

# Live Poultry Market Interventions for Influenza A (H7N9) Virus, Guangdong, China

## Technical Appendix

**Technical Appendix Table 1.** Reported avian influenza A(H7N9) cases in humans, Guangdong Province, China, March 2013–October 2015

Prefectural cities	Wave 2, 2013 Jun–2014 May							Wave 3, 2014 Jun–2015 May					
	Jul	Oct	Dec	Jan	Feb	Mar	Apr	May	Nov	Dec	Jan	Feb	Mar
Dongguan (DG)*		1	1	1					1	2	3	2	
Foshan (FS)*			3	8	4						1	2	1
Guangzhou (GZ)*				7	14	3	1				1	4	
Huizhou (HZ)*	1			3		1					1	1	
Jiangmen (JM)*				3	2			1			0	2	1
Shenzhen (SZ)*			2	16	1	5	1			1	11	1	
Zhuhai (ZH)*					1						1		
Zhaoqing (ZQ)*				6	4					1	1	2	
Zhongshan (ZS)*				3				2			2	1	
Central Guangdong					95						43		
Chaozhou (CZ)†						1					2	3	
Heyuan (HY)†						2					2	2	
Jieyang (JY)†											2		
Meizhou (MZ)†				1	1	1		2	1		4	3	
Shantou (ST)†						1	2				1	5	
Shanwei (SW)†											4		
Eastern Guangdong					11						29		
Yangjiang (YJ)			2	2							0		
Guangdong					110						72		

\* Cities in Central Guangdong.

† Cities in Eastern Guangdong.

**Technical Appendix Table 2.** Interventions implemented in LPMs during epidemics of avian influenza A(H7N9) virus, Guangdong Province, China\*

City	Time	LPM interventions	Reference
Dongguan	2013 Nov–2014 Jan	Ten LPMs of the city were separately closed for 2 wks where human infection cases were identified	Kang, et al.†
Foshan	2014 Jan 13–2014 Jan 29	LPMs of Nanhai and Chancheng districts were closed	Wu et al.‡
Shenzhen	2014 Jan 31–2014 Feb 13	All LPMs of the city were closed; cleaning and disinfecting were conducted	Wu et al.‡
Guangzhou	2014 Feb 15–2014 Feb 28	All LPMs of the city were closed; cleaning and disinfecting were conducted	Wu, et al.‡
Guangzhou	2014 May 5–current	Four districts of Guangzhou ban the sales of live poultry, and only frozen poultry was allowed	<a href="http://www.chinadailyasia.com/news/2014-04/30/content_15132977.html">http://www.chinadailyasia.com/news/2014-04/30/content_15132977.html</a>
Foshan	2014 July 1–current	Chancheng district ban the sales of live poultry, and only frozen poultry was allowed	<a href="http://gzdaily.dayoo.com/html/2014-06/30/content_2674385.htm">http://gzdaily.dayoo.com/html/2014-06/30/content_2674385.htm</a> (In Chinese)
Shenzhen	2014 July 1–current	Futian district ban the sales of live poultry, and only frozen poultry was allowed	<a href="http://gzdaily.dayoo.com/html/2014-06/30/content_2674385.htm">http://gzdaily.dayoo.com/html/2014-06/30/content_2674385.htm</a> (In Chinese)
Central Guangdong	2015 Jan 15	Cities at various levels in the Pear River Delta were required to ban the sale of live poultry	<a href="http://www.wantchinatimes.com/news-subclass-cnt.aspx?id=2015012600004&amp;cid=1201">http://www.wantchinatimes.com/news-subclass-cnt.aspx?id=2015012600004&amp;cid=1201</a>
Guangzhou	2015 Feb 13–2015 Feb 18	All LPMs of the city were closed; cleaning and disinfecting were conducted	<a href="http://www.chinanews.com/tp/2015/02-13/7063641.shtml">http://www.chinanews.com/tp/2015/02-13/7063641.shtml</a>
Guangdong Province	2015 Feb 19–2015 Feb.28	All LPMs were closed; cleaning and disinfecting were conducted	<a href="http://news.sina.com.cn/o/2015-02-15/193231524882.shtml">http://news.sina.com.cn/o/2015-02-15/193231524882.shtml</a> (In Chinese)

\*LPM, live-poultry market.

†Kang M, He J, Song T, Rutherford S, Wu J, Lin J, et al. Environmental sampling for avian influenza A(H7N9) in live-poultry markets in Guangdong, China. *PLoS One*. 2015;10:e0126335.

‡Wu P, Jiang H, Wu JT, Chen E, He J, Zhou H, et al. Poultry market closures and human infection with influenza A(H7N9) virus, China, 2013–14. *Emerg Infect Dis*. 2014 Nov;20:1891–4.

**Technical Appendix Table 3.** Epidemiologic characteristics of 182 patients with confirmed avian influenza A(H7N9)virus infection, Guangdong, China, 2013–2015

Characteristic	Patients with confirmed cases	
	Wave 2, n = 110	Wave 3, n = 72
Age, y		
Median	55.5	52
Interquartile range	3–88	0.8–83
Male sex, no. (%)	68 (61.8)	51 (70.8)
Type of residence, no. (%)		
Rural	21 (19)	13 (18)
Urban	79 (81)	59 (82)
A(H7N9) cluster	3	3*
No. deaths (%)	37 (33.6)	31 (43.1)

\*A(H7N9) infection was diagnosed in 2 physicians in a respiratory unit at a hospital in Shantou city, Guangdong, with no known recent exposure to live poultry.

**Technical Appendix Table 4.** Global Initiative on Sharing All Influenza Data accession numbers of avian influenza A(H7N9) viruses isolated from humans in a study of the effect of live-poultry market interventions, Guangdong, China\*

A(H7N9) clinical strains†	HA	NA	PB2	PB1	PA	NP	M	NS
A/GD-10/2014/H7N9/2014-01-03	EPI655870	EPI655869	EPI655867	EPI655868	EPI655866	EPI655863	EPI655865	EPI655864
A/GD-12/2014/H7N9/2014-01-03	EPI655878	EPI655877	EPI655875	EPI655876	EPI655874	EPI655871	EPI655873	EPI655872
A/GD-13/2014/H7N9/2014-01-03	EPI655886	EPI655885	EPI655883	EPI655884	EPI655882	EPI655879	EPI655881	EPI655880
A/GD-18/2014/H7N9/2014-01-07	EPI655894	EPI655893	EPI655891	EPI655892	EPI655890	EPI655887	EPI655889	EPI655888
A/GD-19/2014/H7N9/2014-01-07	EPI655902	EPI655901	EPI655899	EPI655900	EPI655898	EPI655895	EPI655897	EPI655896
A/GD-24/2014/H7N9/2014-01-10	EPI655910	EPI655909	EPI655907	EPI655908	EPI655906	EPI655903	EPI655905	EPI655904
A/GD-26/2014/H7N9/2014-01-10	EPI655918	EPI655917	EPI655915	EPI655916	EPI655914	EPI655911	EPI655913	EPI655912
A/GD-29/2014/H7N9/2014-01-11	EPI655926	EPI655925	EPI655923	EPI655924	EPI655922	EPI655919	EPI655921	EPI655920
A/GD-31/2014/H7N9/2014-01-11	EPI655934	EPI655933	EPI655931	EPI655932	EPI655930	EPI655927	EPI655929	EPI655928
A/GD-33/2014/H7N9/2014-01-12	EPI655942	EPI655941	EPI655939	EPI655940	EPI655938	EPI655935	EPI655937	EPI655936
A/GD-34/2014/H7N9/2014-01-12	EPI655950	EPI655949	EPI655947	EPI655948	EPI655946	EPI655943	EPI655945	EPI655944
A/GD-36/2014/H7N9/2014-01-12	EPI655958	EPI655957	EPI655955	EPI655956	EPI655954	EPI655951	EPI655953	EPI655952
A/GD-35/2014/H7N9/2014-01-12	EPI655966	EPI655965	EPI655963	EPI655964	EPI655962	EPI655959	EPI655961	EPI655960
A/GD-43/2014/H7N9/2014-01-15	EPI655974	EPI655973	EPI655971	EPI655972	EPI655970	EPI655967	EPI655969	EPI655968
A/GD-46/2014/H7N9/2014-01-16	EPI655982	EPI655981	EPI655979	EPI655980	EPI655978	EPI655975	EPI655977	EPI655976
A/GD-48/2014/H7N9/2014-01-19	EPI655990	EPI655989	EPI655987	EPI655988	EPI655986	EPI655983	EPI655985	EPI655984
A/GD-62/2014/H7N9/2014-01-27	EPI655998	EPI655997	EPI655995	EPI655996	EPI655994	EPI655991	EPI655993	EPI655992
A/GD-65/2014/H7N9/2014-01-29	EPI656006	EPI656005	EPI656003	EPI656004	EPI656002	EPI655999	EPI656001	EPI656000
A/GD-66/2014/H7N9/2014-01-29	EPI656014	EPI656013	EPI656011	EPI656012	EPI656010	EPI656007	EPI656009	EPI656008
A/GD-69/2014/H7N9/2014-01-30	EPI656022	EPI656021	EPI656019	EPI656020	EPI656018	EPI656015	EPI656017	EPI656016
A/GD-81/2014/H7N9/2014-01-30	EPI656030	EPI656029	EPI656027	EPI656028	EPI656026	EPI656023	EPI656025	EPI656024
A/GD-71/2014/H7N9/2014-01-30	EPI656038	EPI656037	EPI656035	EPI656036	EPI656034	EPI656031	EPI656033	EPI656032
A/GD-75/2014/H7N9/2014-01-31	EPI656046	EPI656045	EPI656043	EPI656044	EPI656042	EPI656039	EPI656041	EPI656040
A/GD-74/2014/H7N9/2014-01-31	EPI656054	EPI656053	EPI656051	EPI656052	EPI656050	EPI656047	EPI656049	EPI656048
A/GD-82/2014/H7N9/2014-02-02	EPI656062	EPI656061	EPI656059	EPI656060	EPI656058	EPI656055	EPI656057	EPI656056

A(H7N9) clinical strains†	HA	NA	PB2	PB1	PA	NP	M	NS
A/GD-98/2014/H7N9/2014-02-06	EPI656070	EPI656069	EPI656067	EPI656068	EPI656066	EPI656063	EPI656065	EPI656064
A/GD-101/2014/H7N9/2014-02-07	EPI656078	EPI656077	EPI656075	EPI656076	EPI656074	EPI656071	EPI656073	EPI656072
A/GD-103/2014/H7N9/2014-02-10	EPI656086	EPI656085	EPI656083	EPI656084	EPI656082	EPI656079	EPI656081	EPI656080
A/GD-104/2014/H7N9/2014-02-11	EPI656094	EPI656093	EPI656091	EPI656092	EPI656090	EPI656087	EPI656089	EPI656088
A/GD-105/2014/H7N9/2014-02-11	EPI656102	EPI656101	EPI656099	EPI656100	EPI656098	EPI656095	EPI656097	EPI656096
A/GD-109/2014/H7N9/2014-02-13			EPI656107	EPI656108	EPI656106	EPI656103	EPI656104	EPI656105
A/GD-110/2014/H7N9/2014-02-13	EPI656116	EPI656115	EPI656113	EPI656114	EPI656112	EPI656109	EPI656111	EPI656110
A/GD-112/2014/H7N9/2014-02-18	EPI656124	EPI656123	EPI656121	EPI656122	EPI656120	EPI656117	EPI656119	EPI656118
A/GD-114/2014/H7N9/2014-02-18	EPI656132	EPI656131	EPI656129	EPI656130	EPI656128	EPI656125	EPI656127	EPI656126
A/GD-119/2014/H7N9/2014-02-19	EPI656140	EPI656139	EPI656137	EPI656138	EPI656136	EPI656133	EPI656135	EPI656134
A/GD-120/2014/H7N9/2014-02-19	EPI656148	EPI656147	EPI656145	EPI656146	EPI656144	EPI656141	EPI656143	EPI656142
A/GD-121/2014/H7N9/2014-02-19	EPI656156	EPI656155	EPI656153	EPI656154	EPI656152	EPI656149	EPI656151	EPI656150
A/GD-116/2014/H7N9/2014-02-22		EPI656163	EPI656161	EPI656162	EPI656160	EPI656157	EPI656159	EPI656158
A/GD-117/2014/H7N9/2014-02-22	EPI656171	EPI656170	EPI656168	EPI656169	EPI656167	EPI656164	EPI656166	EPI656165
A/GD-123/2014/H7N9/2014-03-01	EPI656179	EPI656178	EPI656176	EPI656177	EPI656175	EPI656172	EPI656174	EPI656173
A/GD-124/2014/H7N9/2014-03-06	EPI656187	EPI656186	EPI656184	EPI656185	EPI656183	EPI656180	EPI656182	EPI656181
A/GD-125/2014/H7N9/2014-03-09	EPI656195	EPI656194	EPI656192	EPI656193	EPI656191	EPI656188	EPI656190	EPI656189
A/GD-126/2014/H7N9/2014-03-10	EPI656203	EPI656202	EPI656200	EPI656201	EPI656199	EPI656196	EPI656198	EPI656197
A/GD-136/2014/H7N9/2014-03-29	EPI656211	EPI656210	EPI656208	EPI656209	EPI656207	EPI656204	EPI656206	EPI656205
A/GD-138/2014/H7N9/2014-04-05	EPI656219	EPI656218	EPI656216	EPI656217	EPI656215	EPI656212	EPI656214	EPI656213
A/GD-139/2014/H7N9/2014-04-06	EPI656226	EPI656221	EPI656223	EPI656224	EPI656222	EPI656225	EPI656220	
A/GD-151/2014/H7N9/2014-05-06	EPI656234	EPI656233	EPI656231	EPI656232	EPI656230	EPI656227	EPI656229	EPI656228
A/GD-153/2014/H7N9/2014-05-08	EPI656242	EPI656241	EPI656239	EPI656240	EPI656238	EPI656235	EPI656237	EPI656236
A/GD-154/2014/H7N9/2014-05-28	EPI656250	EPI656249	EPI656247	EPI656248	EPI656246	EPI656243	EPI656245	EPI656244
A/GD-155/2014/H7N9/2014-11-19	EPI656258	EPI656257	EPI656255	EPI656256	EPI656254	EPI656251	EPI656253	EPI656252
A/GD-156/2014/H7N9/2014-11-25	EPI656266	EPI656265	EPI656263	EPI656264	EPI656262	EPI656259	EPI656261	EPI656260
A/GD-1/2015/H7N9/2015-01-03	EPI656274	EPI656273	EPI656271	EPI656272	EPI656270	EPI656267	EPI656269	EPI656268

A(H7N9) clinical strains†	HA	NA	PB2	PB1	PA	NP	M	NS
A/GD-2/2015/H7N9/2015-01-06	EPI656282	EPI656281	EPI656279	EPI656280	EPI656278	EPI656275	EPI656277	EPI656276
A/GD-10/2015/H7N9/2015-01-06	EPI656290	EPI656289	EPI656287	EPI656288	EPI656286	EPI656283	EPI656285	EPI656284
A/GD-18/2015/H7N9/2015-01-11	EPI656298	EPI656297	EPI656295	EPI656296	EPI656294	EPI656291	EPI656293	EPI656292
A/GD-17/2015/H7N9/2015-01-11	EPI656306	EPI656305	EPI656303	EPI656304	EPI656302	EPI656299	EPI656301	EPI656300
A/GD-20/2015/H7N9/2015-01-15	EPI656314	EPI656313	EPI656311	EPI656312	EPI656310	EPI656307	EPI656309	EPI656308
A/GD-21/2015/H7N9/2015-01-16	EPI656322	EPI656321	EPI656319	EPI656320	EPI656318	EPI656315	EPI656317	EPI656316
A/GD-44/2015/H7N9/2015-01-19	EPI656330	EPI656329	EPI656327	EPI656328	EPI656326	EPI656323	EPI656325	EPI656324
A/GD-27/2015/H7N9/2015-01-21	EPI656338	EPI656337	EPI656335	EPI656336	EPI656334	EPI656331	EPI656333	EPI656332
A/GD-43/2015/H7N9/2015-01-22	EPI656346	EPI656345	EPI656343	EPI656344	EPI656342	EPI656339	EPI656341	EPI656340
A/GD-30/2015/H7N9/2015-01-22	EPI656354	EPI656353	EPI656351	EPI656352	EPI656350	EPI656347	EPI656349	EPI656348
A/GD-42/2015/H7N9/2015-01-25	EPI656362	EPI656361	EPI656359	EPI656360	EPI656358	EPI656355	EPI656357	EPI656356
A/GD-45/2015/H7N9/2015-01-26	EPI656370	EPI656369	EPI656367	EPI656368	EPI656366	EPI656363	EPI656365	EPI656364
A/GD-54/2015/H7N9/2015-01-27	EPI656378	EPI656377	EPI656375	EPI656376	EPI656374	EPI656371	EPI656373	EPI656372
A/GD-55/2015/H7N9/2015-01-27	EPI656386	EPI656385	EPI656383	EPI656384	EPI656382	EPI656379	EPI656381	EPI656380
A/GD-50/2015/H7N9/2015-01-27	EPI656394	EPI656393	EPI656391	EPI656392	EPI656390	EPI656387	EPI656389	EPI656388
A/GD-51/2015/H7N9/2015-01-30	EPI656402	EPI656401	EPI656399	EPI656400	EPI656398	EPI656395	EPI656397	EPI656396
A/GD-53/2015/H7N9/2015-02-03	EPI656410	EPI656409	EPI656407	EPI656408	EPI656406	EPI656403	EPI656405	EPI656404
A/GD-57/2015/H7N9/2015-02-03	EPI656418	EPI656417	EPI656415	EPI656416	EPI656414	EPI656411	EPI656413	EPI656412
A/GD-69/2015/H7N9/2015-02-04	EPI656426	EPI656425	EPI656423	EPI656424	EPI656422	EPI656419	EPI656421	EPI656420
A/GD-72/2015/H7N9/2015-02-07	EPI656434	EPI656433	EPI656431	EPI656432	EPI656430	EPI656427	EPI656429	EPI656428
A/GD-68/2015/H7N9/2015-02-08	EPI656442	EPI656441	EPI656439	EPI656440	EPI656438	EPI656435	EPI656437	EPI656436
A/GD-80/2015/H7N9/2015-02-10	EPI656450	EPI656449	EPI656447	EPI656448	EPI656446	EPI656443	EPI656445	EPI656444
A/GD-81/2015/H7N9/2015-02-10	EPI656458	EPI656457	EPI656455	EPI656456	EPI656454	EPI656451	EPI656453	EPI656452
A/GD-76/2015/H7N9/2015-02-10	EPI656466	EPI656465	EPI656463	EPI656464	EPI656462	EPI656459	EPI656461	EPI656460
A/GD-92/2015/H7N9/2015-02-26	EPI656474	EPI656473	EPI656471	EPI656472	EPI656470	EPI656467	EPI656469	EPI656468
A/GD-91/2015/H7N9/2015-02-26	EPI656482	EPI656481	EPI656479	EPI656480	EPI656478	EPI656475	EPI656477	EPI656476
A/GD-124/2015/H7N9/2015-02-26	EPI656490	EPI656489	EPI656487	EPI656488	EPI656486	EPI656483	EPI656485	EPI656484

A(H7N9) clinical strains†	HA	NA	PB2	PB1	PA	NP	M	NS
A/GD-95/2015/H7N9/2015-03-05	EPI656498	EPI656497	EPI656495	EPI656496	EPI656494	EPI656491	EPI656493	EPI656492
A/GD-120/2015/H7N9/2015-03-10	EPI656506	EPI656505	EPI656503	EPI656504	EPI656502	EPI656499	EPI656501	EPI656500

\*HA, hemagglutinin; M, matrix; NA, neuraminidase; NP, nucleoprotein; NS, nonstructural; PA, polymerase; PB, polymerase protein.

†Accession number for H7N9 and H9N2 strains from live-poultry market environment are EPI654015–EPI654495.

**Technical Appendix Table 5.** Geographic distribution of avian influenza A(H7N9) viruses sequences used in phylogeographic analyses\*

Gene segments	China				Guangdong				Other countries	Exported regions
	Central	Eastern	Southeastern	Northern	Central	Eastern	Western	Hong Kong		
HA	42	163	24	13	135	36	7	9	–	4
NA	42	129	23	15	116	35	15	12	5	4
PB2	47	130	2	3	109	34	8	35	–	3
PB1	39	107	2	7	104	33	7	19	3	3
PA	32	127	2	9	125	29	10	27	9	4
M	49	149	2	6	132	38	13	22	6	4
NP	54	128	3	11	121	33	11	15	7	3
NS	37	104	1	8	118	33	10	21	11	3

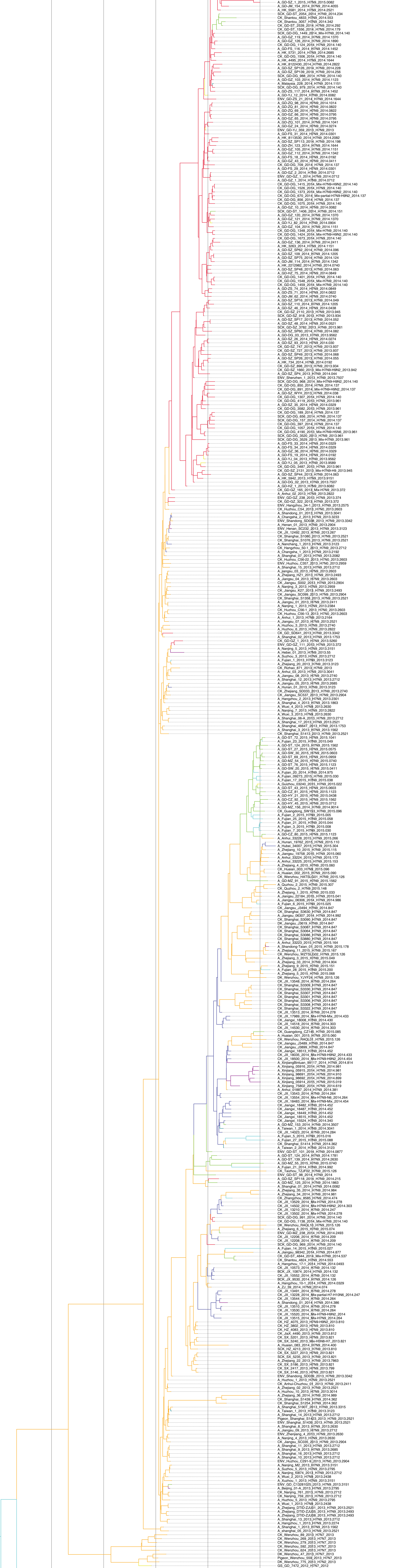
\*HA, hemagglutinin; M, matrix; NA, neuraminidase; NP, nucleoprotein; NS, nonstructural; PA, polymerase; PB, polymerase protein.

**Technical Appendix Figure (following pages).** Bayesian maximum clade credibility phylogeographic tree of the neuraminidase (A), polymerase protein 1 (B), polymerase (C), matrix (D), nucleoprotein (E), and nonstructural (F) gene sequences. Branch colors represent the most probable ancestral locations inferred from geo-referenced sequence data through a spatial phylogenetic model (see Materials and Methods in the article main text for details). Colors and legend details are identical to those in Figure 2 and 3 in the main text.

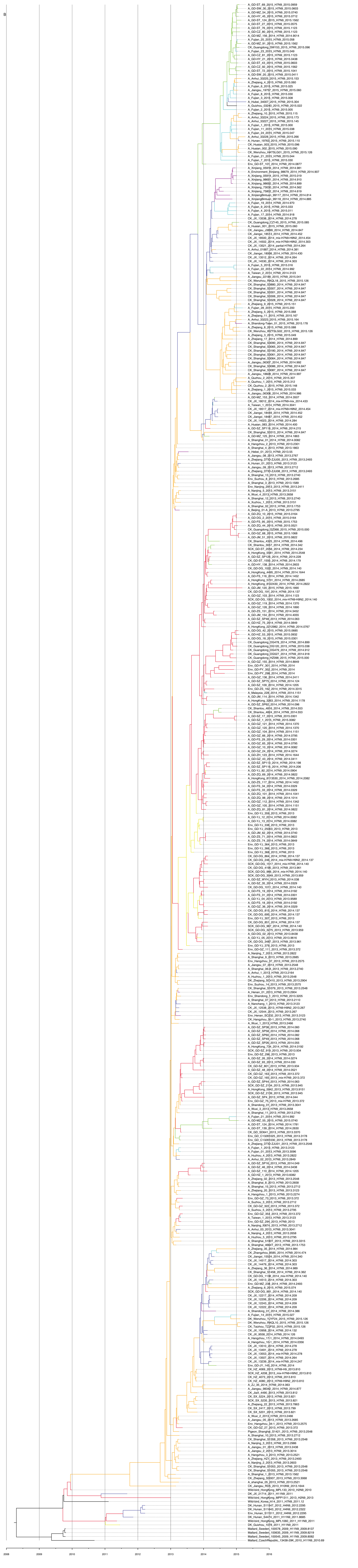


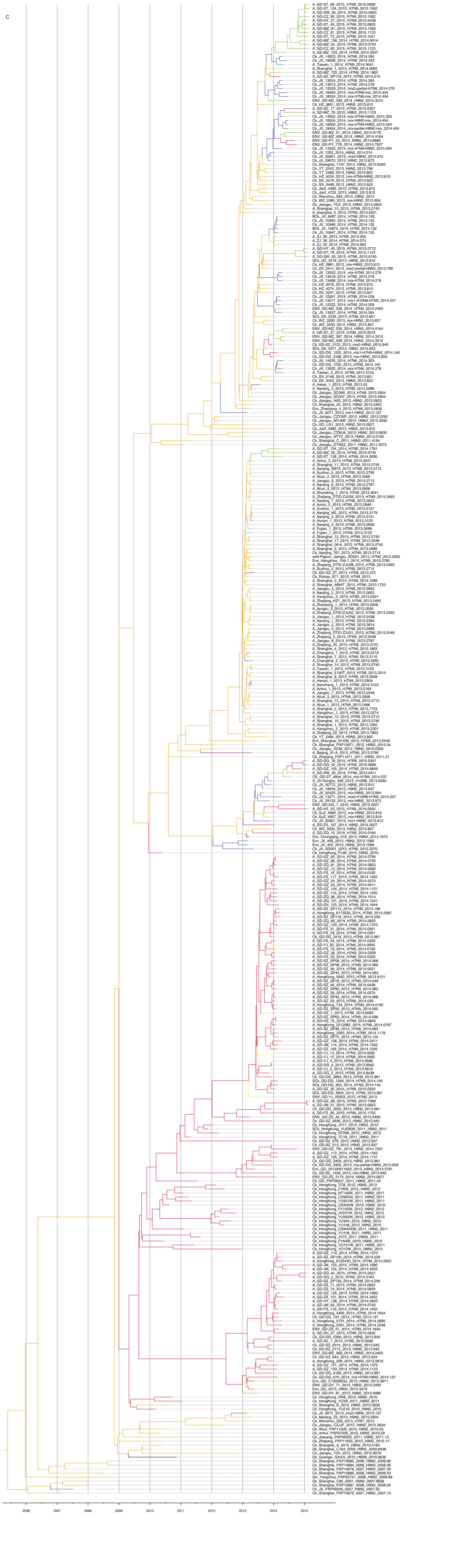
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- Central China
- Eastern China
- Northern China
- Southeast China
- Central GD
- Eastern GD
- Western GD
- Exported
- Other Regions



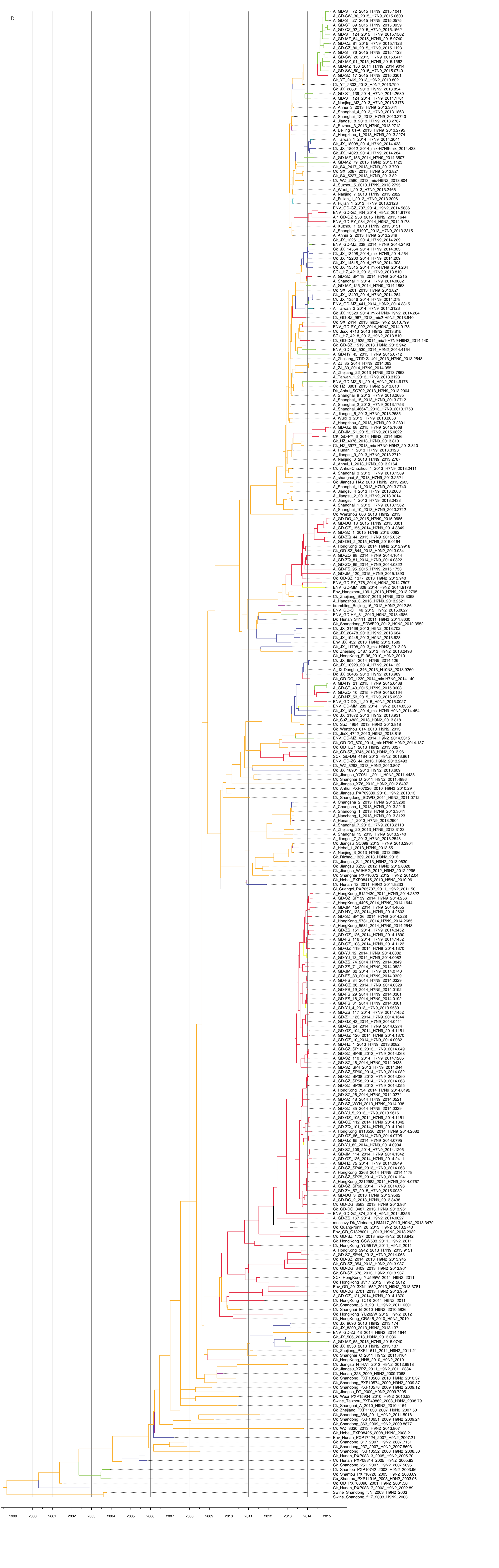
2010 2011 2012 2013 2014 2015 2016

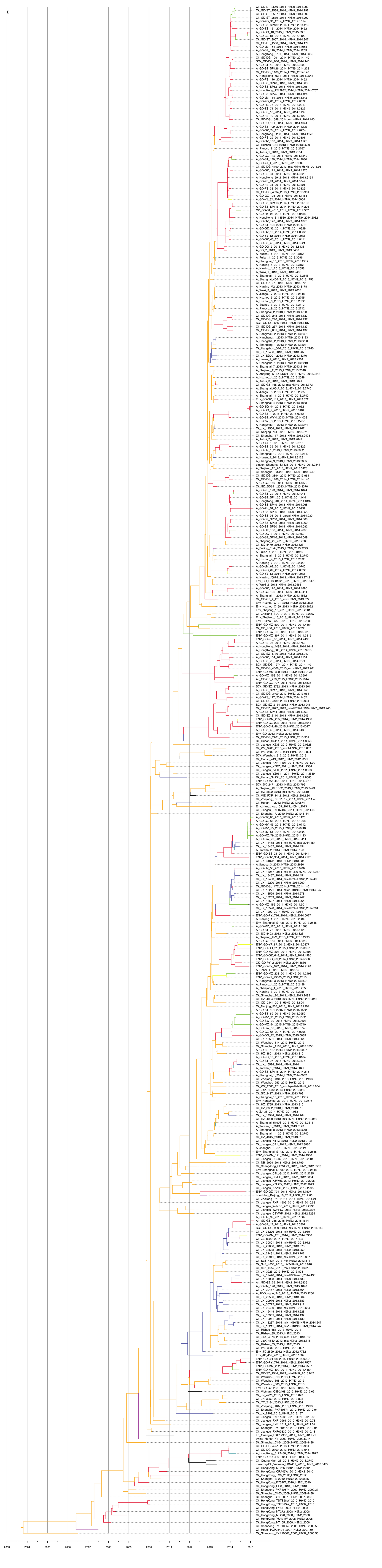




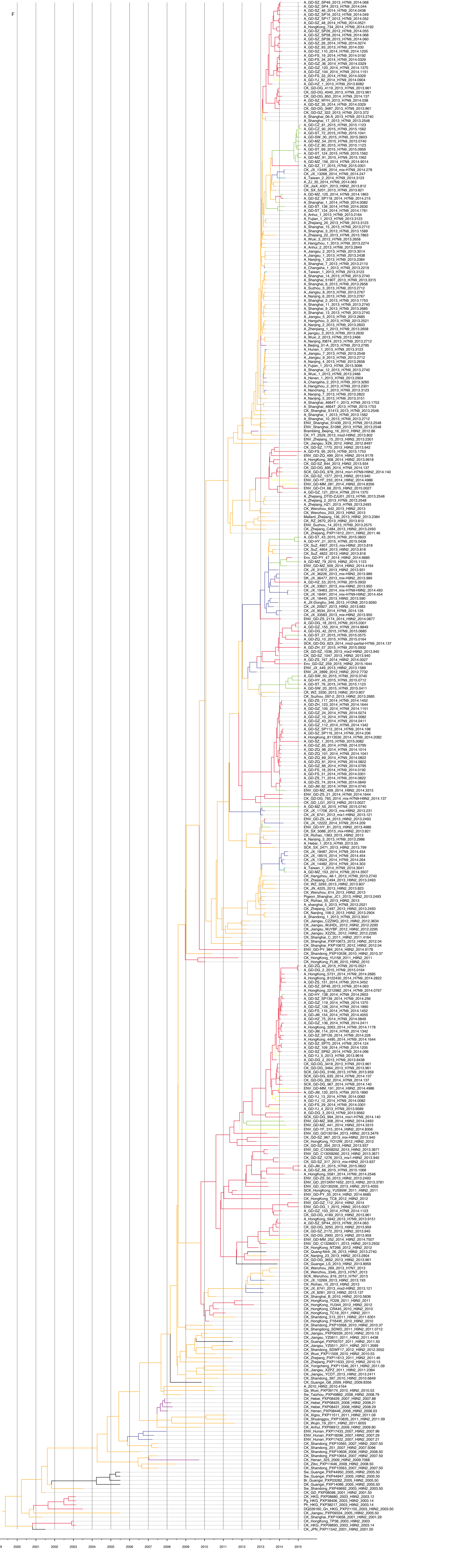
A-GD-ST\_69\_2015\_H7N9\_2015.0959  
A-GD-ST\_124\_2015\_H7N9\_2015.1562  
A-GD-SW\_30\_2015\_H7N9\_2015.0603  
A-GD-CZ\_92\_2015\_H7N9\_2015.1562  
A-GD-HY\_21\_2015\_H7N9\_2015.0438  
A-GD-ST\_43\_2015\_H7N9\_2015.0603  
A-GD-MZ\_91\_2015\_H7N9\_2015.1562  
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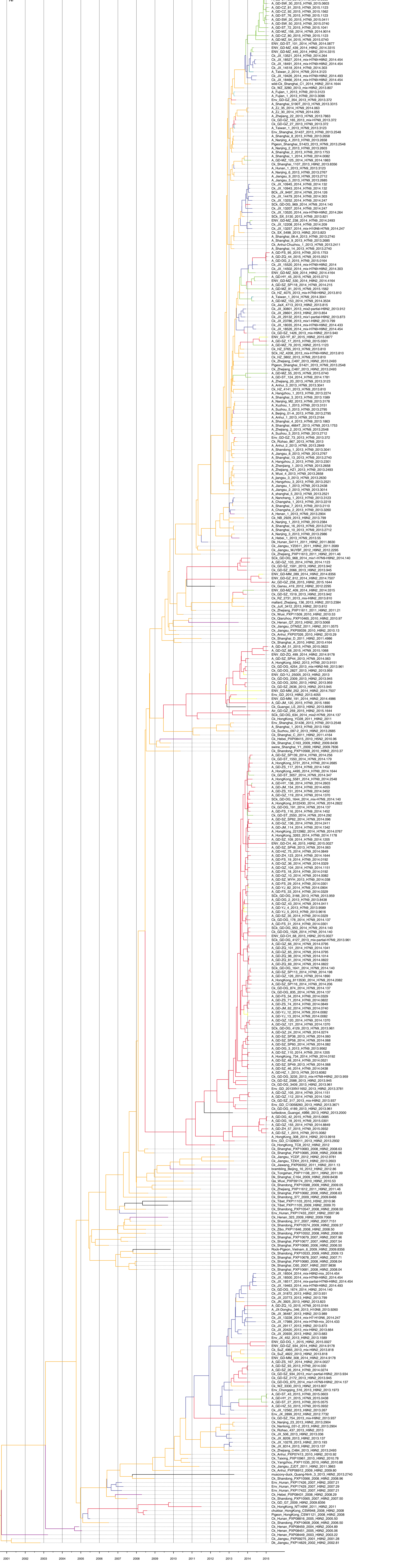
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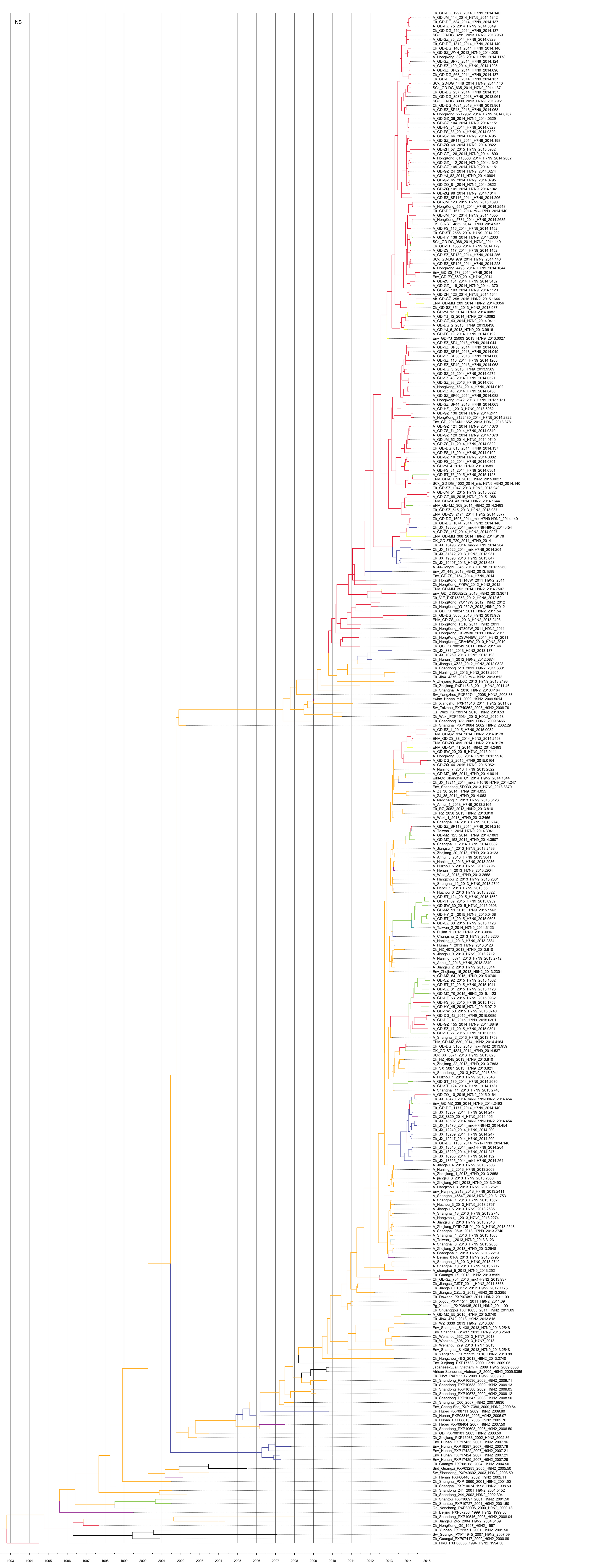




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