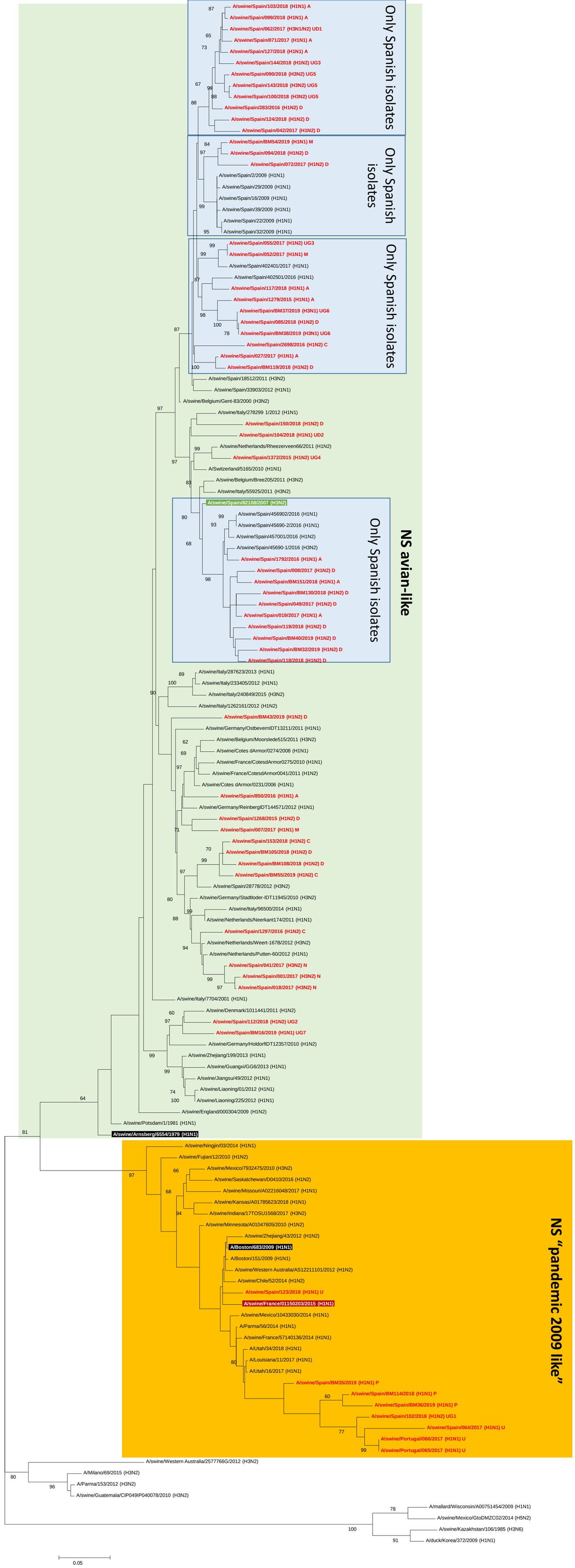
NS


Only Spanish isolates
A/swine/Spain/103/2018 (H1N1) A
A/swine/Spain/099/2018 (H1N1) A
A/swine/Spain/062/2017 (H3N1/N2) UD1
A/swine/Spain/071/2017 (H1N1) A
A/swine/Spain/127/2018 (H1N1) A
A/swine/Spain/144/2018 (H1N2) UG3
A/swine/Spain/090/2018 (H3N2) UG5
A/swine/Spain/143/2018 (H3N2) UG5
A/swine/Spain/100/2018 (H3N2) UG5
A/swine/Spain/283/2016 (H1N2) D
A/swine/Spain/124/2018 (H1N2) D
A/swine/Spain/042/2017 (H1N2) D
Only Spanish isolates
A/swine/Spain/BM54/2019 (H1N1) M
A/swine/Spain/094/2018 (H1N2) D
A/swine/Spain/072/2017 (H1N2) D
A/swine/Spain/2/2009 (H1N1)
A/swine/Spain/29/2009 (H1N1)
A/swine/Spain/16/2009 (H1N1)
A/swine/Spain/39/2009 (H1N1)
A/swine/Spain/22/2009 (H1N1)
A/swine/Spain/32/2009 (H1N1)
Only Spanish isolates
A/swine/Spain/055/2017 (H1N2) UG3
A/swine/Spain/052/2017 (H1N1) M
A/swine/Spain/402401/2017 (H1N1)
A/swine/Spain/402501/2016 (H1N1)
A/swine/Spain/117/2018 (H1N1) A
A/swine/Spain/1279/2015 (H1N1) A
A/swine/Spain/BM37/2019 (H3N1) UG6
A/swine/Spain/085/2018 (H1N2) D
A/swine/Spain/BM38/2019 (H3N1) UG6
A/swine/Spain/2698/2016 (H1N2) C
A/swine/Spain/027/2017 (H1N1) A
A/swine/Spain/BM119/2018 (H1N2) D
A/swine/Spain/18512/2011 (H3N2)
A/swine/Spain/33903/2012 (H1N1)
A/swine/Belgium/Gent-83/2000 (H3N2)
A/swine/Italy/278299 1/2012 (H1N1)
A/swine/Spain/150/2018 (H1N2) D
A/swine/Spain/104/2018 (H1N1) UD2
A/swine/Netherlands/Rheezerveen66/2011 (H1N2)
A/swine/Spain/1372/2015 (H1N2) UG4
A/Switzerland/5165/2010 (H1N1)
A/swine/Belgium/Bree205/2011 (H3N2)
A/swine/Italy/55925/2011 (H3N2)
A/swine/Spain/82108/2007 (H3N2)
Only Spanish isolates
A/swine/Spain/456902/2016 (H1N1)
A/swine/Spain/45690-2/2016 (H1N1)
A/swine/Spain/457001/2016 (H1N2)
A/swine/Spain/45690-1/2016 (H3N2)
A/swine/Spain/1792/2016 (H1N1) A
A/swine/Spain/008/2017 (H1N2) D
A/swine/Spain/BM151/2018 (H1N1) A
A/swine/Spain/BM130/2018 (H1N2) D
A/swine/Spain/049/2017 (H1N2) D
A/swine/Spain/019/2017 (H1N1) A
A/swine/Spain/119/2018 (H1N2) D
A/swine/Spain/BM40/2019 (H1N2) D
A/swine/Spain/BM32/2019 (H1N2) D
A/swine/Spain/118/2018 (H1N2) D
NS avian-like
A/swine/Italy/287623/2013 (H1N1)
A/swine/Italy/233405/2012 (H1N1)
A/swine/Italy/240849/2015 (H3N2)
A/swine/Italy/1262161/2012 (H1N2)
A/swine/Spain/BM43/2019 (H1N2) D
A/swine/Germany/OstbevernIDT13211/2011 (H1N1)
A/swine/Belgium/Moorslede515/2011 (H3N2)
A/swine/Cotes dArmor/0274/2008 (H1N1)
A/swine/France/CotesdArmor0275/2010 (H1N1)
A/swine/France/CotesdArmor0041/2011 (H1N2)
A/swine/Cotes dArmor/0231/2006 (H1N1)
A/swine/Spain/850/2016 (H1N1) A
A/swine/Germany/ReinbergIDT144571/2012 (H1N1)
A/swine/Spain/1268/2015 (H1N2) D
A/swine/Spain/007/2017 (H1N1) M
A/swine/Spain/153/2018 (H1N2) C
A/swine/Spain/BM105/2018 (H1N2) D
A/swine/Spain/BM108/2018 (H1N2) D
A/swine/Spain/BM55/2019 (H1N2) C
A/swine/Spain/28778/2012 (H3N2)
A/swine/Germany/Stadtloder-IDT11945/2010 (H3N2)
A/swine/Italy/96500/2014 (H1N1)
A/swine/Netherlands/Neerkant174/2011 (H1N1)
A/swine/Spain/1297/2016 (H1N2) C
A/swine/Netherlands/Weert-167B/2012 (H3N2)
A/swine/Netherlands/Putten-60/2012 (H1N1)
A/swine/Spain/041/2017 (H3N2) N
A/swine/Spain/001/2017 (H3N2) N
A/swine/Spain/018/2017 (H3N2) N
A/swine/Italy/7704/2001 (H1N1)
A/swine/Denmark/1011441/2011 (H1N2)
A/swine/Spain/112/2018 (H1N2) UG2
A/swine/Spain/BM16/2019 (H1N1) UG7
A/swine/Germany/HoldorfIDT12357/2010 (H1N2)
A/swine/Zhejiang/199/2013 (H1N1)
A/swine/Guangxi/GG6/2013 (H1N1)
A/swine/Jiangsu/49/2012 (H1N1)
A/swine/Liaoning/01/2012 (H1N1)
A/swine/Liaoning/225/2012 (H1N1)
A/swine/England/000304/2009 (H1N2)
A/swine/Potsdam/1/1981 (H1N1)
A/swine/Arnsberg/6554/1979 (H1N1)
NS "pandemic 2009 like"
A/swine/Ningjin/03/2014 (H1N1)
A/swine/Fujian/12/2010 (H1N2)
A/swine/Mexico/7932475/2010 (H3N2)
A/swine/Saskatchewan/D0410/2016 (H1N2)
A/swine/Missouri/A02216048/2017 (H1N1)
A/swine/Kansas/A01785623/2018 (H1N1)
A/swine/Indiana/17TOSU1568/2017 (H3N2)
A/swine/Minnesota/A01047605/2010 (H1N2)
A/swine/Zhejiang/43/2012 (H1N2)
A/Boston/683/2009 (H1N1)
A/Boston/151/2009 (H1N1)
A/swine/Western Australia/AS12211101/2012 (H1N2)
A/swine/Chile/52/2014 (H1N2)
A/swine/Spain/123/2018 (H1N1) U
A/swine/France/01150203/2015 (H1N1)
A/swine/Mexico/10433030/2014 (H1N1)
A/Parma/56/2014 (H1N1)
A/swine/France/57140136/2014 (H1N1)
A/Utah/34/2018 (H1N1)
A/Louisiana/11/2017 (H1N1)
A/Utah/16/2017 (H1N1)
A/swine/Spain/BM35/2019 (H1N1) P
A/swine/Spain/BM114/2018 (H1N1) P
A/swine/Spain/BM36/2019 (H1N1) P
A/swine/Spain/102/2018 (H1N2) UG1
A/swine/Spain/064/2017 (H1N1) U
A/swine/Portugal/066/2017 (H1N1) U
A/swine/Portugal/065/2017 (H1N1) U
A/swine/Western Australia/2577766G/2012 (H3N2)
A/Milano/69/2015 (H3N2)
A/Parma/153/2012 (H3N2)
A/swine/Guatemala/CIP049IP040078/2010 (H3N2)
A/mallard/Wisconsin/A00751454/2009 (H1N1)
A/swine/Mexico/GtoDMZC02/2014 (H5N2)
A/swine/Kazakhstan/106/1985 (H3N6)
A/duck/Korea/372/2009 (H1N1)
0.05