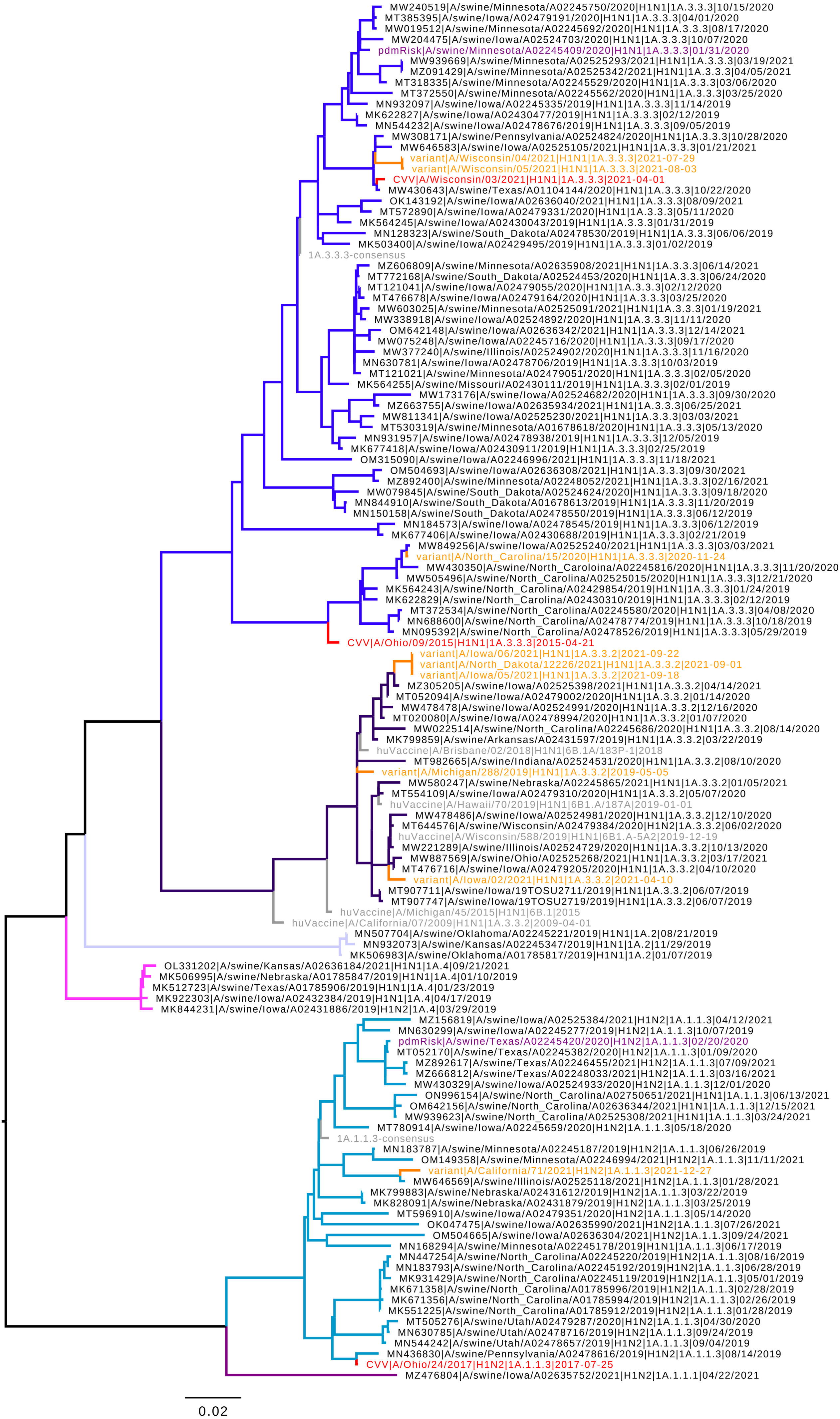
MW240519|A/swine/Minnesota/A02245750/2020|H1N1|1A.3.3.3|10/15/2020
MT385395|A/swine/Iowa/A02479191/2020|H1N1|1A.3.3.3|04/01/2020
MW019512|A/swine/Minnesota/A02245692/2020|H1N1|1A.3.3.3|08/17/2020
MW204475|A/swine/Iowa/A02524703/2020|H1N1|1A.3.3.3|10/07/2020
pdmRisk|A/swine/Minnesota/A02245409/2020|H1N1|1A.3.3.3|01/31/2020
MW939669|A/swine/Minnesota/A02525293/2021|H1N1|1A.3.3.3|03/19/2021
MZ091429|A/swine/Minnesota/A02525342/2021|H1N1|1A.3.3.3|04/05/2021
MT318335|A/swine/Minnesota/A02245529/2020|H1N1|1A.3.3.3|03/06/2020
MT372550|A/swine/Minnesota/A02245562/2020|H1N1|1A.3.3.3|03/25/2020
MN932097|A/swine/Iowa/A02245335/2019|H1N1|1A.3.3.3|11/14/2019
MK622827|A/swine/Iowa/A02430477/2019|H1N1|1A.3.3.3|02/12/2019
MN544232|A/swine/Iowa/A02478676/2019|H1N1|1A.3.3.3|09/05/2019
MW308171|A/swine/Pennsylvania/A02524824/2020|H1N1|1A.3.3.3|10/28/2020
MW646583|A/swine/Iowa/A02525105/2021|H1N1|1A.3.3.3|01/21/2021
variant|A/Wisconsin/04/2021|H1N1|1A.3.3.3|2021-07-29
variant|A/Wisconsin/05/2021|H1N1|1A.3.3.3|2021-08-03
CVV|A/Wisconsin/03/2021|H1N1|1A.3.3.3|2021-04-01
MW430643|A/swine/Texas/A01104144/2020|H1N1|1A.3.3.3|10/22/2020
OK143192|A/swine/Iowa/A02636040/2021|H1N1|1A.3.3.3|08/09/2021
MT572890|A/swine/Iowa/A02479331/2020|H1N1|1A.3.3.3|05/11/2020
MK564245|A/swine/Iowa/A02430043/2019|H1N1|1A.3.3.3|01/31/2019
MN128323|A/swine/South_Dakota/A02478530/2019|H1N1|1A.3.3.3|06/06/2019
MK503400|A/swine/Iowa/A02429495/2019|H1N1|1A.3.3.3|01/02/2019
1A.3.3.3-consensus
MZ606809|A/swine/Minnesota/A02635908/2021|H1N1|1A.3.3.3|06/14/2021
MT772168|A/swine/South_Dakota/A02524453/2020|H1N1|1A.3.3.3|06/24/2020
MT121041|A/swine/Iowa/A02479055/2020|H1N1|1A.3.3.3|02/12/2020
MT476678|A/swine/Iowa/A02479164/2020|H1N1|1A.3.3.3|03/25/2020
MW603025|A/swine/Minnesota/A02525091/2021|H1N1|1A.3.3.3|01/19/2021
MW338918|A/swine/Iowa/A02524892/2020|H1N1|1A.3.3.3|11/11/2020
OM642148|A/swine/Iowa/A02636342/2021|H1N1|1A.3.3.3|12/14/2021
MW075248|A/swine/Iowa/A02245716/2020|H1N1|1A.3.3.3|09/17/2020
MW377240|A/swine/Illinois/A02524902/2020|H1N1|1A.3.3.3|11/16/2020
MN630781|A/swine/Iowa/A02478706/2019|H1N1|1A.3.3.3|10/03/2019
MT121021|A/swine/Minnesota/A02479051/2020|H1N1|1A.3.3.3|02/05/2020
MK564255|A/swine/Missouri/A02430111/2019|H1N1|1A.3.3.3|02/01/2019
MW173176|A/swine/Iowa/A02524682/2020|H1N1|1A.3.3.3|09/30/2020
MZ663755|A/swine/Iowa/A02635934/2021|H1N1|1A.3.3.3|06/25/2021
MW811341|A/swine/Iowa/A02525230/2021|H1N1|1A.3.3.3|03/03/2021
MT530319|A/swine/Minnesota/A01678618/2020|H1N1|1A.3.3.3|05/13/2020
MN931957|A/swine/Iowa/A02478938/2019|H1N1|1A.3.3.3|12/05/2019
MK677418|A/swine/Iowa/A02430911/2019|H1N1|1A.3.3.3|02/25/2019
OM315090|A/swine/Iowa/A02246996/2021|H1N1|1A.3.3.3|11/18/2021
OM504693|A/swine/Iowa/A02636308/2021|H1N1|1A.3.3.3|09/30/2021
MZ892400|A/swine/Minnesota/A02248052/2021|H1N1|1A.3.3.3|02/16/2021
MW079845|A/swine/South_Dakota/A02524624/2020|H1N1|1A.3.3.3|09/18/2020
MN844910|A/swine/South_Dakota/A01678613/2019|H1N1|1A.3.3.3|11/20/2019
MN150158|A/swine/South_Dakota/A02478550/2019|H1N1|1A.3.3.3|06/12/2019
MN184573|A/swine/Iowa/A02478545/2019|H1N1|1A.3.3.3|06/12/2019
MK677406|A/swine/Iowa/A02430688/2019|H1N1|1A.3.3.3|02/21/2019
MW849256|A/swine/Iowa/A02525240/2021|H1N1|1A.3.3.3|03/03/2021
variant|A/North_Carolina/15/2020|H1N1|1A.3.3.3|2020-11-24
MW430350|A/swine/North_Caroloina/A02245816/2020|H1N1|1A.3.3.3|11/20/2020
MW505496|A/swine/North_Carolina/A02525015/2020|H1N1|1A.3.3.3|12/21/2020
MK564243|A/swine/North_Carolina/A02429854/2019|H1N1|1A.3.3.3|01/24/2019
MK622829|A/swine/North_Carolina/A02430310/2019|H1N1|1A.3.3.3|02/12/2019
MT372534|A/swine/North_Carolina/A02245580/2020|H1N1|1A.3.3.3|04/08/2020
MN688600|A/swine/North_Carolina/A02478774/2019|H1N1|1A.3.3.3|10/18/2019
MN095392|A/swine/North_Carolina/A02478526/2019|H1N1|1A.3.3.3|05/29/2019
CVV|A/Ohio/09/2015|H1N1|1A.3.3.3|2015-04-21
variant|A/Iowa/06/2021|H1N1|1A.3.3.2|2021-09-22
variant|A/North_Dakota/12226/2021|H1N1|1A.3.3.2|2021-09-01
variant|A/Iowa/05/2021|H1N1|1A.3.3.2|2021-09-18
MZ305205|A/swine/Iowa/A02525398/2021|H1N1|1A.3.3.2|04/14/2021
MT052094|A/swine/Iowa/A02479002/2020|H1N1|1A.3.3.2|01/14/2020
MW478478|A/swine/Iowa/A02524991/2020|H1N1|1A.3.3.2|12/16/2020
MT020080|A/swine/Iowa/A02478994/2020|H1N1|1A.3.3.2|01/07/2020
MW022514|A/swine/North_Carolina/A02245686/2020|H1N1|1A.3.3.2|08/14/2020
MK799859|A/swine/Arkansas/A02431597/2019|H1N1|1A.3.3.2|03/22/2019
huVaccine|A/Brisbane/02/2018|H1N1|6B.1A/183P-1|2018
MT982665|A/swine/Indiana/A02524531/2020|H1N1|1A.3.3.2|08/10/2020
variant|A/Michigan/288/2019|H1N1|1A.3.3.2|2019-05-05
MW580247|A/swine/Nebraska/A02245865/2021|H1N1|1A.3.3.2|01/05/2021
MT554109|A/swine/Iowa/A02479310/2020|H1N1|1A.3.3.2|05/07/2020
huVaccine|A/Hawaii/70/2019|H1N1|6B1.A/187A|2019-01-01
MW478486|A/swine/Iowa/A02524981/2020|H1N1|1A.3.3.2|12/10/2020
MT644576|A/swine/Wisconsin/A02479384/2020|H1N2|1A.3.3.2|06/02/2020
huVaccine|A/Wisconsin/588/2019|H1N1|6B1.A-5A2|2019-12-19
MW221289|A/swine/Illinois/A02524729/2020|H1N1|1A.3.3.2|10/13/2020
MW887569|A/swine/Ohio/A02525268/2021|H1N1|1A.3.3.2|03/17/2021
MT476716|A/swine/Iowa/A02479205/2020|H1N1|1A.3.3.2|04/10/2020
variant|A/Iowa/02/2021|H1N1|1A.3.3.2|2021-04-10
MT907711|A/swine/Iowa/19TOSU2711/2019|H1N1|1A.3.3.2|06/07/2019
MT907747|A/swine/Iowa/19TOSU2719/2019|H1N1|1A.3.3.2|06/07/2019
huVaccine|A/Michigan/45/2015|H1N1|6B.1|2015
huVaccine|A/California/07/2009|H1N1|1A.3.3.2|2009-04-01
MN507704|A/swine/Oklahoma/A02245221/2019|H1N1|1A.2|08/21/2019
MN932073|A/swine/Kansas/A02245347/2019|H1N1|1A.2|11/29/2019
MK506983|A/swine/Oklahoma/A01785817/2019|H1N1|1A.2|01/07/2019
OL331202|A/swine/Kansas/A02636184/2021|H1N1|1A.4|09/21/2021
MK506995|A/swine/Nebraska/A01785847/2019|H1N1|1A.4|01/10/2019
MK512723|A/swine/Texas/A01785906/2019|H1N1|1A.4|01/23/2019
MK922303|A/swine/Iowa/A02432384/2019|H1N1|1A.4|04/17/2019
MK844231|A/swine/Iowa/A02431886/2019|H1N2|1A.4|03/29/2019
MZ156819|A/swine/Iowa/A02525384/2021|H1N2|1A.1.1.3|04/12/2021
MN630299|A/swine/Iowa/A02245277/2019|H1N2|1A.1.1.3|10/07/2019
pdmRisk|A/swine/Texas/A02245420/2020|H1N2|1A.1.1.3|02/20/2020
MT052170|A/swine/Texas/A02245382/2020|H1N2|1A.1.1.3|01/09/2020
MZ892617|A/swine/Texas/A02246455/2021|H1N2|1A.1.1.3|07/09/2021
MZ666812|A/swine/Texas/A02248033/2021|H1N2|1A.1.1.3|03/16/2021
MW430329|A/swine/Iowa/A02524933/2020|H1N2|1A.1.1.3|12/01/2020
ON996154|A/swine/North_Carolina/A02750651/2021|H1N1|1A.1.1.3|06/13/2021
OM642156|A/swine/North_Carolina/A02636344/2021|H1N1|1A.1.1.3|12/15/2021
MW939623|A/swine/North_Carolina/A02525308/2021|H1N1|1A.1.1.3|03/24/2021
MT780914|A/swine/Iowa/A02245659/2020|H1N2|1A.1.1.3|05/18/2020
1A.1.1.3-consensus
MN183787|A/swine/Minnesota/A02245187/2019|H1N2|1A.1.1.3|06/26/2019
OM149358|A/swine/Minnesota/A02246994/2021|H1N2|1A.1.1.3|11/11/2021
variant|A/California/71/2021|H1N2|1A.1.1.3|2021-12-27
MW646569|A/swine/Illinois/A02525118/2021|H1N2|1A.1.1.3|01/28/2021
MK799883|A/swine/Nebraska/A02431612/2019|H1N2|1A.1.1.3|03/22/2019
MK828091|A/swine/Nebraska/A02431879/2019|H1N2|1A.1.1.3|03/25/2019
MT596910|A/swine/Iowa/A02479351/2020|H1N2|1A.1.1.3|05/14/2020
OK047475|A/swine/Iowa/A02635990/2021|H1N2|1A.1.1.3|07/26/2021
OM504665|A/swine/Iowa/A02636304/2021|H1N2|1A.1.1.3|09/24/2021
MN168294|A/swine/Minnesota/A02245178/2019|H1N1|1A.1.1.3|06/17/2019
MN447254|A/swine/North_Carolina/A02245220/2019|H1N2|1A.1.1.3|08/16/2019
MN183793|A/swine/North_Carolina/A02245192/2019|H1N2|1A.1.1.3|06/28/2019
MK931429|A/swine/North_Carolina/A02245119/2019|H1N2|1A.1.1.3|05/01/2019
MK671358|A/swine/North_Carolina/A01785996/2019|H1N2|1A.1.1.3|02/28/2019
MK671356|A/swine/North_Carolina/A01785994/2019|H1N2|1A.1.1.3|02/26/2019
MK551225|A/swine/North_Carolina/A01785912/2019|H1N2|1A.1.1.3|01/28/2019
MT505276|A/swine/Utah/A02479287/2020|H1N2|1A.1.1.3|04/30/2020
MN630785|A/swine/Utah/A02478716/2019|H1N2|1A.1.1.3|09/24/2019
MN544242|A/swine/Utah/A02478657/2019|H1N2|1A.1.1.3|09/04/2019
MN436830|A/swine/Pennsylvania/A02478616/2019|H1N2|1A.1.1.3|08/14/2019
CVV|A/Ohio/24/2017|H1N2|1A.1.1.3|2017-07-25
MZ476804|A/swine/Iowa/A02635752/2021|H1N2|1A.1.1.1|04/22/2021
0.02