

S1 Table. The accession numbers of neuraminidase sequences were used in present study

Influenza A(H3N2)

Virus name	Accession number
A/California/7/2004	EPI367106
A/Wisconsin/67/2005	EPI160220
A/Brisbane/10/2007	EPI165491
A/Perth/16/2009	EPI182942
A/Victoria/361/2011	EPI353905
A/Switzerland/9715293/2013	EPI540525
A/Moscow/10/99	EPI103336
A/Panama/2007/1999	DQ487337
A/Beijing/353/1989	DQ508835
A/Beijing/32/1992	CY033608
A/England/42/1972	CY113087
A/Fujian/411/2002	CY088485
A/Hong Kong/1/1968	CY112251
A/Sichuan/2/1987	CY112398
A/Sydney/5/1997	CY112887
A/Texas/1/1977	CY113263
A/Victoria/3/1975	CY113183
A/Wuhan/359/1995	CY112823
A/Wellington/01/2004	CY012106
A/Israel/1/11/2011	EPI319251
A/Norway/1330/2010	EPI302230
A/Stockholm/18/2011	EPI318273
A/England/259/2011	EPI346608
A/Texas/50/2012	KC892237
A/Hong Kong/146/2013	EPI426062
A/Ireland/M28390/2013	EPI467995
A/Hong Kong/4801/2014	EPI539577
A/Samara/73/2013	EPI460559
A/Newcastle/22/2014	EPI541460
A/Madagascar/0648/2011	EPI319277
A/Serbia/71/2011	EPI326116
A/Alabama/05/2010	KC535442
A/Iowa/19/2010	KC882859
A/Minnesota/10/2012	KC892316
A/Victoria/208/2009	EPI232452
A/Bangkok/1/1979	CY121002

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A/Bangkok/122/94	U43426
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A/Bangkok/44/2015	EPI649660

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A/Prachuapkhirikhan/289/2015	EPI649489
A/Nonthaburi/345/2015	EPI647891
A/Nonthaburi/340/2015	EPI647883
A/Rayong/335/2015	EPI647875
A/Nonthaburi/333/2015	EPI647859
A/Nong Khai/218/2013	EPI587902
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A/Chanthaburi/179/2013	EPI587900
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A/Phuket/342/2013	EPI553203
A/Tak/1845/2014	EPI545580
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A/CHIANGRAI/337/2013	EPI529567
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A/SongKhla/117/2014	EPI516707
A/ChiangRai/114/2014	EPI516704
A/Phuket/186/2013	EPI467241
A/Kamphaengphet/175/2013	EPI466932
A/Nonthaburi/174/2013	EPI466923
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A/PHUKET/407/2012	EPI450267
A/Nonthanuri/456/2012	EPI432651

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A/Prachuapkhirikhan/328/2012	EPI406056
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Influenza A(H1N1)

Virus name	Accession number
A/NewCaledonia/20/1999	CY033624
A/Denmark/16/2004	EU097726
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A/Thailand/CU41/2006	EU021247
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A/StPetersburg/8/2006	CY035128
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A/Tak/427/2009	EPI232888
A/CHANTHABURI/341/2009	EPI228273
A/SURAT THANI/337/2009	EPI228257
A/TAK/334/2009	EPI 228255
A/Thailand/1037/2008	EPI189736
A/Thailand/381/2008	EPI163216
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A/Thailand/375/2008	EPI163059
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A/Thailand/1577/2007	EPI158217
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A/Ratchaburi/1847/2004	EPI158089
A/Prachinburi/1817/2004	EPI158082
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A/Nonthaburi/1739/2004	EPI158031
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A/Bangkok/1406/2004	EPI157411
A/Ayutthaya/1720/2004	EPI157410
A/Ayutthaya/2111/2004	EPI157408
A/Thailand/689/2006	EPI155285
A/Thailand/677/2006	EPI155283
A/Thailand/580/2006	EPI155281
A/Thailand/676/2006	EPI155279
A/Thailand/672/2006	EPI155277
A/Thailand/674/2006	EPI155275
A/Thailand/717/2006	EPI155268
A/Thailand/718/2006	EPI155266

Influenza A(H1N1)pdm09

Virus name	Accession number
A/California/07/2009	FJ984386
A/CzechRepublic/32/2011	EPI319448
A/HongKong/3934/2011	EPI326207
A/Christchurch/16/2010	EPI280343
A/Astrakhan/1/2011	EPI319591
A/HongKong/5659/2012	EPI382425
A/SouthAfrica/3626/2013	EPI466627
A/Dakar/02/2014	EPI539471
A/Ghana/DARI/0095/2014	EPI541030
A/StPetersburg/100/2011	EPI316434
A/Thailand/CU-B4656/2011	KX151227
A/Thailand/CU-B4662/2011	KX151228
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A/Thailand/CU-B5356/2011	KX151231
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A/Khon Kaen/INS588/2010	CY129824
A/Nonthaburi/102/2009	CY039988
A/Thailand/104/2009	GQ169381
A/Thailand/C602/2010	CY080309
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A/Thailand/SirirajICRC_NMA_5/2011	KF849756
A/Thailand/SirirajICRC_NMA_6/2011	KF849757
A/Thailand/SirirajICRC_NMA_7/2011	KF849758
A/Thailand/SirirajICRC_NMA_8/2011	KF849759
A/Thailand/SirirajICRC_NMA_9/2011	KF849760
A/Thailand/SirirajICRC_NSN_1/2010	KF849749
A/Thailand/SirirajICRC_NSN_3/2010	KF849750
A/Thailand/SirirajICRC_SEA-001(34)/2010	KF849747
A/Thailand/SirirajICRC_SEA-002(33)/2010	KF849745
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A/Thailand/SirirajICRC_SEA-003(33)/2010	KF849748
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A/Thailand/CU-H2548/2010	CY089449
A/Thailand/CU-H2698/2010	CY089457
A/Thailand/CU-H2911/2011	CY089465
A/Thailand/CU-H567/2009	CY074992

A/Thailand/CU-H572/2009	CY075000
A/Thailand/CU-H847/2009	CY075008
A/Thailand/CU-H88/2009	HM446344
A/Thailand/CU-H9/2009	GQ866961
A/Thailand/CU-H910/2009	CY075016
A/Thailand/CU-C1157/2010	CY081157
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A/Pathumthani/12/2015	EPI636129
A/Chanthaburi/11/2015	EPI636091
A/Nonthaburi/375/2014	EPI565031
A/Nonthaburi/2398/2014	EPI 564983
A/Nonthaburi/72/2013	EPI552434
A/Bangkok/374/2013	EPI552432
A/Song Khla/160/2013	EPI552429
A/Phuket/01/2013	EPI 552427
A/Phuket/316/2014	EPI541523
A/Bangkok/1792/2014	EPI541517
A/SUPHANBURI/234/2014	EPI540902
A/NONTHABURI/248/2014	EPI540897
A/Sukhothai/214/2014	EPI 531877
A/Chanthaburi/190/2014	EPI 531836
A/PRACHUAP KHIRI KHAN/332/2013	EPI 529418
A/Song Khla/139/2014	EPI524286
A/Chiang Rai/157/2013	EPI 466936
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A/Surat Thani/16/2013	EPI 439227
A/Chiang Rai/312/2012	EPI407400
A/Phuket/294/2012	EPI 407397
A/Song Khla/3113/2012	EPI407361
A/Tak/327/2012	EPI406034
A/Chiang Rai/312/2012	EPI 406031
A/Ayutthaya/283/2012	EPI386005
A/Nonthaburi/74/2012	EPI379535
A/SONG KHLA/40/2012	EPI346512
A/Song Khla/270/2011	EPI332584
A/Nonthaburi/78/2011	EPI 331545

A/SONG KHLA/34/2011	EPI 295512
A/Thailand/742/2010	EPI 295494
A/Thailand/594/2010	EPI 276899
A/CHIANG RAI/226/2010	EPI271972
A/SAMUTPRAKAN/102/2010	EPI 231481
A/Surat Thani/563/2009	EPI231343
A/Ayutthaya/568/2009	EPI 221043
A/Thailand/2944/2009	EPI179068

Influenza B

Virus name	Accession number
B/Victoria/02/1987	CY018759
B/Yamagata/16/1988	CY018767
B/Yamanashi/166/1998	CY019533
B/Lee/40 1940	DQ792899
B/Russia/1969	EF626638
B/Shanghai/361/2002	EF541477
B/Malaysia/2506/2004	CY040451
B/Florida/4/2006 2006	CY033878
B/Brisbane/60/2008	CY115153
B/Wisconsin/01/2010	CY115185
B/Jiangsu/10/2003	CY033846
B/Johannesburg/3964/2012	EPI406273
B/Brisbane/33/2008	CY149983
B/England/393/2008	EPI211560
B/Victoria/304/2006	AGX18593
B/Uruguay/12/2008	EPI172515
B/FujianGulou/1272/2008	EPI366582
B/Singapore/19/2009	EPI193057
B/Argentina/R158/2010	EPI301333
B/Harbin/7/1994	CY040443
B/Sichuan/379/99	AJ784087
B/Bangladesh/3333/2007	AFH58308
B/Stockholm/12/2011	EPI340833
B/Bangkok/141/1994	CY019677
B/Bangkok/153/1990	CY019613
B/Bangkok/163/1990	CY019621
B/Bangkok/34/1999	AY139056
B/Bangkok/54/1999	AY139055

B/Chantaburi/218/2003	CY022223
B/Thailand/SirirajBKK1/2012	KF492944
B/Thailand/SirirajBKK2/2012	KF492945
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