374139 gb CY002998.1	Influenza A virus	(A/New York/226/2003(H1N2)) segment 2, complete cds
124	>gi 90571911 gb CY010082.1	Influenza A virus	(A/New York/229/2003(H1N2)) segment 2, complete cds
125	>gi 74422599 gb CY002638.1	Influenza A virus	(A/New York/231/2003(H1N2)) segment 2, complete cds
126	>gi 74422767 gb CY002662.1	Influenza A virus	(A/New York/294/2003(H1N2)) segment 2, complete cds
127	>gi 72543054 gb CY002158.1	Influenza A virus	(A/New York/296/2003(H1N2)) segment 2, complete cds
128	>gb CY003767.1	Influenza A virus	(A/New York/400/2003(H1N2)) segment 2, complete cds
129	>gi 73665703 gb CY002366.1	Influenza A virus	(A/New York/300/2003(H1N2)) segment 2, complete cds
130	>gi 77863447 gb CY003767.1	Influenza A virus	(A/New York/400/2003(H1N2)) segment 2, complete cds

131	>gi 83659764 gb CY003775.1	Influenza A virus	A	virus	(A/New York/417/2002(H1N2)) segment 2, complete cds
132	>gi 80974094 gb CY006193.1	Influenza A virus	A	virus	(A/New York/491/2003(H1N2)) segment 2, complete cds
133	>gi 257165309 gb CY045850.1	Influenza A virus	A	virus	(A/NWS-F(NWS/1934-Rockefeller Institute/5/1957)(H1N2)) segment 2, complete cds
134	>gi 392340870 gb CY121147.1	Influenza A virus	A	virus	(A/reassortant/X-7(NWS/1934 x Rockefeller Institute/5/1957)(H1N2)) polymerase PB1 (PB1) genes, complete cds
135	>gi 392341188 gb CY121155.1	Influenza A virus	A	virus	(A/reassortant/X-7F1(X-7 x Rockefeller Institute/5/1957)(H1N2)) polymerase PB1 (PB1)genes, complete cds
136	>gi 73665687 gb CY002359.1	Influenza A virus	A	virus	(A/New York/209/2003(H1N2)) segment 1, complete cds
137	>gi 83658772 gb CY006874.1	Influenza A virus	A	virus	(A/New York/211/2003(H1N2)) segment 1, complete cds
138	>gi 77746813 gb CY003375.1	Influenza A virus	A	virus	(A/New York/217/2002(H1N2)) segment 1, complete cds
139	>gi 83026903 gb CY006754.1	Influenza A virus	A	virus	(A/New York/225/2003(H1N2)) segment 1, complete cds
140	>gi 76374149 gb CY002999.1	Influenza A virus	A	virus	(A/New York/226/2003(H1N2)) segment 1, complete cds
141	>gi 90571914 gb CY010083.1	Influenza A virus	A	virus	(A/New York/229/2003(H1N2)) segment 1, complete cds
142	>gi 74422602 gb CY002639.1	Influenza A virus	A	virus	(A/New York/231/2003(H1N2)) segment 1, complete cds
143	>gi 74422770 gb CY002663.1	Influenza A virus	A	virus	(A/New York/294/2003(H1N2)) segment 1, complete cds
144	>gi 72543092 gb CY002159.1	Influenza A virus	A	virus	(A/New York/296/2003(H1N2)) segment 1, complete cds
145	>gi 74477283 gb CY002671.1	Influenza A virus	A	virus	(A/New York/297/2003(H1N2)) segment 1, complete cds
146	>gi 77863450 gb CY003768.1	Influenza A virus	A	virus	(A/New York/400/2003(H1N2)) segment 1, complete cds
147	>gi 83659767 gb CY003776.1	Influenza A virus	A	virus	(A/New York/417/2002(H1N2)) segment 1, complete cds
148	>gi 82561136 gb CY006394.1	Influenza A virus	A	virus	(A/New York/481/2003(H1N2)) segment 1, complete cds
149	>gi 77747457 gb CY003703.1	Influenza A virus	A	virus	(A/New York/489/2003(H1N2)) segment 1, complete cds
150	>gi 82561383 gb CY006410.1	Influenza A virus	A	virus	(A/New York/490/2003(H1N2)) segment 1, complete cds
151	>gi 80974097 gb CY006194.1	Influenza A virus	A	virus	(A/New York/491/2003(H1N2)) segment 1, complete cds

152	>gi 82561402 gb CY006418.1	Influenza A virus	(A/New York/492/2003(H1N2)) segment 1, complete cds
153	>gi 67644060 gb CY001687.1	Influenza A virus	(A/New York/78/2002(H1N2)) segment 1, complete cds
154	>gi 117571145 gb CY017122.1	Influenza A virus	(A/New York/C1/2003(H1N2)) segment 1, complete cds
155	>gi 257165312 gb CY045851.1	Influenza A virus	(A/NWS-F(NWS/1934-Rockefeller Institute/5/1957)(H1N2)) segment 1, complete cds
156	>gi 392340873 gb CY121148.1	Influenza A virus	(A/reassortant/X-7(NWS/1934 x Rockefeller Institute/5/1957)(H1N2)) polymerase PB2 (PB2) gene, complete cds
157	>gi 392341191 gb CY121156.1	Influenza A virus	(A/reassortant/X-7F1(X-7 x Rockefeller Institute/5/1957)(H1N2)) polymerase PB2 (PB2) gene, complete cds

### H2N2 genes with accession numbers

SI No	Gene name with accession No
1	>gi 410060746 gb CY125918.1  Influenza A virus (A/Cornell/1001/1967(H2N2)) hemagglutinin (HA) gene, complete cds
2	>gi 410060727 gb CY125910.1  Influenza A virus (A/Ann Arbor/23/1957(H2N2)) hemagglutinin (HA) gene, complete cds
3	>gi 410060671 gb CY125886.1  Influenza A virus (A/Ned/65/1963(H2N2)) hemagglutinin (HA) gene, complete cds
4	>gi 410060652 gb CY125878.1  Influenza A virus (A/Rockville Illinois/5-CA/1957(H2N2)) hemagglutinin (HA) gene, complete cds
5	>gi 410060595 gb CY125854.1  Influenza A virus (A/England/1/1961(H2N2)) hemagglutinin (HA) gene, complete cds
6	>gi 410060576 gb CY125846.1  Influenza A virus (A/Korea/426/1968(H2N2)) hemagglutinin (HA) gene, complete cds
7	>gi 410060519 gb CY125822.1  Influenza A virus (A/Montevideo/2208/1967(H2N2)) hemagglutinin (HA) gene, complete cds
8	>gi 326698603 gb CY087800.1  Influenza A virus (A/Japan/305-MA12/1957(H2N2)) hemagglutinin (HA) gene, complete cds
9	>gi 699979099 gb KM885174.1  Influenza A virus (A/Netherlands/B2/1968(H2N2)) segment 4 hemagglutinin (HA) gene, complete cds
10	>gi 26453382 dbj AB056699.1  Influenza A virus (A/Kayano/57(H2N2)) HA gene for hemagglutinin, complete cds
11	>gi 305170 gb L20410.1 FLAHAS157A Influenza A virus (A/Singapore/1/1957(H2N2)) hemagglutinin (HA) gene, complete cds
12	>gi 257165181 gb CY045796.1  Influenza A virus (A/North Carolina/1-MA12/1963(H2N2)) segment 4, complete cds

13	>gi 208342851 gb CY034990.1  Influenza A virus (A/Singapore/1-MA12C/1957(H2N2)) segment 4, complete cds
14	>gi 146760065 gb CY022013.1  Influenza A virus (A/Albany/20/1957(H2N2)) segment 4, complete cds
15	>gi 256385435 gb CY044317.1  Influenza A virus (A/X-135(Puerto Rico/8/1934-Japan/305/1957)(H2N2)) segment 4, complete cds
16	>gi 208342677 gb CY034926.1  Influenza A virus (A/Czech Republic/1/1966(H2N2)) segment 4, complete cds
17	>gi 194351978 gb CY033980.1  Influenza A virus (A/Georgia/1/1967(H2N2)) segment 4, complete cds
18	>gi 194304555 gb CY033473.1  Influenza A virus (A/Berkeley/1/1968(H2N2)) segment 4, complete cds
19	>gi 189230536 gb CY032285.1  Influenza A virus (A/Johannesburg/617/1967(H2N2)) segment 4, complete cds
20	>gi 189230517 gb CY032277.1  Influenza A virus (A/Tashkent/1046/1967(H2N2)) segment 4, complete cds
21	>gi 189230422 gb CY032237.1  Influenza A virus (A/Berlin/3/1964(H2N2)) segment 4, complete cds
22	>gi 188504406 gb CY031603.1  Influenza A virus (A/Moscow/1019/1965(H2N2)) segment 4, complete cds
23	>gb DQ508844.1 :1-759 Influenza A virus (A/Japan/305/57(H2N2)) matrix protein 1 (M1) genes, complete cds
24	>gb KP098387.1 :14-772 Influenza A virus (A/Zhang/4/1957(H2N2)) segment 7 matrix protein 1 (M1) genes, complete cds
25	>gb KP098395.1 :14-772 Influenza A virus (A/Beijing/12/1964(H2N2)) segment 7 matrix protein 1 (M1) genes, complete cds
26	>gb KP098403.1 :14-772 Influenza A virus (A/Victoria/5/1968(H2N2)) segment 7 matrix protein 1 (M1) genes, complete cds
27	>gb KP098411.1 :14-772 Influenza A virus (A/Georgia/1/1963(H2N2)) segment 7 matrix protein 1 (M1) genes, complete cds
28	>gb KP098419.1 :14-772 Influenza A virus (A/Leningrad/29/1963(H2N2)) segment 7 matrix protein 1 (M1) genes, complete cds
29	>gb KP098427.1 :14-772 Influenza A virus (A/Shanghai/202/1957(H2N2)) segment 7 matrix protein 1 (M1) genes, complete cds
30	>gb KP098435.1 :14-772 Influenza A virus (A/Okuda/1957(H2N2)) segment 7 matrix protein 1 (M1) genes, complete cds
31	>gb KP098443.1 :14-772 Influenza A virus (A/England/12/1962(H2N2)) segment 7 matrix protein 1 (M1) genes, complete cds
32	>gb KM402804.1 :26-784 Influenza A virus (A/Netherlands/M1/1957(H2N2)) segment 7 matrix protein 1 (M1) genes, complete cds
33	>gb KM402812.1 :26-784 Influenza A virus (A/Netherlands/B1/1968(H2N2)) segment 7 matrix protein 1 (M1) genes, complete cds
34	>gb M81582.1 FLAMMPTPB:26-784 Influenza virus type

	/Leningrad/134/47/57 (H2N2) M1 RNA, complete cds
35	>gb DQ508844.1 :1-26, 715-982) Influenza A virus (A/Japan/305/57(H2N2)) matrix protein 2 (M2) genes, complete cds
36	>gb KP098387.1 :14-39, 728-995) Influenza A virus (A/Zhang/4/1957(H2N2)) segment 7 matrix protein 2 (M2) genes, complete cds
37	>gb KP098395.1 :14-39, 728-995) Influenza A virus (A/Beijing/12/1964(H2N2)) segment 7 matrix protein 2 (M2) genes, complete cds
38	>gb KP098403.1 :14-39, 728-995) Influenza A virus (A/Victoria/5/1968(H2N2)) segment 7 matrix protein 2 (M2) genes, complete cds
39	>gb KP098411.1 :14-39, 728-995) Influenza A virus (A/Georgia/1/1963(H2N2)) segment 7 matrix protein 2 (M2) genes, complete cds
40	>gb KP098419.1 :14-39, 728-995) Influenza A virus (A/Leningrad/29/1963(H2N2)) segment 7 matrix protein 2 (M2) genes, complete cds
41	>gb KP098427.1 :14-39, 728-995) Influenza A virus (A/Shanghai/202/1957(H2N2)) segment 7 matrix protein 2 (M2) genes, complete cds
42	>gb KP098435.1 :14-39, 728-995) Influenza A virus (A/Okuda/1957(H2N2)) segment 7 matrix protein 2 (M2) genes, complete cds
43	>gb KP098443.1 :14-39, 728-995) Influenza A virus (A/England/12/1962(H2N2)) segment 7 matrix protein 2 (M2) genes, complete cds
44	>gb KM402804.1 :26-51, 740-1007) Influenza A virus (A/Netherlands/M1/1957(H2N2)) segment 7 matrix protein 2 (M2) genes, complete cds
45	>gb KM402812.1 :26-51, 740-1007) Influenza A virus (A/Netherlands/B1/1968(H2N2)) segment 7 matrix protein 2 (M2) genes, complete cds
46	>gb M81582.1 :26-51, 740-1007) Influenza virus type /Leningrad/134/47/57 (H2N2) M2 RNA, complete cds
47	>gi 37784831 gb AY209919.1  Influenza A virus (A/California/1/66(H2N2)) neuraminidase (NA) gene, complete cds
48	>gi 37784829 gb AY209918.1  Influenza A virus (A/Berkeley/1/66(H2N2)) neuraminidase (NA) gene, complete cds
49	>gi 37784857 gb AY209932.1  Influenza A virus (A/Korea/426/68(H2N2)) neuraminidase (NA) gene, complete cds
50	>gi 37784851 gb AY209929.1  Influenza A virus (A/Tokyo/3/67(H2N2)) neuraminidase (NA) gene, complete cds
51	>gi 37784849 gb AY209928.1  Influenza A virus (A/Georgia/1/67(H2N2)) neuraminidase (NA) gene, complete cds
52	>gi 37784847 gb AY209927.1  Influenza A virus (A/Montevideo/2208/67(H2N2)) neuraminidase (NA) gene, complete cds
53	>gi 37784843 gb AY209925.1  Influenza A virus (A/Taiwan/1/67(H2N2))

	neuraminidase (NA) gene, complete cds
54	>gi 37784839 gb AY209923.1  Influenza A virus (A/AnnArbor/7/67(H2N2)) neuraminidase (NA) gene, complete cds
55	>gi 37784833 gb AY209920.1  Influenza A virus (A/Canada/1/66(H2N2)) neuraminidase (NA) gene, complete cds
56	>gi 37784801 gb AY209904.1  Influenza A virus (A/England/1/61(H2N2)) neuraminidase (NA) gene, complete cds
57	>gi 37784795 gb AY209901.1  Influenza A virus (A/SaoPaolo/3/59(H2N2)) neuraminidase (NA) gene, complete cds
58	>gi 410060695 gb CY125896.1  Influenza A virus (A/Singapore/1/1957(H2N2)) neuraminidase (NA) gene, complete cds
59	>gi 410060676 gb CY125888.1  Influenza A virus (A/Ned/65/1963(H2N2)) neuraminidase (NA) gene, complete cds
60	>gi 410060657 gb CY125880.1  Influenza A virus (A/Rockville Illinois/5- CA/1957(H2N2)) neuraminidase (NA) gene, complete cds
61	>gi 37784845 gb AY209926.1  Influenza A virus (A/Poland/5/67(H2N2)) neuraminidase (NA) gene, complete cds
62	>gi 37784837 gb AY209922.1  Influenza A virus (A/Panama/1/67(H2N2)) neuraminidase (NA) gene, complete cds
63	>gi 37784825 gb AY209916.1  Influenza A virus (A/Pittsburgh/2/65(H2N2)) neuraminidase (NA) gene, complete cds
64	>gi 37784785 gb AY209896.1  Influenza A virus (A/Chile/13/57(H2N2)) neuraminidase (NA) gene, complete cds
65	>gi 18850441 gb CY031605.1  Influenza A virus (A/Moscow/1019/1965(H2N2)) segment 6, complete cds
66	>gi 37784783 gb AY209895.1  Influenza A virus (A/Singapore/1/57(H2N2)) neuraminidase (NA) gene, complete cds
67	>gi 37785243 gb AY210104.1  Influenza A virus (A/Berkeley/1/68(H2N2)) nucleoprotein (NP) gene, complete cds
68	>gi 37785241 gb AY210103.1  Influenza A virus (A/Korea/426/68(H2N2)) nucleoprotein (NP) gene, complete cds
69	>gi 37785239 gb AY210102.1  Influenza A virus (A/Georgia/1/67(H2N2)) nucleoprotein (NP) gene, complete cds
70	>gi 37785237 gb AY210101.1  Influenza A virus (A/Montevideo/2208/67(H2N2)) nucleoprotein (NP) gene, complete cds
71	>gi 37785235 gb AY210100.1  Influenza A virus (A/Cordoba/522/67(H2N2)) nucleoprotein (NP) gene, complete cds
72	>gi 37785233 gb AY210099.1  Influenza A virus (A/Taiwan/1/67(H2N2)) nucleoprotein (NP) gene, complete cds
73	>gi 37785231 gb AY210098.1  Influenza A virus (A/England/10/67(H2N2)) nucleoprotein (NP) gene, complete cds
74	>gi 37785229 gb AY210097.1  Influenza A virus (A/AnnArbor/7/67(H2N2)) nucleoprotein (NP) gene, complete cds

75	>gi 37785225 gb AY210095.1  Influenza A virus (A/Panama/1/67(H2N2)) nucleoprotein (NP) gene, complete cds
76	>gi 37785227 gb AY210096.1  Influenza A virus (A/Tokyo/3/67(H2N2)) nucleoprotein (NP) gene, complete cds
77	>gi 37785223 gb AY210094.1  Influenza A virus (A/Johannesburg/567/67(H2N2)) nucleoprotein (NP) gene, complete cds
78	>gi 37785221 gb AY210093.1  Influenza A virus (A/Poland/5/67(H2N2)) nucleoprotein (NP) gene, complete cds
79	>gi 37785219 gb AY210092.1  Influenza A virus (A/Canada/1/66(H2N2)) nucleoprotein (NP) gene, complete cds
80	>gi 37785217 gb AY210091.1  Influenza A virus (A/California/1/66(H2N2)) nucleoprotein (NP) gene, complete cds
81	>gi 37785209 gb AY210087.1  Influenza A virus (A/Pittsburgh/2/65(H2N2)) nucleoprotein (NP) gene, complete cds
82	>gi 37785207 gb AY210086.1  Influenza A virus (A/NewJersey/3/65(H2N2)) nucleoprotein (NP) gene, complete cds
83	>gi 37785201 gb AY210083.1  Influenza A virus (A/Netherlands/65/63(H2N2)) nucleoprotein (NP) gene, complete cds
84	>gi 37785199 gb AY210082.1  Influenza A virus (A/Taiwan/1/64(H2N2)) nucleoprotein (NP) gene, complete cds
85	>gi 37785181 gb AY210073.1  Influenza A virus (A/SaoPaolo/3/59(H2N2)) nucleoprotein (NP) gene, complete cds
86	>gi 37785179 gb AY210072.1  Influenza A virus (A/Victoria/15681/59(H2N2)) nucleoprotein (NP) gene, complete cds
87	>gi 37785173 gb AY210069.1  Influenza A virus (A/ElSalvador/2/57(H2N2)) nucleoprotein (NP) gene, complete cds
88	>gi 37785171 gb AY210068.1  Influenza A virus (A/Singapore/1/57(H2N2)) nucleoprotein (NP) gene, complete cds
89	>gi 37785169 gb AY210067.1  Influenza A virus (A/Chile/13/57(H2N2)) nucleoprotein (NP) gene, complete cds
90	>gb M81585.1 FLAPAPROB:25-2175 Influenza virus type A/Leningrad/134/47/57 (H2N2) PA RNA, complete cds
91	>gb M81579.1 FLAPAPROA:25-2175 Influenza virus type A/Leningrad/134/17/57 (H2N2) PA RNA, complete cds
92	>gb M81573.1 FLAPAPRO:25-2175 Influenza virus type A/Leningrad/134/57 (H2N2) PA RNA, complete cds
93	>gb KP098383.1 :10-2160 Influenza A virus (A/Zhang/4/1957(H2N2)) segment 3 polymerase PA (PA) genes, complete cds
94	>gb KP098391.1 :10-2160 Influenza A virus (A/Beijing/12/1964(H2N2)) segment 3 polymerase PA (PA) genes, complete cds
95	>gb KP098399.1 :10-2160 Influenza A virus (A/Victoria/5/1968(H2N2)) segment 3 polymerase PA (PA) genes, complete cds
96	>gb KP098407.1 :10-2160 Influenza A virus (A/Georgia/1/1963(H2N2))



	segment 3 polymerase PA (PA) genes, complete cds
97	>gb KP098431.1 :10-2160 Influenza A virus (A/Okuda/1957(H2N2)) segment 3 polymerase PA (PA) , complete cds
98	>gb KP098439.1 :10-2160 Influenza A virus (A/England/12/1962(H2N2)) segment 3 polymerase PA (PA) genes, complete cds
99	>gb KM885173.1 :11-2161 Influenza A virus (A/Netherlands/B2/1968(H2N2)) segment 3 polymerase PA (PA) genes, complete cds
100	>gi 37785007 gb AY210007.1  Influenza A virus (A/Berkeley/1/68(H2N2)) PA polymerase subunit (PA) gene, complete cds
101	>gi 37785005 gb AY210006.1  Influenza A virus (A/Tokyo/3/67(H2N2)) PA polymerase subunit (PA) gene, complete cds
102	>gi 37784991 gb AY209999.1  Influenza A virus (A/Pittsburgh/2/65(H2N2)) PA polymerase subunit (PA) gene, complete cds
103	>gi 37784973 gb AY209990.1  Influenza A virus (A/Chile/13/57(H2N2)) PA polymerase subunit (PA) gene, complete cds
104	>gb CY125899.1 :3-2153 Influenza A virus (A/Singapore/1/1957(H2N2)) polymerase PA (PA) gene, complete cds
105	>gb M74899.1 FLAPB1:25-2298 Influenza A virus (A/Dunedin/4/1973(N2)) PB1 (PB1) gene, complete cds
106	>gb M81586.1 FLAPB1PROB:25-2298 Influenza virus type A/Leningrad/134/47/57 (H2N2) PB1 RNA, complete cds
107	>gb M81580.1 FLAPB1PROA:25-2298 Influenza virus type A/Leningrad/134/17/57 (H2N2) PB1 RNA, complete cds
108	>gb M81574.1 FLAPB1PRO:25-2298 Influenza virus type A/Leningrad/134/57 (H2N2) PB1 RNA, complete cds
109	>gb CY125924.1 :7-2280 Influenza A virus (A/Cornell/1001/1967(H2N2)) polymerase PB1 (PB1) genes, complete cds
110	>gb CY130004.1 :13-2286 Influenza A virus (A/mallard/New York/6750/1978(H2N2)) polymerase PB1 (PB1) genes, complete cds
111	>gi 410060741 gb CY125916.1  Influenza A virus (A/Ann Arbor/23/1957(H2N2)) polymerase PB1 (PB1) genes, complete cds
112	>gb CY125908.1 :13-2286 Influenza A virus (A/Ann Arbor/6/1960(H2N2)) polymerase PB1 (PB1) genes, complete cds
113	>gi 410060703 gb CY125900.1  Influenza A virus (A/Singapore/1/1957(H2N2)) polymerase PB1 (PB1) genes, complete cds
114	>gb CY125892.1 :13-2286 Influenza A virus (A/Ned/65/1963(H2N2)) polymerase PB1 (PB1) genes, complete cds
115	>gb CY125884.1 :13-2286 Influenza A virus (A/Rockville Illinois/5-CA/1957(H2N2)) polymerase PB1 (PB1) genes, complete cds
116	>gi 410060647 gb CY125876.1  Influenza A virus (A/ITS/1/1957(H2N2)) polymerase PB1 (PB1) genes, complete cds
117	>gi 410060609 gb CY125860.1  Influenza A virus (A/England/1/1961(H2N2)) polymerase PB1 (PB1) genes, complete cds

118	>gb CY125852.1 :13-2286 Influenza A virus (A/Korea/426/1968(H2N2)) polymerase PB1 (PB1) genes, complete cds
119	>gb CY125844.1 :7-2280 Influenza A virus (A/Ann Arbor/7/1967(H2N2)) polymerase PB1 (PB1) genes, complete cds
120	>gi 37784895 gb AY209951.1  Influenza A virus (A/Berkeley/1/68(H2N2)) PB2 polymerase subunit (PB2) gene, complete cds
121	>gi 37784893 gb AY209950.1  Influenza A virus (A/Tokyo/3/67(H2N2)) PB2 polymerase subunit (PB2) gene, complete cds
122	>gi 37784891 gb AY209949.1  Influenza A virus (A/Georgia/1/67(H2N2)) PB2 polymerase subunit (PB2) gene, complete cds
123	>gi 37784889 gb AY209948.1  Influenza A virus (A/England/10/67(H2N2)) PB2 polymerase subunit (PB2) gene, complete cds
124	>gi 37784887 gb AY209947.1  Influenza A virus (A/AnnArbor/7/67(H2N2)) PB2 polymerase subunit (PB2) gene, complete cds
125	>gi 37784883 gb AY209945.1  Influenza A virus (A/Panama/1/66(H2N2)) PB2 polymerase subunit (PB2) gene, complete cds
126	>gi 37784885 gb AY209946.1  Influenza A virus (A/California/1/66(H2N2)) PB2 polymerase subunit (PB2) gene, complete cds
127	>gi 37784879 gb AY209943.1  Influenza A virus (A/Kumamoto/1/65(H2N2)) PB2 polymerase subunit (PB2) gene, complete cds
128	>gi 37784877 gb AY209942.1  Influenza A virus (A/Albany/1/65(H2N2)) PB2 polymerase subunit (PB2) gene, complete cds
129	>gi 37784875 gb AY209941.1  Influenza A virus (A/Murakami/4/64(H2N2)) PB2 polymerase subunit (PB2) gene, complete cds
130	>gi 37784873 gb AY209940.1  Influenza A virus (A/Japan/170/62(H2N2)) PB2 polymerase subunit (PB2) gene, complete cds
131	>gi 37784863 gb AY209935.1  Influenza A virus (A/Singapore/1/57(H2N2)) PB2 polymerase subunit (PB2) gene, complete cds
132	>gi 410060763 gb CY125925.1  Influenza A virus (A/Cornell/1001/1967(H2N2)) polymerase PB2 (PB2) gene, complete cds
133	>gi 410060688 gb CY125893.1  Influenza A virus (A/Ned/65/1963(H2N2)) polymerase PB2 (PB2) gene, complete cds
134	>gi 410060669 gb CY125885.1  Influenza A virus (A/Rockville Illinois/5-CA/1957(H2N2)) polymerase PB2 (PB2) gene, complete cds
135	>gi 37784881 gb AY209944.1  Influenza A virus (A/Pittsburgh/2/65(H2N2)) PB2 polymerase subunit (PB2) gene, complete cds
136	>gi 37784861 gb AY209934.1  Influenza A virus (A/Chile/13/57(H2N2)) PB2 polymerase subunit (PB2) gene, complete cds

### H3N2 genes with accession numbers

SI No	Gene name with accession No
1	>gi 635172591 dbj AB934036.1  Influenza A virus (A/Hokkaido/M1/2014(H3N2)) HA gene for hemagglutinin, complete cds
2	>gi 59896317 gb CY000041.1  Influenza A virus (A/New York/34/2003(H3N2)) segment 4, complete cds
3	>gi 89892473 gb CY009636.1  Influenza A virus (A/Udorn/72(H3N2)) segment 4, complete cds
4	>gi 89781826 gb CY009588.1  Influenza A virus (A/Canterbury/140/2001(H3N2)) segment 4, complete cds
5	>gi 90571534 gb CY009924.1  Influenza A virus (A/Whanganui/127/2004(H3N2)) segment 4, complete cds
6	>gi 90571591 gb CY009948.1  Influenza A virus (A/Canterbury/06/2001(H3N2)) segment 4, complete cds
7	>gi 109676027 gb CY011672.1  Influenza A virus (A/Wellington/83/2002(H3N2)) segment 4, complete cds
8	>gi 109914876 gb CY011968.1  Influenza A virus (A/Waikato/1/2001(H3N2)) segment 4, complete cds
9	>gi 229433648 gb CY039399.1  Influenza A virus (A/Taiwan/70002/2007(H3N2)) segment 4, complete cds
10	>gi 229433686 gb CY039415.1  Influenza A virus (A/Mississippi/UR07-0024/2008(H3N2)) segment 4, complete cds
11	>gi 229486393 gb CY039511.1  Influenza A virus (A/Hong Kong/HKU56/2005(H3N2)) segment 4, complete cds
12	>gi 237689206 gb CY040218.1  Influenza A virus (A/Managua/3012.01/2007(H3N2)) segment 4, complete cds
13	>gi 238837432 gb CY041474.1  Influenza A virus (A/Florida/UR07-0154/2008(H3N2)) segment 4, complete cds
14	>gi 256427110 gb CY044469.1  Influenza A virus (A/Boston/9/2008(H3N2)) segment 4, complete cds
15	>gi 257165276 gb CY045836.1  Influenza A virus (A/NYMC X-161B(Puerto Rico/8/1934-Wisconsin/67/2005)(H3N2)) segment 4, complete cds
16	>gi 298347749 gb CY064847.1  Influenza A virus (A/California/VRDL143/2009(H3N2)) segment 4, complete cds
17	>gi 371537587 gb CY104412.1  Influenza A virus (A/Hanoi/N078/2007(H3N2)) hemagglutinin (HA) gene, complete cds
18	>gi 383213210 gb CY112281.1  Influenza A virus (A/Bilthoven/6449/1971(H3N2)) hemagglutinin (HA) gene, complete cds
19	>gi 383213248 gb CY112297.1  Influenza A virus (A/Bilthoven/6022/1972(H3N2)) hemagglutinin (HA) gene, complete cds
20	>gi 383213612 gb CY112452.1  Influenza A virus (A/Stockholm/20/1991(H3N2)) hemagglutinin (HA) gene, complete cds

21	>gb KJ955588.1 :14-772 Influenza A virus (A/Ho Chi Minh/552.7/2010(H3N2)) segment 7 matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
22	>gb CY003489.1 :26-784 Influenza A virus (A/Hong Kong/46/1980(H3N2)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
23	>gb CY003065.1 :25-783 Influenza A virus (A/Memphis/1/1990(H3N2)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
24	>gb CY148821.1 :11-769 Influenza A virus (A/Boston/DOA2-168/2012(H3N2)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
25	>gb KM064226.1 :1-759 Influenza A virus (A/Texas/13/2014(H3N2)) segment 7 matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
26	>gb CY168960.1 :11-769 Influenza A virus (A/Boston/YGA_01061/2012(H3N2)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
27	>gb CY168944.1 :11-769 Influenza A virus (A/Boston/YGA_01059/2012(H3N2)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
28	>gb CY183162.1 :11-769 Influenza A virus (A/Houston/JMM_124/2013(H3N2)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
29	>gb CY181714.1 :11-769 Influenza A virus (A/Nicaragua/AGA2-20/2012(H3N2)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
30	>gb CY117715.1 :11-769 Influenza A virus (A/Malaysia/10675/1998(H3N2)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
31	>gi 660303976 gb KJ955588.1 :14-39, 728-995 Influenza A virus (A/Ho Chi Minh/552.7/2010(H3N2)) segment 7 matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
32	>gi 77861716 gb CY003489.1 :26-51, 740-1007 Influenza A virus (A/Hong Kong/46/1980(H3N2)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
33	>gi 76464350 gb CY003065.1 :25-50, 739-1006 Influenza A virus (A/Memphis/1/1990(H3N2)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
34	>gi 544169974 gb CY148821.1 :11-36, 725-992 Influenza A virus (A/Boston/DOA2-168/2012(H3N2)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
35	>gi 660873875 gb KM064226.1 :1-26, 715-982 Influenza A virus (A/Texas/13/2014(H3N2)) segment 7 matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
36	>gi 594237796 gb CY168960.1 :11-36, 725-992 Influenza A virus (A/Boston/YGA_01061/2012(H3N2)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
37	>gi 594237627 gb CY168944.1 :11-36, 725-992 Influenza A virus (A/Boston/YGA_01059/2012(H3N2)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds

38	>gi 632808417 gb CY183162.1 :11-36, 725-992) Influenza A virus (A/Houston/JMM_124/2013(H3N2)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
39	>gi 632800446 gb CY181714.1 :11-36, 725-992) Influenza A virus (A/Nicaragua/AGA2-20/2012(H3N2)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
40	>gi 387235522 gb CY117715.1 :11-36, 725-992) Influenza A virus (A/Malaysia/10675/1998(H3N2)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
41	>gi 46401579 dbj AB124658.1  Influenza A virus (A/Aichi/2/1968(H3N2)) NA gene for neuraminidase, complete cds
42	>gi 46401581 dbj AB124659.1  Influenza A virus (A/Memphis/102/72(H3N2)) NA gene for neuraminidase, complete cds
43	>gi 46401583 dbj AB124660.1  Influenza A virus (A/Tokyo/6/73(H3N2)) NA gene for neuraminidase, complete cds
44	>gi 46401585 dbj AB124661.1  Influenza A virus (A/Kumamoto/55/76(H3N2)) NA gene for neuraminidase, complete cds
45	>gi 46401587 dbj AB124662.1  Influenza A virus (A/Texas/1/77(H3N2)) NA gene for neuraminidase, complete cds
46	>gi 46401589 dbj AB124663.1  Influenza A virus (A/Yamanashi/2/77(H3N2)) NA gene for neuraminidase, complete cds
47	>gi 124484545 dbj AB271003.1  Influenza A virus (A/Nagasaki/N01/2005(H3N2)) NA gene for neuraminidase, complete cds
48	>gi 46401591 dbj AB124664.1  Influenza A virus (A/Victoria/2/82(H3N2)) NA gene for neuraminidase, complete cds
49	>gi 124484585 dbj AB271502.1  Influenza A virus (A/Niigata/F272/2006(H3N2)) NA gene for neuraminidase, complete cds
50	>gi 124484420 dbj AB271507.1  Influenza A virus (A/Fukuoka/F483/2005(H3N2)) NA gene for neuraminidase, complete cds
51	>gi 146197636 dbj AB281216.1  Influenza A virus (A/Hanoi/HN3094/2004(H3N2)) genomic RNA, segment 6, complete cds
52	>gi 37784791 gb AY209899.1  Influenza A virus (A/Albany/6/58(H2N2)) neuraminidase (NA) gene, complete cds
53	>gi 37784795 gb AY209901.1  Influenza A virus (A/SaoPaolo/3/59(H2N2)) neuraminidase (NA) gene, complete cds
54	>gi 166079338 gb CY028742.1  Influenza A virus (A/Virginia/UR06-0489/2007(H3N2)) segment 6, complete cds
55	>gi 168480848 gb CY030055.1  Influenza A virus (A/Colorado/UR06-0452/2007(H3N2)) segment 6, complete cds
56	>gi 188504230 gb CY031557.1  Influenza A virus (A/Kentucky/UR06-0571/2007(H3N2)) segment 6, complete cds
57	>gi 193805365 gb CY033107.1  Influenza A virus (A/Hong Kong/1-2-MA21-2/1968(H3N2)) segment 6, complete cds
58	>gi 208344221 gb CY035184.1  Influenza A virus

	(A/Pennsylvania/PIT31/2008(H3N2)) segment 6, complete cds
59	>gi 224027323 gb CY037729.1  Influenza A virus (A/Florida/UR07-0102/2008(H3N2)) segment 6, complete cds
60	>gi 224027304 gb CY037721.1  Influenza A virus (A/Mississippi/UR07-0100/2008(H3N2)) segment 6, complete cds
61	>gi 242389865 dbj AB436951.1  Influenza A virus (A/New York/55/2004(H3N2)) gene for nucleoprotein, complete cds
62	>gi 13274622 gb AF255748.1  Influenza A virus (A/Hong Kong/497/97(H3N2)) nucleocapsid protein (NP) gene, complete cds
63	>gi 21902317 gb AF483604.1  Influenza A virus (A/Paris/908/97(H3N2)) nucleoprotein (NP) gene, complete cds
64	>gi 37785369 gb AY210208.1  Influenza A virus (A/PuertoRico/1/68(H3N2)) nucleoprotein (NP) gene, complete cds
65	>gi 37785367 gb AY210207.1  Influenza A virus (A/Georgia/122/68(H3N2)) nucleoprotein (NP) gene, complete cds
66	>gi 37785371 gb AY210209.1  Influenza A virus (A/Tehran/101/68(H3N2)) nucleoprotein (NP) gene, complete cds
67	>gi 37785373 gb AY210210.1  Influenza A virus (A/Hawaii/2/68(H3N2)) nucleoprotein (NP) gene, complete cds
68	>gi 37785375 gb AY210211.1  Influenza A virus (A/Philippines/104/68(H3N2)) nucleoprotein (NP) gene, complete cds
69	>gi 37785377 gb AY210212.1  Influenza A virus (A/HongKong/16/68(H3N2)) nucleoprotein (NP) gene, complete cds
70	>gi 37785379 gb AY210213.1  Influenza A virus (A/Panama/1/68(H3N2)) nucleoprotein (NP) gene, complete cds
71	>gi 37785381 gb AY210214.1  Influenza A virus (A/Canada/228/68(H3N2)) nucleoprotein (NP) gene, complete cds
72	>gi 37785385 gb AY210216.1  Influenza A virus (A/Malaysia/221/68(H3N2)) nucleoprotein (NP) gene, complete cds
73	>gi 37785387 gb AY210217.1  Influenza A virus (A/Philippines/3/68(H3N2)) nucleoprotein (NP) gene, complete cds
74	>gi 37785389 gb AY210218.1  Influenza A virus (A/Singapore/1/68(H3N2)) nucleoprotein (NP) gene, complete cds
75	>gi 37785391 gb AY210219.1  Influenza A virus (A/USSR/039/68(H3N2)) nucleoprotein (NP) gene, complete cds
76	>gi 37785393 gb AY210220.1  Influenza A virus (A/Malaysia/1/68(H3N2)) nucleoprotein (NP) gene, complete cds
77	>gi 37785395 gb AY210221.1  Influenza A virus (A/England/878/69(H3N2)) nucleoprotein (NP) gene, complete cds
78	>gi 37785397 gb AY210222.1  Influenza A virus (A/USSR/0270/69(H3N2)) nucleoprotein (NP) gene, complete cds
79	>gi 37785399 gb AY210223.1  Influenza A virus (A/Rio/6/69(H3N2)) nucleoprotein (NP) gene, complete cds

80	>gi 37785401 gb AY210224.1  Influenza A virus (A/Alaska/1/69(H3N2)) nucleoprotein (NP) gene, complete cds
81	>gi 13274632 gb AF257197.1  Influenza A virus (A/Hong Kong/497/97(H3N2)) RNA polymerase (PA) gene, complete cds
82	>gi 13274634 gb AF257198.1  Influenza A virus (A/Hong Kong/498/97(H3N2)) RNA polymerase (PA) gene, complete cds
83	>gi 21902315 gb AF483603.1  Influenza A virus (A/Paris/908/97(H3N2)) polymerase complex subunit PA (PA) gene, complete cds
84	>gi 37785341 gb AY210194.1  Influenza A virus (A/USSR/039/68(H3N2)) PA polymerase subunit (PA) gene, complete cds
85	>gi 37785343 gb AY210195.1  Influenza A virus (A/Panama/1/68(H3N2)) PA polymerase subunit (PA) gene, complete cds
86	>gi 37785345 gb AY210196.1  Influenza A virus (A/England/878/69(H3N2)) PA polymerase subunit (PA) gene, complete cds
87	>gi 37785347 gb AY210197.1  Influenza A virus (A/Rio/6/69(H3N2)) PA polymerase subunit (PA) gene, complete cds
88	>gi 37785349 gb AY210198.1  Influenza A virus (A/Taiwan/1/69(H3N2)) PA polymerase subunit (PA) gene, complete cds
89	>gi 37785351 gb AY210199.1  Influenza A virus (A/Taiwan/2/70(H3N2)) PA polymerase subunit (PA) gene, complete cds
90	>gi 37785353 gb AY210200.1  Influenza A virus (A/Canada/2/70(H3N2)) PA polymerase subunit (PA) gene, complete cds
91	>gi 37785355 gb AY210201.1  Influenza A virus (A/Queensland/7/70(H3N2)) PA polymerase subunit (PA) gene, complete cds
92	>gi 37785359 gb AY210203.1  Influenza A virus (A/Chiba/5/71(H3N2)) PA polymerase subunit (PA) gene, complete cds
93	>gi 37785361 gb AY210204.1  Influenza A virus (A/Caracas/1/71(H3N2)) PA polymerase subunit (PA) gene, complete cds
94	>gi 37785363 gb AY210205.1  Influenza A virus (A/England/42/72(H3N2)) PA polymerase subunit (PA) gene, complete cds
95	>gi 37785365 gb AY210206.1  Influenza A virus (A/Tokyo/31/72(H3N2)) PA polymerase subunit (PA) gene, complete cds
96	>gi 83026938 gb CY003357.1  Influenza A virus (A/Memphis/13/1988(H3N2)) polymerase PA (PA) gene, complete cds
97	>gi 83314189 gb CY006832.1  Influenza A virus (A/Memphis/103/1974(H3N2)) polymerase PA (PA) gene, complete cds
98	>gi 83314208 gb CY006840.1  Influenza A virus (A/Memphis/110/1976(H3N2)) polymerase PA (PA) gene, complete cds
99	>gi 83743255 gb CY007040.1  Influenza A virus (A/Canterbury/403/2003(H3N2)) segment 3, complete cds
100	>gi 83743274 gb CY007048.1  Influenza A virus (A/Canterbury/404/2003(H3N2)) segment 3, complete cds
101	>gi 13274639 gb AF258823.1  Influenza A virus (A/Hong Kong/498/97(H3N2))

	RNA polymerase (PB1) gene, complete cds
102	>gi 13274637 gb AF258822.1  Influenza A virus (A/Hong Kong/497/97(H3N2)) RNA polymerase (PB1) gene, complete cds
103	>gi 37785433 gb AY210271.1  Influenza A virus (A/Panama/1/68(H3N2)) PB1 polymerase subunit (PB1) gene, complete cds
104	>gi 37785435 gb AY210272.1  Influenza A virus (A/USSR/039/68(H3N2)) PB1 polymerase subunit (PB1) gene, complete cds
105	>gi 37785437 gb AY210273.1  Influenza A virus (A/HongKong/16/68(H3N2)) PB1 polymerase subunit (PB1) gene, complete cds
106	>gi 37785439 gb AY210274.1  Influenza A virus (A/England/878/69(H3N2)) PB1 polymerase subunit (PB1) gene, complete cds
107	>gi 37785441 gb AY210275.1  Influenza A virus (A/Rio/6/69(H3N2)) PB1 polymerase subunit (PB1) gene, complete cds
108	>gi 37785443 gb AY210276.1  Influenza A virus (A/Taiwan/1/69(H3N2)) PB1 polymerase subunit (PB1) gene, complete cds
109	>gi 37785447 gb AY210278.1  Influenza A virus (A/Queensland/7/70(H3N2)) PB1 polymerase subunit (PB1) gene, complete cds
110	>gi 37785445 gb AY210277.1  Influenza A virus (A/Canada/2/70(H3N2)) PB1 polymerase subunit (PB1) gene, complete cds
111	>gi 37785449 gb AY210279.1  Influenza A virus (A/Taiwan/3/71(H3N2)) PB1 polymerase subunit (PB1) gene, complete cds
112	>gi 37785451 gb AY210280.1  Influenza A virus (A/Caracas/1/71(H3N2)) PB1 polymerase subunit (PB1) gene, complete cds
113	>gi 37785453 gb AY210281.1  Influenza A virus (A/Chiba/5/71(H3N2)) PB1 polymerase subunit (PB1) gene, complete cds
114	>gi 37785457 gb AY210283.1  Influenza A virus (A/England/42/72(H3N2)) PB1 polymerase subunit (PB1) gene, complete cds
115	>gi 37785459 gb AY210284.1  Influenza A virus (A/Tokyo/31/72(H3N2)) PB1 polymerase subunit (PB1) gene, complete cds
116	>gi 89113324 gb CY009026.1  Influenza A virus (A/Canterbury/400/2003(H3N2)) segment 2, complete cds
117	>gi 238837408 gb CY041464.1  Influenza A virus (A/Ohio/UR07-0013/2008(H3N2)) segment 2, complete cds
118	>gi 238837446 gb CY041480.1  Influenza A virus (A/Florida/UR07-0154/2008(H3N2)) segment 2, complete cds
119	>gi 255529008 gb CY043734.1  Influenza A virus (A/Siena/3/1991(H3N2)) segment 2, complete cds
120	>gi 256386253 gb CY044506.1  Influenza A virus (A/Boston/19/2008(H3N2)) segment 2, complete cds
121	>gi 13274641 gb AF258841.1  Influenza A virus (A/Hong Kong/497/97(H3N2)) RNA polymerase (PB2) gene, complete cds
122	>gi 13274643 gb AF258842.1  Influenza A virus (A/Hong Kong/498/97(H3N2)) RNA polymerase (PB2) gene, complete cds



123	>gi 21902313 gb AF483602.1  Influenza A virus (A/Paris/908/97(H3N2)) polymerase complex subunit PB2 (PB2) gene, complete cds
124	>gi 37785311 gb AY210138.1  Influenza A virus (A/Panama/1/68(H3N2)) PB2 polymerase subunit (PB2) gene, complete cds
125	>gi 37785313 gb AY210139.1  Influenza A virus (A/USSR/039/68(H3N2)) PB2 polymerase subunit (PB2) gene, complete cds
126	>gi 37785315 gb AY210140.1  Influenza A virus (A/Rio/6/69(H3N2)) PB2 polymerase subunit (PB2) gene, complete cds
127	>gi 37785317 gb AY210141.1  Influenza A virus (A/Taiwan/1/69(H3N2)) PB2 polymerase subunit (PB2) gene, complete cds
128	>gi 37785319 gb AY210142.1  Influenza A virus (A/England/878/69(H3N2)) PB2 polymerase subunit (PB2) gene, complete cds
129	>gi 37785323 gb AY210144.1  Influenza A virus (A/Taiwan/2/70(H3N2)) PB2 polymerase subunit (PB2) gene, complete cds
130	>gi 37785325 gb AY210145.1  Influenza A virus (A/Queensland/7/70(H3N2)) PB2 polymerase subunit (PB2) gene, complete cds
131	>gi 37785327 gb AY210146.1  Influenza A virus (A/Taiwan/3/71(H3N2)) PB2 polymerase subunit (PB2) gene, complete cds
132	>gi 37785329 gb AY210147.1  Influenza A virus (A/Caracas/1/71(H3N2)) PB2 polymerase subunit (PB2) gene, complete cds
133	>gi 37785331 gb AY210148.1  Influenza A virus (A/Chiba/5/71(H3N2)) PB2 polymerase subunit (PB2) gene, complete cds
134	>gi 37785333 gb AY210149.1  Influenza A virus (A/England/42/72(H3N2)) PB2 polymerase subunit (PB2) gene, complete cds
135	>gi 37785335 gb AY210150.1  Influenza A virus (A/Tokyo/31/72(H3N2)) PB2 polymerase subunit (PB2) gene, complete cds
136	>gi 75181160 gb CY002751.1  Influenza A virus (A/Memphis/109/1972(H3N2)) polymerase PB2 (PB2) gene, complete cds
137	>gi 77861750 gb CY003503.1  Influenza A virus (A/Hong Kong/14/1974(H3N2)) polymerase PB2 (PB2) gene, complete cds
138	>gi 77861731 gb CY003495.1  Influenza A virus (A/Hong Kong/46/1980(H3N2)) polymerase PB2 (PB2) gene, complete cds
139	>gi 78706326 gb CY006051.1  Influenza A virus (A/Beijing/39/1975(H3N2)) polymerase PB2 (PB2) gene, complete cds
140	>gi 80974135 gb CY006210.1  Influenza A virus (A/Nanjing/13/1980(H3N2)) polymerase PB2 (PB2) gene, complete cds

## H5N1 genes with accession numbers

Sl No	Gene name with accession No
1	>gi 161137742 gb EU263981.1  Influenza A virus (A/human/China/GD02/2006(H5N1)) hemagglutinin (HA) gene, complete cds
2	>gi 215536351 gb FJ492884.1  Influenza A virus (A/Guangdong/1/2006(H5N1)) segment 4 hemagglutinin (HA) gene, complete cds
3	>gi 381213874 gb CY111598.1  Influenza A virus (A/Thailand/1(KAN-1)/2004(H5N1)) hemagglutinin (HA) gene, complete cds
4	>gi 347364520 gb CY098758.1  Influenza A virus (A/Hubei/1/2010(H5N1)) hemagglutinin (HA) gene, complete cds
5	>gi 347364504 gb CY098751.1  Influenza A virus (A/Hunan/2/2009(H5N1)) hemagglutinin (HA) gene, complete cds
6	>gi 347364488 gb CY098744.1  Influenza A virus (A/Guangxi/1/2009(H5N1)) hemagglutinin (HA) gene, complete cds
7	>gi 347364472 gb CY098737.1  Influenza A virus (A/Guizhou/1/2009(H5N1)) hemagglutinin (HA) gene, complete cds
8	>gi 347364456 gb CY098730.1  Influenza A virus (A/Xinjiang/1/2009(H5N1)) hemagglutinin (HA) gene, complete cds
9	>gi 347364440 gb CY098723.1  Influenza A virus (A/Hunan/1/2009(H5N1)) hemagglutinin (HA) gene, complete cds
10	>gi 347364424 gb CY098716.1  Influenza A virus (A/Shandong/1/2009(H5N1)) hemagglutinin (HA) gene, complete cds
11	>gi 347364408 gb CY098709.1  Influenza A virus (A/Beijing/1/2009(H5N1)) hemagglutinin (HA) gene, complete cds
12	>gi 347364392 gb CY098702.1  Influenza A virus (A/Guangdong/1/2008(H5N1)) hemagglutinin (HA) gene, complete cds
13	>gi 215536349 gb FJ492883.1  Influenza A virus (A/Fujian/1/2007(H5N1)) segment 4 hemagglutinin (HA) gene, complete cds
14	>gi 118722728 gb EF107522.1  Influenza A virus (A/Thailand/1(KAN-1A)/2004(H5N1)) hemagglutinin (HA) gene, complete cds
15	>gi 469934367 gb KC784948.1  Influenza A virus (A/Jiangsu/4/2007(H5N1)) segment 4 hemagglutinin (HA) gene, complete cds
16	>gi 523794208 gb KF277182.1  Influenza A virus (A/Viet Nam/CM32/2011(H5N1)) segment 4 hemagglutinin (HA) gene, complete cds
17	>gi 327345998 gb CY088769.1  Influenza A virus (A/Bangladesh/3233/2011(H5N1)) hemagglutinin (HA) gene, complete cds
18	>gi 45453833 gb AY555153.1  Influenza A virus (A/Thailand/2(SP-33)/2004(H5N1)) hemagglutinin gene, complete cds
19	>gi 46578137 gb AY555150.2  Influenza A virus (A/Thailand/1(KAN-1)/2004(H5N1)) hemagglutinin gene, partial cds
20	>gb KP638535.1 :26-784 Influenza A virus (A/Vietnam/HN31676DH/2009(H5N1)) segment 7 matrix protein 1 (M1) genes, complete cds

21	>gb KP638536.1 :26-784 Influenza A virus (A/Vietnam/UT31604-1/2009(H5N1)) segment 7 matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
22	>gb AY627887.2 :24-782 Influenza A virus (A/Thailand/5(KK-494)/2004(H5N1)) segment 7 matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
23	>gb AY627893.2 :26-784 Influenza A virus (A/Thailand/2(SP-33)/2004(H5N1)) segment 7 matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
24	>gb CY116649.1 :26-784 Influenza A virus (A/Indonesia/5/2005(H5N1)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
25	>gb CY111601.1 :26-784 Influenza A virus (A/Thailand/1(KAN-1)/2004(H5N1)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
26	>gb CY098761.1 :26-784 Influenza A virus (A/Hubei/1/2010(H5N1)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
27	>gb CY088772.1 :1-759 Influenza A virus (A/Bangladesh/3233/2011(H5N1)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
28	>gb GQ232444.1 :1-759 Influenza A virus (A/Vietnam/HN1/2007(H5N1)) segment 7 matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
29	>gb DQ535725.1 :1-759 Influenza A virus (A/Vietnam/PEV16T/2005(H5N1)) matrix protein 2 matrix protein 1 (M) gene, complete cds
30	>gb EU263984.1 :1-759 Influenza A virus (A/human/China/GD02/2006(H5N1)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
31	>gb DQ492985.1 :1-759 Influenza A virus (A/Vietnam/CL36/2004(H5N1)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
32	>gb DQ492984.1 :1-759 Influenza A virus (A/Vietnam/CL26/2004(H5N1)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
33	>gb DQ492983.1 :1-759 Influenza A virus (A/Vietnam/CL20/2004(H5N1)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
34	>gb DQ492982.1 :1-759 Influenza A virus (A/Vietnam/CL17/2004(H5N1)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
35	>gb DQ643814.1 :1-759 Influenza A virus (A/human/Zhejiang/16/2006(H5N1)) matrix protein M2 and matrix protein M1 genes, complete cds
36	>gi 755221252 gb KP638535.1 :26-51, 740-1007) Influenza A virus (A/Vietnam/HN31676DH/2009(H5N1)) segment 7 matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
37	>gi 755221219 gb KP638536.1 :26-51, 740-1007) Influenza A virus (A/Vietnam/UT31604-1/2009(H5N1)) segment 7 matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
38	>gi 725611725 gb AY627887.2 :24-49, 738-1005) Influenza A virus (A/Thailand/5(KK-494)/2004(H5N1)) segment 7 matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
39	>gi 725611729 gb AY627893.2 :26-51, 740-1007) Influenza A virus (A/Thailand/2(SP-33)/2004(H5N1)) segment 7 matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds

40	>gi 392583974 gb CY116649.1 :26-51, 740-1007) Influenza A virus (A/Indonesia/5/2005(H5N1)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
41	>gi 381213880 gb CY111601.1 :26-51, 740-1007) Influenza A virus (A/Thailand/1(KAN-1)/2004(H5N1)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
42	>gi 347364526 gb CY098761.1 :26-51, 740-1007) Influenza A virus (A/Hubei/1/2010(H5N1)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
43	>gi 327346004 gb CY088772.1 :1-26, 715-982) Influenza A virus (A/Bangladesh/3233/2011(H5N1)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
44	>gi 242554033 gb GQ232444.1 :1-26, 715-982) Influenza A virus (A/Vietnam/HN1/2007(H5N1)) segment 7 matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
45	>gi 95116891 gb DQ535725.1 :1-26, 715-982) Influenza A virus (A/Vietnam/PEV16T/2005(H5N1)) matrix protein 2 matrix protein 1 (M) gene, complete cds
46	>gi 161137749 gb EU263984.1 :1-26, 715-982) Influenza A virus (A/human/China/GD02/2006(H5N1)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
47	>gi 93213020 gb DQ492985.1 :1-26, 715-982) Influenza A virus (A/Vietnam/CL36/2004(H5N1)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
48	>gi 93213017 gb DQ492984.1 :1-26, 715-982) Influenza A virus (A/Vietnam/CL26/2004(H5N1)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
49	>gi 93213014 gb DQ492983.1 :1-26, 715-982) Influenza A virus (A/Vietnam/CL20/2004(H5N1)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
50	>gi 93213011 gb DQ492982.1 :1-26, 715-982) Influenza A virus (A/Vietnam/CL17/2004(H5N1)) matrix protein 2 (M2) and matrix protein 1 (M1) genes, complete cds
51	>gi 108946281 gb DQ643814.1 :1-26, 715-982) Influenza A virus (A/human/Zhejiang/16/2006(H5N1)) matrix protein M2 and matrix protein M1 genes, complete cds
52	>gi 725611718 gb AY555152.3  Influenza A virus (A/Thailand/2(SP-33)/2004(H5N1)) neuraminidase (NA) gene, complete cds
53	>gi 93008578 gb DQ493076.1  Influenza A virus (A/Vietnam/CL115/2005(H5N1)) neuraminidase (NA) gene, complete cds
54	>gi 93008576 gb DQ493075.1  Influenza A virus (A/Vietnam/CL105/2005(H5N1)) neuraminidase (NA) gene, complete cds
55	>gi 93008574 gb DQ493074.1  Influenza A virus (A/Vietnam/CL100/2004(H5N1)) neuraminidase (NA) gene, complete cds
56	>gi 93008572 gb DQ493073.1  Influenza A virus (A/Vietnam/CL36/2004(H5N1)) neuraminidase (NA) gene, complete cds

57	>gi 161137744 gb EU263982.1  Influenza A virus (A/human/China/GD02/2006(H5N1)) neuraminidase (NA) gene, complete cds
58	>gi 8307790 gb AF084274.1  Influenza A virus (A/HongKong/485/97(H5N1)) segment 6 neuraminidase subtype 1 (na) gene, complete cds
59	>gi 8307792 gb AF084275.1  Influenza A virus (A/HongKong/486/97(H5N1)) segment 6 neuraminidase subtype 1 (na) gene, complete cds
60	>gi 8307788 gb AF084273.1  Influenza A virus (A/HongKong/483/97(H5N1)) segment 6 neuraminidase subtype 1 (na) gene, complete cds
61	>gi 8307786 gb AF084272.1  Influenza A virus (A/HongKong/482/97(H5N1)) segment 6 neuraminidase subtype 1 (na) gene, complete cds
62	>gi 8307784 gb AF084271.1  Influenza A virus (A/HongKong/481/97(H5N1)) segment 6 neuraminidase subtype 1 (na) gene, complete cds
63	>gi 381213878 gb CY111600.1  Influenza A virus (A/Thailand/1(KAN-1)/2004(H5N1)) neuraminidase (NA) gene, complete cds
64	>gi 347364524 gb CY098760.1  Influenza A virus (A/Hubei/1/2010(H5N1)) neuraminidase (NA) gene, complete cds
65	>gi 347364508 gb CY098753.1  Influenza A virus (A/Hunan/2/2009(H5N1)) neuraminidase (NA) gene, complete cds
66	>gi 347364492 gb CY098746.1  Influenza A virus (A/Guangxi/1/2009(H5N1)) neuraminidase (NA) gene, complete cds
67	>gi 347364476 gb CY098739.1  Influenza A virus (A/Guizhou/1/2009(H5N1)) neuraminidase (NA) gene, complete cds
68	>gi 392583972 gb CY116648.1  Influenza A virus (A/Indonesia/5/2005(H5N1)) neuraminidase (NA) gene, complete cds
69	>gi 213688609 gb FJ461650.1  Influenza A virus (A/Egypt/10215-NAMRU3/2007(H5N1)) segment 6 neuraminidase (NA) gene, complete cds
70	>gi 213688607 gb FJ461649.1  Influenza A virus (A/Egypt/10211-NAMRU3/2007(H5N1)) segment 6 neuraminidase (NA) gene, complete cds
71	>gi 296434073 dbj AB557748.1  Influenza A virus (A/Hong Kong/213-DkPass/2003(H5N1)) viral cRNA, segment 5, complete cds
72	>gi 93008562 gb DQ493068.1  Influenza A virus (A/Vietnam/CL01/2004(H5N1)) neuraminidase (NA) gene, complete cds
73	>gi 308154189 gb AY626145.2  Influenza A virus (A/Thailand/1(KAN-1)/2004(H5N1)) nucleocapsid protein (NP) gene, complete cds
74	>gi 161137752 gb EU263985.1  Influenza A virus (A/human/China/GD02/2006(H5N1)) nucleocapsid protein (NP) gene, complete cds
75	>gi 54299837 gb AY627889.1  Influenza A virus (A/Thailand/5(KK-494)/2004(H5N1)) nucleoprotein (NP) gene, complete cds
76	>gi 8307798 gb AF084278.1  Influenza A virus (A/HongKong/485/97(H5N1)) segment 5 nucleoprotein (np) gene, complete cds
77	>gi 8307796 gb AF084277.1  Influenza A virus (A/HongKong/483/97(H5N1)) segment 5 nucleoprotein (np) gene, complete cds

78	>gi 8307794 gb AF084276.1  Influenza A virus (A/HongKong/482/97(H5N1)) segment 5 nucleoprotein (np) gene, complete cds
79	>gi 347364522 gb CY098759.1  Influenza A virus (A/Hubei/1/2010(H5N1)) nucleocapsid protein (NP) gene, complete cds
80	>gi 347364506 gb CY098752.1  Influenza A virus (A/Hunan/2/2009(H5N1)) nucleocapsid protein (NP) gene, complete cds
81	>gi 347364490 gb CY098745.1  Influenza A virus (A/Guangxi/1/2009(H5N1)) nucleocapsid protein (NP) gene, complete cds
82	>gi 347364474 gb CY098738.1  Influenza A virus (A/Guizhou/1/2009(H5N1)) nucleocapsid protein (NP) gene, complete cds
83	>gi 347364458 gb CY098731.1  Influenza A virus (A/Xinjiang/1/2009(H5N1)) nucleocapsid protein (NP) gene, complete cds
84	>gi 347364442 gb CY098724.1  Influenza A virus (A/Hunan/1/2009(H5N1)) nucleocapsid protein (NP) gene, complete cds
85	>gi 347364426 gb CY098717.1  Influenza A virus (A/Shandong/1/2009(H5N1)) nucleocapsid protein (NP) gene, complete cds
86	>gi 347364410 gb CY098710.1  Influenza A virus (A/Beijing/1/2009(H5N1)) nucleocapsid protein (NP) gene, complete cds
87	>gi 347364346 gb CY098682.1  Influenza A virus (A/Anhui/1/2007(H5N1)) nucleocapsid protein (NP) gene, complete cds
88	>gi 2865381 gb AF028710.1  Influenza A virus (A/HongKong/156/97(H5N1)) nucleoprotein mRNA, complete cds
89	>gi 85680909 gb DQ360840.1  Influenza A virus (A/Thailand/676/2005(H5N1)) nucleoprotein gene, complete cds
90	>gi 87042579 gb DQ372594.1  Influenza A virus (A/Thailand/NK165/2005(H5N1)) nucleoprotein (NP) gene, complete cds
91	>gi 117501562 gb EF100817.1  Influenza A virus (A/human/Zhejiang/16/2006(H5N1)) polymerase PA (PA) gene, complete cds
92	>gi 161137754 gb EU263986.1  Influenza A virus (A/human/China/GD02/2006(H5N1)) polymerase PA (PA) gene, complete cds
93	>gi 725611723 gb AY626147.3  Influenza A virus (A/Thailand/1(KAN-1)/2004(H5N1)) segment 3 polymerase acidic protein (PA) gene, complete cds
94	>gi 381213872 gb CY111597.1  Influenza A virus (A/Thailand/1(KAN-1)/2004(H5N1)) polymerase PA (PA) gene, complete cds
95	>gi 347364518 gb CY098757.1  Influenza A virus (A/Hubei/1/2010(H5N1)) polymerase PA (PA) gene, complete cds
96	>gi 347364502 gb CY098750.1  Influenza A virus (A/Hunan/2/2009(H5N1)) polymerase PA (PA) gene, complete cds
97	>gi 347364486 gb CY098743.1  Influenza A virus (A/Guangxi/1/2009(H5N1)) polymerase PA (PA) gene, complete cds
98	>gi 347364470 gb CY098736.1  Influenza A virus (A/Guizhou/1/2009(H5N1)) polymerase PA (PA) gene, complete cds
99	>gi 347364454 gb CY098729.1  Influenza A virus (A/Xinjiang/1/2009(H5N1))

	polymerase PA (PA) gene, complete cds
100	>gi 347364438 gb CY098722.1  Influenza A virus (A/Hunan/1/2009(H5N1)) polymerase PA (PA) gene, complete cds
101	>gi 347364422 gb CY098715.1  Influenza A virus (A/Shandong/1/2009(H5N1)) polymerase PA (PA) gene, complete cds
102	>gi 347364358 gb CY098687.1  Influenza A virus (A/Hunan/1/2008(H5N1)) polymerase PA (PA) gene, complete cds
103	>gi 347364374 gb CY098694.1  Influenza A virus (A/Guangxi/1/2008(H5N1)) polymerase PA (PA) gene, complete cds
104	>gi 347364342 gb CY098680.1  Influenza A virus (A/Anhui/1/2007(H5N1)) polymerase PA (PA) gene, complete cds
105	>gi 347364328 gb CY098674.1  Influenza A virus (A/Fujian/1/2007(H5N1)) polymerase PA (PA) gene, complete cds
106	>gi 347364312 gb CY098667.1  Influenza A virus (A/Anhui/1/2006(H5N1)) polymerase PA (PA) gene, complete cds
107	>gi 347364298 gb CY098661.1  Influenza A virus (A/Xinjiang/1/2006(H5N1)) polymerase PA (PA) gene, complete cds
108	>gi 347364282 gb CY098654.1  Influenza A virus (A/Guangdong/2/2006(H5N1)) polymerase PA (PA) gene, complete cds
109	>gi 85680907 gb DQ360839.1  Influenza A virus (A/Thailand/676/2005(H5N1)) polymerase acidic protein gene, complete cds
110	>gi 224471398 dbj AB462294.1  Influenza A virus (A/Shanghai/1/2006(H5N1)) genomic RNA, segment 3, complete cds
111	>gi 159895955 gb EU268218.1  Influenza A virus (A/Thailand/16/2004(H5N1)) segment 3, complete cds
112	>gi 112379366 gb DQ835312.1  Influenza A virus (A/China/GD01/2006(H5N1)) segment 3, complete cds
113	>gi 87042583 gb DQ372596.1  Influenza A virus (A/Thailand/NK165/2005(H5N1)) polymerase acidic protein (PA) gene, complete cds
114	>gi 13925324 gb AF257193.1  Influenza A virus (A/Hong Kong/481/97(H5N1)) RNA polymerase (PA) gene, complete cds
115	>gi 85680905 gb DQ360838.1  Influenza A virus (A/Thailand/676/2005(H5N1)) polymerase basic protein 1 gene, complete cds
116	>gi 224471395 dbj AB462293.1  Influenza A virus (A/Shanghai/1/2006(H5N1)) genomic RNA, segment 2, complete cds
117	>gi 13925382 gb AF258819.1  Influenza A virus (A/Hong Kong/482/97(H5N1)) RNA polymerase (PB1) gene, complete cds
118	>gi 13925379 gb AF258818.1  Influenza A virus (A/Hong Kong/481/97(H5N1)) RNA polymerase (PB1) gene, complete cds
119	>gi 13925388 gb AF258821.1  Influenza A virus (A/Hong Kong/486/97(H5N1)) RNA polymerase (PB1) gene, complete cds
120	>gi 13925397 gb AF258826.1  Influenza A virus (A/Hong Kong/542/97(H5N1)) RNA polymerase (PB1) gene, complete cds

121	>gi 13925385 gb AF258820.1  Influenza A Virus (A/Hong Kong/483/97(H5N1)) RNA polymerase (PB1) gene, complete cds
122	>gi 13925400 gb AF258827.1  Influenza A virus (A/Hong Kong/97/98(H5N1)) RNA polymerase (PB1) gene, complete cds
123	>gi 8307772 gb AF084265.1  Influenza A virus (A/HongKong/483/97(H5N1)) segment 2 polymerase basic protein 1 (pb1) gene, complete cds
124	>gi 8307774 gb AF084266.1  Influenza A virus (A/HongKong/485/97(H5N1)) segment 2 polymerase basic protein 1 (pb1) gene, complete cds
125	>gi 523794204 gb KF277180.1  Influenza A virus (A/Viet Nam/CM32/2011(H5N1)) segment 2 polymerase PB1 (PB1) gene, complete cds
126	>gi 161137756 gb EU263987.1  Influenza A virus (A/human/China/GD02/2006(H5N1)) polymerase PB1 (PB1) gene, complete cds
127	>gi 347364295 gb CY098660.1  Influenza A virus (A/Xinjiang/1/2006(H5N1)) polymerase PB1 (PB1) genes, complete cds
128	>gi 347364279 gb CY098653.1  Influenza A virus (A/Guangdong/2/2006(H5N1)) polymerase PB1 (PB1)genes, complete cds
129	>gi 347364263 gb CY098646.1  Influenza A virus (A/Sichuan/3/2006(H5N1)) polymerase PB1 (PB1) genes, complete cds
130	>gi 347364203 gb CY098620.1  Influenza A virus (A/Zhejiang/1/2006(H5N1)) polymerase PB1 (PB1) genes, complete cds
131	>gi 347364189 gb CY098614.1  Influenza A virus (A/Hunan/1/2006(H5N1)) polymerase PB1 (PB1) genes, complete cds
132	>gi 725611733 gb AY627898.2  Influenza A virus (A/Thailand/2(SP-33)/2004(H5N1)) segment 1 polymerase PB2 (PB2) gene, complete cds
133	>gi 725611728 gb AY627892.2  Influenza A virus (A/Thailand/5(KK-494)/2004(H5N1)) segment 1 polymerase PB2 (PB2) gene, complete cds
134	>gi 161137758 gb EU263988.1  Influenza A virus (A/human/China/GD02/2006(H5N1)) polymerase PB2 (PB2) gene, complete cds
135	>gi 93212772 gb DQ492902.1  Influenza A virus (A/Vietnam/CL2009/2005(H5N1)) polymerase basic 2 protein (PB2) gene, complete cds
136	>gi 93212768 gb DQ492900.1  Influenza A virus (A/Vietnam/CL115/2005(H5N1)) polymerase basic 2 protein (PB2) gene, complete cds
137	>gi 93212760 gb DQ492896.1  Influenza A virus (A/Vietnam/CL26/2004(H5N1)) polymerase basic 2 protein (PB2) gene, complete cds
138	>gi 93212756 gb DQ492894.1  Influenza A virus (A/Vietnam/CL01/2004(H5N1)) polymerase basic 2 protein (PB2) gene, complete cds
139	>gi 381213867 gb CY111595.1  Influenza A virus (A/Thailand/1(KAN-1)/2004(H5N1)) polymerase PB2 (PB2) gene, complete cds



140	>gi 347364513 gb CY098755.1  Influenza A virus (A/Hubei/1/2010(H5N1)) polymerase PB2 (PB2) gene, complete cds
141	>gi 347364497 gb CY098748.1  Influenza A virus (A/Hunan/2/2009(H5N1)) polymerase PB2 (PB2) gene, complete cds
142	>gi 347364465 gb CY098734.1  Influenza A virus (A/Guizhou/1/2009(H5N1)) polymerase PB2 (PB2) gene, complete cds
143	>gi 347364481 gb CY098741.1  Influenza A virus (A/Guangxi/1/2009(H5N1)) polymerase PB2 (PB2) gene, complete cds
144	>gi 347364449 gb CY098727.1  Influenza A virus (A/Xinjiang/1/2009(H5N1)) polymerase PB2 (PB2) gene, complete cds
145	>gi 347364433 gb CY098720.1  Influenza A virus (A/Hunan/1/2009(H5N1)) polymerase PB2 (PB2) gene, complete cds
146	>gi 347364417 gb CY098713.1  Influenza A virus (A/Shandong/1/2009(H5N1)) polymerase PB2 (PB2) gene, complete cds
147	>gi 347364401 gb CY098706.1  Influenza A virus (A/Beijing/1/2009(H5N1)) polymerase PB2 (PB2) gene, complete cds
148	>gi 347364385 gb CY098699.1  Influenza A virus (A/Guangdong/1/2008(H5N1)) polymerase PB2 (PB2) gene, complete cds
149	>gi 347364369 gb CY098692.1  Influenza A virus (A/Guangxi/1/2008(H5N1)) polymerase PB2 (PB2) gene, complete cds
150	>gi 347364353 gb CY098685.1  Influenza A virus (A/Hunan/1/2008(H5N1)) polymerase PB2 (PB2) gene, complete cds
151	>gi 347364337 gb CY098678.1  Influenza A virus (A/Anhui/1/2007(H5N1)) polymerase PB2 (PB2) gene, complete cds
152	>gi 327345991 gb CY088766.1  Influenza A virus (A/Bangladesh/3233/2011(H5N1)) polymerase PB2 (PB2) gene, complete cds