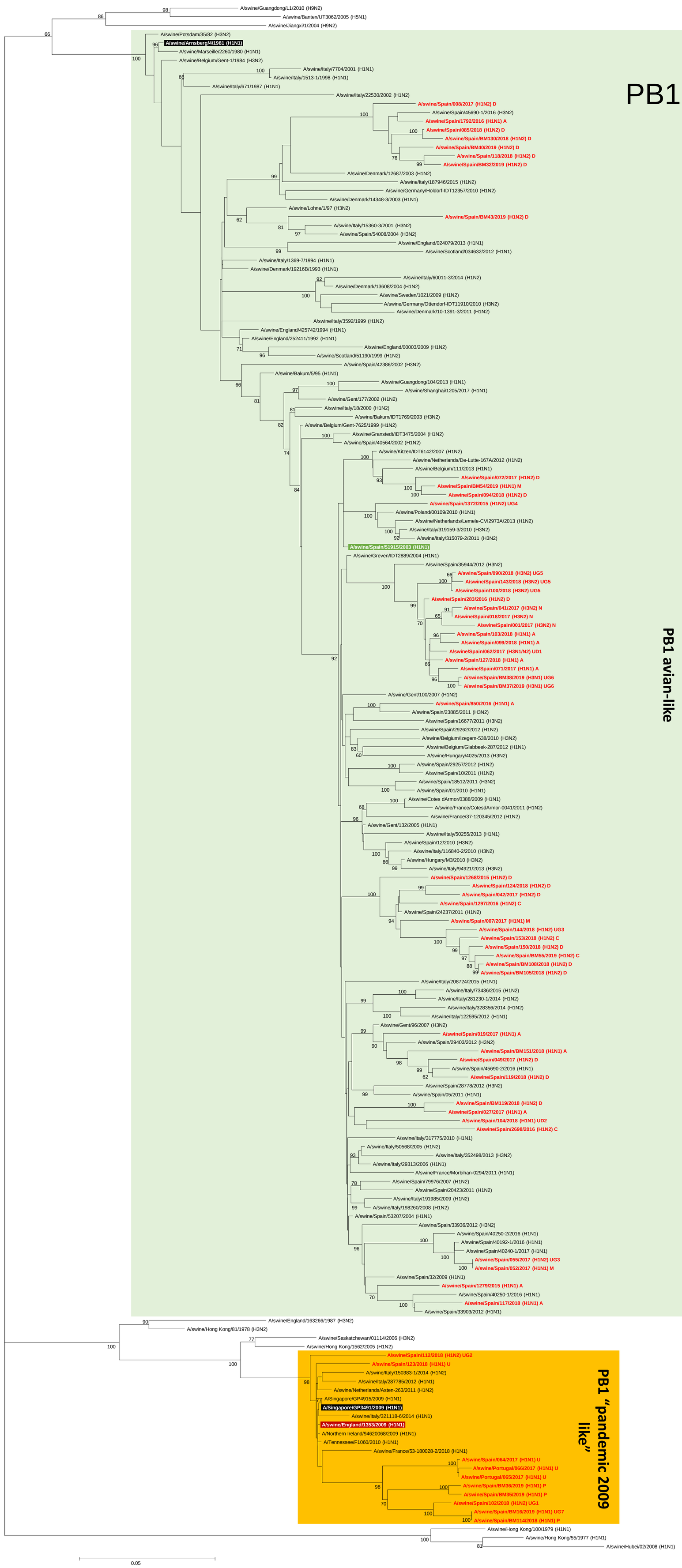
PB1
PB1 avian-like
PB1 "pandemic 2009 like"
A/swine/Guangdong/L1/2010 (H9N2)
A/swine/Banten/UT3062/2005 (H5N1)
A/swine/Jiangxi/1/2004 (H9N2)
A/swine/Potsdam/35/82 (H3N2)
A/swine/Arnsberg/4/1981 (H1N1)
A/swine/Marseille/2260/1980 (H1N1)
A/swine/Belgium/Gent-1/1984 (H3N2)
A/swine/Italy/7704/2001 (H1N1)
A/swine/Italy/1513-1/1998 (H1N1)
A/swine/Italy/671/1987 (H1N1)
A/swine/Italy/22530/2002 (H1N2)
A/swine/Spain/008/2017 (H1N2) D
A/swine/Spain/45690-1/2016 (H3N2)
A/swine/Spain/1792/2016 (H1N1) A
A/swine/Spain/085/2018 (H1N2) D
A/swine/Spain/BM130/2018 (H1N2) D
A/swine/Spain/BM40/2019 (H1N2) D
A/swine/Spain/118/2018 (H1N2) D
A/swine/Spain/BM32/2019 (H1N2) D
A/swine/Denmark/12687/2003 (H1N2)
A/swine/Italy/187946/2015 (H1N2)
A/swine/Germany/Holdorf-IDT12357/2010 (H1N2)
A/swine/Denmark/14348-3/2003 (H1N1)
A/swine/Lohne/1/97 (H3N2)
A/swine/Spain/BM43/2019 (H1N2) D
A/swine/Italy/15360-3/2001 (H3N2)
A/swine/Spain/54008/2004 (H3N2)
A/swine/England/024079/2013 (H1N1)
A/swine/Scotland/034632/2012 (H1N1)
A/swine/Italy/1369-7/1994 (H1N1)
A/swine/Denmark/19216B/1993 (H1N1)
A/swine/Italy/60011-3/2014 (H1N2)
A/swine/Denmark/13608/2004 (H1N2)
A/swine/Sweden/1021/2009 (H1N2)
A/swine/Germany/Ottendorf-IDT11910/2010 (H3N2)
A/swine/Denmark/10-1391-3/2011 (H1N2)
A/swine/Italy/3592/1999 (H1N2)
A/swine/England/425742/1994 (H1N1)
A/swine/England/252411/1992 (H1N1)
A/swine/England/00003/2009 (H1N2)
A/swine/Scotland/51190/1999 (H1N2)
A/swine/Spain/42386/2002 (H3N2)
A/swine/Bakum/5/95 (H1N1)
A/swine/Guangdong/104/2013 (H1N1)
A/swine/Shanghai/1205/2017 (H1N1)
A/swine/Gent/177/2002 (H1N2)
A/swine/Italy/18/2000 (H1N2)
A/swine/Bakum/IDT1769/2003 (H3N2)
A/swine/Belgium/Gent-7625/1999 (H1N2)
A/swine/Granstedt/IDT3475/2004 (H1N2)
A/swine/Spain/40564/2002 (H1N2)
A/swine/Kitzen/IDT6142/2007 (H1N2)
A/swine/Netherlands/De-Lutte-167A/2012 (H1N2)
A/swine/Belgium/111/2013 (H1N1)
A/swine/Spain/072/2017 (H1N2) D
A/swine/Spain/BM54/2019 (H1N1) M
A/swine/Spain/094/2018 (H1N2) D
A/swine/Spain/1372/2015 (H1N2) UG4
A/swine/Poland/00109/2010 (H1N1)
A/swine/Netherlands/Lemele-CVI2973A/2013 (H1N2)
A/swine/Italy/319159-3/2010 (H3N2)
A/swine/Italy/315079-2/2011 (H3N2)
A/swine/Spain/51915/2003 (H1N1)
A/swine/Greven/IDT2889/2004 (H1N1)
A/swine/Spain/35944/2012 (H3N2)
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/041/2017 (H3N2) N
A/swine/Spain/018/2017 (H3N2) N
A/swine/Spain/001/2017 (H3N2) N
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/127/2018 (H1N1) A
A/swine/Spain/071/2017 (H1N1) A
A/swine/Spain/BM38/2019 (H3N1) UG6
A/swine/Spain/BM37/2019 (H3N1) UG6
A/swine/Gent/100/2007 (H1N2)
A/swine/Spain/850/2016 (H1N1) A
A/swine/Spain/23885/2011 (H3N2)
A/swine/Spain/16677/2011 (H3N2)
A/swine/Spain/29262/2012 (H1N2)
A/swine/Belgium/Izegem-538/2010 (H3N2)
A/swine/Belgium/Glabbeek-287/2012 (H1N1)
A/swine/Hungary/4025/2013 (H3N2)
A/swine/Spain/29257/2012 (H1N2)
A/swine/Spain/10/2011 (H1N2)
A/swine/Spain/18512/2011 (H3N2)
A/swine/Spain/01/2010 (H1N1)
A/swine/Cotes dArmor/0388/2009 (H1N1)
A/swine/France/CotesdArmor-0041/2011 (H1N2)
A/swine/France/37-120345/2012 (H1N2)
A/swine/Gent/132/2005 (H1N1)
A/swine/Italy/50255/2013 (H1N1)
A/swine/Spain/12/2010 (H3N2)
A/swine/Italy/116840-2/2010 (H3N2)
A/swine/Hungary/M3/2010 (H3N2)
A/swine/Italy/94921/2013 (H3N2)
A/swine/Spain/1268/2015 (H1N2) D
A/swine/Spain/124/2018 (H1N2) D
A/swine/Spain/042/2017 (H1N2) D
A/swine/Spain/1297/2016 (H1N2) C
A/swine/Spain/24237/2011 (H1N2)
A/swine/Spain/007/2017 (H1N1) M
A/swine/Spain/144/2018 (H1N2) UG3
A/swine/Spain/153/2018 (H1N2) C
A/swine/Spain/150/2018 (H1N2) D
A/swine/Spain/BM55/2019 (H1N2) C
A/swine/Spain/BM108/2018 (H1N2) D
A/swine/Spain/BM105/2018 (H1N2) D
A/swine/Italy/208724/2015 (H1N1)
A/swine/Italy/73436/2015 (H1N2)
A/swine/Italy/281230-1/2014 (H1N2)
A/swine/Italy/328356/2014 (H1N2)
A/swine/Italy/122595/2012 (H1N1)
A/swine/Gent/96/2007 (H3N2)
A/swine/Spain/019/2017 (H1N1) A
A/swine/Spain/29403/2012 (H3N2)
A/swine/Spain/BM151/2018 (H1N1) A
A/swine/Spain/049/2017 (H1N2) D
A/swine/Spain/45690-2/2016 (H1N1)
A/swine/Spain/119/2018 (H1N2) D
A/swine/Spain/28778/2012 (H3N2)
A/swine/Spain/05/2011 (H1N1)
A/swine/Spain/BM119/2018 (H1N2) D
A/swine/Spain/027/2017 (H1N1) A
A/swine/Spain/104/2018 (H1N1) UD2
A/swine/Spain/2698/2016 (H1N2) C
A/swine/Italy/317775/2010 (H1N1)
A/swine/Italy/50568/2005 (H1N2)
A/swine/Italy/352498/2013 (H3N2)
A/swine/Italy/29313/2006 (H1N1)
A/swine/France/Morbihan-0294/2011 (H1N1)
A/swine/Spain/79976/2007 (H1N2)
A/swine/Spain/20423/2011 (H1N2)
A/swine/Italy/191985/2009 (H1N2)
A/swine/Italy/198260/2008 (H1N2)
A/swine/Spain/53207/2004 (H1N1)
A/swine/Spain/33936/2012 (H3N2)
A/swine/Spain/40250-2/2016 (H1N1)
A/swine/Spain/40192-1/2016 (H1N1)
A/swine/Spain/40240-1/2017 (H1N1)
A/swine/Spain/055/2017 (H1N2) UG3
A/swine/Spain/052/2017 (H1N1) M
A/swine/Spain/32/2009 (H1N1)
A/swine/Spain/1279/2015 (H1N1) A
A/swine/Spain/40250-1/2016 (H1N1)
A/swine/Spain/117/2018 (H1N1) A
A/swine/Spain/33903/2012 (H1N1)
A/swine/England/163266/1987 (H3N2)
A/swine/Hong Kong/81/1978 (H3N2)
A/swine/Saskatchewan/01114/2006 (H3N2)
A/swine/Hong Kong/1562/2005 (H1N2)
A/swine/Spain/112/2018 (H1N2) UG2
A/swine/Spain/123/2018 (H1N1) U
A/swine/Italy/150383-1/2014 (H1N2)
A/swine/Italy/287785/2012 (H1N1)
A/swine/Netherlands/Asten-263/2011 (H1N2)
A/Singapore/GP4915/2009 (H1N1)
A/Singapore/GP3491/2009 (H1N1)
A/swine/Italy/321118-6/2014 (H1N1)
A/swine/England/1353/2009 (H1N1)
A/Northern Ireland/94620068/2009 (H1N1)
A/Tennessee/F1060/2010 (H1N1)
A/swine/France/53-180028-2/2018 (H1N1)
A/swine/Spain/064/2017 (H1N1) U
A/swine/Portugal/066/2017 (H1N1) U
A/swine/Portugal/065/2017 (H1N1) U
A/swine/Spain/BM36/2019 (H1N1) P
A/swine/Spain/BM35/2019 (H1N1) P
A/swine/Spain/102/2018 (H1N2) UG1
A/swine/Spain/BM16/2019 (H1N1) UG7
A/swine/Spain/BM114/2018 (H1N1) P
A/swine/Hong Kong/100/1979 (H1N1)
A/swine/Hong Kong/55/1977 (H1N1)
A/swine/Hubei/02/2008 (H1N1)
0.05