

Table S1 Human subjects and SARS-CoV-2 genome sequences analyzed in this work, including genome quality metrics, viral variant designation, and accession number

VSP	Pango_Lineage	Collection_Date	Rationale	Percent_5x_Coverage	Mean_Coverage	GISAID_ID	NCBI_Accession
VSP0009	B.1	3/30/20	hospitalized	99.7	1276	hCoV-19/USA/VSP0009/2020	MW001232
VSP0010	B.1	4/8/20	hospitalized	95.1	306	hCoV-19/USA/VSP0010/2020	MW001233
VSP0011	B.1	4/8/20	hospitalized	99.4	3682	hCoV-19/USA/VSP0011/2020	MW001234
VSP0012	B.1	4/8/20	hospitalized	99.7	2208	hCoV-19/USA/VSP0012/2020	MW001235
VSP0013	B.1	4/13/20	hospitalized	99.7	2249	hCoV-19/USA/VSP0013/2020	MW001236
VSP0014	B.1.564	4/15/20	hospitalized	99.6	900	hCoV-19/USA/VSP0014/2020	MW001240
VSP0020	B.1.520	4/22/20	hospitalized	99.7	3499	hCoV-19/USA/VSP0020/2020	MW001245
VSP0021	B.1	4/22/20	hospitalized	99.7	6690	hCoV-19/USA/VSP0021/2020	MW001246
VSP0022	B.1	4/22/20	hospitalized	98.9	499	hCoV-19/USA/VSP0022/2020	MW001248
VSP0039	B.1.564	4/29/20	hospitalized	99.7	5425	hCoV-19/USA/VSP0039/2020	MW001254
VSP0041	B.1.369	4/29/20	hospitalized	99.7	7099	hCoV-19/USA/VSP0041/2020	MW001255
VSP0042	B.1.369	4/29/20	hospitalized	64.5	3803	hCoV-19/USA/VSP0042/2020	MW001256
VSP0044	B.1	4/29/20	hospitalized	99.7	3408	hCoV-19/USA/VSP0044/2020	MW001259
VSP0045	B.1	4/29/20	hospitalized	99.1	3866	hCoV-19/USA/VSP0045/2020	MW001261
VSP0046	B.1	5/1/20	hospitalized	99.7	3686	hCoV-19/USA/VSP0046/2020	MW001257
VSP0047	B.1	5/1/20	hospitalized	99.7	4438	hCoV-19/USA/VSP0047/2020	MW001260
VSP0050	B.1	5/1/20	hospitalized	96.6	3443	hCoV-19/USA/VSP0050/2020	MW001262
VSP0052	B.1	5/4/20	hospitalized	99.6	4519	hCoV-19/USA/VSP0052/2020	MW001258
VSP0065	B.1.439	5/4/20	hospitalized	99.7	5980	hCoV-19/USA/VSP0065/2020	MW001264
VSP0080	B.1.520	4/24/20	hospitalized	99.7	5775	hCoV-19/USA/VSP0080/2020	MW001250
VSP0088	B.1.439	5/6/20	hospitalized	99.7	3435	hCoV-19/USA/VSP0088/2020	MW001263
VSP0089	B.1.439	5/6/20	hospitalized	99.6	5869	hCoV-19/USA/VSP0089/2020	MW001265
VSP0100	B.1.520	5/8/20	hospitalized	99.6	3781	hCoV-19/USA/VSP0100/2020	MW001266
VSP0102	B.1	5/8/20	hospitalized	99.7	6335	hCoV-19/USA/VSP0102/2020	MW001269
VSP0107	B.1.520	5/8/20	hospitalized	99.7	8815	hCoV-19/USA/VSP0107/2020	MW001268
VSP0123	B.1.520	5/11/20	hospitalized	99.7	4433	hCoV-19/USA/VSP0123/2020	MW001267
VSP0140	B.1.564	5/15/20	hospitalized	96	77	hCoV-19/USA/VSP0140/2020	MW001270
VSP0141	B.1.564	5/15/20	hospitalized	99.7	1278	hCoV-19/USA/VSP0141/2020	MW001271
VSP0142	B.1	5/15/20	hospitalized	99.6	1369	hCoV-19/USA/VSP0142/2020	MW001272
VSP0143	B.1	5/15/20	hospitalized	99.7	5818	hCoV-19/USA/VSP0143/2020	MW001273
VSP0155	B.1	5/20/20	hospitalized	98.5	624	hCoV-19/USA/VSP0155/2020	MW001274
VSP0163	B.1	5/22/20	hospitalized	99.7	8029	hCoV-19/USA/VSP0163/2020	MW001275
VSP0166	B.1.564	5/22/20	hospitalized	99.5	1908	hCoV-19/USA/VSP0166/2020	MW001280
VSP0176	B.1.564	5/27/20	hospitalized	99.7	1921	hCoV-19/USA/VSP0176/2020	MW001278
VSP0179	B.1	5/27/20	hospitalized	99.7	4022	hCoV-19/USA/VSP0179/2020	MW001282
VSP0180	B.1	4/17/20	hospitalized	99.7	1671	hCoV-19/USA/VSP0180/2020	MW001241
VSP0181	B.1	4/17/20	hospitalized	99.7	4741	hCoV-19/USA/VSP0181/2020	MW001242
VSP0182	B.1	4/20/20	hospitalized	99.7	2751	hCoV-19/USA/VSP0182/2020	MW001243
VSP0183	B.1	4/17/20	hospitalized	99.8	2270	hCoV-19/USA/VSP0183/2020	MW001244
VSP0184	B.1	4/8/20	hospitalized	99.7	2000	hCoV-19/USA/VSP0184/2020	MW001238
VSP0185	B.1	4/13/20	hospitalized	99.7	2015	hCoV-19/USA/VSP0185/2020	MW001239
VSP0186	B.1	4/13/20	hospitalized	99.7	1296	hCoV-19/USA/VSP0186/2020	MW001237
VSP0188	B.1	5/29/20	hospitalized	99.7	11443	hCoV-19/USA/VSP0188/2020	MW001247
VSP0189	B.1	5/29/20	hospitalized	99.7	1229	hCoV-19/USA/VSP0189/2020	MW001249
VSP0195	B.1	5/29/20	hospitalized	98.8	1847	hCoV-19/USA/VSP0195/2020	MW001281

VSP0196	B.1	5/29/20	hospitalized	98.3	66	hCoV-19/USA/VSP0196/2020	MW001283
VSP0202	B.1.564	6/12/20	hospitalized	99.7	3801	hCoV-19/USA/VSP0202/2020	MW001279
VSP0230	B.1	6/29/20	hospitalized	99.7	7948	hCoV-19/USA/VSP0230/2020	MW001284
VSP0233	B.1	7/1/20	hospitalized	99.7	7982	hCoV-19/USA/VSP0233/2020	MW001285
VSP0256	B.1.240	7/17/20	hospitalized	99	14869	hCoV-19/USA/VSP0256/2020	MW001286
VSP0262	B.1	5/20/20	hospitalized	99.7	5006	hCoV-19/USA/VSP0262/2020	MW001276
VSP0263	B.1	5/22/20	hospitalized	99.5	1365	hCoV-19/USA/VSP0263/2020	MW001277
VSP0266	B.1	7/27/20	hospitalized	99.7	16111	hCoV-19/USA/VSP0266/2020	OK245577
VSP0271	B.1	7/29/20	hospitalized	99.7	10930	hCoV-19/USA/VSP0271/2020	OK245578
VSP0318	B.1.439	5/6/20	hospitalized	99	661	hCoV-19/USA/PA-VSP0318/2020	OK245579
VSP0319	B.1	5/20/20	hospitalized	98.5	452	hCoV-19/USA/PA-VSP0319/2020	OK245580
VSP0320	B.1	5/22/20	hospitalized	99.7	2633	hCoV-19/USA/PA-VSP0320/2020	OK245581
VSP0327	B.1.340	8/26/20	hospitalized	99.7	7863	hCoV-19/USA/VSP0327/2020	OK245582
VSP0356	B.1.543	9/16/20	hospitalized	99.7	13848	hCoV-19/USA/VSP0356/2020	OK245583
VSP0359	B.1.240	9/16/20	hospitalized	97.1	10757	hCoV-19/USA/VSP0359/2020	OK245584
VSP0393	B.1	10/9/20	hospitalized	99.7	2796	hCoV-19/USA/VSP0393/2020	OK245585
VSP0399	B.1	10/12/20	hospitalized	99.1	1480	hCoV-19/USA/VSP0399/2020	OK245586
VSP0415	B.1.243	10/19/20	hospitalized	99.6	2599	hCoV-19/USA/VSP0415/2020	OK245587
VSP0421	B.1.311	10/21/20	hospitalized	99.5	4966	hCoV-19/USA/VSP0421/2020	OK245588
VSP0424	B.1.2	10/21/20	hospitalized	99.7	5440	hCoV-19/USA/VSP0424/2020	OK245589
VSP0425	B.1.243	10/23/20	hospitalized	99.5	1635	hCoV-19/USA/VSP0425/2020	OK245590
VSP0429	B.1.1.434	10/26/20	hospitalized	99.7	1404	hCoV-19/USA/VSP0429/2020	OK245591
VSP0448	B.1.1.317	11/4/20	hospitalized	99.6	6319	hCoV-19/USA/VSP0448/2020	OK245592
VSP0460	B.1.243	11/11/20	hospitalized	99.7	6801	hCoV-19/USA/VSP0460/2020	OK245593
VSP0470	B.1.591	11/13/20	hospitalized	99.7	5740	hCoV-19/USA/VSP0470/2020	OK245594
VSP0479	B.1.1.434	11/16/20	hospitalized	99.6	6537	hCoV-19/USA/VSP0479/2020	OK245595
VSP0483	B.1.243	11/18/20	hospitalized	99.7	5644	hCoV-19/USA/VSP0483/2020	OK245596
VSP0491	B.1.543	11/20/20	hospitalized	99.4	5847	hCoV-19/USA/VSP0491/2020	OK245597
VSP0503	B.1.243	12/2/20	hospitalized	99.7	6003	hCoV-19/USA/VSP0503/2020	OK245598
VSP0505	B.1.2	12/3/20	hospitalized	99.6	5947	hCoV-19/USA/VSP0505/2020	OK245599
VSP0510	B.1.234	12/4/20	hospitalized	99.6	8236	hCoV-19/USA/VSP0510/2020	OK245600
VSP0511	B.1.369	12/7/20	hospitalized	96	80	hCoV-19/USA/VSP0511/2020	OK245601
VSP0514	B.1.243	12/7/20	hospitalized	99.7	5998	hCoV-19/USA/VSP0514/2020	OK245602
VSP0517	B.1.243	12/9/20	hospitalized	99.7	6525	hCoV-19/USA/VSP0517/2020	OK245603
VSP0550	B.1.243	12/14/20	hospitalized	99.6	13979	hCoV-19/USA/VSP0550/2020	OK245613
VSP0554	B.1.311	12/14/20	hospitalized	99.7	5812	hCoV-19/USA/VSP0554/2020	OK245614
VSP0560	B.1.243	12/18/20	hospitalized	99.7	11400	hCoV-19/USA/VSP0560/2020	OK245615
VSP0571	B.1.2	1/3/21	s drop	99.8	14881	hCoV-19/USA/VSP0571/2021	OK245617
VSP0576	B.1.243	1/8/21	hospitalized	99.7	8390	hCoV-19/USA/VSP0576/2021	OK245618
VSP0586	B.1.240	1/11/21	hospitalized	99.7	1671	hCoV-19/USA/VSP0586/2021	OK245619
VSP0588	B.1.243	1/11/21	hospitalized	99.7	22053	hCoV-19/USA/VSP0588/2021	OK245620
VSP0596	B.1.2	1/15/21	hospitalized	99.7	7544	hCoV-19/USA/VSP0596/2021	OK245621
VSP0600	B.1.243	1/15/21	hospitalized	99.7	7386	hCoV-19/USA/VSP0600/2021	OK245622
VSP0601	B.1.2	1/15/21	hospitalized	99.7	8719	hCoV-19/USA/VSP0601/2021	OK245623
VSP0603	B.1.234	12/9/20	asymptomatic	99.7	4502	hCoV-19/USA/VSP0603/2021	OK245624
VSP0604	B.1.311	12/9/20	asymptomatic	99.7	5314	hCoV-19/USA/VSP0604/2021	OK245625
VSP0605	B.1.1.434	12/9/20	asymptomatic	99.7	1480	hCoV-19/USA/VSP0605/2021	OK245626

VSP0606	B.1.1.434	12/7/20	asymptomatic	99.7	3798	hCoV-19/USA/VSP0606/2021	OK245627
VSP0607	B.1.2	12/15/20	asymptomatic	99.7	4786	hCoV-19/USA/VSP0607/2021	OK245628
VSP0608	B.1.243	12/15/20	asymptomatic	99.7	5034	hCoV-19/USA/VSP0608/2021	OK245629
VSP0609	B.1.2	12/15/20	asymptomatic	99.7	4664	hCoV-19/USA/VSP0609/2021	OK245630
VSP0611	B.1.2	12/15/20	asymptomatic	99.7	4822	hCoV-19/USA/VSP0611/2021	OK245631
VSP0612	B.1.311	12/22/20	asymptomatic	98.9	678	hCoV-19/USA/VSP0612/2021	OK245632
VSP0613	B.1.243	12/29/20	asymptomatic	99.7	3295	hCoV-19/USA/VSP0613/2021	OK245633
VSP0614	B.1.2	12/29/20	asymptomatic	99.7	4656	hCoV-19/USA/VSP0614/2021	OK245634
VSP0615	B.1.243	1/4/21	asymptomatic	99.7	4204	hCoV-19/USA/VSP0615/2021	OK245635
VSP0616	B.1.243	1/4/21	asymptomatic	96.9	135	hCoV-19/USA/VSP0616/2021	OK245636
VSP0617	B.1.243	1/4/21	asymptomatic	99.7	5117	hCoV-19/USA/VSP0617/2021	OK245637
VSP0619	B.1.2	12/23/20	hospitalized	98.1	2519	hCoV-19/USA/PA-VSP0619/2020	OK245638
VSP0622	B.1.375	1/20/21	s drop	99.7	13155	hCoV-19/USA/VSP0622/2021	OK245639
VSP0625	B.1.1.7	1/22/21	s drop	99.1	11175	hCoV-19/USA/VSP0625/2021	OK245641
VSP0654	B.1.1.7	1/27/21	hospitalized	99.7	12051	hCoV-19/USA/VSP0654/2020	OK245656
VSP0657	B.1.311	1/27/21	hospitalized	99	376	hCoV-19/USA/VSP0657/2020	OK245657
VSP0672	B.1.243	3/1/21	surveillance	99.7	2436	hCoV-19/USA/PA-VSP0672/2021	OK245671
VSP0673	B.1.243	3/1/21	surveillance	99	162	hCoV-19/USA/PA-VSP0673/2021	OK245672
VSP0674	B.1.1.7	3/1/21	surveillance	99.1	2377	hCoV-19/USA/PA-VSP0674/2021	OK245673
VSP0676	R.1	3/1/21	surveillance	98.9	7268	hCoV-19/USA/PA-VSP0676/2021	OK245674
VSP0677	B.1.628	3/1/21	surveillance	98.8	2671	hCoV-19/USA/PA-VSP0677/2021	OK245675
VSP0678	B.1.2	3/1/21	surveillance	99.7	5666	hCoV-19/USA/PA-VSP0678/2021	OK245676
VSP0679	B.1.2	3/1/21	surveillance	99.7	7679	hCoV-19/USA/PA-VSP0679/2021	OK245677
VSP0680	B.1.637	3/1/21	surveillance	99.7	6952	hCoV-19/USA/PA-VSP0680/2021	OK245678
VSP0681	B.1.526	3/1/21	surveillance	99.7	8527	hCoV-19/USA/PA-VSP0681/2021	OK245679
VSP0682	B.1.2	3/1/21	surveillance	99.7	8384	hCoV-19/USA/PA-VSP0682/2021	OK245680
VSP0683	B.1.243	3/1/21	surveillance	96.5	201	hCoV-19/USA/PA-VSP0683/2021	OK245681
VSP0684	B.1.243	3/1/21	surveillance	99.7	9417	hCoV-19/USA/PA-VSP0684/2021	OK245682
VSP0685	B.1.575	3/1/21	surveillance	99.7	7995	hCoV-19/USA/PA-VSP0685/2021	OK245683
VSP0695	B.1.575	3/1/21	surveillance	99.7	5846	hCoV-19/USA/PA-VSP0695/2021	OK245684
VSP0696	B.1.637	3/1/21	surveillance	99.7	5060	hCoV-19/USA/PA-VSP0696/2021	OK245685
VSP0697	B.1.2	3/1/21	surveillance	99.7	3674	hCoV-19/USA/PA-VSP0697/2021	OK245686
VSP0698	B.1.243	3/1/21	surveillance	99.7	5793	hCoV-19/USA/PA-VSP0698/2021	OK245687
VSP0707	B.1.243	3/22/21	surveillance	99.7	5501	hCoV-19/USA/PA-VSP0707/2021	OK245692
VSP0709	B.1.2	3/22/21	surveillance	99.7	4990	hCoV-19/USA/PA-VSP0709/2021	OK245693
VSP0711	B.1.1.7	3/22/21	surveillance	99.7	5425	hCoV-19/USA/PA-VSP0711/2021	OK245694
VSP0790	B.1.1.7	1/29/21	hospitalized	99.7	953	hCoV-19/USA/PA-VSP0790/2021	OK245713
VSP0794	B.1.2	2/5/21	hospitalized	99.6	337	hCoV-19/USA/PA-VSP0794/2021	OK245714
VSP0796	B.1.2	2/5/21	hospitalized	99.7	1125	hCoV-19/USA/PA-VSP0796/2021	OK245715
VSP0811	B.1.1.7	2/11/21	s drop	99.7	13760	hCoV-19/USA/VSP0811/2021	OK245721
VSP0812	B.1.1.7	2/11/21	s drop	99.7	10880	hCoV-19/USA/VSP0812/2021	OK245722
VSP0813	B.1.1.7	2/11/21	s drop	99.7	10718	hCoV-19/USA/VSP0813/2021	OK245723
VSP0814	B.1.1.7	2/12/21	s drop	99	10785	hCoV-19/USA/VSP0814/2021	OK245724
VSP0815	B.1.1.7	2/12/21	s drop	99.7	9042	hCoV-19/USA/VSP0815/2021	OK245725
VSP0832	B.1.243	2/12/21	hospitalized	98.4	2230	hCoV-19/USA/PA-VSP0832/2021	
VSP0840	B.1.1.434	2/15/21	hospitalized	99.6	580	hCoV-19/USA/PA-VSP0840/2021	OK245735
VSP0859	B.1.526	2/22/21	hospitalized	99.5	488	hCoV-19/USA/PA-VSP0859/2021	OK245739

VSP0866	B.1.480	2/22/21	hospitalized	97.3	641	hCoV-19/USA/VSP0866/2021	OK245745
VSP0868	B.1.1.7	2/22/21	s drop	99.7	13767	hCoV-19/USA/VSP0868/2021	OK245747
VSP0869	B.1.1.7	2/22/21	s drop	99.7	14937	hCoV-19/USA/VSP0869/2021	OK245748
VSP0870	B.1.1.7	2/22/21	s drop	99.7	15409	hCoV-19/USA/VSP0870/2021	OK245749
VSP0871	B.1.1.7	2/22/21	s drop	99.7	13761	hCoV-19/USA/VSP0871/2021	OK245750
VSP0872	B.1.1.7	2/22/21	s drop	99.7	16372	hCoV-19/USA/VSP0872/2021	OK245751
VSP0873	B.1.1.7	2/22/21	s drop	99.1	13141	hCoV-19/USA/VSP0873/2021	OK245752
VSP0875	B.1.637	2/24/21	hospitalized	99.7	765	hCoV-19/USA/PA-VSP0875/2021	OK245753
VSP0879	B.1.1.7	3/1/21	s drop	99.7	6725	hCoV-19/USA/PA-VSP0879/2021	OK245754
VSP0880	B.1.1.7	3/1/21	s drop	99.7	6484	hCoV-19/USA/PA-VSP0880/2021	OK245755
VSP0881	B.1.1.519	3/1/21	accine breakthrough	99.7	7493	hCoV-19/USA/PA-VSP0881/2021	OK245756
VSP0882	B.1.1.7	3/1/21	s drop	99.7	7511	hCoV-19/USA/NJ-VSP0882/2021	OK245757
VSP0884	B.1.1.7	3/1/21	s drop	99.7	6615	hCoV-19/USA/PA-VSP0884/2021	OK245758
VSP0885	B.1.1.7	3/1/21	s drop	99.7	7926	hCoV-19/USA/PA-VSP0885/2021	OK245759
VSP0886	B.1.1.7	3/1/21	s drop	99.7	7279	hCoV-19/USA/PA-VSP0886/2021	OK245760
VSP0887	B.1.1.7	3/1/21	s drop	99.7	4291	hCoV-19/USA/PA-VSP0887/2021	OK245761
VSP0888	B.1.1.7	3/1/21	s drop	99.7	7254	hCoV-19/USA/PA-VSP0888/2021	OK245762
VSP0889	B.1.526	3/1/21	accine breakthrough	99.7	7570	hCoV-19/USA/NJ-VSP0889/2021	OK245763
VSP0890	B.1.1.7	3/1/21	accine breakthrough	97.7	44	hCoV-19/USA/PA-VSP0890/2021	OK245764
VSP0891	B.1.1.7	3/1/21	s drop	99.7	6487	hCoV-19/USA/PA-VSP0891/2021	OK245765
VSP0892	B.1.1.7	3/1/21	s drop	99.7	7782	hCoV-19/USA/PA-VSP0892/2021	OK245766
VSP0893	B.1.1.7	3/1/21	s drop	99.7	6528	hCoV-19/USA/NJ-VSP0893/2021	OK245767
VSP0894	B.1.1.7	3/1/21	s drop	99.7	6624	hCoV-19/USA/NJ-VSP0894/2021	OK245768
VSP0895	B.1.1.7	3/1/21	s drop	99.7	6834	hCoV-19/USA/DE-VSP0895/2021	OK245769
VSP0896	B.1.1.7	3/1/21	s drop	99.7	6555	hCoV-19/USA/PA-VSP0896/2021	OK245770
VSP0897	B.1.1.7	3/1/21	s drop	99.7	7130	hCoV-19/USA/PA-VSP0897/2021	OK245771
VSP0912	B.1.526	3/5/21	hospitalized	99.7	1529	hCoV-19/USA/PA-VSP0912/2021	OK245776
VSP0915	B.1.311	3/5/21	hospitalized	99.7	1239	hCoV-19/USA/PA-VSP0915/2021	OK245777
VSP0918	B.1.243	3/8/21	hospitalized	99.7	1581	hCoV-19/USA/PA-VSP0918/2021	OK245778
VSP0923	B.1.311	2/26/21	hospitalized	99.7	1402	hCoV-19/USA/PA-VSP0923/2021	OK245779
VSP0926	B.1.1.519	2/26/21	hospitalized	99.7	1440	hCoV-19/USA/PA-VSP0926/2021	OK245780
VSP0934	B.1.234	3/8/21	surveillance	99.7	7838	hCoV-19/USA/VSP0934/2021	MW881990
VSP0935	B.1.1.7	3/8/21	surveillance	99.7	12075	hCoV-19/USA/VSP0935/2021	MW881991
VSP0936	B.1.2	3/8/21	surveillance	99.7	9415	hCoV-19/USA/VSP0936/2021	MW881992
VSP0937	B.1.110.3	3/8/21	surveillance	99.7	8914	hCoV-19/USA/VSP0937/2021	MW881993
VSP0938	B.1.2	3/8/21	surveillance	99.1	8775	hCoV-19/USA/VSP0938/2021	MW881994
VSP0939	B.1.596	3/8/21	surveillance	99.7	9304	hCoV-19/USA/VSP0939/2021	MW881995
VSP0941	B.1.637	3/8/21	surveillance	99.7	8605	hCoV-19/USA/VSP0941/2021	MW881996
VSP0942	B.1.1.7	3/8/21	surveillance	99.7	5652	hCoV-19/USA/VSP0942/2021	MW881997
VSP0943	B.1.243	3/8/21	surveillance	99.6	2929	hCoV-19/USA/VSP0943/2021	MW881998
VSP0944	B.1.243	3/8/21	surveillance	95.7	6330	hCoV-19/USA/VSP0944/2021	
VSP0950	B.1.311	3/8/21	surveillance	99.7	7960	hCoV-19/USA/VSP0950/2021	MW881999
VSP0951	R.1	3/8/21	surveillance	99.7	7159	hCoV-19/USA/VSP0951/2021	MW882000
VSP0952	B.1.596	3/8/21	surveillance	99.7	9300	hCoV-19/USA/VSP0952/2021	MW882001
VSP0953	B.1.526	3/8/21	surveillance	99.7	8070	hCoV-19/USA/VSP0953/2021	MW882002
VSP0954	B.1.637	3/8/21	surveillance	99.7	8555	hCoV-19/USA/VSP0954/2021	MW882003
VSP0956	B.1.409	3/8/21	surveillance	96.4	9541	hCoV-19/USA/VSP0956/2021	

VSP0957	B.1.575	3/8/21	surveillance	99.6	8620	hCoV-19/USA/VSP0957/2021	MW882004
VSP0959	B.1.1.519	3/8/21	surveillance	99.7	8973	hCoV-19/USA/VSP0959/2021	MW882005
VSP0960	B.1.433	3/8/21	surveillance	99.6	7002	hCoV-19/USA/VSP0960/2021	MW882006
VSP0961	B.1.234	3/8/21	surveillance	98.9	8209	hCoV-19/USA/VSP0961/2021	MW882007
VSP0964	B.1.575	3/8/21	surveillance	99.7	7995	hCoV-19/USA/VSP0964/2021	MW882008
VSP0966	R.1	3/8/21	surveillance	99.6	11400	hCoV-19/USA/VSP0966/2021	MW882009
VSP0967	B.1.526	3/8/21	surveillance	99.7	9455	hCoV-19/USA/VSP0967/2021	MW882010
VSP0970	B.1.243	3/8/21	surveillance	99.7	28014	hCoV-19/USA/VSP0970/2021	MW882011
VSP0971	B.1.526	3/8/21	surveillance	99.6	11272	hCoV-19/USA/VSP0971/2021	MW882012
VSP0972	B.1.409	3/8/21	surveillance	99.7	10106	hCoV-19/USA/VSP0972/2021	MW882013
VSP0973	B.1.596	3/8/21	surveillance	99.7	20243	hCoV-19/USA/VSP0973/2021	OK245781
VSP0974	B.1.526	3/8/21	surveillance	99.7	8910	hCoV-19/USA/VSP0974/2021	MW882014
VSP0975	B.1.526	3/8/21	surveillance	98.9	7494	hCoV-19/USA/VSP0975/2021	MW882015
VSP0977	B.1.234	3/8/21	surveillance	99.7	13621	hCoV-19/USA/VSP0977/2021	MW882016
VSP0978	B.1.526	3/8/21	surveillance	99.5	11418	hCoV-19/USA/VSP0978/2021	MW882017
VSP0979	B.1.243	3/8/21	surveillance	99.7	10735	hCoV-19/USA/VSP0979/2021	MW882018
VSP0980	B.1.2	3/8/21	surveillance	99.7	7451	hCoV-19/USA/VSP0980/2021	MW882019
VSP0981	B.1.2	3/8/21	surveillance	99.7	6689	hCoV-19/USA/VSP0981/2021	MW882020
VSP0982	B.1.637	3/8/21	surveillance	99.7	7333	hCoV-19/USA/VSP0982/2021	MW882021
VSP0983	B.1.243	3/8/21	surveillance	99.7	5643	hCoV-19/USA/VSP0983/2021	MW882022
VSP0984	B.1.243	3/8/21	surveillance	99.7	5930	hCoV-19/USA/VSP0984/2021	MW882023
VSP0985	B.1.1.434	3/8/21	surveillance	99.7	7871	hCoV-19/USA/VSP0985/2021	MW882024
VSP0986	B.1.526	3/8/21	surveillance	99.7	7071	hCoV-19/USA/VSP0986/2021	MW882025
VSP0987	B.1.2	3/8/21	surveillance	99.7	4616	hCoV-19/USA/VSP0987/2021	MW882026
VSP0988	B.1.2	3/8/21	surveillance	99.7	7081	hCoV-19/USA/VSP0988/2021	MW882027
VSP0989	B.1.1.7	3/8/21	surveillance	99.7	5906	hCoV-19/USA/VSP0989/2021	MW882028
VSP0990	B.1.1.7	3/8/21	surveillance	99.7	6581	hCoV-19/USA/VSP0990/2021	MW882029
VSP0992	B.1.526	3/8/21	surveillance	99.7	6525	hCoV-19/USA/VSP0992/2021	MW882030
VSP0993	B.1.526	3/8/21	surveillance	99.7	5136	hCoV-19/USA/VSP0993/2021	MW882031
VSP0994	B.1.526	3/8/21	surveillance	99.7	7398	hCoV-19/USA/VSP0994/2021	MW882032
VSP0995	B.1.637	3/8/21	surveillance	99.7	6177	hCoV-19/USA/VSP0995/2021	MW882033
VSP0996	B.1.306	3/8/21	surveillance	99.5	6285	hCoV-19/USA/VSP0996/2021	MW882034
VSP0997	B.1.637	3/8/21	surveillance	99.7	7365	hCoV-19/USA/VSP0997/2021	MW882035
VSP0998	B.1.234	3/8/21	surveillance	99.7	7635	hCoV-19/USA/VSP0998/2021	OK245782
VSP0999	R.1	3/8/21	surveillance	99.7	7978	hCoV-19/USA/VSP0999/2021	MW882036
VSP1000	B.1.575	3/8/21	surveillance	99.7	7050	hCoV-19/USA/VSP1000/2021	MW882037
VSP1001	B.1.2	3/8/21	surveillance	99.7	6802	hCoV-19/USA/VSP1001/2021	MW882038
VSP1002	B.1.575	3/8/21	surveillance	99.1	6671	hCoV-19/USA/VSP1002/2021	MW882039
VSP1003	B.1.526	3/8/21	surveillance	99.7	8415	hCoV-19/USA/VSP1003/2021	MW882040
VSP1004	B.1.243	3/8/21	surveillance	99.7	7955	hCoV-19/USA/VSP1004/2021	MW882041
VSP1005	B.1.526	3/8/21	surveillance	99.7	6994	hCoV-19/USA/VSP1005/2021	MW882042
VSP1006	B.1.595	3/8/21	surveillance	99.7	7433	hCoV-19/USA/VSP1006/2021	MW882043
VSP1007	B.1.1.434	3/8/21	surveillance	99.7	5998	hCoV-19/USA/VSP1007/2021	MW882044
VSP1008	R.1	3/8/21	surveillance	99.7	6809	hCoV-19/USA/VSP1008/2021	MW882045
VSP1009	B.1.575	3/8/21	surveillance	99.7	7231	hCoV-19/USA/VSP1009/2021	MW882046
VSP1010	B.1.526	3/8/21	surveillance	99.7	7234	hCoV-19/USA/VSP1010/2021	MW882047
VSP1011	B.1.409	3/8/21	surveillance	99.7	5339	hCoV-19/USA/VSP1011/2021	MW882048

VSP1012	B.1.1.7	3/8/21	surveillance	99.7	7106	hCoV-19/USA/VSP1012/2021	MW882049
VSP1013	B.1.2	3/8/21	surveillance	99.7	6488	hCoV-19/USA/VSP1013/2021	MW882050
VSP1014	B.1.110.3	3/8/21	surveillance	99.7	6592	hCoV-19/USA/VSP1014/2021	MW882051
VSP1015	B.1.170	3/8/21	surveillance	99.7	8843	hCoV-19/USA/VSP1015/2021	MW882052
VSP1016	B.1.2	3/8/21	surveillance	99.7	8536	hCoV-19/USA/VSP1016/2021	MW882053
VSP1017	B.1.2	3/8/21	surveillance	99.7	5550	hCoV-19/USA/VSP1017/2021	MW882054
VSP1018	B.1.433	3/8/21	surveillance	99.7	8305	hCoV-19/USA/VSP1018/2021	MW882055
VSP1019	B.1.526	3/8/21	surveillance	99.7	7763	hCoV-19/USA/VSP1019/2021	MW882056
VSP1020	B.1.429	3/8/21	surveillance	99.7	8050	hCoV-19/USA/VSP1020/2021	MW882057
VSP1021	B.1.2	3/8/21	surveillance	99.7	8227	hCoV-19/USA/VSP1021/2021	MW882058
VSP1022	B.1.1.7	3/8/21	surveillance	99.7	7311	hCoV-19/USA/VSP1022/2021	MW882059
VSP1023	B.1.427	3/8/21	surveillance	99.7	7749	hCoV-19/USA/VSP1023/2021	MW882060
VSP1024	B.1.2	3/8/21	surveillance	99.7	9755	hCoV-19/USA/VSP1024/2021	MW882061
VSP1025	B.1.1.7	3/8/21	surveillance	99.7	7888	hCoV-19/USA/VSP1025/2021	MW882062
VSP1027	B.1.1.519	3/8/21	surveillance	98.8	3176	hCoV-19/USA/VSP1027/2021	MW935669
VSP1029	B.1.1.7	3/8/21	surveillance	99.7	3248	hCoV-19/USA/VSP1029/2021	MW935670
VSP1031	B.1.1.7	3/8/21	surveillance	99.7	7549	hCoV-19/USA/VSP1031/2021	MW935671
VSP1033	B.1.1.7	3/8/21	s drop	95.1	2988	hCoV-19/USA/PA-VSP1033/2021	
VSP1034	B.1.1.7	3/8/21	s drop	99.7	5231	hCoV-19/USA/PA-VSP1034/2021	OK245783
VSP1035	B.1.1.7	3/8/21	s drop	99.7	6428	hCoV-19/USA/PA-VSP1035/2021	OK245784
VSP1036	B.1.1.7	3/8/21	s drop	99.7	6819	hCoV-19/USA/PA-VSP1036/2021	OK245785
VSP1044	B.1.234	3/15/21	hospitalized	99.7	869	hCoV-19/USA/PA-VSP1044/2021	OK245787
VSP1045	B.1.311	3/17/21	hospitalized	99.6	2672	hCoV-19/USA/PA-VSP1045/2021	OK245788
VSP1048	B.1.311	3/17/21	asymptomatic	99.7	1442	hCoV-19/USA/PA-VSP1048/2021	OK245789
VSP1050	B.1.526	3/17/21	asymptomatic	99.7	3926	hCoV-19/USA/PA-VSP1050/2021	OK245790
VSP1053	B.1.2	3/17/21	asymptomatic	99.7	1771	hCoV-19/USA/PA-VSP1053/2021	OK245791
VSP1058	B.1.1.7	3/17/21	asymptomatic	99.7	5137	hCoV-19/USA/PA-VSP1058/2021	OK245792
VSP1059	B.1.396	3/17/21	asymptomatic	99.7	4519	hCoV-19/USA/PA-VSP1059/2021	OK245793
VSP1060	B.1.2	3/17/21	asymptomatic	99.7	4489	hCoV-19/USA/PA-VSP1060/2021	OK245794
VSP1068	B.1.1.7	3/15/21	s drop	99.7	5997	hCoV-19/USA/PA-VSP1068/2021	OK245795
VSP1069	B.1.1.7	3/15/21	s drop	99.7	5138	hCoV-19/USA/PA-VSP1069/2021	OK245796
VSP1070	B.1.1.7	3/15/21	s drop	99.7	995	hCoV-19/USA/PA-VSP1070/2021	OK245797
VSP1072	B.1.1.7	3/15/21	accine breakthroug	99.7	5149	hCoV-19/USA/PA-VSP1072/2021	OK245798
VSP1073	B.1.1.7	3/15/21	s drop	99.1	5430	hCoV-19/USA/PA-VSP1073/2021	OK245799
VSP1074	B.1.1.7	3/15/21	s drop	99.7	5258	hCoV-19/USA/PA-VSP1074/2021	OK245800
VSP1075	B.1.1.7	3/15/21	s drop	97	6252	hCoV-19/USA/NJ-VSP1075/2021	
VSP1076	B.1.1.7	3/15/21	s drop	99.7	4127	hCoV-19/USA/PA-VSP1076/2021	OK245801
VSP1078	B.1.1.7	3/15/21	s drop	99.7	4493	hCoV-19/USA/PA-VSP1078/2021	OK245802
VSP1080	B.1.1.7	3/15/21	s drop	99.7	7527	hCoV-19/USA/PA-VSP1080/2021	OK245803
VSP1081	B.1.1.7	3/15/21	s drop	99.7	3837	hCoV-19/USA/PA-VSP1081/2021	OK245804
VSP1083	B.1.1.7	3/15/21	accine breakthroug	99.7	11797	hCoV-19/USA/NJ-VSP1083/2021	OK245805
VSP1084	B.1.1.7	3/15/21	s drop	99.4	3852	hCoV-19/USA/PA-VSP1084/2021	OK245806
VSP1085	B.1.1.7	3/15/21	s drop	99.4	3877	hCoV-19/USA/PA-VSP1085/2021	OK245807
VSP1086	B.1.596	3/15/21	surveillance	99.7	4943	hCoV-19/USA/VSP1086/2021	MW935672
VSP1088	B.1.1.519	3/15/21	surveillance	99.7	4171	hCoV-19/USA/VSP1088/2021	MW935673
VSP1090	B.1.575	3/15/21	surveillance	96.1	4413	hCoV-19/USA/VSP1090/2021	
VSP1092	B.1.526	3/15/21	surveillance	99.7	3664	hCoV-19/USA/VSP1092/2021	MW935674

VSP1093	B.1.351	3/15/21	surveillance	98.7	4825	hCoV-19/USA/VSP1093/2021	OK245808
VSP1094	B.1.1.7	3/15/21	surveillance	99.7	3530	hCoV-19/USA/VSP1094/2021	MW935675
VSP1095	B.1.1.7	3/15/21	surveillance	99.7	5023	hCoV-19/USA/VSP1095/2021	MW935676
VSP1096	B.1.1.7	3/15/21	surveillance	98.3	3767	hCoV-19/USA/VSP1096/2021	MW935677
VSP1097	B.1.243	3/15/21	surveillance	99.7	4336	hCoV-19/USA/VSP1097/2021	MW935678
VSP1099	B.1.588	3/15/21	surveillance	99	5803	hCoV-19/USA/VSP1099/2021	MW935679
VSP1100	B.1.234	3/15/21	surveillance	99.7	4554	hCoV-19/USA/VSP1100/2021	MW935680
VSP1101	B.1.526	3/15/21	surveillance	99.7	6143	hCoV-19/USA/VSP1101/2021	MW935681
VSP1102	B.1.526	3/15/21	surveillance	99.7	4188	hCoV-19/USA/VSP1102/2021	MW935682
VSP1103	B.1.2	3/15/21	surveillance	99.7	3754	hCoV-19/USA/VSP1103/2021	MW935683
VSP1104	B.1.526	3/15/21	surveillance	99.7	4193	hCoV-19/USA/VSP1104/2021	MW935684
VSP1105	B.1.526	3/15/21	surveillance	99.7	464	hCoV-19/USA/VSP1105/2021	MW935685
VSP1106	B.1.637	3/15/21	surveillance	95.8	100	hCoV-19/USA/VSP1106/2021	MW935686
VSP1107	B.1.1.7	3/15/21	surveillance	95.6	27	hCoV-19/USA/VSP1107/2021	MW935687
VSP1108	B.1.526	3/15/21	surveillance	99.7	3405	hCoV-19/USA/VSP1108/2021	MW935688
VSP1110	B.1.1.7	3/15/21	surveillance	99.7	642	hCoV-19/USA/VSP1110/2021	MW935689
VSP1111	B.1.1.7	3/15/21	surveillance	99.7	2585	hCoV-19/USA/VSP1111/2021	MW935690
VSP1112	R.1	3/15/21	surveillance	98	229	hCoV-19/USA/VSP1112/2021	MW935691
VSP1113	B.1.110.3	3/15/21	surveillance	98.2	271	hCoV-19/USA/VSP1113/2021	MW935692
VSP1114	R.1	3/15/21	surveillance	99.7	4750	hCoV-19/USA/VSP1114/2021	MW935693
VSP1115	B.1.2	3/15/21	surveillance	99.7	5675	hCoV-19/USA/VSP1115/2021	MW935694
VSP1116	B.1.2	3/15/21	surveillance	99.7	3010	hCoV-19/USA/VSP1116/2021	MW935695
VSP1117	B.1.2	3/15/21	surveillance	99.7	4771	hCoV-19/USA/VSP1117/2021	MW935696
VSP1118	B.1.575	3/15/21	surveillance	98.2	1761	hCoV-19/USA/VSP1118/2021	MW935697
VSP1119	B.1.243	3/15/21	surveillance	99.7	7447	hCoV-19/USA/VSP1119/2021	MW935698
VSP1120	B.1.2	3/15/21	surveillance	99.7	7320	hCoV-19/USA/VSP1120/2021	MW935699
VSP1121	B.1.2	3/15/21	surveillance	99.7	8636	hCoV-19/USA/VSP1121/2021	MW935700
VSP1122	B.1.526	3/15/21	surveillance	99.7	6147	hCoV-19/USA/VSP1122/2021	MW935701
VSP1123	R.1	3/15/21	surveillance	99.7	6818	hCoV-19/USA/VSP1123/2021	MW935702
VSP1124	B.1.575	3/15/21	surveillance	99.7	6960	hCoV-19/USA/VSP1124/2021	MW935703
VSP1126	B.1.110.3	3/15/21	surveillance	99.7	7232	hCoV-19/USA/VSP1126/2021	MW935704
VSP1127	R.1	3/15/21	surveillance	99.7	6500	hCoV-19/USA/VSP1127/2021	MW935705
VSP1128	B.1.433	3/15/21	surveillance	99.7	5817	hCoV-19/USA/VSP1128/2021	MW935706
VSP1129	B.1.575	3/15/21	surveillance	99.7	6548	hCoV-19/USA/VSP1129/2021	MW935707
VSP1130	B.1.575	3/15/21	surveillance	99.7	8157	hCoV-19/USA/VSP1130/2021	OK245809
VSP1131	B.1.637	3/15/21	surveillance	99.7	7199	hCoV-19/USA/VSP1131/2021	MW935708
VSP1132	B.1.2	3/15/21	surveillance	99.7	8899	hCoV-19/USA/VSP1132/2021	MW935709
VSP1133	R.1	3/15/21	surveillance	99.7	5946	hCoV-19/USA/VSP1133/2021	MW935710
VSP1134	B.1.243	3/15/21	surveillance	99.7	5174	hCoV-19/USA/VSP1134/2021	MW935711
VSP1135	B.1.240	3/15/21	surveillance	99.7	8171	hCoV-19/USA/VSP1135/2021	MW935712
VSP1136	B.1.526	3/15/21	surveillance	99.7	7438	hCoV-19/USA/VSP1136/2021	MW935713
VSP1137	B.1.2	3/15/21	surveillance	99.7	7316	hCoV-19/USA/VSP1137/2021	MW935714
VSP1138	B.1.1.7	3/15/21	accine breakthroug	99.7	6398	hCoV-19/USA/VSP1138/2021	OK245810
VSP1139	B.1.1.7	3/15/21	surveillance	99.7	5940	hCoV-19/USA/VSP1139/2021	MW935715
VSP1140	R.1	3/15/21	surveillance	99.1	4612	hCoV-19/USA/VSP1140/2021	MW935716
VSP1141	B.1.575	3/15/21	surveillance	99.7	6592	hCoV-19/USA/VSP1141/2021	MW935717
VSP1142	B.1.2	3/15/21	surveillance	99.7	8844	hCoV-19/USA/VSP1142/2021	MW935718

VSP1143	B.1.2	3/15/21	surveillance	99.7	7059	hCoV-19/USA/VSP1143/2021	MW935719
VSP1144	B.1.2	3/15/21	surveillance	99.7	5322	hCoV-19/USA/VSP1144/2021	MW935720
VSP1145	B.1.575	3/15/21	surveillance	99.2	7279	hCoV-19/USA/VSP1145/2021	MW935721
VSP1146	R.1	3/15/21	surveillance	99.1	3967	hCoV-19/USA/VSP1146/2021	MW935722
VSP1147	B.1.311	3/15/21	surveillance	99.7	8133	hCoV-19/USA/VSP1147/2021	MW935723
VSP1149	B.1.243	3/15/21	surveillance	99.7	7596	hCoV-19/USA/VSP1149/2021	MW935724
VSP1150	B.1.637	3/15/21	surveillance	99.7	6363	hCoV-19/USA/VSP1150/2021	OK245811
VSP1151	B.1.2	3/15/21	surveillance	99.7	6088	hCoV-19/USA/VSP1151/2021	MW935725
VSP1153	R.1	3/15/21	surveillance	99.7	5946	hCoV-19/USA/VSP1153/2021	MW935726
VSP1154	B.1.1.7	3/15/21	surveillance	99.7	8266	hCoV-19/USA/VSP1154/2021	MW935727
VSP1155	B.1.2	3/15/21	surveillance	99.7	7425	hCoV-19/USA/VSP1155/2021	MW935728
VSP1156	B.1.2	3/15/21	surveillance	99.7	8822	hCoV-19/USA/VSP1156/2021	MW935729
VSP1157	B.1.2	3/15/21	surveillance	98.4	4086	hCoV-19/USA/VSP1157/2021	MW935730
VSP1158	B.1.2	3/15/21	surveillance	99.7	7266	hCoV-19/USA/VSP1158/2021	MW935731
VSP1159	B.1.2	3/15/21	surveillance	99.1	6003	hCoV-19/USA/VSP1159/2021	MW935732
VSP1160	B.1.2	3/15/21	surveillance	99.7	5299	hCoV-19/USA/VSP1160/2021	MW935733
VSP1161	R.1	3/15/21	surveillance	99.7	6677	hCoV-19/USA/VSP1161/2021	MW935734
VSP1162	B.1.1.7	3/15/21	surveillance	99.7	7591	hCoV-19/USA/VSP1162/2021	MW935735
VSP1164	B.1.1.7	3/15/21	surveillance	99.7	7664	hCoV-19/USA/VSP1164/2021	MW935736
VSP1165	B.1.2	3/15/21	surveillance	95.1	54	hCoV-19/USA/PA-VSP1165/2021	OK245812
VSP1166	B.1.1.7	3/15/21	surveillance	98.6	170	hCoV-19/USA/PA-VSP1166/2021	OK245813
VSP1167	B.1.637	3/15/21	surveillance	98.4	144	hCoV-19/USA/PA-VSP1167/2021	OK245814
VSP1168	B.1.2	3/15/21	surveillance	98.3	130	hCoV-19/USA/PA-VSP1168/2021	OK245815
VSP1172	B.1.311	3/15/21	surveillance	98.9	168	hCoV-19/USA/PA-VSP1172/2021	OK245816
VSP1173	B.1.1.7	3/15/21	surveillance	97.3	59	hCoV-19/USA/PA-VSP1173/2021	OK245817
VSP1174	B.1.243	3/15/21	surveillance	99	188	hCoV-19/USA/PA-VSP1174/2021	OK245818
VSP1175	R.1	3/15/21	surveillance	99.4	186	hCoV-19/USA/PA-VSP1175/2021	OK245819
VSP1176	B.1.1.519	3/15/21	surveillance	98.8	169	hCoV-19/USA/PA-VSP1176/2021	OK245820
VSP1177	B.1.526	3/15/21	surveillance	97.3	176	hCoV-19/USA/PA-VSP1177/2021	OK245821
VSP1178	B.1.526	3/15/21	surveillance	95.9	193	hCoV-19/USA/PA-VSP1178/2021	OK245822
VSP1180	B.1.2	3/15/21	surveillance	98.9	156	hCoV-19/USA/NJ-VSP1180/2021	OK245823
VSP1181	B.1.526	3/15/21	surveillance	99.3	164	hCoV-19/USA/PA-VSP1181/2021	OK245824
VSP1182	B.1.526	3/15/21	surveillance	97.8	133	hCoV-19/USA/PA-VSP1182/2021	OK245825
VSP1184	B.1.243	3/15/21	surveillance	97.7	180	hCoV-19/USA/PA-VSP1184/2021	OK245826
VSP1186	B.1.596	3/15/21	surveillance	99	176	hCoV-19/USA/NJ-VSP1186/2021	OK245827
VSP1188	B.1.526	3/15/21	surveillance	99	197	hCoV-19/USA/PA-VSP1188/2021	OK245828
VSP1189	B.1.588	3/15/21	surveillance	98.2	216	hCoV-19/USA/PA-VSP1189/2021	OK245829
VSP1190	B.1.2	3/15/21	surveillance	98.9	185	hCoV-19/USA/PA-VSP1190/2021	OK245830
VSP1191	B.1.243	3/15/21	surveillance	97.9	137	hCoV-19/USA/PA-VSP1191/2021	OK245831
VSP1192	B.1.243	3/15/21	surveillance	98.2	166	hCoV-19/USA/PA-VSP1192/2021	OK245832
VSP1193	B.1.575	3/15/21	surveillance	98.1	201	hCoV-19/USA/PA-VSP1193/2021	OK245833
VSP1194	B.1.526	3/15/21	surveillance	99.6	436	hCoV-19/USA/PA-VSP1194/2021	OK245834
VSP1195	B.1.575	3/15/21	surveillance	98.7	186	hCoV-19/USA/PA-VSP1195/2021	
VSP1196	B.1.526	3/15/21	surveillance	96.5	222	hCoV-19/USA/PA-VSP1196/2021	OK245835
VSP1197	B.1.596	3/15/21	surveillance	98.7	183	hCoV-19/USA/PA-VSP1197/2021	OK245836
VSP1198	B.1.2	3/15/21	surveillance	99.2	176	hCoV-19/USA/NJ-VSP1198/2021	OK245837
VSP1199	B.1.361	3/15/21	surveillance	99	226	hCoV-19/USA/PA-VSP1199/2021	OK245838

VSP1200	B.1.1.348	3/15/21	surveillance	98.3	163	hCoV-19/USA/PA-VSP1200/2021	OK245839
VSP1202	B.1.526	3/15/21	surveillance	99.5	242	hCoV-19/USA/PA-VSP1202/2021	OK245840
VSP1203	B.1.526	3/15/21	surveillance	99.7	1069	hCoV-19/USA/NJ-VSP1203/2021	OK245841
VSP1204	B.1.234	3/15/21	surveillance	98.7	166	hCoV-19/USA/PA-VSP1204/2021	OK245842
VSP1205	B.1.1.192	3/15/21	surveillance	99.7	1638	hCoV-19/USA/PA-VSP1205/2021	OK245843
VSP1207	B.1.526	3/15/21	surveillance	99.7	292	hCoV-19/USA/PA-VSP1207/2021	OK245844
VSP1212	B.1.1.7	3/22/21	hospitalized	99.1	2009	hCoV-19/USA/PA-VSP1212/2021	OK245845
VSP1217	R.1	3/22/21	accine breakthroug	99.7	8860	hCoV-19/USA/PA-VSP1217/2021	OK245846
VSP1218	B.1.1.7	3/22/21	s drop	99.6	346	hCoV-19/USA/NJ-VSP1218/2021	OK245847
VSP1220	B.1.243	3/22/21	accine breakthroug	99.7	3222	hCoV-19/USA/PA-VSP1220/2021	OK245848
VSP1221	B.1.637	3/22/21	accine breakthroug	99.7	4107	hCoV-19/USA/NJ-VSP1221/2021	OK245849
VSP1222	B.1.1.7	3/22/21	s drop	99.7	4414	hCoV-19/USA/PA-VSP1222/2021	OK245850
VSP1223	B.1.1.7	3/22/21	s drop	99.7	897	hCoV-19/USA/PA-VSP1223/2021	OK245851
VSP1224	B.1.1.7	3/22/21	s drop	99.7	4065	hCoV-19/USA/PA-VSP1224/2021	OK245852
VSP1225	B.1.1.434	3/22/21	s drop	99	375	hCoV-19/USA/PA-VSP1225/2021	
VSP1226	B.1.1.7	3/22/21	s drop	99.7	1858	hCoV-19/USA/PA-VSP1226/2021	OK245853
VSP1227	B.1.1.7	3/22/21	s drop	99.7	3360	hCoV-19/USA/PA-VSP1227/2021	OK245854
VSP1228	B.1.1.7	3/22/21	s drop	99.7	4800	hCoV-19/USA/PA-VSP1228/2021	OK245855
VSP1229	B.1.1.7	3/22/21	s drop	99.7	3156	hCoV-19/USA/PA-VSP1229/2021	OK245856
VSP1230	B.1.1.7	3/22/21	s drop	99.7	3427	hCoV-19/USA/PA-VSP1230/2021	OK245857
VSP1231	B.1.1.7	3/22/21	s drop	99.7	4394	hCoV-19/USA/PA-VSP1231/2021	OK245858
VSP1232	B.1.1.7	3/22/21	s drop	99.7	5754	hCoV-19/USA/PA-VSP1232/2021	OK245859
VSP1233	B.1.1.7	3/22/21	s drop	99.7	5852	hCoV-19/USA/PA-VSP1233/2021	OK245860
VSP1236	B.1.1.7	3/22/21	s drop	99.7	1716	hCoV-19/USA/NJ-VSP1236/2021	OK245861
VSP1237	B.1.1.7	3/22/21	s drop	99.7	664	hCoV-19/USA/PA-VSP1237/2021	OK245862
VSP1238	B.1.1.7	3/22/21	s drop	99.7	817	hCoV-19/USA/PA-VSP1238/2021	OK245863
VSP1239	B.1.234	3/22/21	accine breakthroug	99.7	1036	hCoV-19/USA/PA-VSP1239/2021	OK245864
VSP1240	B.1.1.7	3/22/21	s drop	99.7	5983	hCoV-19/USA/PA-VSP1240/2021	OK245865
VSP1241	B.1.1.7	3/22/21	s drop	99.7	2877	hCoV-19/USA/PA-VSP1241/2021	OK245866
VSP1242	B.1.1.7	3/22/21	s drop	99.7	4221	hCoV-19/USA/PA-VSP1242/2021	OK245867
VSP1243	B.1.1.7	3/22/21	s drop	99.7	5325	hCoV-19/USA/PA-VSP1243/2021	OK245868
VSP1244	B.1.1.7	3/22/21	s drop	99.7	4531	hCoV-19/USA/NY-VSP1244/2021	OK245869
VSP1245	B.1.1.7	3/22/21	s drop	99.7	3093	hCoV-19/USA/PA-VSP1245/2021	OK245870
VSP1246	B.1.1.7	3/22/21	s drop	99.7	1231	hCoV-19/USA/PA-VSP1246/2021	OK245871
VSP1247	B.1.1.7	3/22/21	s drop	99.7	4471	hCoV-19/USA/PA-VSP1247/2021	OK245872
VSP1248	B.1.1.7	3/22/21	s drop	99.7	5199	hCoV-19/USA/PA-VSP1248/2021	OK245873
VSP1249	B.1.1.7	3/22/21	s drop	99.7	2436	hCoV-19/USA/PA-VSP1249/2021	
VSP1250	B.1.1.7	3/22/21	s drop	99.7	2495	hCoV-19/USA/PA-VSP1250/2021	OK245874
VSP1251	B.1.1.7	3/22/21	s drop	99.7	3774	hCoV-19/USA/PA-VSP1251/2021	OK245875
VSP1252	B.1.1.7	3/22/21	s drop	99.7	3445	hCoV-19/USA/PA-VSP1252/2021	OK245876
VSP1253	B.1.1.7	3/22/21	s drop	99.7	3011	hCoV-19/USA/PA-VSP1253/2021	OK245877
VSP1254	B.1.1.7	3/22/21	s drop	99.7	4854	hCoV-19/USA/PA-VSP1254/2021	OK245878
VSP1255	B.1.1.7	3/22/21	s drop	99.7	2804	hCoV-19/USA/PA-VSP1255/2021	OK245879
VSP1256	B.1.1.7	3/22/21	s drop	99.7	5849	hCoV-19/USA/PA-VSP1256/2021	OK245880
VSP1257	B.1.1.7	3/22/21	s drop	99.7	3615	hCoV-19/USA/PA-VSP1257/2021	OK245881
VSP1258	B.1.1.7	3/22/21	s drop	99.7	5094	hCoV-19/USA/PA-VSP1258/2021	OK245882
VSP1259	B.1.1.7	3/22/21	s drop	99.7	5721	hCoV-19/USA/NJ-VSP1259/2021	OK245883

VSP1260	B.1.1.7	3/22/21	s drop	99.7	4153	hCoV-19/USA/PA-VSP1260/2021	OK245884
VSP1262	B.1.1.7	3/22/21	s drop	99.7	1016	hCoV-19/USA/PA-VSP1262/2021	OK245885
VSP1263	B.1.1.7	3/22/21	s drop	99.7	1247	hCoV-19/USA/NJ-VSP1263/2021	OK245886
VSP1267	None	3/22/21	s drop	97.4	804	hCoV-19/USA/PA-VSP1267/2021	
VSP1268	B.1.1.7	3/22/21	s drop	99.7	4764	hCoV-19/USA/PA-VSP1268/2021	OK245887
VSP1269	B.1.1.7	3/22/21	s drop	99.7	4746	hCoV-19/USA/PA-VSP1269/2021	OK245888
VSP1270	B.1.1.7	3/22/21	surveillance	99.7	3794	hCoV-19/USA/PA-VSP1270/2021	OK245889
VSP1271	B.1.1.7	3/22/21	surveillance	99.7	4761	hCoV-19/USA/PA-VSP1271/2021	OK245890
VSP1272	B.1.526	3/22/21	surveillance	99.7	4227	hCoV-19/USA/PA-VSP1272/2021	OK245891
VSP1273	B.1.526	3/22/21	surveillance	99.7	5308	hCoV-19/USA/PA-VSP1273/2021	OK245892
VSP1274	B.1.575	3/22/21	surveillance	99.7	5590	hCoV-19/USA/PA-VSP1274/2021	OK245893
VSP1275	B.1.575	3/22/21	surveillance	99	258	hCoV-19/USA/PA-VSP1275/2021	OK245894
VSP1276	B.1.1.334	3/22/21	surveillance	99.7	2204	hCoV-19/USA/PA-VSP1276/2021	OK245895
VSP1277	B.1.1.519	3/22/21	surveillance	99.7	5276	hCoV-19/USA/PA-VSP1277/2021	OK245896
VSP1279	B.1.429	3/22/21	surveillance	99.7	3928	hCoV-19/USA/GA-VSP1279/2021	OK245897
VSP1280	B.1.2	3/22/21	surveillance	99.7	3925	hCoV-19/USA/PA-VSP1280/2021	OK245898
VSP1281	B.1.1.7	3/22/21	surveillance	99.7	3771	hCoV-19/USA/PA-VSP1281/2021	OK245899
VSP1283	B.1.1.7	3/22/21	surveillance	99.7	3765	hCoV-19/USA/PA-VSP1283/2021	OK245900
VSP1284	B.1.1.7	3/22/21	surveillance	99.7	4935	hCoV-19/USA/PA-VSP1284/2021	OK245901
VSP1285	B.1.1.7	3/22/21	surveillance	99.7	3643	hCoV-19/USA/PA-VSP1285/2021	OK245902
VSP1286	B.1.2	3/22/21	surveillance	99.7	2790	hCoV-19/USA/PA-VSP1286/2021	OK245903
VSP1287	B.1.526	3/22/21	surveillance	99.7	2501	hCoV-19/USA/PA-VSP1287/2021	OK245904
VSP1288	B.1.2	3/22/21	surveillance	99.7	5964	hCoV-19/USA/PA-VSP1288/2021	OK245905
VSP1289	B.1.243	3/22/21	surveillance	99.7	4793	hCoV-19/USA/PA-VSP1289/2021	OK245906
VSP1290	B.1.243	3/22/21	surveillance	99.7	6544	hCoV-19/USA/PA-VSP1290/2021	OK245907
VSP1291	B.1.526	3/22/21	surveillance	99.7	4139	hCoV-19/USA/PA-VSP1291/2021	OK245908
VSP1292	B.1.2	3/22/21	surveillance	99.7	3825	hCoV-19/USA/PA-VSP1292/2021	OK245909
VSP1293	B.1.1.7	3/22/21	surveillance	99.7	4358	hCoV-19/USA/PA-VSP1293/2021	OK245910
VSP1294	B.1.243	3/22/21	surveillance	99.7	3432	hCoV-19/USA/PR-VSP1294/2021	OK245911
VSP1295	B.1.1.7	3/22/21	surveillance	99.7	4988	hCoV-19/USA/PA-VSP1295/2021	OK245912
VSP1297	B.1.2	3/22/21	surveillance	99.7	3174	hCoV-19/USA/PA-VSP1297/2021	OK245913
VSP1298	B.1.1.265	3/22/21	surveillance	98.3	5608	hCoV-19/USA/PA-VSP1298/2021	OK245914
VSP1299	R.1	3/22/21	surveillance	99.6	4017	hCoV-19/USA/PA-VSP1299/2021	OK245915
VSP1300	B.1.1.231	3/22/21	surveillance	99.7	5384	hCoV-19/USA/PA-VSP1300/2021	OK245916
VSP1301	B.1.1.7	3/22/21	surveillance	99.7	7847	hCoV-19/USA/PA-VSP1301/2021	OK245917
VSP1302	B.1.2	3/22/21	surveillance	99.7	2855	hCoV-19/USA/PA-VSP1302/2021	OK245918
VSP1303	R.1	3/22/21	surveillance	99.7	1505	hCoV-19/USA/PA-VSP1303/2021	OK245919
VSP1304	B.1.2	3/22/21	surveillance	99.7	4856	hCoV-19/USA/PA-VSP1304/2021	OK245920
VSP1306	B.1.575	3/22/21	surveillance	99.7	6797	hCoV-19/USA/PA-VSP1306/2021	OK245921
VSP1307	B.1.110.3	3/22/21	surveillance	99.7	6233	hCoV-19/USA/PA-VSP1307/2021	OK245922
VSP1308	B.1.2	3/22/21	surveillance	99.7	7065	hCoV-19/USA/PA-VSP1308/2021	OK245923
VSP1309	B.1.243	3/22/21	surveillance	99.7	5990	hCoV-19/USA/VSP1309/2021	MW935737
VSP1310	B.1.2	3/22/21	surveillance	98.4	2272	hCoV-19/USA/VSP1310/2021	MW935738
VSP1311	B.1.2	3/22/21	surveillance	99.7	5440	hCoV-19/USA/VSP1311/2021	MW935739
VSP1312	R.1	3/22/21	surveillance	99.7	3733	hCoV-19/USA/VSP1312/2021	MW935740
VSP1313	R.1	3/22/21	surveillance	99.7	5949	hCoV-19/USA/VSP1313/2021	MW935741
VSP1314	B.1.110.3	3/22/21	surveillance	99.7	5028	hCoV-19/USA/VSP1314/2021	MW935742

VSP1315	B.1.311	3/22/21	surveillance	99.7	4550	hCoV-19/USA/VSP1315/2021	MW935743
VSP1316	B.1.526	3/22/21	surveillance	99.7	4039	hCoV-19/USA/VSP1316/2021	MW935744
VSP1317	B.1.2	3/22/21	surveillance	99.7	4280	hCoV-19/USA/VSP1317/2021	MW935745
VSP1318	B.1.2	3/22/21	surveillance	99.7	3494	hCoV-19/USA/VSP1318/2021	MW935746
VSP1320	B.1.2	3/22/21	surveillance	98.3	3144	hCoV-19/USA/VSP1320/2021	MW935747
VSP1321	B.1.2	3/22/21	surveillance	99.4	3896	hCoV-19/USA/VSP1321/2021	MW935748
VSP1324	B.1.526	3/22/21	surveillance	99.7	4229	hCoV-19/USA/VSP1324/2021	MW935749
VSP1325	B.1.526	3/22/21	surveillance	99.4	5083	hCoV-19/USA/VSP1325/2021	MW935750
VSP1327	B.1.2	3/22/21	surveillance	99.7	3359	hCoV-19/USA/VSP1327/2021	MW935751
VSP1328	B.1.2	3/22/21	surveillance	99.1	4561	hCoV-19/USA/VSP1328/2021	MW935752
VSP1330	B.1.2	3/22/21	surveillance	99.7	4926	hCoV-19/USA/VSP1330/2021	MW935753
VSP1331	B.1.2	3/22/21	surveillance	99.7	4968	hCoV-19/USA/VSP1331/2021	MW935754
VSP1332	B.1.2	3/22/21	surveillance	99.1	3097	hCoV-19/USA/VSP1332/2021	MW935755
VSP1334	B.1.1.7	3/22/21	surveillance	99.7	4665	hCoV-19/USA/VSP1334/2021	MW935756
VSP1335	B.1.2	3/22/21	surveillance	99.7	4305	hCoV-19/USA/VSP1335/2021	MW935757
VSP1337	B.1.1.7	3/22/21	surveillance	99.7	4358	hCoV-19/USA/VSP1337/2021	MW935758
VSP1338	B.1.1.7	3/22/21	surveillance	99.7	4526	hCoV-19/USA/VSP1338/2021	MW935759
VSP1339	B.1.1.7	3/22/21	surveillance	99.1	3180	hCoV-19/USA/VSP1339/2021	MW935760
VSP1340	B.1.1.7	3/22/21	surveillance	99.7	4947	hCoV-19/USA/VSP1340/2021	MW935761
VSP1341	B.1.637	3/22/21	surveillance	99.7	5606	hCoV-19/USA/VSP1341/2021	MW935762
VSP1342	B.1.575	3/22/21	surveillance	99.6	3496	hCoV-19/USA/VSP1342/2021	MW935763
VSP1343	B.1.243	3/22/21	surveillance	99.1	3898	hCoV-19/USA/VSP1343/2021	MW935764
VSP1344	B.1.2	3/22/21	surveillance	99.1	3841	hCoV-19/USA/VSP1344/2021	MW935765
VSP1345	B.1.2	3/22/21	surveillance	99.7	4075	hCoV-19/USA/VSP1345/2021	MW935766
VSP1346	B.1.1.7	3/22/21	surveillance	99.7	6344	hCoV-19/USA/VSP1346/2021	MW935767
VSP1347	B.1.525	3/22/21	surveillance	99.5	5388	hCoV-19/USA/VSP1347/2021	
VSP1348	R.1	3/22/21	surveillance	99.1	2980	hCoV-19/USA/VSP1348/2021	MW935768
VSP1350	B.1.637	3/22/21	surveillance	98.8	2487	hCoV-19/USA/VSP1350/2021	MW935769
VSP1351	B.1.526	3/22/21	surveillance	99.7	2601	hCoV-19/USA/VSP1351/2021	MW935770
VSP1352	R.1	3/22/21	surveillance	99.1	2573	hCoV-19/USA/VSP1352/2021	MW935771
VSP1353	B.1.1.265	3/22/21	surveillance	96.7	2302	hCoV-19/USA/VSP1353/2021	MW935772
VSP1354	B.1.526	3/22/21	surveillance	99.7	3635	hCoV-19/USA/VSP1354/2021	MW935773
VSP1356	B.1.526	3/22/21	surveillance	99.7	3260	hCoV-19/USA/VSP1356/2021	MW935774
VSP1357	B.1.429	3/22/21	surveillance	99.7	3703	hCoV-19/USA/VSP1357/2021	MW935775
VSP1358	B.1.2	3/22/21	surveillance	99.7	3345	hCoV-19/USA/VSP1358/2021	MW935776
VSP1359	B.1.526	3/22/21	surveillance	99.7	3511	hCoV-19/USA/VSP1359/2021	MW935777
VSP1360	R.1	3/22/21	surveillance	99.7	3530	hCoV-19/USA/VSP1360/2021	MW935778
VSP1361	B.1.623	3/22/21	surveillance	99	2608	hCoV-19/USA/VSP1361/2021	MW935779
VSP1362	B.1.637	3/22/21	surveillance	99.7	4117	hCoV-19/USA/VSP1362/2021	MW935780
VSP1363	B.1.526	3/22/21	surveillance	99.7	3279	hCoV-19/USA/VSP1363/2021	MW935781
VSP1364	B.1.243	3/22/21	surveillance	99.7	3216	hCoV-19/USA/VSP1364/2021	MW935782
VSP1365	B.1.526	3/22/21	surveillance	99.7	3183	hCoV-19/USA/VSP1365/2021	MW935783
VSP1366	B.1.311	3/22/21	surveillance	99.7	4226	hCoV-19/USA/VSP1366/2021	OK245924
VSP1367	B.1.526	3/22/21	surveillance	99.7	4082	hCoV-19/USA/VSP1367/2021	MW935784
VSP1368	B.1.1.7	3/22/21	surveillance	99.7	3307	hCoV-19/USA/VSP1368/2021	MW935785
VSP1369	B.1.637	3/22/21	surveillance	99.6	2877	hCoV-19/USA/VSP1369/2021	MW935786
VSP1370	B.1.637	3/22/21	surveillance	99.7	3585	hCoV-19/USA/VSP1370/2021	MW935787

VSP1371	B.1.637	3/22/21	surveillance	99.7	3584	hCoV-19/USA/VSP1371/2021	MW935788
VSP1372	B.1.1.7	3/22/21	surveillance	99.7	3626	hCoV-19/USA/VSP1372/2021	OK245925
VSP1373	B.1.526	3/22/21	surveillance	99.7	3669	hCoV-19/USA/VSP1373/2021	MW935789
VSP1374	B.1.1.7	3/22/21	surveillance	99.7	3412	hCoV-19/USA/VSP1374/2021	MW935790
VSP1375	B.1.596	3/22/21	surveillance	99.7	3115	hCoV-19/USA/VSP1375/2021	MW935791
VSP1376	B.1.1.7	3/22/21	surveillance	99.7	2972	hCoV-19/USA/VSP1376/2021	MW935792
VSP1377	B.1.1.7	3/22/21	surveillance	99.7	3557	hCoV-19/USA/VSP1377/2021	MW935793
VSP1378	B.1.1.7	3/22/21	surveillance	99.7	2792	hCoV-19/USA/VSP1378/2021	MW935794
VSP1379	B.1.1.7	3/22/21	surveillance	99.7	3354	hCoV-19/USA/VSP1379/2021	MW935795
VSP1380	B.1.1.7	3/22/21	surveillance	99.7	1867	hCoV-19/USA/VSP1380/2021	MW935796
VSP1381	R.1	3/22/21	surveillance	97.6	182	hCoV-19/USA/VSP1381/2021	MW935797
VSP1382	B.1.1.7	3/22/21	surveillance	99.6	2488	hCoV-19/USA/VSP1382/2021	MW935798
VSP1383	B.1.2	3/22/21	surveillance	99.7	3512	hCoV-19/USA/VSP1383/2021	MW935799
VSP1384	B.1.596	3/22/21	surveillance	99.7	4059	hCoV-19/USA/VSP1384/2021	MW935800
VSP1386	B.1.526	3/22/21	surveillance	99.7	4042	hCoV-19/USA/VSP1386/2021	MW935801
VSP1387	P.1.10	3/22/21	surveillance	99.7	4144	hCoV-19/USA/VSP1387/2021	MW935802
VSP1388	B.1.2	3/22/21	surveillance	99.7	3750	hCoV-19/USA/VSP1388/2021	MW935803
VSP1389	R.1	3/22/21	surveillance	99.7	2745	hCoV-19/USA/VSP1389/2021	MW935804
VSP1390	B.1.526	3/22/21	surveillance	99.7	3824	hCoV-19/USA/VSP1390/2021	MW935805
VSP1391	B.1.1.7	3/22/21	surveillance	99.7	3754	hCoV-19/USA/VSP1391/2021	MW935806
VSP1393	B.1.2	3/22/21	surveillance	98.6	48	hCoV-19/USA/VSP1393/2021	MW935807
VSP1398	B.1.1.7	3/22/21	surveillance	99.4	279	hCoV-19/USA/VSP1398/2021	MW935809
VSP1400	B.1.234	3/22/21	surveillance	98.5	47	hCoV-19/USA/VSP1400/2021	MW935810
VSP1402	B.1.1.7	3/22/21	surveillance	97.3	32	hCoV-19/USA/VSP1402/2021	MW935811
VSP1403	B.1.2	3/22/21	surveillance	98.9	116	hCoV-19/USA/VSP1403/2021	MW935812
VSP1405	B.1.1.519	3/22/21	surveillance	96.1	27	hCoV-19/USA/VSP1405/2021	MW935813
VSP1406	B.1.526	3/22/21	surveillance	97.9	58	hCoV-19/USA/VSP1406/2021	MW935814
VSP1408	B.1.526	3/22/21	accine breakthrough	97.9	35	hCoV-19/USA/VSP1408/2021	MW935815
VSP1411	B.1	3/22/21	surveillance	95	22	hCoV-19/USA/VSP1411/2021	MW935816
VSP1416	B.1.1.519	3/22/21	surveillance	97.9	36	hCoV-19/USA/VSP1416/2021	MW935817
VSP1421	B.1.1.7	3/22/21	surveillance	95.5	24	hCoV-19/USA/VSP1421/2021	MW935818
VSP1422	B.1.1.434	3/22/21	surveillance	99	123	hCoV-19/USA/VSP1422/2021	MW935819
VSP1423	B.1.526	3/22/21	surveillance	98.8	66	hCoV-19/USA/VSP1423/2021	MW935820
VSP1424	B.1.526	3/22/21	surveillance	99.4	151	hCoV-19/USA/VSP1424/2021	MW935821
VSP1426	B.1.575	3/22/21	surveillance	96.8	39	hCoV-19/USA/VSP1426/2021	MW935822
VSP1430	B.1.2	3/22/21	surveillance	99.6	550	hCoV-19/USA/VSP1430/2021	MW935823
VSP1433	B.1.2	3/24/21	accine breakthrough	99.7	4858	hCoV-19/USA/PA-VSP1433/2021	MZ156590
VSP1434	B.1.2	3/26/21	hospitalized	99.7	1657	hCoV-19/USA/PA-VSP1434/2021	OK245926
VSP1435	B.1.2	3/26/21	hospitalized	99.6	850	hCoV-19/USA/PA-VSP1435/2021	OK245927
VSP1439	B.1.1.7	3/26/21	hospitalized	99.7	2672	hCoV-19/USA/PA-VSP1439/2021	OK245928
VSP1447	B.1.1.7	3/31/21	s drop	99	90	hCoV-19/USA/NJ-VSP1447/2021	MZ156591
VSP1453	B.1.1.7	3/31/21	s drop	99.7	4843	hCoV-19/USA/PA-VSP1453/2021	MZ156592
VSP1454	B.1.1.7	3/31/21	s drop	99.7	5032	hCoV-19/USA/PA-VSP1454/2021	MZ156593
VSP1455	B.1.1.7	3/31/21	s drop	99.7	4749	hCoV-19/USA/PA-VSP1455/2021	OK245929
VSP1456	B.1.1.7	3/31/21	s drop	99.7	6430	hCoV-19/USA/PA-VSP1456/2021	MZ156594
VSP1458	B.1.1.7	3/31/21	s drop	99.6	6730	hCoV-19/USA/PA-VSP1458/2021	OK245930
VSP1459	B.1.1.7	3/31/21	s drop	99.7	5158	hCoV-19/USA/PA-VSP1459/2021	MZ156595

VSP1460	B.1.525	3/31/21	s drop	99.7	8009	hCoV-19/USA/NJ-VSP1460/2021	
VSP1461	B.1.1.7	3/31/21	accine breakthroug	99.7	722	hCoV-19/USA/PA-VSP1461/2021	MZ156596
VSP1462	B.1.1.7	3/31/21	s drop	99.7	5615	hCoV-19/USA/PA-VSP1462/2021	MZ156597
VSP1463	B.1.1.7	3/31/21	s drop	99.7	6295	hCoV-19/USA/PA-VSP1463/2021	MZ156598
VSP1465	B.1.1.7	3/31/21	s drop	99.7	4562	hCoV-19/USA/PA-VSP1465/2021	OK245931
VSP1467	B.1.1.7	3/31/21	s drop	99.3	4291	hCoV-19/USA/PA-VSP1467/2021	MZ156599
VSP1468	B.1.1.7	3/31/21	s drop	99.7	7311	hCoV-19/USA/PA-VSP1468/2021	MZ156600
VSP1469	B.1.1.7	3/31/21	s drop	99.7	7877	hCoV-19/USA/PA-VSP1469/2021	MZ156601
VSP1470	B.1.1.7	3/31/21	s drop	99.7	5540	hCoV-19/USA/PA-VSP1470/2021	MZ156602
VSP1472	B.1.1.7	3/31/21	s drop	99.7	7902	hCoV-19/USA/PA-VSP1472/2021	MZ156603
VSP1473	B.1.1.7	3/31/21	s drop	99.1	3322	hCoV-19/USA/PA-VSP1473/2021	MZ156604
VSP1474	B.1.1.7	3/31/21	s drop	99.7	7001	hCoV-19/USA/PA-VSP1474/2021	MZ156605
VSP1475	B.1.1.7	3/31/21	s drop	99	160	hCoV-19/USA/PA-VSP1475/2021	OK245932
VSP1476	B.1.1.7	3/31/21	s drop	99.7	3330	hCoV-19/USA/PA-VSP1476/2021	MZ156606
VSP1477	B.1.1.7	3/31/21	s drop	98.6	47	hCoV-19/USA/PA-VSP1477/2021	MZ156607
VSP1478	B.1.1.7	3/31/21	s drop	99.7	4048	hCoV-19/USA/PA-VSP1478/2021	MZ156608
VSP1479	B.1.1.7	3/31/21	s drop	99.7	2753	hCoV-19/USA/DE-VSP1479/2021	MZ156609
VSP1480	B.1.1.7	3/31/21	s drop	99.7	5151	hCoV-19/USA/PA-VSP1480/2021	MZ156610
VSP1481	B.1.525	3/31/21	s drop	99.5	8051	hCoV-19/USA/NJ-VSP1481/2021	
VSP1482	B.1.1.7	3/31/21	s drop	99.7	8293	hCoV-19/USA/PA-VSP1482/2021	OK245933
VSP1483	B.1.1.7	3/31/21	s drop	98	47	hCoV-19/USA/PA-VSP1483/2021	MZ156611
VSP1484	B.1.1.7	3/31/21	s drop	99.7	7286	hCoV-19/USA/PA-VSP1484/2021	MZ156612
VSP1485	B.1.1.7	3/31/21	s drop	99.7	4137	hCoV-19/USA/PA-VSP1485/2021	MZ156613
VSP1486	B.1.1.7	3/31/21	accine breakthroug	99.7	7837	hCoV-19/USA/PA-VSP1486/2021	MZ156614
VSP1487	B.1.1.7	3/31/21	s drop	99.7	5635	hCoV-19/USA/PA-VSP1487/2021	MZ156615
VSP1488	B.1.1.7	3/31/21	s drop	99.7	6541	hCoV-19/USA/PA-VSP1488/2021	MZ156616
VSP1489	B.1.1.7	3/31/21	s drop	99.1	962	hCoV-19/USA/PA-VSP1489/2021	MZ156617
VSP1490	B.1.1.7	3/31/21	s drop	99.4	4388	hCoV-19/USA/PA-VSP1490/2021	MZ156618
VSP1491	B.1.1.7	3/31/21	s drop	99.7	8055	hCoV-19/USA/PA-VSP1491/2021	OK245934
VSP1492	B.1.1.7	3/31/21	s drop	99.7	4882	hCoV-19/USA/PA-VSP1492/2021	OK245935
VSP1493	B.1.1.7	3/31/21	s drop	99.7	8156	hCoV-19/USA/PA-VSP1493/2021	OK245936
VSP1494	B.1.1.7	3/31/21	s drop	99.7	7324	hCoV-19/USA/PA-VSP1494/2021	MZ156619
VSP1495	B.1.1.7	3/31/21	s drop	99.7	5401	hCoV-19/USA/PA-VSP1495/2021	MZ156620
VSP1496	B.1.1.7	3/31/21	s drop	99.7	3772	hCoV-19/USA/PA-VSP1496/2021	MZ156621
VSP1498	B.1.1.7	3/31/21	s drop	99.3	4247	hCoV-19/USA/PA-VSP1498/2021	OK245937
VSP1499	B.1.1.7	3/31/21	s drop	99.5	1984	hCoV-19/USA/PA-VSP1499/2021	OK245938
VSP1500	B.1.1.7	3/31/21	s drop	99.7	8771	hCoV-19/USA/PA-VSP1500/2021	MZ156622
VSP1501	B.1.1.7	3/31/21	s drop	99.7	4080	hCoV-19/USA/PA-VSP1501/2021	MZ156623
VSP1502	B.1.1.7	3/31/21	s drop	98	47	hCoV-19/USA/PA-VSP1502/2021	MZ156624
VSP1503	B.1.1.7	3/31/21	s drop	99.6	5616	hCoV-19/USA/PA-VSP1503/2021	OK245939
VSP1505	B.1.1.7	3/31/21	s drop	99.7	6529	hCoV-19/USA/PA-VSP1505/2021	MZ156625
VSP1506	B.1.1.7	3/31/21	s drop	99.6	6620	hCoV-19/USA/PA-VSP1506/2021	MZ156626
VSP1507	B.1.1.7	3/31/21	s drop	99.7	6198	hCoV-19/USA/PA-VSP1507/2021	MZ156627
VSP1508	B.1.1.7	3/31/21	s drop	99.7	8000	hCoV-19/USA/PA-VSP1508/2021	MZ156628
VSP1509	B.1.1.7	3/31/21	s drop	98.9	198	hCoV-19/USA/PA-VSP1509/2021	MZ156629
VSP1514	B.1.637	3/31/21	surveillance	99.7	3808	hCoV-19/USA/NJ-VSP1514/2021	MZ156633
VSP1515	B.1.2	3/31/21	surveillance	99.7	6187	hCoV-19/USA/PA-VSP1515/2021	MZ156634

VSP1517	B.1.637	3/31/21	surveillance	99	2141	hCoV-19/USA/NJ-VSP1517/2021	MZ156635
VSP1518	None	3/31/21	surveillance	99	734	hCoV-19/USA/NJ-VSP1518/2021	MZ156636
VSP1519	R.1	3/31/21	surveillance	97.8	1672	hCoV-19/USA/NJ-VSP1519/2021	MZ156637
VSP1520	B.1.2	3/31/21	surveillance	99.1	5254	hCoV-19/USA/PA-VSP1520/2021	MZ156638
VSP1521	B.1.243	3/31/21	surveillance	99.7	7957	hCoV-19/USA/PA-VSP1521/2021	MZ156639
VSP1522	B.1.1.7	3/31/21	surveillance	99.7	4762	hCoV-19/USA/PA-VSP1522/2021	MZ156640
VSP1523	B.1.526	3/31/21	surveillance	99.7	5225	hCoV-19/USA/PA-VSP1523/2021	MZ156641
VSP1524	B.1.526	3/31/21	surveillance	99.5	4412	hCoV-19/USA/PA-VSP1524/2021	MZ156642
VSP1526	B.1.1.7	3/31/21	surveillance	99.1	3901	hCoV-19/USA/PA-VSP1526/2021	MZ156643
VSP1527	B.1.1.7	3/31/21	surveillance	99.2	4034	hCoV-19/USA/PA-VSP1527/2021	MZ156644
VSP1528	B.1.1.7	3/31/21	surveillance	99.7	8556	hCoV-19/USA/PA-VSP1528/2021	MZ156645
VSP1529	B.1.1.519	3/31/21	surveillance	99.6	8181	hCoV-19/USA/PA-VSP1529/2021	MZ156646
VSP1530	B.1.637	3/31/21	surveillance	99.5	4826	hCoV-19/USA/PA-VSP1530/2021	MZ156647
VSP1531	B.1.1.7	3/31/21	surveillance	99.3	4140	hCoV-19/USA/PA-VSP1531/2021	MZ156648
VSP1532	B.1.1.519	3/31/21	surveillance	99.7	4855	hCoV-19/USA/PA-VSP1532/2021	MZ156649
VSP1533	B.1.1.7	3/31/21	surveillance	98.9	1591	hCoV-19/USA/PA-VSP1533/2021	MZ156650
VSP1534	B.1.1.7	3/31/21	surveillance	99.7	8903	hCoV-19/USA/PA-VSP1534/2021	MZ156651
VSP1536	B.1.1.7	3/31/21	surveillance	99.1	2572	hCoV-19/USA/PA-VSP1536/2021	MZ156652
VSP1537	B.1.1.7	3/31/21	surveillance	99.3	4850	hCoV-19/USA/PA-VSP1537/2021	MZ156653
VSP1538	B.1.1.7	3/31/21	surveillance	99.3	1848	hCoV-19/USA/PA-VSP1538/2021	MZ156654
VSP1539	B.1.575	3/31/21	surveillance	99.4	6325	hCoV-19/USA/PA-VSP1539/2021	MZ156655
VSP1541	B.1.526	3/31/21	surveillance	99.1	319	hCoV-19/USA/PA-VSP1541/2021	MZ156656
VSP1542	B.1.637	3/31/21	surveillance	99.1	2225	hCoV-19/USA/NJ-VSP1542/2021	MZ156657
VSP1543	B.1.243	3/31/21	surveillance	99.7	6054	hCoV-19/USA/VSP1543/2021	MZ512576
VSP1544	B.1.526	3/31/21	surveillance	99.7	5876	hCoV-19/USA/VSP1544/2021	MZ512577
VSP1545	B.1.2	3/31/21	surveillance	99.7	5127	hCoV-19/USA/VSP1545/2021	MZ512578
VSP1546	B.1.427	3/31/21	surveillance	98.4	5611	hCoV-19/USA/VSP1546/2021	MZ512579
VSP1547	B.1.526	3/31/21	surveillance	99.5	5184	hCoV-19/USA/VSP1547/2021	MZ512580
VSP1548	B.1.1.7	3/31/21	surveillance	98.6	5560	hCoV-19/USA/VSP1548/2021	MZ512581
VSP1549	B.1.2	3/31/21	surveillance	99.7	4718	hCoV-19/USA/VSP1549/2021	MZ512582
VSP1550	B.1.2	3/31/21	surveillance	99.7	3517	hCoV-19/USA/VSP1550/2021	MZ512583
VSP1551	R.1	3/31/21	surveillance	99.7	3633	hCoV-19/USA/VSP1551/2021	MZ512584
VSP1552	B.1.1.7	3/31/21	surveillance	99.7	5530	hCoV-19/USA/VSP1552/2021	MZ512585
VSP1553	R.1	3/31/21	surveillance	99.7	4381	hCoV-19/USA/VSP1553/2021	MZ512586
VSP1554	B.1.243	3/31/21	surveillance	99.7	3694	hCoV-19/USA/VSP1554/2021	MZ512587
VSP1555	B.1.2	3/31/21	surveillance	99.7	4788	hCoV-19/USA/VSP1555/2021	OK245940
VSP1556	B.1.2	3/31/21	surveillance	99.7	4779	hCoV-19/USA/VSP1556/2021	MZ512588
VSP1557	B.1.1.7	3/31/21	surveillance	99.7	4538	hCoV-19/USA/VSP1557/2021	MZ512589
VSP1558	R.1	3/31/21	surveillance	98.9	4797	hCoV-19/USA/VSP1558/2021	MZ512590
VSP1559	B.1.1.7	3/31/21	surveillance	99.7	6275	hCoV-19/USA/VSP1559/2021	MZ512591
VSP1560	B.1.1	3/31/21	surveillance	99.7	5551	hCoV-19/USA/VSP1560/2021	MZ512592
VSP1561	B.1.243	3/31/21	surveillance	98.3	4720	hCoV-19/USA/VSP1561/2021	MZ512593
VSP1562	B.1.1.7	3/31/21	surveillance	99.7	4209	hCoV-19/USA/VSP1562/2021	MZ512594
VSP1563	R.1	3/31/21	surveillance	98.9	4622	hCoV-19/USA/VSP1563/2021	MZ512595
VSP1564	B.1.110.3	3/31/21	surveillance	99.7	4814	hCoV-19/USA/VSP1564/2021	MZ512596
VSP1565	B.1.526	3/31/21	surveillance	99.7	4539	hCoV-19/USA/VSP1565/2021	MZ512597
VSP1566	B.1.311	3/31/21	surveillance	99.7	4469	hCoV-19/USA/VSP1566/2021	MZ512598

VSP1567	B.1.1.7	3/31/21	surveillance	99.7	4889	hCoV-19/USA/VSP1567/2021	MZ512599
VSP1568	B.1.1.7	3/31/21	surveillance	99.7	4545	hCoV-19/USA/VSP1568/2021	MZ512600
VSP1569	B.1.1.7	3/31/21	surveillance	99.7	4289	hCoV-19/USA/VSP1569/2021	MZ512601
VSP1570	B.1.110.3	3/31/21	surveillance	99.7	5420	hCoV-19/USA/VSP1570/2021	MZ512602
VSP1571	B.1.1.7	3/31/21	surveillance	99.7	4422	hCoV-19/USA/VSP1571/2021	MZ512603
VSP1572	B.1.110.3	3/31/21	surveillance	99.7	4791	hCoV-19/USA/VSP1572/2021	MZ512604
VSP1573	B.1.1.7	3/31/21	surveillance	99.7	4524	hCoV-19/USA/VSP1573/2021	MZ512605
VSP1574	B.1.2	3/31/21	surveillance	99.7	3435	hCoV-19/USA/VSP1574/2021	MZ512606
VSP1575	R.1	3/31/21	surveillance	98.9	5460	hCoV-19/USA/VSP1575/2021	MZ512607
VSP1576	B.1.526	3/31/21	surveillance	99.7	4007	hCoV-19/USA/VSP1576/2021	MZ512608
VSP1577	B.1.2	3/31/21	surveillance	99.7	3027	hCoV-19/USA/VSP1577/2021	MZ512609
VSP1578	B.1.311	3/31/21	surveillance	99.7	1311	hCoV-19/USA/VSP1578/2021	MZ512610
VSP1579	B.1.2	3/31/21	surveillance	99.7	3520	hCoV-19/USA/VSP1579/2021	MZ512611
VSP1580	B.1.1.7	3/31/21	surveillance	99.7	3486	hCoV-19/USA/VSP1580/2021	MZ512612
VSP1581	B.1.637	3/31/21	surveillance	99.3	2002	hCoV-19/USA/VSP1581/2021	MZ512613
VSP1582	B.1.1.519	3/31/21	surveillance	99.7	4939	hCoV-19/USA/VSP1582/2021	MZ512614
VSP1583	B.1.1.7	3/31/21	surveillance	99.7	5156	hCoV-19/USA/VSP1583/2021	MZ512615
VSP1584	B.1.2	3/31/21	surveillance	99.7	5498	hCoV-19/USA/VSP1584/2021	MZ512616
VSP1585	B.1.1.7	3/31/21	surveillance	99.7	4611	hCoV-19/USA/VSP1585/2021	MZ512617
VSP1586	B.1	3/31/21	surveillance	95.7	389	hCoV-19/USA/VSP1586/2021	MZ512618
VSP1587	R.1	3/31/21	surveillance	98.9	3618	hCoV-19/USA/VSP1587/2021	MZ512619
VSP1588	B.1.2	3/31/21	surveillance	99.7	5652	hCoV-19/USA/VSP1588/2021	MZ512620
VSP1589	B.1.2	3/31/21	surveillance	99.7	5249	hCoV-19/USA/VSP1589/2021	MZ512621
VSP1590	B.1.1.7	3/31/21	surveillance	99.7	4834	hCoV-19/USA/VSP1590/2021	MZ512622
VSP1591	B.1.1.7	3/31/21	surveillance	99.7	5256	hCoV-19/USA/VSP1591/2021	MZ512623
VSP1592	B.1.2	3/31/21	surveillance	99.7	4861	hCoV-19/USA/VSP1592/2021	MZ512624
VSP1594	P.1	3/31/21	surveillance	99.7	5406	hCoV-19/USA/VSP1594/2021	MZ512625
VSP1595	B.1.575	3/31/21	surveillance	99.7	5614	hCoV-19/USA/VSP1595/2021	MZ512626
VSP1596	B.1.1.7	3/31/21	surveillance	99.7	5705	hCoV-19/USA/VSP1596/2021	MZ512627
VSP1597	B.1.575	3/31/21	surveillance	99.5	3699	hCoV-19/USA/VSP1597/2021	MZ512628
VSP1598	B.1.243	3/31/21	surveillance	99.6	3865	hCoV-19/USA/VSP1598/2021	MZ512629
VSP1599	B.1.2	3/31/21	surveillance	99.7	5309	hCoV-19/USA/VSP1599/2021	MZ512630
VSP1600	B.1.1.7	3/31/21	surveillance	99.7	4583	hCoV-19/USA/VSP1600/2021	MZ512631
VSP1601	B.1.2	3/31/21	surveillance	99.7	4550	hCoV-19/USA/VSP1601/2021	MZ512632
VSP1602	B.1.1.7	3/31/21	surveillance	99.7	4400	hCoV-19/USA/VSP1602/2021	MZ512633
VSP1603	B.1.1.7	3/31/21	surveillance	99.3	5007	hCoV-19/USA/VSP1603/2021	MZ512634
VSP1604	B.1.526	3/31/21	surveillance	99.4	1634	hCoV-19/USA/VSP1604/2021	MZ512635
VSP1605	B.1.1.7	3/31/21	surveillance	99.7	6208	hCoV-19/USA/VSP1605/2021	MZ512636
VSP1606	B.1.1.7	3/31/21	surveillance	99.2	6614	hCoV-19/USA/VSP1606/2021	MZ512637
VSP1607	B.1.2	3/31/21	surveillance	99.7	5535	hCoV-19/USA/VSP1607/2021	MZ512638
VSP1608	B.1.575	3/31/21	surveillance	99.5	7714	hCoV-19/USA/VSP1608/2021	MZ512639
VSP1609	B.1.637	3/31/21	surveillance	99.7	2472	hCoV-19/USA/VSP1609/2021	MZ512640
VSP1610	B.1.1.519	3/31/21	surveillance	99.7	6531	hCoV-19/USA/VSP1610/2021	MZ512641
VSP1611	B.1.575	3/31/21	surveillance	99.4	3801	hCoV-19/USA/VSP1611/2021	
VSP1612	B.1.1.7	3/31/21	surveillance	99.7	6004	hCoV-19/USA/VSP1612/2021	MZ512642
VSP1613	B.1.243	3/31/21	surveillance	99.7	6381	hCoV-19/USA/VSP1613/2021	MZ512643
VSP1614	B.1.575	3/31/21	surveillance	99.4	5877	hCoV-19/USA/VSP1614/2021	MZ512644

VSP1615	B.1.1.7	3/31/21	surveillance	99.7	5165	hCoV-19/USA/VSP1615/2021	MZ512645
VSP1616	B.1.526	3/31/21	surveillance	99	363	hCoV-19/USA/VSP1616/2021	MZ512646
VSP1617	B.1.526	3/31/21	surveillance	99.7	6009	hCoV-19/USA/VSP1617/2021	MZ512647
VSP1618	B.1.526	3/31/21	surveillance	98.8	5407	hCoV-19/USA/VSP1618/2021	MZ512648
VSP1619	B.1.243	3/31/21	surveillance	99.7	4637	hCoV-19/USA/VSP1619/2021	MZ512649
VSP1620	B.1.1.7	3/31/21	surveillance	99.7	6507	hCoV-19/USA/VSP1620/2021	MZ512650
VSP1621	B.1.1.7	3/31/21	surveillance	99.7	4693	hCoV-19/USA/VSP1621/2021	MZ512651
VSP1622	B.1.1.7	3/31/21	surveillance	99.7	6782	hCoV-19/USA/VSP1622/2021	MZ512652
VSP1623	B.1.2	3/31/21	surveillance	99.7	6332	hCoV-19/USA/VSP1623/2021	MZ512653
VSP1624	R.1	3/31/21	surveillance	99.6	7737	hCoV-19/USA/VSP1624/2021	MZ512654
VSP1625	B.1.623	3/31/21	surveillance	99.6	5940	hCoV-19/USA/VSP1625/2021	MZ512655
VSP1626	B.1.2	3/31/21	surveillance	99.7	5022	hCoV-19/USA/VSP1626/2021	MZ512656
VSP1627	B.1.1.7	3/31/21	surveillance	99.7	4738	hCoV-19/USA/VSP1627/2021	MZ512657
VSP1628	B.1.1.7	3/31/21	surveillance	99.7	4508	hCoV-19/USA/VSP1628/2021	MZ512658
VSP1629	B.1.1.7	3/31/21	surveillance	99.7	3169	hCoV-19/USA/VSP1629/2021	MZ512659
VSP1630	P.1	3/31/21	surveillance	99.7	1709	hCoV-19/USA/VSP1630/2021	MZ512660
VSP1631	B.1.526	3/31/21	surveillance	99.7	4774	hCoV-19/USA/VSP1631/2021	MZ512661
VSP1632	B.1.1.434	3/31/21	surveillance	98.4	792	hCoV-19/USA/VSP1632/2021	
VSP1633	B.1.575	3/31/21	surveillance	99.7	4941	hCoV-19/USA/VSP1633/2021	MZ512662
VSP1634	B.1.526	3/31/21	surveillance	99.7	11610	hCoV-19/USA/VSP1634/2021	MZ512663
VSP1635	B.1.2	3/31/21	surveillance	99.7	4380	hCoV-19/USA/VSP1635/2021	MZ512664
VSP1636	B.1.596	3/31/21	surveillance	99.6	564	hCoV-19/USA/VSP1636/2021	MZ512665
VSP1637	B.1.575	3/31/21	surveillance	99.7	7490	hCoV-19/USA/VSP1637/2021	MZ512666
VSP1638	B.1.2	3/31/21	surveillance	99.7	1998	hCoV-19/USA/VSP1638/2021	MZ512667
VSP1639	B.1.526	3/31/21	surveillance	99.6	486	hCoV-19/USA/VSP1639/2021	MZ512668
VSP1640	B.1.1.7	3/31/21	surveillance	99.7	1094	hCoV-19/USA/VSP1640/2021	MZ512669
VSP1641	B.1.2	3/31/21	surveillance	99.7	1280	hCoV-19/USA/VSP1641/2021	MZ512670
VSP1642	R.1	3/31/21	surveillance	99.7	6403	hCoV-19/USA/VSP1642/2021	MZ512671
VSP1643	B.1.1.519	3/31/21	surveillance	99.7	864	hCoV-19/USA/VSP1643/2021	MZ512672
VSP1644	B.1.526	3/31/21	surveillance	99.7	487	hCoV-19/USA/VSP1644/2021	MZ512673
VSP1645	B.1.1.519	3/31/21	surveillance	99.7	575	hCoV-19/USA/VSP1645/2021	MZ512674
VSP1646	B.1.1.7	3/31/21	surveillance	99.7	4304	hCoV-19/USA/VSP1646/2021	MZ512675
VSP1647	B.1.526	3/31/21	surveillance	99.7	1295	hCoV-19/USA/VSP1647/2021	MZ512676
VSP1648	B.1.1.7	3/31/21	surveillance	99.7	370	hCoV-19/USA/VSP1648/2021	MZ512677
VSP1649	B.1.1.7	3/31/21	surveillance	99.6	286	hCoV-19/USA/VSP1649/2021	MZ512678
VSP1650	B.1.1.7	3/31/21	surveillance	99.7	400	hCoV-19/USA/VSP1650/2021	MZ512679
VSP1651	B.1.1.519	3/31/21	surveillance	99.5	198	hCoV-19/USA/VSP1651/2021	MZ512680
VSP1652	B.1.526	3/31/21	surveillance	99.7	300	hCoV-19/USA/VSP1652/2021	MZ512681
VSP1653	B.1.234	3/31/21	surveillance	99.6	433	hCoV-19/USA/VSP1653/2021	MZ512682
VSP1654	B.1.1.519	3/31/21	surveillance	99.7	3324	hCoV-19/USA/VSP1654/2021	MZ512683
VSP1655	B.1.575	3/31/21	surveillance	99.7	783	hCoV-19/USA/VSP1655/2021	MZ512684
VSP1656	B.1.526	3/31/21	surveillance	99.3	120	hCoV-19/USA/VSP1656/2021	MZ512685
VSP1657	B.1.1.7	3/31/21	surveillance	99.7	2756	hCoV-19/USA/VSP1657/2021	MZ512686
VSP1658	B.1.1.7	3/31/21	surveillance	99.7	400	hCoV-19/USA/VSP1658/2021	MZ512687
VSP1659	B.1.526	3/31/21	surveillance	99.7	2361	hCoV-19/USA/VSP1659/2021	MZ512688
VSP1660	B.1.588	3/31/21	surveillance	99.5	1133	hCoV-19/USA/VSP1660/2021	MZ512689
VSP1661	B.1.1.519	3/31/21	surveillance	99.7	4758	hCoV-19/USA/VSP1661/2021	MZ512690

VSP1662	B.1.1.7	3/31/21	surveillance	99.6	480	hCoV-19/USA/VSP1662/2021	MZ512691
VSP1663	B.1.2	3/31/21	surveillance	99.3	117	hCoV-19/USA/VSP1663/2021	MZ512692
VSP1664	B.1.1.7	3/31/21	surveillance	99.5	290	hCoV-19/USA/VSP1664/2021	MZ512693
VSP1665	B.1.526	3/31/21	surveillance	99.7	1637	hCoV-19/USA/VSP1665/2021	MZ512694
VSP1666	B.1.575	3/31/21	surveillance	99.7	1239	hCoV-19/USA/VSP1666/2021	MZ512695
VSP1667	B.1.526	3/31/21	surveillance	99.7	482	hCoV-19/USA/VSP1667/2021	MZ512696
VSP1668	B.1.1.7	3/31/21	surveillance	99.7	3403	hCoV-19/USA/VSP1668/2021	MZ512697
VSP1669	B.1.1.7	3/31/21	surveillance	99.6	194	hCoV-19/USA/VSP1669/2021	MZ512698
VSP1670	B.1.1.7	3/31/21	surveillance	99.7	317	hCoV-19/USA/VSP1670/2021	MZ512699
VSP1671	B.1.526	3/31/21	surveillance	99.7	2108	hCoV-19/USA/VSP1671/2021	MZ512700
VSP1672	P.1.10	3/31/21	surveillance	99.6	264	hCoV-19/USA/VSP1672/2021	MZ512701
VSP1673	B.1.1.7	3/31/21	surveillance	99.7	3217	hCoV-19/USA/VSP1673/2021	MZ512702
VSP1674	B.1.526	3/31/21	surveillance	99.1	9195	hCoV-19/USA/VSP1674/2021	MZ512703
VSP1675	B.1.526	3/31/21	surveillance	99.7	2260	hCoV-19/USA/VSP1675/2021	MZ512704
VSP1676	B.1.526	3/31/21	surveillance	99.7	1106	hCoV-19/USA/VSP1676/2021	MZ512705
VSP1677	B.1.526	3/31/21	surveillance	99.6	938	hCoV-19/USA/VSP1677/2021	MZ512706
VSP1678	B.1.526	3/31/21	surveillance	98.9	159	hCoV-19/USA/VSP1678/2021	MZ512707
VSP1679	B.1.526	3/31/21	surveillance	99.7	2074	hCoV-19/USA/VSP1679/2021	MZ512708
VSP1680	B.1.2	3/31/21	surveillance	99.7	8549	hCoV-19/USA/VSP1680/2021	MZ512709
VSP1681	B.1.1.519	3/31/21	surveillance	99.7	473	hCoV-19/USA/VSP1681/2021	MZ512710
VSP1683	B.1.1.7	3/31/21	surveillance	99.7	2775	hCoV-19/USA/VSP1683/2021	MZ512711
VSP1684	B.1.637	3/31/21	surveillance	99.7	3133	hCoV-19/USA/VSP1684/2021	MZ512712
VSP1685	B.1.1.7	3/31/21	surveillance	99.7	615	hCoV-19/USA/VSP1685/2021	MZ512713
VSP1686	B.1.1.7	3/31/21	surveillance	99.7	1200	hCoV-19/USA/VSP1686/2021	MZ512714
VSP1687	B.1.526	3/31/21	surveillance	99.6	497	hCoV-19/USA/VSP1687/2021	MZ512715
VSP1688	B.1.526	3/31/21	surveillance	99.7	5578	hCoV-19/USA/VSP1688/2021	MZ512716
VSP1689	B.1.1.7	3/31/21	surveillance	99.7	1737	hCoV-19/USA/VSP1689/2021	MZ512717
VSP1690	B.1.526	3/31/21	surveillance	99.7	729	hCoV-19/USA/VSP1690/2021	MZ512718
VSP1691	B.1.1.7	3/31/21	surveillance	99.7	17752	hCoV-19/USA/VSP1691/2021	MZ512719
VSP1692	B.1.1.7	3/31/21	surveillance	99.6	462	hCoV-19/USA/VSP1692/2021	MZ512720
VSP1693	B.1.526	3/31/21	surveillance	99.7	3653	hCoV-19/USA/VSP1693/2021	MZ512721
VSP1695	B.1.1.7	3/31/21	surveillance	99.7	5356	hCoV-19/USA/VSP1695/2021	MZ512722
VSP1696	B.1.1.519	3/31/21	surveillance	99.7	4405	hCoV-19/USA/VSP1696/2021	MZ512723
VSP1697	B.1.526	3/31/21	surveillance	99.7	3351	hCoV-19/USA/VSP1697/2021	MZ512724
VSP1698	B.1.526	3/31/21	surveillance	99.7	1907	hCoV-19/USA/VSP1698/2021	MZ512725
VSP1699	B.1.1.519	3/31/21	surveillance	99.7	8812	hCoV-19/USA/VSP1699/2021	MZ512726
VSP1700	B.1.526	3/31/21	surveillance	99.7	12498	hCoV-19/USA/VSP1700/2021	MZ512727
VSP1701	B.1.1.7	3/31/21	surveillance	99.7	3592	hCoV-19/USA/VSP1701/2021	MZ512728
VSP1702	B.1.1.7	3/31/21	surveillance	99.7	1037	hCoV-19/USA/VSP1702/2021	MZ512729
VSP1703	B.1.243	3/31/21	surveillance	99.1	6070	hCoV-19/USA/VSP1703/2021	MZ512730
VSP1704	B.1.2	3/31/21	surveillance	99.7	630	hCoV-19/USA/VSP1704/2021	MZ512731
VSP1705	B.1.1.7	3/31/21	surveillance	99.7	5918	hCoV-19/USA/VSP1705/2021	MZ512732
VSP1706	B.1.1.7	3/31/21	surveillance	99.7	803	hCoV-19/USA/VSP1706/2021	MZ512733
VSP1707	B.1.1.7	3/31/21	surveillance	99.7	1171	hCoV-19/USA/VSP1707/2021	MZ512734
VSP1708	B.1.526	3/31/21	surveillance	97.8	2276	hCoV-19/USA/VSP1708/2021	MZ512735
VSP1709	B.1.637	3/31/21	surveillance	98.9	362	hCoV-19/USA/VSP1709/2021	MZ512736
VSP1710	B.1.1.519	3/31/21	surveillance	99.7	5507	hCoV-19/USA/VSP1710/2021	MZ512737

VSP1711	B.1.526	3/31/21	surveillance	99.7	4793	hCoV-19/USA/VSP1711/2021	MZ512738
VSP1712	B.1.526	3/31/21	surveillance	99.7	658	hCoV-19/USA/VSP1712/2021	MZ512739
VSP1713	B.1.526	3/31/21	surveillance	99.7	4171	hCoV-19/USA/VSP1713/2021	MZ512740
VSP1714	B.1.526	3/31/21	surveillance	99.7	4457	hCoV-19/USA/VSP1714/2021	MZ512741
VSP1715	B.1.2	3/31/21	surveillance	99.7	2311	hCoV-19/USA/VSP1715/2021	MZ512742
VSP1716	B.1.234	3/31/21	surveillance	99.7	423	hCoV-19/USA/VSP1716/2021	MZ512743
VSP1717	B.1.1.519	3/31/21	surveillance	99.7	11856	hCoV-19/USA/VSP1717/2021	MZ512744
VSP1718	B.1.526	3/31/21	surveillance	99.6	404	hCoV-19/USA/VSP1718/2021	MZ512745
VSP1719	B.1.526	3/31/21	surveillance	99.7	7563	hCoV-19/USA/VSP1719/2021	MZ512746
VSP1721	B.1.1.7	3/31/21	hospitalized	97.6	719	hCoV-19/USA/PA-VSP1721/2021	OK245941
VSP1738	B.1.1.7	4/5/21	s drop	99.7	3681	hCoV-19/USA/PA-VSP1738/2021	OK245942
VSP1739	B.1.1.7	4/5/21	s drop	99.7	3065	hCoV-19/USA/PA-VSP1739/2021	OK245943
VSP1740	B.1.1.7	4/5/21	s drop	99.7	1905	hCoV-19/USA/PA-VSP1740/2021	OK245944
VSP1741	B.1.1.7	4/5/21	s drop	99.7	2105	hCoV-19/USA/PA-VSP1741/2021	OK245945
VSP1742	B.1.1.7	4/5/21	s drop	99.7	1845	hCoV-19/USA/PA-VSP1742/2021	MZ156658
VSP1743	B.1.1.7	4/5/21	s drop	99.7	2540	hCoV-19/USA/PA-VSP1743/2021	MZ156659
VSP1744	B.1.1.7	4/5/21	s drop	99.7	2240	hCoV-19/USA/NJ-VSP1744/2021	MZ156660
VSP1746	B.1.1.7	4/5/21	s drop	99.7	2647	hCoV-19/USA/NJ-VSP1746/2021	MZ156661
VSP1748	B.1.1.7	4/5/21	s drop	99.7	2321	hCoV-19/USA/PA-VSP1748/2021	MZ156662
VSP1749	B.1.1.7	4/5/21	s drop	99.7	2601	hCoV-19/USA/PA-VSP1749/2021	MZ156663
VSP1750	B.1.1.7	4/5/21	s drop	99.7	2410	hCoV-19/USA/PA-VSP1750/2021	MZ156664
VSP1751	B.1.1.7	4/5/21	s drop	99.7	2239	hCoV-19/USA/PA-VSP1751/2021	MZ156665
VSP1752	B.1.1.7	4/5/21	s drop	99.7	2034	hCoV-19/USA/PA-VSP1752/2021	MZ156666
VSP1755	B.1.1.7	4/5/21	s drop	99.7	2404	hCoV-19/USA/PA-VSP1755/2021	MZ156667
VSP1756	B.1.1.7	4/5/21	s drop	97.9	2258	hCoV-19/USA/PA-VSP1756/2021	MZ156668
VSP1758	B.1.1.7	4/5/21	s drop	96.6	1472	hCoV-19/USA/DE-VSP1758/2021	
VSP1760	B.1.1.7	4/5/21	s drop	99.2	2377	hCoV-19/USA/PA-VSP1760/2021	MZ156669
VSP1761	B.1.1.7	4/5/21	s drop	99.7	1980	hCoV-19/USA/PA-VSP1761/2021	MZ156670
VSP1762	B.1.1.7	4/5/21	s drop	99.7	1611	hCoV-19/USA/PA-VSP1762/2021	MZ156671
VSP1764	B.1.1.7	4/5/21	s drop	99.7	1642	hCoV-19/USA/PA-VSP1764/2021	MZ156672
VSP1765	B.1.1.7	4/5/21	s drop	99.7	2535	hCoV-19/USA/PA-VSP1765/2021	MZ156673
VSP1766	B.1.1.7	4/5/21	s drop	99.7	1916	hCoV-19/USA/PA-VSP1766/2021	MZ156674
VSP1767	B.1.1.7	4/5/21	s drop	99.7	2038	hCoV-19/USA/PA-VSP1767/2021	MZ156675
VSP1768	B.1.1.7	4/5/21	s drop	99.7	1936	hCoV-19/USA/PA-VSP1768/2021	MZ156676
VSP1769	B.1.1.7	4/5/21	s drop	99.7	1542	hCoV-19/USA/PA-VSP1769/2021	MZ156677
VSP1770	B.1.1.7	4/5/21	s drop	99.7	1847	hCoV-19/USA/PA-VSP1770/2021	MZ156678
VSP1771	B.1.1.7	4/5/21	s drop	99.7	1383	hCoV-19/USA/PA-VSP1771/2021	MZ156679
VSP1772	B.1.1.7	4/5/21	s drop	99.7	2332	hCoV-19/USA/PA-VSP1772/2021	MZ156680
VSP1773	B.1.1.7	4/5/21	s drop	99.7	2034	hCoV-19/USA/PA-VSP1773/2021	MZ156681
VSP1774	B.1.1.7	4/5/21	s drop	99.7	1861	hCoV-19/USA/PA-VSP1774/2021	MZ156682
VSP1775	B.1.1.7	4/5/21	s drop	99.7	1785	hCoV-19/USA/PA-VSP1775/2021	MZ156683
VSP1776	B.1.1.7	4/5/21	s drop	99.7	1913	hCoV-19/USA/PA-VSP1776/2021	MZ156684
VSP1777	B.1.1.7	4/5/21	s drop	99.7	2938	hCoV-19/USA/PA-VSP1777/2021	MZ156685
VSP1778	B.1.1.7	4/5/21	s drop	99.7	1518	hCoV-19/USA/PA-VSP1778/2021	MZ156686
VSP1779	B.1.1.7	4/5/21	s drop	99.7	2394	hCoV-19/USA/PA-VSP1779/2021	MZ156687
VSP1780	B.1.575	4/5/21	surveillance	99.7	2431	hCoV-19/USA/PA-VSP1780/2021	MZ156688
VSP1781	B.1.637	4/5/21	surveillance	98.9	1119	hCoV-19/USA/PA-VSP1781/2021	MZ156689

VSP1782	B.1.526	4/5/21	surveillance	99.7	2205	hCoV-19/USA/PA-VSP1782/2021	MZ156690
VSP1783	B.1.526	4/5/21	surveillance	99.7	2377	hCoV-19/USA/PA-VSP1783/2021	MZ156691
VSP1784	B.1.575	4/5/21	surveillance	99.7	1962	hCoV-19/USA/PA-VSP1784/2021	MZ156692
VSP1785	B.1.526	4/5/21	surveillance	99.7	1783	hCoV-19/USA/PA-VSP1785/2021	MZ156693
VSP1786	R.1	4/5/21	surveillance	99.7	2070	hCoV-19/USA/PA-VSP1786/2021	MZ156694
VSP1787	B.1.637	4/5/21	surveillance	99.6	160	hCoV-19/USA/VSP1787/2021	MZ512747
VSP1788	B.1.2	4/5/21	surveillance	99.6	219	hCoV-19/USA/VSP1788/2021	MZ512748
VSP1789	B.1.526	4/5/21	surveillance	99.7	198	hCoV-19/USA/VSP1789/2021	MZ512749
VSP1791	B.1.526	4/5/21	surveillance	95.8	45	hCoV-19/USA/VSP1791/2021	MZ512750
VSP1792	B.1.575	4/5/21	surveillance	96	66	hCoV-19/USA/VSP1792/2021	MZ512751
VSP1793	B.1.1.7	4/5/21	surveillance	99.5	192	hCoV-19/USA/VSP1793/2021	MZ512752
VSP1794	B.1.429	4/5/21	surveillance	99.6	236	hCoV-19/USA/VSP1794/2021	MZ512753
VSP1797	B.1.2	4/5/21	surveillance	99.5	183	hCoV-19/USA/VSP1797/2021	MZ512754
VSP1798	B.1.2	4/5/21	surveillance	99.6	116	hCoV-19/USA/VSP1798/2021	MZ512755
VSP1799	B.1.243	4/5/21	surveillance	98.1	258	hCoV-19/USA/VSP1799/2021	MZ512756
VSP1800	B.1.2	4/5/21	surveillance	96.4	30	hCoV-19/USA/VSP1800/2021	MZ512757
VSP1801	B.1.1.7	4/5/21	surveillance	99	111	hCoV-19/USA/VSP1801/2021	MZ512758
VSP1802	B.1.2	4/5/21	surveillance	99.5	57	hCoV-19/USA/VSP1802/2021	MZ512759
VSP1803	B.1.1.519	4/5/21	surveillance	99.7	165	hCoV-19/USA/VSP1803/2021	MZ512760
VSP1804	B.1.1.7	4/5/21	surveillance	99.6	208	hCoV-19/USA/VSP1804/2021	MZ512761
VSP1805	B.1.1.7	4/5/21	surveillance	99.6	228	hCoV-19/USA/VSP1805/2021	MZ512762
VSP1806	B.1.1.7	4/5/21	surveillance	96.7	46	hCoV-19/USA/VSP1806/2021	MZ512763
VSP1807	B.1.637	4/5/21	surveillance	96.9	66	hCoV-19/USA/VSP1807/2021	MZ512764
VSP1808	B.1.1.7	4/5/21	surveillance	96.8	64	hCoV-19/USA/VSP1808/2021	MZ512765
VSP1810	B.1.351	4/5/21	surveillance	99	227	hCoV-19/USA/VSP1810/2021	MZ512766
VSP1811	B.1.1.7	4/5/21	surveillance	99.3	216	hCoV-19/USA/VSP1811/2021	MZ512767
VSP1812	B.1.526	4/5/21	surveillance	98.9	123	hCoV-19/USA/VSP1812/2021	MZ512768
VSP1813	B.1.1.7	4/5/21	surveillance	96.5	60	hCoV-19/USA/VSP1813/2021	MZ512769
VSP1815	R.1	4/5/21	surveillance	96	48	hCoV-19/USA/VSP1815/2021	MZ512770
VSP1816	B.1.526	4/5/21	surveillance	99.2	166	hCoV-19/USA/VSP1816/2021	MZ512771
VSP1818	B.1.526	4/5/21	surveillance	99.6	252	hCoV-19/USA/VSP1818/2021	MZ512772
VSP1819	B.1.1.7	4/5/21	surveillance	98.6	153	hCoV-19/USA/VSP1819/2021	MZ512773
VSP1820	B.1.1.7	4/5/21	surveillance	99.3	202	hCoV-19/USA/VSP1820/2021	MZ512774
VSP1821	B.1.2	4/5/21	surveillance	99.6	204	hCoV-19/USA/VSP1821/2021	MZ512775
VSP1822	B.1.526	4/5/21	surveillance	98.6	98	hCoV-19/USA/VSP1822/2021	MZ512776
VSP1823	B.1.2	4/5/21	surveillance	99.6	214	hCoV-19/USA/VSP1823/2021	MZ512777
VSP1824	B.1.1.7	4/5/21	surveillance	99.3	149	hCoV-19/USA/VSP1824/2021	MZ512778
VSP1825	B.1.1.7	4/5/21	surveillance	99.5	144	hCoV-19/USA/VSP1825/2021	MZ512779
VSP1827	B.1.1.7	4/5/21	surveillance	99.5	211	hCoV-19/USA/VSP1827/2021	MZ512780
VSP1828	B.1.110.3	4/5/21	surveillance	95.9	51	hCoV-19/USA/VSP1828/2021	MZ512781
VSP1830	B.1.1.7	4/5/21	surveillance	99.3	162	hCoV-19/USA/VSP1830/2021	MZ512782
VSP1832	B.1.2	4/5/21	surveillance	99.7	7417	hCoV-19/USA/VSP1832/2021	MZ512783
VSP1833	B.1.311	4/5/21	surveillance	99.7	10172	hCoV-19/USA/VSP1833/2021	MZ512784
VSP1834	B.1.1.7	4/5/21	surveillance	99.7	5496	hCoV-19/USA/VSP1834/2021	MZ512785
VSP1835	B.1.526	4/5/21	surveillance	99.7	6898	hCoV-19/USA/VSP1835/2021	MZ512786
VSP1836	B.1.1.7	4/5/21	surveillance	99.7	624	hCoV-19/USA/VSP1836/2021	MZ512787
VSP1837	B.1.526	4/5/21	surveillance	99.7	21704	hCoV-19/USA/VSP1837/2021	MZ512788

VSP1838	P.1	4/5/21	surveillance	99.7	11479	hCoV-19/USA/VSP1838/2021	MZ512789
VSP1839	B.1.1.7	4/5/21	surveillance	99.7	450	hCoV-19/USA/VSP1839/2021	MZ512790
VSP1840	B.1.526	4/5/21	surveillance	99.1	989	hCoV-19/USA/DE-VSP1840/2021	OK245946
VSP1841	B.1.1.7	4/5/21	surveillance	99.7	2109	hCoV-19/USA/PA-VSP1841/2021	OK245947
VSP1842	B.1.637	4/5/21	surveillance	99.6	1507	hCoV-19/USA/NJ-VSP1842/2021	OK245948
VSP1843	B.1.526	4/5/21	surveillance	99.7	2045	hCoV-19/USA/PA-VSP1843/2021	OK245949
VSP1844	B.1.351	4/5/21	surveillance	98.6	1206	hCoV-19/USA/PA-VSP1844/2021	OK245950
VSP1845	B.1.1.7	4/5/21	surveillance	99.7	3077	hCoV-19/USA/PA-VSP1845/2021	OK245951
VSP1846	B.1.1.7	4/5/21	surveillance	99.7	1321	hCoV-19/USA/PA-VSP1846/2021	OK245952
VSP1847	B.1.1.7	4/5/21	surveillance	99.7	2081	hCoV-19/USA/PA-VSP1847/2021	OK245953
VSP1848	B.1.1.7	4/5/21	surveillance	99.7	4055	hCoV-19/USA/PA-VSP1848/2021	OK245954
VSP1849	B.1.1.7	4/5/21	surveillance	99.7	2201	hCoV-19/USA/PA-VSP1849/2021	OK245955
VSP1850	B.1.1.7	4/5/21	surveillance	99.7	1987	hCoV-19/USA/PA-VSP1850/2021	OK245956
VSP1851	B.1.1.7	4/5/21	surveillance	99.1	524	hCoV-19/USA/PA-VSP1851/2021	OK245957
VSP1852	B.1.1.7	4/5/21	surveillance	99.7	1360	hCoV-19/USA/PA-VSP1852/2021	OK245958
VSP1853	B.1.526	4/5/21	surveillance	99.5	1753	hCoV-19/USA/PA-VSP1853/2021	OK245959
VSP1854	B.1.1.7	4/5/21	surveillance	99.1	406	hCoV-19/USA/PA-VSP1854/2021	OK245960
VSP1855	B.1.526	4/5/21	surveillance	95.3	77	hCoV-19/USA/PA-VSP1855/2021	OK245961
VSP1856	B.1.526	4/5/21	surveillance	99.6	1997	hCoV-19/USA/PA-VSP1856/2021	OK245962
VSP1857	B.1.1.7	4/5/21	surveillance	99.5	2176	hCoV-19/USA/PA-VSP1857/2021	OK245963
VSP1858	B.1.1.7	4/5/21	surveillance	99.5	1491	hCoV-19/USA/PA-VSP1858/2021	OK245964
VSP1859	B.1.526	4/5/21	surveillance	99.6	1858	hCoV-19/USA/PA-VSP1859/2021	OK245965
VSP1860	B.1.1.7	4/5/21	surveillance	99.7	2911	hCoV-19/USA/PA-VSP1860/2021	OK245966
VSP1861	B.1.1.7	4/5/21	surveillance	99.7	2509	hCoV-19/USA/PA-VSP1861/2021	OK245967
VSP1862	B.1.1.7	4/5/21	surveillance	98.2	233	hCoV-19/USA/PA-VSP1862/2021	OK245968
VSP1863	B.1.526	4/5/21	surveillance	97.6	252	hCoV-19/USA/PA-VSP1863/2021	OK245969
VSP1864	B.1.526	4/5/21	surveillance	99.7	2582	hCoV-19/USA/PA-VSP1864/2021	OK245970
VSP1865	B.1.637	4/5/21	surveillance	99.1	557	hCoV-19/USA/PA-VSP1865/2021	OK245971
VSP1866	B.1.526	4/5/21	surveillance	99.2	1543	hCoV-19/USA/PA-VSP1866/2021	OK245972
VSP1867	B.1.243	4/5/21	surveillance	99.7	889	hCoV-19/USA/PA-VSP1867/2021	OK245973
VSP1868	B.1.1.7	4/5/21	surveillance	99.7	1702	hCoV-19/USA/NJ-VSP1868/2021	OK245974
VSP1869	B.1.526	4/5/21	surveillance	99.6	849	hCoV-19/USA/NJ-VSP1869/2021	OK245975
VSP1870	B.1.1.7	4/5/21	surveillance	99.7	1046	hCoV-19/USA/NJ-VSP1870/2021	OK245976
VSP1871	B.1.1.7	4/5/21	surveillance	99.7	1481	hCoV-19/USA/NJ-VSP1871/2021	OK245977
VSP1872	B.1.526	4/5/21	surveillance	99.7	1015	hCoV-19/USA/NJ-VSP1872/2021	OK245978
VSP1873	B.1.1.7	4/5/21	surveillance	97.7	148	hCoV-19/USA/NJ-VSP1873/2021	OK245979
VSP1874	B.1.526	4/5/21	surveillance	99	251	hCoV-19/USA/NJ-VSP1874/2021	OK245980
VSP1875	B.1.1.7	4/5/21	surveillance	97.5	162	hCoV-19/USA/NJ-VSP1875/2021	OK245981
VSP1876	B.1.526	4/5/21	surveillance	99.7	1830	hCoV-19/USA/NJ-VSP1876/2021	OK245982
VSP1877	B.1.243	4/5/21	surveillance	99.7	9999	hCoV-19/USA/PA-VSP1877/2021	MZ156695
VSP1878	B.1.1.7	4/5/21	surveillance	99.7	8219	hCoV-19/USA/PA-VSP1878/2021	MZ156696
VSP1879	B.1.637	4/5/21	surveillance	99.7	8699	hCoV-19/USA/PA-VSP1879/2021	MZ156697
VSP1880	P.1	4/5/21	surveillance	99.7	8772	hCoV-19/USA/PA-VSP1880/2021	MZ156698
VSP1881	B.1.1.7	4/5/21	surveillance	99.7	8284	hCoV-19/USA/PA-VSP1881/2021	MZ156699
VSP1882	B.1.526	4/5/21	surveillance	99.7	10154	hCoV-19/USA/PA-VSP1882/2021	MZ156700
VSP1883	B.1.526	4/5/21	surveillance	99.7	8817	hCoV-19/USA/PA-VSP1883/2021	MZ156701
VSP1884	B.1.1.7	4/5/21	surveillance	99.7	10616	hCoV-19/USA/PA-VSP1884/2021	MZ156702

VSP1885	B.1.111	4/5/21	surveillance	99.7	9357	hCoV-19/USA/PA-VSP1885/2021	MZ156703
VSP1886	B.1.111	4/5/21	surveillance	99.7	7339	hCoV-19/USA/PA-VSP1886/2021	MZ156704
VSP1887	B.1.1.519	4/5/21	surveillance	99.7	8768	hCoV-19/USA/PA-VSP1887/2021	MZ156705
VSP1888	P.1	4/5/21	surveillance	99.7	9197	hCoV-19/USA/PA-VSP1888/2021	MZ156706
VSP1889	B.1.1.7	4/5/21	surveillance	99.7	9678	hCoV-19/USA/PA-VSP1889/2021	MZ156707
VSP1890	B.1.1.7	4/5/21	surveillance	99.7	9178	hCoV-19/USA/NJ-VSP1890/2021	MZ156708
VSP1891	B.1.1.7	4/5/21	surveillance	99.7	10319	hCoV-19/USA/PA-VSP1891/2021	MZ156709
VSP1892	B.1.1.7	4/5/21	surveillance	99.7	4912	hCoV-19/USA/NY-VSP1892/2021	MZ156710
VSP1893	B.1.526	4/5/21	surveillance	99.7	6143	hCoV-19/USA/PA-VSP1893/2021	MZ156711
VSP1894	B.1.234	4/5/21	surveillance	99.7	6969	hCoV-19/USA/PA-VSP1894/2021	MZ156712
VSP1895	B.1.1.7	4/5/21	surveillance	99.7	9740	hCoV-19/USA/NJ-VSP1895/2021	MZ156713
VSP1897	B.1.1.7	4/5/21	surveillance	99.7	5426	hCoV-19/USA/PA-VSP1897/2021	MZ156714
VSP1898	B.1.1.7	4/5/21	surveillance	99.7	8841	hCoV-19/USA/PA-VSP1898/2021	MZ156715
VSP1899	B.1.1.7	4/5/21	surveillance	99.7	7107	hCoV-19/USA/PA-VSP1899/2021	MZ156716
VSP1900	B.1.1.7	4/5/21	surveillance	99.7	7322	hCoV-19/USA/PA-VSP1900/2021	MZ156717
VSP1901	P.1.10	4/5/21	surveillance	99.7	4248	hCoV-19/USA/PA-VSP1901/2021	MZ156718
VSP1902	B.1.1.7	4/5/21	surveillance	99.7	8371	hCoV-19/USA/PA-VSP1902/2021	MZ156719
VSP1903	B.1.1.7	4/5/21	surveillance	98.4	260	hCoV-19/USA/PA-VSP1903/2021	MZ156720
VSP1906	B.1.526	4/5/21	surveillance	99.7	8563	hCoV-19/USA/PA-VSP1906/2021	MZ156722
VSP1907	R.1	4/5/21	surveillance	99.7	7977	hCoV-19/USA/PA-VSP1907/2021	MZ156723
VSP1908	B.1.526	4/5/21	surveillance	99.7	6786	hCoV-19/USA/PA-VSP1908/2021	MZ156724
VSP1909	B.1.429	4/5/21	surveillance	99.7	2127	hCoV-19/USA/PA-VSP1909/2021	MZ156725
VSP1910	B.1.526	4/5/21	surveillance	99.7	7944	hCoV-19/USA/PA-VSP1910/2021	MZ156726
VSP1911	B.1.1.7	4/5/21	surveillance	99.7	7038	hCoV-19/USA/PA-VSP1911/2021	MZ156727
VSP1912	B.1.111	4/5/21	surveillance	99.7	8535	hCoV-19/USA/PA-VSP1912/2021	MZ156728
VSP1913	B.1.243	4/5/21	surveillance	99.7	9482	hCoV-19/USA/PA-VSP1913/2021	MZ156729
VSP1914	B.1.1.7	4/5/21	surveillance	99.7	7868	hCoV-19/USA/PA-VSP1914/2021	MZ156730
VSP1915	B.1.1.519	4/5/21	surveillance	99.3	2629	hCoV-19/USA/PA-VSP1915/2021	
VSP1916	B.1.1.7	4/5/21	surveillance	99.7	8306	hCoV-19/USA/PA-VSP1916/2021	OK245983
VSP1917	B.1.526	4/5/21	surveillance	96.6	2688	hCoV-19/USA/PA-VSP1917/2021	MZ156731
VSP1918	B.1.526	4/5/21	surveillance	99.7	6519	hCoV-19/USA/PA-VSP1918/2021	MZ156732
VSP1919	B.1.526	4/5/21	surveillance	99.7	4267	hCoV-19/USA/PA-VSP1919/2021	MZ156733
VSP1922	P.1	4/5/21	surveillance	99.7	6972	hCoV-19/USA/PA-VSP1922/2021	MZ156735
VSP1923	B.1.429	4/5/21	surveillance	99.1	1176	hCoV-19/USA/PA-VSP1923/2021	OK245984
VSP1924	B.1.637	4/5/21	surveillance	99.7	5342	hCoV-19/USA/PA-VSP1924/2021	MZ156736
VSP1934	B.1.1.7	4/5/21	surveillance	99.3	3893	hCoV-19/USA/VA-VSP1934/2021	MZ156737
VSP1935	B.1.526	4/5/21	surveillance	99.7	4442	hCoV-19/USA/PA-VSP1935/2021	MZ156738
VSP1936	B.1.243	4/5/21	surveillance	99.7	4644	hCoV-19/USA/PA-VSP1936/2021	MZ156739
VSP1937	B.1.1.7	4/5/21	surveillance	99.7	5423	hCoV-19/USA/PA-VSP1937/2021	MZ156740
VSP1943	B.1.1.7	4/5/21	surveillance	96.5	141	hCoV-19/USA/PA-VSP1943/2021	MZ156741
VSP1945	B.1.637	4/5/21	surveillance	97.8	264	hCoV-19/USA/NJ-VSP1945/2021	MZ156742
VSP1946	B.1.111	4/5/21	surveillance	99.7	5888	hCoV-19/USA/PA-VSP1946/2021	MZ156743
VSP1947	B.1.1.7	4/5/21	surveillance	99.1	3578	hCoV-19/USA/PA-VSP1947/2021	MZ156744
VSP1948	P.1	4/5/21	surveillance	99.7	1617	hCoV-19/USA/PA-VSP1948/2021	MZ156745
VSP1949	B.1.1.7	4/5/21	surveillance	99.1	4040	hCoV-19/USA/PA-VSP1949/2021	MZ156746
VSP1952	B.1.2	4/5/21	surveillance	99.1	3924	hCoV-19/USA/PA-VSP1952/2021	MZ156747
VSP1953	B.1.526	4/5/21	surveillance	99.1	1872	hCoV-19/USA/PA-VSP1953/2021	MZ156748

VSP1955	B.1.526	4/5/21	surveillance	99	1265	hCoV-19/USA/PA-VSP1955/2021	MZ156749
VSP1957	B.1.526	4/5/21	surveillance	99.1	3519	hCoV-19/USA/PA-VSP1957/2021	MZ156750
VSP1960	B.1.526	4/5/21	surveillance	99.1	2457	hCoV-19/USA/NJ-VSP1960/2021	MZ156751
VSP1961	B.1.526	4/5/21	surveillance	99.7	2330	hCoV-19/USA/PA-VSP1961/2021	MZ156752
VSP1963	B.1.2	4/5/21	surveillance	99.1	429	hCoV-19/USA/PA-VSP1963/2021	MZ156753
VSP1965	B.1.1.7	4/5/21	surveillance	99.1	2033	hCoV-19/USA/PA-VSP1965/2021	MZ156754
VSP1966	B.1.526	4/5/21	surveillance	96.7	1787	hCoV-19/USA/PA-VSP1966/2021	MZ156755
VSP1969	B.1.429	4/5/21	surveillance	99.7	3735	hCoV-19/USA/PA-VSP1969/2021	OK245985
VSP1970	B.1.596	4/5/21	surveillance	99.7	2936	hCoV-19/USA/PA-VSP1970/2021	OK245986
VSP1971	B.1.526	4/5/21	surveillance	99.7	3087	hCoV-19/USA/PA-VSP1971/2021	OK245987
VSP1972	B.1.526	4/5/21	surveillance	99.7	3054	hCoV-19/USA/PA-VSP1972/2021	OK245988
VSP1980	None	4/10/21	hospitalized	99.7	2810	hCoV-19/USA/PA-VSP1980/2021	OK245989
VSP1983	B.1.1.7	4/12/21	hospitalized	99.7	1772	hCoV-19/USA/PA-VSP1983/2021	OK245990
VSP1989	B.1.1.7	4/16/21	hospitalized	99.7	3363	hCoV-19/USA/PA-VSP1989/2021	OK245991
VSP1996	B.1.1.7	4/19/21	hospitalized	95.4	76	hCoV-19/USA/PA-VSP1996/2021	OK245992
VSP1999	B.1.1.7	4/12/21	accine breakthroug	99.7	3732	hCoV-19/USA/PA-VSP1999/2021	OK245993
VSP2000	B.1.1.7	4/12/21	accine breakthroug	99.7	3000	hCoV-19/USA/PA-VSP2000/2021	OK245994
VSP2003	B.1.575	4/12/21	surveillance	99.7	3829	hCoV-19/USA/PA-VSP2003/2021	OK245997
VSP2004	B.1.526	4/12/21	surveillance	99.7	2955	hCoV-19/USA/PA-VSP2004/2021	OK245998
VSP2005	B.1.2	4/12/21	surveillance	99.7	4067	hCoV-19/USA/PA-VSP2005/2021	OK245999
VSP2006	B.1.1.7	4/12/21	surveillance	99.7	3908	hCoV-19/USA/PA-VSP2006/2021	OK246000
VSP2007	B.1.1.7	4/12/21	surveillance	99.6	2424	hCoV-19/USA/PA-VSP2007/2021	OK246001
VSP2008	B.1.1.7	4/12/21	surveillance	99.7	3711	hCoV-19/USA/PA-VSP2008/2021	OK246002
VSP2009	B.1.1.7	4/12/21	surveillance	99.7	2379	hCoV-19/USA/PA-VSP2009/2021	OK246003
VSP2010	B.1.1.7	4/12/21	surveillance	99.7	2876	hCoV-19/USA/PA-VSP2010/2021	OK246004
VSP2011	B.1.1.7	4/12/21	surveillance	99.7	3273	hCoV-19/USA/PA-VSP2011/2021	OK246005
VSP2012	B.1.637	4/12/21	surveillance	99.7	2920	hCoV-19/USA/PA-VSP2012/2021	OK246006
VSP2013	B.1.526	4/12/21	surveillance	99.7	2846	hCoV-19/USA/PA-VSP2013/2021	OK246007
VSP2014	B.1.1.7	4/12/21	surveillance	99.7	3032	hCoV-19/USA/PA-VSP2014/2021	OK246008
VSP2015	B.1.1.7	4/12/21	surveillance	99.7	3005	hCoV-19/USA/PA-VSP2015/2021	OK246009
VSP2016	B.1.1.7	4/12/21	surveillance	97.5	1666	hCoV-19/USA/PA-VSP2016/2021	OK246010
VSP2017	B.1.1.7	4/12/21	accine breakthroug	99.7	2607	hCoV-19/USA/PA-VSP2017/2021	OK246011
VSP2018	B.1.526	4/12/21	surveillance	99.7	3140	hCoV-19/USA/PA-VSP2018/2021	OK246012
VSP2020	P.1	4/12/21	surveillance	98.8	1741	hCoV-19/USA/PA-VSP2020/2021	OK246013
VSP2021	B.1.1.7	4/12/21	surveillance	99.1	2063	hCoV-19/USA/PA-VSP2021/2021	OK246014
VSP2022	B.1.1.207	4/12/21	surveillance	99.6	1936	hCoV-19/USA/PA-VSP2022/2021	OK246015
VSP2023	B.1.1.7	4/12/21	surveillance	99.7	3510	hCoV-19/USA/PA-VSP2023/2021	OK246016
VSP2025	B.1.1.7	4/12/21	surveillance	99.7	3101	hCoV-19/USA/PA-VSP2025/2021	OK246017
VSP2026	B.1.623	4/12/21	surveillance	99	1983	hCoV-19/USA/PA-VSP2026/2021	OK246018
VSP2027	B.1.525	4/12/21	surveillance	99.4	2225	hCoV-19/USA/PA-VSP2027/2021	
VSP2028	P.1	4/12/21	surveillance	99.7	2637	hCoV-19/USA/PA-VSP2028/2021	OK246019
VSP2030	B.1.526	4/12/21	surveillance	99.7	3354	hCoV-19/USA/PA-VSP2030/2021	OK246020
VSP2031	B.1.575	4/12/21	surveillance	97	91	hCoV-19/USA/PA-VSP2031/2021	OK246021
VSP2032	B.1.2	4/12/21	surveillance	99.7	3372	hCoV-19/USA/PA-VSP2032/2021	OK246022
VSP2034	B.1.1.7	4/12/21	surveillance	99.7	3259	hCoV-19/USA/PA-VSP2034/2021	OK246023
VSP2035	B.1.1.7	4/12/21	surveillance	99.7	3360	hCoV-19/USA/PA-VSP2035/2021	OK246024
VSP2036	P.1	4/12/21	surveillance	99.1	714	hCoV-19/USA/PA-VSP2036/2021	

VSP2037	P.1	4/12/21	surveillance	99.7	2812	hCoV-19/USA/PA-VSP2037/2021	OK246025
VSP2038	P.1	4/12/21	surveillance	99.7	3293	hCoV-19/USA/PA-VSP2038/2021	OK246026
VSP2039	B.1.1.7	4/12/21	surveillance	99.7	3352	hCoV-19/USA/PA-VSP2039/2021	OK246027
VSP2042	B.1.526	4/12/21	accine breakthrough	99.7	2970	hCoV-19/USA/PA-VSP2042/2021	OK246028
VSP2043	B.1.526	4/12/21	surveillance	99.7	2574	hCoV-19/USA/PA-VSP2043/2021	OK246029
VSP2044	B.1.1.7	4/12/21	surveillance	99.6	1131	hCoV-19/USA/PA-VSP2044/2021	OK246030
VSP2047	B.1.1.7	4/12/21	surveillance	99.1	728	hCoV-19/USA/PA-VSP2047/2021	OK246031
VSP2048	B.1.2	4/12/21	surveillance	99.6	925	hCoV-19/USA/PA-VSP2048/2021	OK246032
VSP2051	P.1	4/12/21	surveillance	99.7	2854	hCoV-19/USA/PA-VSP2051/2021	OK246033
VSP2052	B.1.575	4/12/21	surveillance	99.7	3284	hCoV-19/USA/PA-VSP2052/2021	OK246034
VSP2053	B.1.1.7	4/12/21	surveillance	99.6	2415	hCoV-19/USA/PA-VSP2053/2021	OK246035
VSP2054	P.1	4/12/21	surveillance	99.7	3443	hCoV-19/USA/PA-VSP2054/2021	OK246036
VSP2055	B.1.1.7	4/12/21	surveillance	99.7	3282	hCoV-19/USA/PA-VSP2055/2021	OK246037
VSP2056	B.1.526	4/12/21	surveillance	96.2	2066	hCoV-19/USA/PA-VSP2056/2021	
VSP2058	B.1.1.7	4/12/21	surveillance	99.6	1590	hCoV-19/USA/PA-VSP2058/2021	OK246038
VSP2059	B.1.526	4/12/21	surveillance	99.7	1909	hCoV-19/USA/PA-VSP2059/2021	OK246039
VSP2060	B.1.526	4/12/21	surveillance	99.7	2578	hCoV-19/USA/PA-VSP2060/2021	OK246040
VSP2061	B.1.1.7	4/12/21	surveillance	99.7	2177	hCoV-19/USA/PA-VSP2061/2021	OK246041
VSP2062	B.1.1.7	4/12/21	surveillance	99.7	2719	hCoV-19/USA/PA-VSP2062/2021	OK246042
VSP2063	B.1.1.7	4/12/21	surveillance	99.7	3100	hCoV-19/USA/PA-VSP2063/2021	OK246043
VSP2064	B.1.526	4/12/21	surveillance	99.7	2546	hCoV-19/USA/PA-VSP2064/2021	OK246044
VSP2065	B.1.1.7	4/12/21	surveillance	99.7	2827	hCoV-19/USA/PA-VSP2065/2021	OK246045
VSP2066	B.1.1.7	4/12/21	surveillance	99.7	2010	hCoV-19/USA/PA-VSP2066/2021	OK246046
VSP2067	B.1.1.7	4/12/21	surveillance	99.7	2295	hCoV-19/USA/PA-VSP2067/2021	OK246047
VSP2068	B.1.1.7	4/12/21	surveillance	99.7	2805	hCoV-19/USA/PA-VSP2068/2021	OK246048
VSP2069	B.1.1.7	4/12/21	surveillance	99.6	2797	hCoV-19/USA/PA-VSP2069/2021	OK246049
VSP2070	B.1.1.7	4/12/21	surveillance	99.7	2545	hCoV-19/USA/PA-VSP2070/2021	OK246050
VSP2071	B.1.526	4/12/21	surveillance	99.7	2340	hCoV-19/USA/PA-VSP2071/2021	OK246051
VSP2072	B.1.1.7	4/12/21	surveillance	99.7	2096	hCoV-19/USA/PA-VSP2072/2021	OK246052
VSP2073	B.1.1.7	4/12/21	surveillance	99.7	2790	hCoV-19/USA/PA-VSP2073/2021	OK246053
VSP2074	B.1.1.7	4/12/21	surveillance	99.1	1729	hCoV-19/USA/PA-VSP2074/2021	
VSP2075	B.1.1.7	4/12/21	surveillance	99.7	3258	hCoV-19/USA/PA-VSP2075/2021	OK246054
VSP2076	B.1.1.7	4/12/21	surveillance	99.7	2976	hCoV-19/USA/PA-VSP2076/2021	OK246055
VSP2077	B.1.526	4/12/21	surveillance	99.7	2259	hCoV-19/USA/PA-VSP2077/2021	OK246056
VSP2078	B.1.1.7	4/12/21	surveillance	99.7	1858	hCoV-19/USA/PA-VSP2078/2021	OK246057
VSP2079	B.1.526	4/12/21	surveillance	95.2	628	hCoV-19/USA/PA-VSP2079/2021	
VSP2080	B.1.637	4/12/21	surveillance	99.7	2489	hCoV-19/USA/PA-VSP2080/2021	OK246058
VSP2081	B.1.1.7	4/12/21	surveillance	99.7	3282	hCoV-19/USA/PA-VSP2081/2021	OK246059
VSP2082	P.1.2	4/12/21	surveillance	99.7	2375	hCoV-19/USA/PA-VSP2082/2021	OK246060
VSP2083	B.1.1.7	4/12/21	surveillance	99.7	2634	hCoV-19/USA/PA-VSP2083/2021	OK246061
VSP2084	B.1.1.7	4/12/21	surveillance	99.7	2901	hCoV-19/USA/PA-VSP2084/2021	OK246062
VSP2085	B.1.1.7	4/12/21	surveillance	99.4	1128	hCoV-19/USA/PA-VSP2085/2021	
VSP2086	B.1.1.7	4/12/21	surveillance	99.6	1457	hCoV-19/USA/PA-VSP2086/2021	OK246063
VSP2087	B.1.1	4/12/21	surveillance	97.5	511	hCoV-19/USA/PA-VSP2087/2021	OK246064
VSP2088	B.1.1.7	4/12/21	surveillance	99.7	528	hCoV-19/USA/PA-VSP2088/2021	OK246065
VSP2089	B.1.1.7	4/12/21	surveillance	99.6	771	hCoV-19/USA/PA-VSP2089/2021	OK246066
VSP2090	B.1.1.7	4/12/21	surveillance	99.6	1754	hCoV-19/USA/PA-VSP2090/2021	OK246067

VSP2091	P.1.10	4/12/21	surveillance	98.3	236	hCoV-19/USA/PA-VSP2091/2021	OK246068
VSP2092	B.1.1.7	4/12/21	surveillance	99.6	1025	hCoV-19/USA/PA-VSP2092/2021	OK246069
VSP2093	B.1.1.7	4/12/21	surveillance	99.7	1677	hCoV-19/USA/PA-VSP2093/2021	OK246070
VSP2094	B.1.1.7	4/12/21	surveillance	99.7	652	hCoV-19/USA/PA-VSP2094/2021	OK246071
VSP2096	B.1.1.7	4/12/21	surveillance	99.7	1160	hCoV-19/USA/PA-VSP2096/2021	OK246072
VSP2097	R.1	4/12/21	surveillance	99.6	1459	hCoV-19/USA/PA-VSP2097/2021	OK246073
VSP2098	None	4/12/21	surveillance	96.4	1046	hCoV-19/USA/PA-VSP2098/2021	OK246074
VSP2099	B.1.1.7	4/12/21	surveillance	99.7	1725	hCoV-19/USA/PA-VSP2099/2021	OK246075
VSP2100	B.1.1.7	4/12/21	surveillance	97.8	227	hCoV-19/USA/PA-VSP2100/2021	OK246076
VSP2101	B.1.526	4/12/21	surveillance	98.8	655	hCoV-19/USA/PA-VSP2101/2021	OK246077
VSP2102	B.1.1.7	4/12/21	surveillance	99.7	743	hCoV-19/USA/DE-VSP2102/2021	OK246078
VSP2103	B.1.1.7	4/12/21	surveillance	97.2	111	hCoV-19/USA/PA-VSP2103/2021	OK246079
VSP2104	B.1.526	4/12/21	surveillance	99.7	2041	hCoV-19/USA/PA-VSP2104/2021	OK246080
VSP2105	B.1.1.7	4/12/21	surveillance	99.7	1485	hCoV-19/USA/PA-VSP2105/2021	OK246081
VSP2106	B.1.1.7	4/12/21	surveillance	99.1	915	hCoV-19/USA/PA-VSP2106/2021	OK246082
VSP2107	B.1.1.7	4/12/21	surveillance	99.6	1010	hCoV-19/USA/PA-VSP2107/2021	OK246083
VSP2108	B.1.1.7	4/12/21	surveillance	99.6	1825	hCoV-19/USA/PA-VSP2108/2021	OK246084
VSP2109	B.1.526	4/12/21	surveillance	99.7	1640	hCoV-19/USA/PA-VSP2109/2021	OK246085
VSP2110	B.1.1.7	4/12/21	surveillance	99.7	1602	hCoV-19/USA/PA-VSP2110/2021	OK246086
VSP2111	B.1.1.7	4/12/21	surveillance	99.7	964	hCoV-19/USA/PA-VSP2111/2021	OK246087
VSP2112	B.1.1.7	4/12/21	surveillance	99.5	481	hCoV-19/USA/PA-VSP2112/2021	OK246088
VSP2113	B.1.1.7	4/12/21	surveillance	99.7	2025	hCoV-19/USA/PA-VSP2113/2021	OK246089
VSP2114	B.1.1.7	4/12/21	surveillance	97.1	119	hCoV-19/USA/PA-VSP2114/2021	OK246090
VSP2115	B.1.1.7	4/12/21	surveillance	99.6	1581	hCoV-19/USA/PA-VSP2115/2021	OK246091
VSP2116	B.1.1.7	4/12/21	surveillance	99.1	1624	hCoV-19/USA/PA-VSP2116/2021	OK246092
VSP2117	B.1.1.7	4/12/21	surveillance	99.7	1684	hCoV-19/USA/NJ-VSP2117/2021	OK246093
VSP2118	B.1.1.7	4/12/21	surveillance	99.3	1045	hCoV-19/USA/PA-VSP2118/2021	OK246094
VSP2119	B.1.1.7	4/12/21	surveillance	99.1	631	hCoV-19/USA/PA-VSP2119/2021	OK246095
VSP2120	B.1.1.7	4/12/21	surveillance	98.9	676	hCoV-19/USA/PA-VSP2120/2021	OK246096
VSP2121	B.1.1.7	4/12/21	surveillance	99.2	1754	hCoV-19/USA/PA-VSP2121/2021	OK246097
VSP2122	B.1.526	4/12/21	surveillance	98.6	829	hCoV-19/USA/PA-VSP2122/2021	OK246098
VSP2123	B.1.1.7	4/12/21	surveillance	99.7	1355	hCoV-19/USA/PA-VSP2123/2021	OK246099
VSP2124	B.1.1.7	4/12/21	surveillance	99.6	1147	hCoV-19/USA/PA-VSP2124/2021	OK246100
VSP2125	B.1.526	4/12/21	surveillance	99.7	980	hCoV-19/USA/PA-VSP2125/2021	OK246101
VSP2126	B.1.1.7	4/12/21	surveillance	99.1	1308	hCoV-19/USA/PA-VSP2126/2021	OK246102
VSP2127	B.1.526	4/12/21	surveillance	99.1	501	hCoV-19/USA/PR-VSP2127/2021	OK246103
VSP2128	B.1.1.7	4/12/21	surveillance	99.6	2075	hCoV-19/USA/PA-VSP2128/2021	OK246104
VSP2129	B.1.1.7	4/12/21	surveillance	99.1	1169	hCoV-19/USA/PA-VSP2129/2021	OK246105
VSP2130	B.1.1.7	4/12/21	surveillance	97.4	101	hCoV-19/USA/PA-VSP2130/2021	OK246106
VSP2131	B.1.1.7	4/12/21	surveillance	97.3	411	hCoV-19/USA/PA-VSP2131/2021	OK246107
VSP2132	B.1.1.7	4/12/21	surveillance	99.6	887	hCoV-19/USA/PA-VSP2132/2021	OK246108
VSP2133	B.1.1.7	4/12/21	surveillance	99.1	651	hCoV-19/USA/PA-VSP2133/2021	
VSP2134	B.1.1.7	4/12/21	surveillance	99.7	800	hCoV-19/USA/PA-VSP2134/2021	OK246109
VSP2135	B.1.1.7	4/12/21	surveillance	99.2	1025	hCoV-19/USA/PA-VSP2135/2021	OK246110
VSP2136	B.1.1.7	4/12/21	surveillance	99.7	787	hCoV-19/USA/PA-VSP2136/2021	OK246111
VSP2137	B.1.575	4/12/21	surveillance	99.6	1992	hCoV-19/USA/PA-VSP2137/2021	OK246112
VSP2138	B.1.1.7	4/12/21	surveillance	99.5	413	hCoV-19/USA/PA-VSP2138/2021	OK246113

VSP2139	B.1.1.7	4/12/21	surveillance	99.1	382	hCoV-19/USA/PA-VSP2139/2021	OK246114
VSP2141	B.1.525	4/12/21	surveillance	99.4	1493	hCoV-19/USA/PA-VSP2141/2021	
VSP2142	B.1.1.7	4/12/21	surveillance	99.6	839	hCoV-19/USA/PA-VSP2142/2021	OK246115
VSP2143	B.1.1.7	4/12/21	surveillance	99.7	532	hCoV-19/USA/PA-VSP2143/2021	OK246116
VSP2144	B.1.1.7	4/12/21	surveillance	96.8	113	hCoV-19/USA/PA-VSP2144/2021	OK246117
VSP2145	B.1.1.7	4/12/21	surveillance	95.5	113	hCoV-19/USA/PA-VSP2145/2021	OK246118
VSP2146	B.1.1.7	4/12/21	surveillance	99.6	421	hCoV-19/USA/PA-VSP2146/2021	OK246119
VSP2147	B.1.1.7	4/12/21	surveillance	99.7	793	hCoV-19/USA/PA-VSP2147/2021	OK246120
VSP2148	B.1.1.7	4/12/21	surveillance	99.2	473	hCoV-19/USA/PA-VSP2148/2021	OK246121
VSP2149	B.1	4/12/21	surveillance	99.4	1812	hCoV-19/USA/PA-VSP2149/2021	OK246122
VSP2151	B.1.1.7	4/12/21	surveillance	99.1	903	hCoV-19/USA/PA-VSP2151/2021	OK246123
VSP2152	B.1.1.7	4/12/21	surveillance	99.4	991	hCoV-19/USA/NJ-VSP2152/2021	OK246124
VSP2153	B.1.1.7	4/12/21	surveillance	99.7	1833	hCoV-19/USA/PA-VSP2153/2021	OK246125
VSP2154	B.1.525	4/12/21	surveillance	99.5	3829	hCoV-19/USA/PA-VSP2154/2021	
VSP2155	B.1.1.7	4/12/21	surveillance	99.7	2925	hCoV-19/USA/NJ-VSP2155/2021	OK246126
VSP2156	B.1.1.7	4/12/21	surveillance	99.7	4517	hCoV-19/USA/PA-VSP2156/2021	OK246127
VSP2157	B.1.1.7	4/12/21	surveillance	99.7	14443	hCoV-19/USA/PA-VSP2157/2021	OK246128
VSP2158	B.1.1.7	4/12/21	surveillance	99.7	6029	hCoV-19/USA/PA-VSP2158/2021	OK246129
VSP2159	B.1.1.7	4/12/21	surveillance	99.7	4527	hCoV-19/USA/NJ-VSP2159/2021	OK246130
VSP2160	B.1.1.7	4/12/21	surveillance	99.7	2772	hCoV-19/USA/PA-VSP2160/2021	OK246131
VSP2161	B.1.2	4/12/21	surveillance	99.5	2221	hCoV-19/USA/PA-VSP2161/2021	OK246132
VSP2162	B.1.588	4/12/21	surveillance	99.6	3549	hCoV-19/USA/NJ-VSP2162/2021	OK246133
VSP2163	B.1.2	4/12/21	surveillance	99.7	3195	hCoV-19/USA/PA-VSP2163/2021	OK246134
VSP2164	B.1.526	4/12/21	surveillance	99.1	1561	hCoV-19/USA/PA-VSP2164/2021	OK246135
VSP2170	B.1.526	4/12/21	surveillance	99.7	3769	hCoV-19/USA/PA-VSP2170/2021	OK246136
VSP2171	B.1.1.7	4/12/21	surveillance	99.7	3081	hCoV-19/USA/PA-VSP2171/2021	OK246137
VSP2172	B.1.1.7	4/12/21	surveillance	98.8	2994	hCoV-19/USA/PA-VSP2172/2021	OK246138
VSP2174	B.1.1.7	4/12/21	surveillance	99.2	954	hCoV-19/USA/PA-VSP2174/2021	OK246139
VSP2175	B.1.1.7	4/12/21	surveillance	99.5	1053	hCoV-19/USA/PA-VSP2175/2021	OK246140
VSP2176	B.1.1.7	4/12/21	surveillance	99.7	1442	hCoV-19/USA/PA-VSP2176/2021	OK246141
VSP2177	B.1.1.7	4/12/21	surveillance	99.6	471	hCoV-19/USA/PA-VSP2177/2021	OK246142
VSP2178	B.1.1.7	4/12/21	surveillance	99.3	1009	hCoV-19/USA/PA-VSP2178/2021	OK246143
VSP2179	B.1.1.7	4/12/21	surveillance	99.7	1270	hCoV-19/USA/PA-VSP2179/2021	OK246144
VSP2180	B.1.1.7	4/12/21	surveillance	99.2	815	hCoV-19/USA/NJ-VSP2180/2021	OK246145
VSP2181	B.1.1.7	4/12/21	surveillance	99.6	750	hCoV-19/USA/NJ-VSP2181/2021	OK246146
VSP2183	B.1.1.7	4/12/21	surveillance	99.1	2446	hCoV-19/USA/NJ-VSP2183/2021	OK246147
VSP2184	B.1.526	4/12/21	surveillance	98.3	2463	hCoV-19/USA/NJ-VSP2184/2021	OK246148
VSP2185	B.1.1.7	4/12/21	surveillance	98.9	4190	hCoV-19/USA/NJ-VSP2185/2021	OK246149
VSP2186	B.1.526	4/12/21	surveillance	99.7	3496	hCoV-19/USA/NJ-VSP2186/2021	OK246150
VSP2187	B.1.526	4/12/21	surveillance	99.3	2411	hCoV-19/USA/NJ-VSP2187/2021	OK246151
VSP2189	B.1.1.7	4/12/21	surveillance	99.1	1880	hCoV-19/USA/PA-VSP2189/2021	OK246152
VSP2190	B.1.1.7	4/12/21	surveillance	99.7	3485	hCoV-19/USA/PA-VSP2190/2021	OK246153
VSP2191	B.1.1.7	4/12/21	surveillance	99.7	1944	hCoV-19/USA/PA-VSP2191/2021	OK246154
VSP2192	B.1.1.7	4/12/21	surveillance	99.3	2430	hCoV-19/USA/PA-VSP2192/2021	OK246155
VSP2193	B.1.2	4/12/21	surveillance	99.7	1653	hCoV-19/USA/PA-VSP2193/2021	OK246156
VSP2194	B.1.1.7	4/12/21	surveillance	99.1	3767	hCoV-19/USA/PA-VSP2194/2021	OK246157
VSP2197	B.1.1.7	4/12/21	surveillance	99.2	2481	hCoV-19/USA/PA-VSP2197/2021	OK246158

VSP2198	B.1.1.7	4/12/21	surveillance	97.6	77	hCoV-19/USA/PA-VSP2198/2021	OK246159
VSP2199	B.1.1.7	4/12/21	surveillance	99.5	1900	hCoV-19/USA/PA-VSP2199/2021	OK246160
VSP2200	B.1.1.7	4/12/21	surveillance	99.7	3319	hCoV-19/USA/PA-VSP2200/2021	OK246161
VSP2201	B.1.1.7	4/12/21	surveillance	99.7	2908	hCoV-19/USA/PA-VSP2201/2021	OK246162
VSP2202	B.1.1.7	4/12/21	surveillance	99.7	2576	hCoV-19/USA/PA-VSP2202/2021	OK246163
VSP2204	B.1.429	4/12/21	surveillance	98.6	703	hCoV-19/USA/PA-VSP2204/2021	OK246164
VSP2205	B.1.526	4/12/21	surveillance	99.7	1865	hCoV-19/USA/PA-VSP2205/2021	OK246165
VSP2206	B.1.526	4/19/21	surveillance	99.7	7652	hCoV-19/USA/VSP2206/2021	MZ512791
VSP2207	B.1.1.7	4/19/21	surveillance	99.7	9090	hCoV-19/USA/VSP2207/2021	MZ512792
VSP2208	B.1.637	4/19/21	surveillance	99.7	7216	hCoV-19/USA/VSP2208/2021	MZ512793
VSP2209	B.1.1.7	4/19/21	surveillance	99.7	7928	hCoV-19/USA/VSP2209/2021	MZ512794
VSP2210	B.1.1.7	4/19/21	surveillance	99.7	6937	hCoV-19/USA/VSP2210/2021	MZ512795
VSP2211	B.1.1.7	4/19/21	surveillance	99.7	7423	hCoV-19/USA/VSP2211/2021	MZ512796
VSP2212	B.1.1.7	4/19/21	surveillance	99.7	3145	hCoV-19/USA/VSP2212/2021	MZ512797
VSP2213	Q.4	4/19/21	surveillance	99.7	6143	hCoV-19/USA/VSP2213/2021	MZ512798
VSP2214	B.1.1.7	4/19/21	surveillance	99.7	5949	hCoV-19/USA/VSP2214/2021	MZ512799
VSP2215	B.1.1.7	4/19/21	surveillance	99.7	7112	hCoV-19/USA/VSP2215/2021	MZ512800
VSP2216	B.1.1.7	4/19/21	surveillance	99.7	6492	hCoV-19/USA/VSP2216/2021	MZ512801
VSP2218	B.1.1.7	4/19/21	surveillance	99.7	7393	hCoV-19/USA/VSP2218/2021	MZ512802
VSP2219	B.1.1.7	4/19/21	surveillance	99.7	6484	hCoV-19/USA/VSP2219/2021	MZ512803
VSP2220	B.1.637	4/19/21	surveillance	99.7	7029	hCoV-19/USA/VSP2220/2021	MZ512804
VSP2221	B.1.1.7	4/19/21	surveillance	97.4	4786	hCoV-19/USA/VSP2221/2021	MZ512805
VSP2222	B.1.1.7	4/19/21	surveillance	99.7	5455	hCoV-19/USA/VSP2222/2021	MZ512806
VSP2224	B.1.637	4/19/21	surveillance	99.7	5596	hCoV-19/USA/VSP2224/2021	MZ512807
VSP2225	B.1.1.7	4/19/21	surveillance	99.7	6329	hCoV-19/USA/VSP2225/2021	MZ512808
VSP2226	B.1.1.7	4/19/21	surveillance	99.7	6796	hCoV-19/USA/VSP2226/2021	MZ512809
VSP2227	B.1.1.7	4/19/21	surveillance	97.5	4911	hCoV-19/USA/VSP2227/2021	
VSP2228	P.1.2	4/19/21	surveillance	99.7	6531	hCoV-19/USA/VSP2228/2021	MZ512810
VSP2229	B.1.637	4/19/21	surveillance	99.7	7292	hCoV-19/USA/VSP2229/2021	MZ512811
VSP2230	B.1.1.7	4/19/21	surveillance	99.7	7355	hCoV-19/USA/VSP2230/2021	MZ512812
VSP2231	B.1.526	4/19/21	surveillance	99.7	7203	hCoV-19/USA/VSP2231/2021	MZ512813
VSP2232	B.1.1.7	4/19/21	surveillance	99.7	6712	hCoV-19/USA/VSP2232/2021	MZ512814
VSP2233	B.1.1.7	4/19/21	surveillance	99.7	5618	hCoV-19/USA/VSP2233/2021	MZ512815
VSP2234	P.1	4/19/21	surveillance	99.7	6536	hCoV-19/USA/VSP2234/2021	MZ512816
VSP2235	B.1.1.7	4/19/21	surveillance	99.7	6137	hCoV-19/USA/VSP2235/2021	MZ512817
VSP2236	B.1.1.7	4/19/21	surveillance	98.6	3717	hCoV-19/USA/VSP2236/2021	MZ512818
VSP2237	B.1.1.7	4/19/21	surveillance	99.7	5462	hCoV-19/USA/VSP2237/2021	MZ512819
VSP2238	B.1.1.7	4/19/21	surveillance	99.7	6546	hCoV-19/USA/VSP2238/2021	MZ512820
VSP2239	B.1.1.7	4/19/21	surveillance	99.7	6329	hCoV-19/USA/VSP2239/2021	MZ512821
VSP2240	B.1.1.7	4/19/21	surveillance	99.7	6830	hCoV-19/USA/VSP2240/2021	MZ512822
VSP2241	B.1.1.7	4/19/21	surveillance	99.7	6732	hCoV-19/USA/VSP2241/2021	MZ512823
VSP2242	B.1.1.7	4/19/21	surveillance	99.7	4980	hCoV-19/USA/VSP2242/2021	MZ512824
VSP2243	B.1.1.7	4/19/21	surveillance	99.7	6518	hCoV-19/USA/VSP2243/2021	MZ512825
VSP2244	B.1.1.7	4/19/21	surveillance	99.7	5222	hCoV-19/USA/VSP2244/2021	MZ512826
VSP2245	B.1.1.7	4/19/21	surveillance	99.7	4921	hCoV-19/USA/VSP2245/2021	MZ512827
VSP2246	P.1	4/19/21	surveillance	99.7	6082	hCoV-19/USA/VSP2246/2021	MZ512828
VSP2247	B.1.1.7	4/19/21	surveillance	99.1	545	hCoV-19/USA/VSP2247/2021	MZ512829

VSP2248	B.1.1.7	4/19/21	surveillance	99.7	5385	hCoV-19/USA/VSP2248/2021	MZ512830
VSP2249	B.1.1.7	4/19/21	surveillance	97.4	4965	hCoV-19/USA/VSP2249/2021	MZ512831
VSP2250	B.1.1.7	4/19/21	surveillance	99.7	4468	hCoV-19/USA/VSP2250/2021	MZ512832
VSP2251	B.1.1.7	4/19/21	surveillance	99.7	6502	hCoV-19/USA/VSP2251/2021	MZ512833
VSP2252	B.1.1.7	4/19/21	surveillance	99.7	6001	hCoV-19/USA/VSP2252/2021	MZ512834
VSP2253	B.1.526	4/19/21	surveillance	99.7	5949	hCoV-19/USA/VSP2253/2021	MZ512835
VSP2254	B.1.1.7	4/19/21	surveillance	99.7	6077	hCoV-19/USA/VSP2254/2021	MZ512836
VSP2255	B.1.526	4/19/21	surveillance	99.7	6125	hCoV-19/USA/VSP2255/2021	MZ512837
VSP2256	B.1.1.7	4/19/21	surveillance	97.2	2192	hCoV-19/USA/VSP2256/2021	MZ512838
VSP2258	B.1.1.7	4/19/21	surveillance	99.7	8045	hCoV-19/USA/VSP2258/2021	MZ512839
VSP2259	B.1.1.7	4/19/21	surveillance	99.7	6079	hCoV-19/USA/VSP2259/2021	MZ512840
VSP2260	B.1.1.7	4/19/21	surveillance	98.3	3821	hCoV-19/USA/VSP2260/2021	MZ512841
VSP2261	B.1.1.7	4/19/21	surveillance	99.7	4299	hCoV-19/USA/VSP2261/2021	MZ512842
VSP2262	B.1.1.7	4/19/21	surveillance	99.7	6387	hCoV-19/USA/VSP2262/2021	MZ512843
VSP2263	B.1.1.7	4/19/21	surveillance	99.7	6225	hCoV-19/USA/VSP2263/2021	MZ512844
VSP2264	B.1.1.7	4/19/21	surveillance	99.7	6072	hCoV-19/USA/VSP2264/2021	MZ512845
VSP2265	P.1	4/19/21	surveillance	99.7	6527	hCoV-19/USA/VSP2265/2021	MZ512846
VSP2266	B.1.1.7	4/19/21	surveillance	99.1	2705	hCoV-19/USA/VSP2266/2021	MZ512847
VSP2267	B.1.1.7	4/19/21	surveillance	99.7	5191	hCoV-19/USA/VSP2267/2021	MZ512848
VSP2268	B.1.1.7	4/19/21	surveillance	99.7	6064	hCoV-19/USA/VSP2268/2021	MZ512849
VSP2269	B.1.1.7	4/19/21	surveillance	99.7	6007	hCoV-19/USA/VSP2269/2021	MZ512850
VSP2271	P.1	4/19/21	surveillance	99.7	5026	hCoV-19/USA/VSP2271/2021	MZ512851
VSP2272	B.1.1.7	4/19/21	surveillance	99.7	5937	hCoV-19/USA/VSP2272/2021	MZ512852
VSP2273	B.1.234	4/19/21	surveillance	99.7	6278	hCoV-19/USA/VSP2273/2021	MZ512853
VSP2274	B.1.526	4/19/21	surveillance	99.7	6203	hCoV-19/USA/VSP2274/2021	MZ512854
VSP2275	B.1.1.519	4/19/21	surveillance	99.1	2083	hCoV-19/USA/VSP2275/2021	MZ512855
VSP2276	B.1.1.7	4/19/21	surveillance	99.7	6900	hCoV-19/USA/VSP2276/2021	MZ512856
VSP2277	B.1.1.7	4/19/21	surveillance	99.7	5162	hCoV-19/USA/VSP2277/2021	MZ512857
VSP2278	B.1.1.7	4/19/21	surveillance	99.7	6188	hCoV-19/USA/VSP2278/2021	MZ512858
VSP2279	R.1	4/19/21	surveillance	99.7	5900	hCoV-19/USA/VSP2279/2021	MZ512859
VSP2280	B.1.1.7	4/19/21	surveillance	99.7	5935	hCoV-19/USA/VSP2280/2021	MZ512860
VSP2281	B.1.526	4/19/21	surveillance	99.1	5078	hCoV-19/USA/VSP2281/2021	MZ512861
VSP2282	B.1.1.7	4/19/21	surveillance	99.7	6546	hCoV-19/USA/VSP2282/2021	MZ512862
VSP2283	B.1.1.7	4/19/21	surveillance	99.7	5538	hCoV-19/USA/VSP2283/2021	MZ512863
VSP2284	R.1	4/19/21	surveillance	99.7	5794	hCoV-19/USA/VSP2284/2021	MZ512864
VSP2285	B.1.1.7	4/19/21	surveillance	99.7	6472	hCoV-19/USA/VSP2285/2021	MZ512865
VSP2286	B.1.1.7	4/19/21	surveillance	99.7	5237	hCoV-19/USA/VSP2286/2021	MZ512866
VSP2287	B.1.351	4/19/21	surveillance	99.1	5049	hCoV-19/USA/VSP2287/2021	MZ512867
VSP2288	B.1.1.7	4/19/21	surveillance	99.7	6716	hCoV-19/USA/VSP2288/2021	MZ512868
VSP2289	B.1.1.7	4/19/21	surveillance	99.7	4803	hCoV-19/USA/VSP2289/2021	MZ512869
VSP2290	B.1.1.7	4/19/21	surveillance	99.7	6659	hCoV-19/USA/VSP2290/2021	MZ512870
VSP2291	B.1.1.7	4/19/21	surveillance	99.7	5873	hCoV-19/USA/VSP2291/2021	MZ512871
VSP2292	B.1.1.7	4/19/21	surveillance	99.7	6066	hCoV-19/USA/VSP2292/2021	MZ512872
VSP2293	B.1.526	4/19/21	surveillance	99.7	6213	hCoV-19/USA/VSP2293/2021	MZ512873
VSP2294	B.1.1.7	4/19/21	surveillance	99.7	3638	hCoV-19/USA/VSP2294/2021	MZ512874
VSP2295	B.1.1.7	4/19/21	surveillance	99.7	5836	hCoV-19/USA/VSP2295/2021	MZ512875
VSP2296	B.1.1.7	4/19/21	surveillance	99.7	1960	hCoV-19/USA/PA-VSP2296/2021	OK246166

VSP2297	B.1.526	4/19/21	surveillance	99.7	2037	hCoV-19/USA/NY-VSP2297/2021	OK246167
VSP2298	B.1.1.7	4/19/21	surveillance	99.7	2799	hCoV-19/USA/PA-VSP2298/2021	OK246168
VSP2299	B.1.351	4/19/21	surveillance	99.1	1991	hCoV-19/USA/PA-VSP2299/2021	OK246169
VSP2300	B.1.1.7	4/19/21	surveillance	99.7	3401	hCoV-19/USA/PA-VSP2300/2021	OK246170
VSP2302	B.1.1.7	4/19/21	surveillance	99.7	2733	hCoV-19/USA/PA-VSP2302/2021	OK246171
VSP2303	B.1.526	4/19/21	surveillance	99.7	2417	hCoV-19/USA/PA-VSP2303/2021	OK246172
VSP2304	B.1.1.7	4/19/21	surveillance	99.7	2898	hCoV-19/USA/PA-VSP2304/2021	OK246173
VSP2306	B.1.526	4/19/21	surveillance	99.7	2909	hCoV-19/USA/PA-VSP2306/2021	OK246174
VSP2307	B.1.526	4/19/21	surveillance	99.7	3784	hCoV-19/USA/PA-VSP2307/2021	OK246175
VSP2308	P.1	4/19/21	surveillance	99.7	2913	hCoV-19/USA/PA-VSP2308/2021	OK246176
VSP2309	P.1	4/19/21	surveillance	99.3	2628	hCoV-19/USA/PA-VSP2309/2021	OK246177
VSP2310	B.1.1.7	4/19/21	surveillance	99.3	670	hCoV-19/USA/PA-VSP2310/2021	OK246178
VSP2311	B.1.526	4/19/21	surveillance	98.1	736	hCoV-19/USA/PA-VSP2311/2021	OK246179
VSP2312	P.1	4/19/21	surveillance	99.6	1414	hCoV-19/USA/PA-VSP2312/2021	OK246180
VSP2313	P.1	4/19/21	surveillance	99.3	1813	hCoV-19/USA/PA-VSP2313/2021	OK246181
VSP2314	P.1	4/19/21	surveillance	99.7	2306	hCoV-19/USA/PA-VSP2314/2021	OK246182
VSP2315	B.1.526	4/19/21	surveillance	99.7	1669	hCoV-19/USA/PA-VSP2315/2021	OK246183
VSP2316	B.1.526	4/19/21	surveillance	98.8	3222	hCoV-19/USA/PA-VSP2316/2021	OK246184
VSP2317	B.1.1.7	4/19/21	surveillance	99.7	3529	hCoV-19/USA/PA-VSP2317/2021	OK246185
VSP2318	B.1.1.7	4/19/21	surveillance	98.6	803	hCoV-19/USA/PA-VSP2318/2021	OK246186
VSP2319	B.1.1.7	4/19/21	surveillance	99.7	946	hCoV-19/USA/PA-VSP2319/2021	OK246187
VSP2320	P.1	4/19/21	surveillance	99.7	1302	hCoV-19/USA/PA-VSP2320/2021	OK246188
VSP2322	B.1.526	4/19/21	surveillance	99.7	1393	hCoV-19/USA/PA-VSP2322/2021	OK246189
VSP2323	B.1.1.7	4/19/21	surveillance	99.7	1985	hCoV-19/USA/PA-VSP2323/2021	OK246190
VSP2324	B.1.637	4/19/21	surveillance	98.8	3425	hCoV-19/USA/PA-VSP2324/2021	OK246191
VSP2325	P.1	4/19/21	surveillance	99.7	2665	hCoV-19/USA/PA-VSP2325/2021	OK246192
VSP2326	B.1.526	4/19/21	surveillance	99.7	2953	hCoV-19/USA/PA-VSP2326/2021	OK246193
VSP2327	B.1.526	4/19/21	surveillance	99.7	2106	hCoV-19/USA/PA-VSP2327/2021	OK246194
VSP2328	B.1.526	4/19/21	surveillance	99.7	2324	hCoV-19/USA/PA-VSP2328/2021	OK246195
VSP2329	B.1.1.7	4/19/21	surveillance	99.7	2698	hCoV-19/USA/PA-VSP2329/2021	OK246196
VSP2330	B.1.1.7	4/19/21	surveillance	99.7	2516	hCoV-19/USA/PA-VSP2330/2021	OK246197
VSP2331	B.1.1.7	4/19/21	surveillance	99.7	2532	hCoV-19/USA/PA-VSP2331/2021	OK246198
VSP2332	B.1.1.7	4/19/21	surveillance	99.7	1919	hCoV-19/USA/PA-VSP2332/2021	OK246199
VSP2333	B.1.526	4/19/21	surveillance	99.7	3115	hCoV-19/USA/PA-VSP2333/2021	OK246200
VSP2334	B.1.526	4/19/21	surveillance	98.1	2732	hCoV-19/USA/PA-VSP2334/2021	OK246201
VSP2335	B.1.1.7	4/19/21	surveillance	99.6	3226	hCoV-19/USA/PA-VSP2335/2021	OK246202
VSP2336	B.1.526	4/19/21	surveillance	99.1	2376	hCoV-19/USA/PA-VSP2336/2021	OK246203
VSP2337	B.1.526	4/19/21	surveillance	97.6	997	hCoV-19/USA/PA-VSP2337/2021	
VSP2338	B.1.1.7	4/19/21	surveillance	99.7	2715	hCoV-19/USA/PA-VSP2338/2021	OK246204
VSP2339	B.1.526	4/19/21	surveillance	99.7	2445	hCoV-19/USA/PA-VSP2339/2021	OK246205
VSP2340	B.1.1.7	4/19/21	surveillance	99.7	3699	hCoV-19/USA/PA-VSP2340/2021	OK246206
VSP2341	P.1	4/19/21	surveillance	99.4	3108	hCoV-19/USA/PA-VSP2341/2021	OK246207
VSP2342	P.1	4/19/21	surveillance	99.6	2383	hCoV-19/USA/PA-VSP2342/2021	OK246208
VSP2343	B.1.1.7	4/19/21	surveillance	95.7	27	hCoV-19/USA/PA-VSP2343/2021	OK246209
VSP2344	B.1.621	4/19/21	surveillance	99.7	3741	hCoV-19/USA/PA-VSP2344/2021	OK246210
VSP2345	B.1.1.7	4/19/21	surveillance	99.7	2930	hCoV-19/USA/PA-VSP2345/2021	OK246211
VSP2346	B.1.1.7	4/19/21	surveillance	99.7	2596	hCoV-19/USA/PA-VSP2346/2021	OK246212

VSP2347	B.1.1.7	4/19/21	surveillance	99.5	1928	hCoV-19/USA/PA-VSP2347/2021	OK246213
VSP2348	B.1.1.7	4/19/21	surveillance	98.2	99	hCoV-19/USA/PA-VSP2348/2021	OK246214
VSP2349	B.1.1.7	4/19/21	surveillance	99.1	323	hCoV-19/USA/PA-VSP2349/2021	OK246215
VSP2350	B.1.1.7	4/19/21	surveillance	99.3	1489	hCoV-19/USA/PA-VSP2350/2021	OK246216
VSP2351	B.1.1.7	4/19/21	surveillance	99.1	865	hCoV-19/USA/PA-VSP2351/2021	OK246217
VSP2352	B.1.1.7	4/19/21	surveillance	99.7	2748	hCoV-19/USA/PA-VSP2352/2021	OK246218
VSP2353	B.1.1.7	4/19/21	surveillance	99.6	1798	hCoV-19/USA/PA-VSP2353/2021	OK246219
VSP2354	B.1.1.7	4/19/21	surveillance	99	1627	hCoV-19/USA/NJ-VSP2354/2021	OK246220
VSP2355	B.1.526	4/19/21	surveillance	99.4	1363	hCoV-19/USA/NJ-VSP2355/2021	OK246221
VSP2356	B.1.1.7	4/19/21	surveillance	99.7	2194	hCoV-19/USA/PA-VSP2356/2021	OK246222
VSP2357	B.1.1.7	4/19/21	surveillance	99.7	2000	hCoV-19/USA/NJ-VSP2357/2021	OK246223
VSP2358	B.1.1.7	4/19/21	surveillance	99.7	2431	hCoV-19/USA/NJ-VSP2358/2021	OK246224
VSP2359	B.1.1.7	4/19/21	surveillance	99.6	1683	hCoV-19/USA/NJ-VSP2359/2021	OK246225
VSP2360	B.1.526	4/19/21	surveillance	99.7	2624	hCoV-19/USA/NJ-VSP2360/2021	OK246226
VSP2361	B.1.1.7	4/19/21	surveillance	99.7	2439	hCoV-19/USA/NJ-VSP2361/2021	OK246227
VSP2369	B.1.1.7	4/23/21	hospitalized	98.2	263	hCoV-19/USA/PA-VSP2369/2021	OK246228
VSP2403	B.1.1.7	4/26/21	accine breakthroug	99.7	1696	hCoV-19/USA/PA-VSP2403/2021	OK246229
VSP2404	B.1.621	4/26/21	accine breakthroug	99.7	2210	hCoV-19/USA/FL-VSP2404/2021	OK246230
VSP2405	B.1.621	4/26/21	accine breakthroug	99.7	2397	hCoV-19/USA/NJ-VSP2405/2021	OK246231
VSP2406	B.1.621	4/26/21	accine breakthroug	99.7	2248	hCoV-19/USA/PA-VSP2406/2021	OK246232
VSP2407	B.1.1.7	4/26/21	accine breakthroug	99.7	588	hCoV-19/USA/PA-VSP2407/2021	OK246233
VSP2408	B.1.1.7	4/26/21	accine breakthroug	99.7	1904	hCoV-19/USA/NJ-VSP2408/2021	OK246234
VSP2409	B.1.1.7	4/26/21	accine breakthroug	99.7	2001	hCoV-19/USA/PA-VSP2409/2021	OK246235
VSP2410	B.1.1.7	4/26/21	accine breakthroug	99.7	2415	hCoV-19/USA/PA-VSP2410/2021	OK246236
VSP2411	B.1.1.7	4/26/21	surveillance	99.7	3400	hCoV-19/USA/PA-VSP2411/2021	OK246237
VSP2412	B.1.1.7	4/26/21	surveillance	99.7	1490	hCoV-19/USA/PA-VSP2412/2021	OK246238
VSP2413	B.1.1.7	4/26/21	surveillance	99.7	1542	hCoV-19/USA/PA-VSP2413/2021	OK246239
VSP2414	B.1.526	4/26/21	surveillance	99.7	789	hCoV-19/USA/PA-VSP2414/2021	OK246240
VSP2415	B.1.1.7	4/26/21	surveillance	99.7	3574	hCoV-19/USA/DE-VSP2415/2021	OK246241
VSP2416	B.1.1.7	4/26/21	surveillance	99.7	3806	hCoV-19/USA/PA-VSP2416/2021	OK246242
VSP2417	B.1.526	4/26/21	surveillance	99.7	3443	hCoV-19/USA/PA-VSP2417/2021	OK246243
VSP2418	B.1.526	4/26/21	surveillance	99.7	3599	hCoV-19/USA/PA-VSP2418/2021	OK246244
VSP2419	B.1.2	4/26/21	surveillance	99.7	3538	hCoV-19/USA/PA-VSP2419/2021	OK246245
VSP2420	B.1.1.7	4/26/21	surveillance	99	177	hCoV-19/USA/PA-VSP2420/2021	OK246246
VSP2422	B.1.526	4/26/21	surveillance	99.7	3353	hCoV-19/USA/PA-VSP2422/2021	OK246247
VSP2423	B.1.1.7	4/26/21	surveillance	99.7	1326	hCoV-19/USA/PA-VSP2423/2021	OK246248
VSP2424	B.1.1.7	4/26/21	surveillance	99.7	1272	hCoV-19/USA/PA-VSP2424/2021	OK246249
VSP2425	B.1.1.7	4/26/21	surveillance	98.8	120	hCoV-19/USA/PA-VSP2425/2021	OK246250
VSP2426	B.1.1.7	4/26/21	surveillance	99.7	1809	hCoV-19/USA/PA-VSP2426/2021	OK246251
VSP2427	B.1.1.7	4/26/21	surveillance	99.7	3764	hCoV-19/USA/PA-VSP2427/2021	OK246252
VSP2428	B.1.1.7	4/26/21	surveillance	99.7	3649	hCoV-19/USA/PA-VSP2428/2021	OK246253
VSP2429	B.1.526	4/26/21	surveillance	98.7	92	hCoV-19/USA/PA-VSP2429/2021	OK246254
VSP2430	B.1.637	4/26/21	surveillance	99.7	3529	hCoV-19/USA/PA-VSP2430/2021	OK246255
VSP2431	B.1.1.7	4/26/21	surveillance	99.7	3580	hCoV-19/USA/PA-VSP2431/2021	OK246256
VSP2432	B.1.1.7	4/26/21	surveillance	99.7	2189	hCoV-19/USA/PA-VSP2432/2021	OK246257
VSP2433	B.1.526	4/26/21	surveillance	99.7	419	hCoV-19/USA/PA-VSP2433/2021	OK246258
VSP2435	P.1	4/26/21	surveillance	99.3	297	hCoV-19/USA/PA-VSP2435/2021	OK246259

VSP2436	B.1.526	4/26/21	surveillance	98.2	128	hCoV-19/USA/PA-VSP2436/2021	OK246260
VSP2437	B.1.1.7	4/26/21	surveillance	99.1	575	hCoV-19/USA/PA-VSP2437/2021	OK246261
VSP2438	B.1.1.7	4/26/21	surveillance	99.7	2881	hCoV-19/USA/PA-VSP2438/2021	OK246262
VSP2439	B.1.1.7	4/26/21	surveillance	99.7	1968	hCoV-19/USA/NJ-VSP2439/2021	OK246263
VSP2440	B.1.1.7	4/26/21	surveillance	99.7	2246	hCoV-19/USA/PA-VSP2440/2021	OK246264
VSP2441	B.1.1.7	4/26/21	surveillance	99.7	3847	hCoV-19/USA/PA-VSP2441/2021	OK246265
VSP2442	B.1.1.7	4/26/21	surveillance	99	119	hCoV-19/USA/PA-VSP2442/2021	OK246266
VSP2443	B.1.637	4/26/21	surveillance	99.7	4129	hCoV-19/USA/PA-VSP2443/2021	OK246267
VSP2444	B.1.621	4/26/21	surveillance	99.7	1440	hCoV-19/USA/PA-VSP2444/2021	OK246268
VSP2445	B.1.1.7	4/26/21	surveillance	99.7	1049	hCoV-19/USA/PA-VSP2445/2021	OK246269
VSP2446	B.1.526	4/26/21	surveillance	99.5	3214	hCoV-19/USA/PA-VSP2446/2021	OK246270
VSP2447	B.1.1.7	4/26/21	surveillance	99.7	2534	hCoV-19/USA/PA-VSP2447/2021	OK246271
VSP2448	B.1.1.7	4/26/21	surveillance	97.6	46	hCoV-19/USA/PA-VSP2448/2021	OK246272
VSP2449	B.1.1.7	4/26/21	surveillance	99.7	3411	hCoV-19/USA/PA-VSP2449/2021	OK246273
VSP2450	B.1.1.7	4/26/21	surveillance	99.7	949	hCoV-19/USA/PA-VSP2450/2021	OK246274
VSP2451	B.1.1.7	4/26/21	surveillance	99.7	3779	hCoV-19/USA/PA-VSP2451/2021	OK246275
VSP2452	B.1.1.7	4/26/21	surveillance	99.7	3680	hCoV-19/USA/PA-VSP2452/2021	OK246276
VSP2453	B.1.526	4/26/21	surveillance	99.7	3482	hCoV-19/USA/PA-VSP2453/2021	OK246277
VSP2454	B.1.526	4/26/21	surveillance	99.7	3751	hCoV-19/USA/PA-VSP2454/2021	OK246278
VSP2455	B.1.1.7	4/26/21	surveillance	99.7	3552	hCoV-19/USA/PA-VSP2455/2021	OK246279
VSP2456	B.1.1.7	4/26/21	surveillance	99.7	3178	hCoV-19/USA/PA-VSP2456/2021	OK246280
VSP2457	B.1.1.7	4/26/21	surveillance	96.5	320	hCoV-19/USA/PA-VSP2457/2021	
VSP2458	B.1.1.7	4/26/21	surveillance	99.7	3606	hCoV-19/USA/PA-VSP2458/2021	OK246281
VSP2459	B.1.2	4/26/21	surveillance	96.4	30	hCoV-19/USA/PA-VSP2459/2021	OK246282
VSP2461	B.1.1.7	4/26/21	surveillance	99.7	3309	hCoV-19/USA/PA-VSP2461/2021	OK246283
VSP2462	B.1.1.7	4/26/21	surveillance	99.7	3550	hCoV-19/USA/PA-VSP2462/2021	OK246284
VSP2463	B.1.1.7	4/26/21	surveillance	99.7	1573	hCoV-19/USA/PA-VSP2463/2021	OK246285
VSP2464	B.1.1.7	4/26/21	surveillance	99.7	4116	hCoV-19/USA/PA-VSP2464/2021	OK246286
VSP2465	B.1.637	4/26/21	surveillance	98.8	3783	hCoV-19/USA/PA-VSP2465/2021	OK246287
VSP2466	B.1.1.7	4/26/21	surveillance	99.5	1369	hCoV-19/USA/PA-VSP2466/2021	OK246288
VSP2467	B.1.575	4/26/21	surveillance	99.1	683	hCoV-19/USA/GA-VSP2467/2021	OK246289
VSP2468	B.1.1.7	4/26/21	surveillance	99.7	3145	hCoV-19/USA/PA-VSP2468/2021	OK246290
VSP2470	P.1	4/26/21	surveillance	99.7	3532	hCoV-19/USA/PA-VSP2470/2021	OK246291
VSP2471	P.1	4/26/21	surveillance	99.7	4224	hCoV-19/USA/PA-VSP2471/2021	OK246292
VSP2472	B.1.526	4/26/21	surveillance	99.7	4048	hCoV-19/USA/PA-VSP2472/2021	OK246293
VSP2474	B.1.526	4/26/21	surveillance	99.7	3448	hCoV-19/USA/PA-VSP2474/2021	OK246294
VSP2475	B.1.1.7	4/26/21	surveillance	99.7	3724	hCoV-19/USA/PA-VSP2475/2021	OK246295
VSP2476	P.1	4/26/21	surveillance	99.2	495	hCoV-19/USA/PA-VSP2476/2021	OK246296
VSP2477	B.1.1.7	4/26/21	surveillance	99.7	1764	hCoV-19/USA/PA-VSP2477/2021	OK246297
VSP2478	B.1.1.7	4/26/21	surveillance	99.7	1455	hCoV-19/USA/PA-VSP2478/2021	OK246298
VSP2479	B.1.526	4/26/21	surveillance	99.1	1975	hCoV-19/USA/PA-VSP2479/2021	OK246299
VSP2480	B.1.1.7	4/26/21	surveillance	99.7	3520	hCoV-19/USA/PA-VSP2480/2021	OK246300
VSP2481	B.1.526	4/26/21	surveillance	99.7	2626	hCoV-19/USA/PA-VSP2481/2021	OK246301
VSP2482	B.1.1.7	4/26/21	surveillance	99.7	2857	hCoV-19/USA/PA-VSP2482/2021	OK246302
VSP2483	B.1.1.7	4/26/21	surveillance	99.7	2969	hCoV-19/USA/PA-VSP2483/2021	OK246303
VSP2484	B.1.526	4/26/21	surveillance	99.7	3105	hCoV-19/USA/PA-VSP2484/2021	OK246304
VSP2486	B.1.2	4/26/21	surveillance	99.7	3356	hCoV-19/USA/PA-VSP2486/2021	OK246305

VSP2487	P.1	4/26/21	surveillance	99.7	1785	hCoV-19/USA/PA-VSP2487/2021	OK246306
VSP2488	B.1.1.7	4/26/21	surveillance	99.7	3378	hCoV-19/USA/PA-VSP2488/2021	OK246307
VSP2489	B.1.526	4/26/21	surveillance	99.1	3522	hCoV-19/USA/PA-VSP2489/2021	OK246308
VSP2490	P.1	4/26/21	surveillance	99.7	3496	hCoV-19/USA/PA-VSP2490/2021	OK246309
VSP2491	B.1.1.7	4/26/21	surveillance	99.7	3513	hCoV-19/USA/PA-VSP2491/2021	OK246310
VSP2492	B.1.1.7	4/26/21	surveillance	99.7	3229	hCoV-19/USA/AL-VSP2492/2021	OK246311
VSP2493	B.1.1.7	4/26/21	surveillance	99.7	957	hCoV-19/USA/PA-VSP2493/2021	OK246312
VSP2494	B.1.1.7	4/26/21	surveillance	99.7	4079	hCoV-19/USA/PA-VSP2494/2021	OK246313
VSP2495	B.1.1.7	4/26/21	surveillance	99.7	3732	hCoV-19/USA/PA-VSP2495/2021	OK246314
VSP2496	B.1.526	4/26/21	surveillance	99.7	2861	hCoV-19/USA/PA-VSP2496/2021	OK246315
VSP2497	P.1	4/26/21	surveillance	99.7	1158	hCoV-19/USA/PA-VSP2497/2021	OK246316
VSP2498	B.1.1.7	4/26/21	surveillance	99.7	3492	hCoV-19/USA/PA-VSP2498/2021	OK246317
VSP2499	B.1.526	4/26/21	surveillance	98.8	53	hCoV-19/USA/PA-VSP2499/2021	OK246318
VSP2500	B.1.1.7	4/26/21	surveillance	99.7	2166	hCoV-19/USA/PA-VSP2500/2021	OK246319
VSP2501	B.1.1.7	4/26/21	surveillance	99	81	hCoV-19/USA/PA-VSP2501/2021	OK246320
VSP2502	B.1.526	4/26/21	surveillance	99.2	2155	hCoV-19/USA/PA-VSP2502/2021	OK246321
VSP2503	B.1.1.7	4/26/21	surveillance	99.6	1011	hCoV-19/USA/PA-VSP2503/2021	OK246322
VSP2504	B.1.575	4/26/21	surveillance	99.7	1428	hCoV-19/USA/PA-VSP2504/2021	
VSP2505	B.1.617.2	4/26/21	surveillance	98.9	1271	hCoV-19/USA/PA-VSP2505/2021	OK246323
VSP2506	B.1.1.7	4/26/21	surveillance	99.6	1033	hCoV-19/USA/PA-VSP2506/2021	OK246324
VSP2507	P.1	4/26/21	surveillance	99.6	938	hCoV-19/USA/PA-VSP2507/2021	OK246325
VSP2508	B.1.1.7	4/26/21	surveillance	99.5	665	hCoV-19/USA/PA-VSP2508/2021	OK246326
VSP2509	B.1.526	4/26/21	surveillance	99.7	866	hCoV-19/USA/PA-VSP2509/2021	OK246327
VSP2510	R.1	4/26/21	surveillance	99.1	551	hCoV-19/USA/PA-VSP2510/2021	OK246328
VSP2511	B.1.526	4/26/21	surveillance	99.6	958	hCoV-19/USA/PA-VSP2511/2021	OK246329
VSP2512	B.1.1.7	4/26/21	surveillance	99.3	650	hCoV-19/USA/PA-VSP2512/2021	OK246330
VSP2513	B.1.526	4/26/21	surveillance	99.5	485	hCoV-19/USA/PA-VSP2513/2021	OK246331
VSP2514	B.1.1.7	4/26/21	surveillance	98.9	457	hCoV-19/USA/PA-VSP2514/2021	OK246332
VSP2515	B.1.1.7	4/26/21	surveillance	98.5	132	hCoV-19/USA/PA-VSP2515/2021	OK246333
VSP2516	B.1.526	4/26/21	surveillance	99.7	5937	hCoV-19/USA/PA-VSP2516/2021	OK246334
VSP2517	B.1.526	4/26/21	surveillance	99.7	3097	hCoV-19/USA/PA-VSP2517/2021	OK246335
VSP2518	B.1.526	4/26/21	surveillance	98.2	82	hCoV-19/USA/PA-VSP2518/2021	OK246336
VSP2519	B.1.1.7	4/26/21	surveillance	99.6	1049	hCoV-19/USA/PA-VSP2519/2021	OK246337
VSP2520	R.1	4/26/21	surveillance	99.7	1501	hCoV-19/USA/PA-VSP2520/2021	OK246338
VSP2521	B.1.1.7	4/26/21	surveillance	99.6	756	hCoV-19/USA/LA-VSP2521/2021	OK246339
VSP2522	B.1.1.7	4/26/21	surveillance	99.5	486	hCoV-19/USA/PA-VSP2522/2021	OK246340
VSP2523	B.1.637	4/26/21	surveillance	99.4	216	hCoV-19/USA/PA-VSP2523/2021	OK246341
VSP2524	B.1.1.7	4/26/21	surveillance	99.6	634	hCoV-19/USA/NJ-VSP2524/2021	OK246342
VSP2525	B.1.1.7	4/26/21	surveillance	99.6	1375	hCoV-19/USA/PA-VSP2525/2021	OK246343
VSP2526	B.1.1.7	4/26/21	surveillance	99.7	2001	hCoV-19/USA/PA-VSP2526/2021	OK246344
VSP2527	B.1.525	4/26/21	surveillance	99.3	485	hCoV-19/USA/PA-VSP2527/2021	
VSP2528	B.1.1.7	4/26/21	surveillance	99.6	981	hCoV-19/USA/PA-VSP2528/2021	OK246345
VSP2529	B.1.1.7	4/26/21	surveillance	99.7	1401	hCoV-19/USA/PA-VSP2529/2021	OK246346
VSP2530	B.1.1.7	4/26/21	surveillance	99	95	hCoV-19/USA/PA-VSP2530/2021	OK246347
VSP2534	B.1.1.7	4/26/21	surveillance	99.3	169	hCoV-19/USA/PA-VSP2534/2021	OK246348
VSP2535	B.1.1.7	4/26/21	surveillance	99.6	564	hCoV-19/USA/PA-VSP2535/2021	OK246349
VSP2536	B.1.1.7	4/26/21	surveillance	99.7	2041	hCoV-19/USA/PA-VSP2536/2021	OK246350

VSP2537	B.1.1.7	4/26/21	surveillance	99.7	1315	hCoV-19/USA/PA-VSP2537/2021	OK246351
VSP2538	B.1.526	4/26/21	surveillance	99.3	415	hCoV-19/USA/PA-VSP2538/2021	OK246352
VSP2539	B.1.621	4/26/21	surveillance	99.7	904	hCoV-19/USA/PA-VSP2539/2021	OK246353
VSP2540	B.1.621	4/26/21	surveillance	99.7	1135	hCoV-19/USA/PA-VSP2540/2021	OK246354
VSP2541	B.1.1.7	4/26/21	surveillance	99.7	1272	hCoV-19/USA/PA-VSP2541/2021	OK246355
VSP2542	B.1.1.7	4/26/21	surveillance	99.6	682	hCoV-19/USA/PA-VSP2542/2021	OK246356
VSP2544	B.1.526	4/26/21	surveillance	99.6	3096	hCoV-19/USA/NJ-VSP2544/2021	OK246357
VSP2545	B.1.1.7	4/26/21	surveillance	99.3	605	hCoV-19/USA/NJ-VSP2545/2021	OK246358
VSP2546	B.1.637	4/26/21	surveillance	99.7	2327	hCoV-19/USA/NJ-VSP2546/2021	OK246359
VSP2547	B.1.1.7	4/26/21	surveillance	99.7	2779	hCoV-19/USA/NJ-VSP2547/2021	OK246360
VSP2550	B.1.1.519	4/26/21	surveillance	99.7	2458	hCoV-19/USA/NJ-VSP2550/2021	OK246361
VSP2551	C.37	4/26/21	surveillance	99.7	2114	hCoV-19/USA/NJ-VSP2551/2021	OK246362
VSP2552	B.1.1.7	4/26/21	surveillance	99.7	3765	hCoV-19/USA/NJ-VSP2552/2021	OK246363
VSP2553	B.1.1.7	4/26/21	surveillance	99.7	3061	hCoV-19/USA/PA-VSP2553/2021	OK246364
VSP2554	B.1.526	4/26/21	surveillance	99.7	2678	hCoV-19/USA/PA-VSP2554/2021	OK246365
VSP2555	B.1.1.7	4/26/21	surveillance	99.7	3003	hCoV-19/USA/PA-VSP2555/2021	OK246366
VSP2556	B.1.526	4/26/21	surveillance	99.6	3453	hCoV-19/USA/PA-VSP2556/2021	OK246367
VSP2557	B.1.1.7	4/26/21	surveillance	99.7	2258	hCoV-19/USA/PA-VSP2557/2021	OK246368
VSP2558	B.1.1.7	4/26/21	surveillance	99.7	1494	hCoV-19/USA/PA-VSP2558/2021	OK246369
VSP2559	B.1.1.7	4/26/21	surveillance	99.7	2633	hCoV-19/USA/PA-VSP2559/2021	OK246370
VSP2560	B.1.1.7	4/26/21	surveillance	99	679	hCoV-19/USA/PA-VSP2560/2021	OK246371
VSP2561	B.1.621	4/26/21	surveillance	99.7	3259	hCoV-19/USA/PA-VSP2561/2021	OK246372
VSP2562	B.1.1.7	4/26/21	surveillance	99.7	3268	hCoV-19/USA/PA-VSP2562/2021	OK246373
VSP2563	P.1	4/26/21	surveillance	99.7	2105	hCoV-19/USA/PA-VSP2563/2021	OK246374
VSP2564	B.1.526	4/26/21	surveillance	99.7	2761	hCoV-19/USA/NJ-VSP2564/2021	OK246375
VSP2565	B.1.621	4/26/21	surveillance	99.7	5354	hCoV-19/USA/PA-VSP2565/2021	OK246376
VSP2567	B.1.621	4/26/21	surveillance	99.7	1441	hCoV-19/USA/VA-VSP2567/2021	OK246377
VSP2568	Q.4	4/26/21	surveillance	99.7	1228	hCoV-19/USA/NJ-VSP2568/2021	OK246378
VSP2570	B.1.1.7	5/4/21	accine breakthroug	99.4	393	hCoV-19/USA/NJ-VSP2570/2021	OK246379
VSP2571	B.1.637	5/4/21	surveillance	99	1230	hCoV-19/USA/PA-VSP2571/2021	OK246380
VSP2572	B.1.1.7	5/4/21	surveillance	99.7	2182	hCoV-19/USA/PA-VSP2572/2021	OK246381
VSP2573	B.1.526	5/4/21	surveillance	99.7	1621	hCoV-19/USA/PA-VSP2573/2021	OK246382
VSP2574	B.1.526	5/4/21	surveillance	99.7	1867	hCoV-19/USA/PA-VSP2574/2021	OK246383
VSP2575	B.1.1.7	5/4/21	surveillance	99.7	772	hCoV-19/USA/PA-VSP2575/2021	OK246384
VSP2576	B.1.621	5/4/21	surveillance	99	153	hCoV-19/USA/PA-VSP2576/2021	OK246385
VSP2577	B.1.1.7	5/4/21	surveillance	99.7	1747	hCoV-19/USA/PA-VSP2577/2021	OK246386
VSP2578	P.1.10	5/4/21	surveillance	99.7	1615	hCoV-19/USA/PA-VSP2578/2021	OK246387
VSP2579	B.1.1.7	5/4/21	surveillance	99.7	1091	hCoV-19/USA/PA-VSP2579/2021	OK246388
VSP2580	B.1.526	5/4/21	surveillance	99.7	1507	hCoV-19/USA/PA-VSP2580/2021	OK246389
VSP2581	B.1.1.7	5/4/21	surveillance	99.7	1819	hCoV-19/USA/PA-VSP2581/2021	OK246390
VSP2582	B.1.1.7	5/4/21	surveillance	99.7	1465	hCoV-19/USA/PA-VSP2582/2021	OK246391
VSP2583	B.1.526	5/4/21	surveillance	99.6	525	hCoV-19/USA/PA-VSP2583/2021	OK246392
VSP2584	B.1.621	5/4/21	surveillance	99.7	1699	hCoV-19/USA/PA-VSP2584/2021	OK246393
VSP2585	B.1.1.7	5/4/21	surveillance	99.7	1540	hCoV-19/USA/PA-VSP2585/2021	OK246394
VSP2586	B.1.1.7	5/4/21	surveillance	99.7	1526	hCoV-19/USA/PA-VSP2586/2021	OK246395
VSP2587	B.1.1.7	5/4/21	surveillance	99.7	1646	hCoV-19/USA/PA-VSP2587/2021	OK246396
VSP2588	B.1.1.7	5/4/21	surveillance	99.7	3546	hCoV-19/USA/PA-VSP2588/2021	OK246397

VSP2589	B.1.1.7	5/4/21	surveillance	99.7	3589	hCoV-19/USA/PA-VSP2589/2021	OK246398
VSP2590	B.1.1.7	5/4/21	surveillance	99.7	2078	hCoV-19/USA/PA-VSP2590/2021	OK246399
VSP2591	B.1.1.7	5/4/21	surveillance	99.7	3258	hCoV-19/USA/NJ-VSP2591/2021	OK246400
VSP2592	B.1.526	5/4/21	surveillance	99.7	2193	hCoV-19/USA/PA-VSP2592/2021	OK246401
VSP2593	B.1.1.7	5/4/21	surveillance	99.7	3414	hCoV-19/USA/PA-VSP2593/2021	OK246402
VSP2594	B.1.637	5/4/21	surveillance	99.7	3435	hCoV-19/USA/PA-VSP2594/2021	OK246403
VSP2595	B.1.1.7	5/4/21	surveillance	99.7	4077	hCoV-19/USA/PA-VSP2595/2021	OK246404
VSP2596	B.1.1.7	5/4/21	surveillance	99.7	3116	hCoV-19/USA/PA-VSP2596/2021	OK246405
VSP2597	B.1.1.7	5/4/21	surveillance	99.7	3651	hCoV-19/USA/PA-VSP2597/2021	OK246406
VSP2599	B.1.1.7	5/4/21	surveillance	99.7	2337	hCoV-19/USA/PA-VSP2599/2021	OK246407
VSP2600	B.1.1.7	5/4/21	surveillance	99.7	4114	hCoV-19/USA/PA-VSP2600/2021	OK246408
VSP2601	B.1.1.7	5/4/21	surveillance	99.7	3460	hCoV-19/USA/PA-VSP2601/2021	OK246409
VSP2602	B.1.637	5/4/21	surveillance	99.7	3454	hCoV-19/USA/PA-VSP2602/2021	OK246410
VSP2603	R.1	5/4/21	surveillance	99.7	2619	hCoV-19/USA/PA-VSP2603/2021	OK246411
VSP2604	B.1.1.7	5/4/21	surveillance	99.7	2130	hCoV-19/USA/PA-VSP2604/2021	OK246412
VSP2605	B.1.621	5/4/21	surveillance	99.7	2801	hCoV-19/USA/PA-VSP2605/2021	OK246413
VSP2606	B.1.1.7	5/4/21	surveillance	99.7	3680	hCoV-19/USA/PA-VSP2606/2021	OK246414
VSP2607	B.1.1.7	5/4/21	surveillance	99.7	1655	hCoV-19/USA/PA-VSP2607/2021	OK246415
VSP2608	B.1.621	5/4/21	surveillance	99.7	2702	hCoV-19/USA/PA-VSP2608/2021	OK246416
VSP2609	B.1.1.519	5/4/21	surveillance	99.7	2935	hCoV-19/USA/PA-VSP2609/2021	OK246417
VSP2610	B.1.526	5/4/21	surveillance	99.7	2924	hCoV-19/USA/PA-VSP2610/2021	OK246418
VSP2611	B.1.1.7	5/4/21	surveillance	99.7	3342	hCoV-19/USA/PA-VSP2611/2021	OK246419
VSP2612	P.1	5/4/21	surveillance	99.7	4062	hCoV-19/USA/PA-VSP2612/2021	OK246420
VSP2613	B.1.1.7	5/4/21	surveillance	98.6	363	hCoV-19/USA/PA-VSP2613/2021	OK246421
VSP2614	B.1.526	5/4/21	surveillance	99.7	3072	hCoV-19/USA/PA-VSP2614/2021	OK246422
VSP2615	B.1.1.7	5/4/21	surveillance	99.7	3178	hCoV-19/USA/PA-VSP2615/2021	OK246423
VSP2616	B.1.1.7	5/4/21	surveillance	99.7	3592	hCoV-19/USA/PA-VSP2616/2021	OK246424
VSP2617	B.1.1.7	5/4/21	surveillance	99.7	3172	hCoV-19/USA/PA-VSP2617/2021	OK246425
VSP2618	B.1.1.7	5/4/21	surveillance	99.7	4175	hCoV-19/USA/PA-VSP2618/2021	OK246426
VSP2619	B.1.526	5/4/21	surveillance	99.7	4226	hCoV-19/USA/PA-VSP2619/2021	OK246427
VSP2620	B.1.1.7	5/4/21	surveillance	99.7	3207	hCoV-19/USA/PA-VSP2620/2021	OK246428
VSP2621	B.1.526	5/4/21	surveillance	99.7	3973	hCoV-19/USA/PA-VSP2621/2021	OK246429
VSP2622	B.1.1.7	5/4/21	surveillance	99.7	1260	hCoV-19/USA/PA-VSP2622/2021	OK246430
VSP2623	B.1.526	5/4/21	surveillance	99.7	3865	hCoV-19/USA/PA-VSP2623/2021	OK246431
VSP2624	B.1.1.7	5/4/21	surveillance	99.7	3724	hCoV-19/USA/PA-VSP2624/2021	OK246432
VSP2625	B.1.526	5/4/21	surveillance	99.7	4135	hCoV-19/USA/PA-VSP2625/2021	OK246433
VSP2626	B.1.1.7	5/4/21	surveillance	99.7	3956	hCoV-19/USA/PA-VSP2626/2021	OK246434
VSP2627	B.1.1.7	5/4/21	surveillance	99.7	3510	hCoV-19/USA/PA-VSP2627/2021	OK246435
VSP2628	B.1.1.7	5/4/21	surveillance	99.7	3631	hCoV-19/USA/PA-VSP2628/2021	OK246436
VSP2629	B.1.1.7	5/4/21	surveillance	99.7	4355	hCoV-19/USA/PA-VSP2629/2021	OK246437
VSP2630	B.1.1.7	5/4/21	surveillance	97.6	113	hCoV-19/USA/PA-VSP2630/2021	OK246438
VSP2631	P.1.10	5/4/21	surveillance	98.9	611	hCoV-19/USA/DE-VSP2631/2021	OK246439
VSP2632	B.1.1.7	5/4/21	surveillance	99.7	2995	hCoV-19/USA/PA-VSP2632/2021	OK246440
VSP2634	B.1.526	5/4/21	surveillance	99.7	2297	hCoV-19/USA/VSP2634/2021	MZ512878
VSP2635	B.1.526	5/4/21	surveillance	99.7	2008	hCoV-19/USA/VSP2635/2021	MZ512879
VSP2636	B.1.1.7	5/4/21	surveillance	99.7	2774	hCoV-19/USA/VSP2636/2021	MZ512880
VSP2638	B.1.1.7	5/4/21	surveillance	99.4	213	hCoV-19/USA/VSP2638/2021	MZ512881

VSP2639	P.1	5/4/21	surveillance	99.6	119	hCoV-19/USA/VSP2639/2021	MZ512882
VSP2640	B.1.1.7	5/4/21	surveillance	97.7	100	hCoV-19/USA/VSP2640/2021	MZ512883
VSP2641	B.1.1.7	5/4/21	surveillance	95.6	31	hCoV-19/USA/VSP2641/2021	MZ512884
VSP2642	B.1.637	5/4/21	surveillance	96.2	54	hCoV-19/USA/VSP2642/2021	MZ512885
VSP2643	B.1	5/4/21	surveillance	96.5	41	hCoV-19/USA/VSP2643/2021	MZ512886
VSP2646	B.1.351	5/4/21	surveillance	98.9	215	hCoV-19/USA/VSP2646/2021	MZ512887
VSP2648	B.1.1.7	5/4/21	surveillance	99.6	224	hCoV-19/USA/VSP2648/2021	MZ512888
VSP2649	P.1	5/4/21	surveillance	96.7	58	hCoV-19/USA/VSP2649/2021	MZ512889
VSP2652	B.1.526	5/4/21	surveillance	96.2	58	hCoV-19/USA/VSP2652/2021	MZ512890
VSP2653	B.1.526	5/4/21	surveillance	96.8	61	hCoV-19/USA/VSP2653/2021	MZ512891
VSP2655	B.1.526	5/4/21	surveillance	96	111	hCoV-19/USA/VSP2655/2021	MZ512892
VSP2656	B.1.526	5/4/21	surveillance	99.3	232	hCoV-19/USA/VSP2656/2021	MZ512893
VSP2657	B.1.1.7	5/4/21	surveillance	99	59	hCoV-19/USA/VSP2657/2021	MZ512894
VSP2658	B.1.1.7	5/4/21	surveillance	98	97	hCoV-19/USA/VSP2658/2021	MZ512895
VSP2659	B.1.1.7	5/4/21	surveillance	98.3	141	hCoV-19/USA/VSP2659/2021	MZ512896
VSP2661	B.1.1.7	5/4/21	surveillance	99.3	149	hCoV-19/USA/VSP2661/2021	MZ512897
VSP2662	B.1.1.519	5/4/21	surveillance	98.2	60	hCoV-19/USA/VSP2662/2021	MZ512898
VSP2663	B.1.1.7	5/4/21	surveillance	99.6	251	hCoV-19/USA/VSP2663/2021	MZ512899
VSP2664	B.1.526	5/4/21	surveillance	99.5	187	hCoV-19/USA/VSP2664/2021	MZ512900
VSP2665	B.1.1.7	5/4/21	surveillance	99	166	hCoV-19/USA/VSP2665/2021	MZ512901
VSP2666	B.1.1.7	5/4/21	surveillance	99	65	hCoV-19/USA/VSP2666/2021	MZ512902
VSP2667	B.1.1.7	5/4/21	surveillance	98.2	40	hCoV-19/USA/VSP2667/2021	MZ512903
VSP2668	B.1.1.7	5/4/21	surveillance	99.5	239	hCoV-19/USA/VSP2668/2021	MZ512904
VSP2669	B.1.1.7	5/4/21	surveillance	99.6	158	hCoV-19/USA/VSP2669/2021	MZ512905
VSP2670	B.1.637	5/4/21	surveillance	99.6	246	hCoV-19/USA/VSP2670/2021	MZ512906
VSP2671	B.1.1.7	5/4/21	surveillance	99.1	169	hCoV-19/USA/VSP2671/2021	MZ512907
VSP2672	B.1.1.7	5/4/21	surveillance	99.1	107	hCoV-19/USA/VSP2672/2021	MZ512908
VSP2673	B.1.1.7	5/4/21	surveillance	99.4	153	hCoV-19/USA/VSP2673/2021	MZ512909
VSP2674	B.1.1.7	5/4/21	surveillance	98.6	95	hCoV-19/USA/VSP2674/2021	MZ512910
VSP2675	B.1.1.7	5/4/21	surveillance	99.6	401	hCoV-19/USA/VSP2675/2021	MZ512911
VSP2676	B.1.1.7	5/4/21	surveillance	96.9	40	hCoV-19/USA/VSP2676/2021	MZ512912
VSP2679	B.1.1.7	5/4/21	surveillance	99.3	288	hCoV-19/USA/VSP2679/2021	MZ512913
VSP2680	B.1.1.7	5/4/21	surveillance	97.9	78	hCoV-19/USA/VSP2680/2021	MZ512914
VSP2681	B.1.1.7	5/4/21	surveillance	99.4	193	hCoV-19/USA/VSP2681/2021	MZ512915
VSP2682	B.1.621	5/4/21	surveillance	99.7	192	hCoV-19/USA/VSP2682/2021	MZ512916
VSP2683	B.1.1.7	5/4/21	surveillance	98.2	57	hCoV-19/USA/VSP2683/2021	MZ512917
VSP2712	B.1.1.7	5/10/21	accine breakthroug	99.7	1489	hCoV-19/USA/PA-VSP2712/2021	OK246441
VSP2714	B.1.1.7	5/10/21	accine breakthroug	99.7	1734	hCoV-19/USA/PA-VSP2714/2021	OK246442
VSP2715	P.1	5/10/21	accine breakthroug	99.7	1743	hCoV-19/USA/NJ-VSP2715/2021	OK246443
VSP2716	B.1.1.7	5/10/21	accine breakthroug	99.7	859	hCoV-19/USA/PA-VSP2716/2021	OK246444
VSP2717	B.1.1.7	5/10/21	accine breakthroug	99.6	1516	hCoV-19/USA/PA-VSP2717/2021	OK246445
VSP2721	B.1.1.7	5/10/21	surveillance	99.7	1530	hCoV-19/USA/PA-VSP2721/2021	OK246449
VSP2722	B.1.1.7	5/10/21	surveillance	99.7	1293	hCoV-19/USA/PA-VSP2722/2021	OK246450
VSP2723	B.1.1.7	5/10/21	surveillance	99.7	1935	hCoV-19/USA/PA-VSP2723/2021	OK246451
VSP2724	B.1.1.7	5/10/21	surveillance	99.6	1505	hCoV-19/USA/PA-VSP2724/2021	OK246452
VSP2725	B.1.1.7	5/10/21	surveillance	99.2	471	hCoV-19/USA/PA-VSP2725/2021	OK246453
VSP2726	B.1.1.7	5/10/21	surveillance	99.7	1724	hCoV-19/USA/PA-VSP2726/2021	OK246454

VSP2727	B.1.617.2	5/10/21	surveillance	99.7	1770	hCoV-19/USA/PA-VSP2727/2021	OK246455
VSP2728	B.1.1.7	5/10/21	surveillance	99.7	2234	hCoV-19/USA/PA-VSP2728/2021	OK246456
VSP2729	B.1.1.7	5/10/21	surveillance	99.7	2110	hCoV-19/USA/PA-VSP2729/2021	OK246457
VSP2730	B.1.1.7	5/10/21	surveillance	99.6	1785	hCoV-19/USA/PA-VSP2730/2021	OK246458
VSP2731	B.1.1.7	5/10/21	surveillance	99.5	804	hCoV-19/USA/PA-VSP2731/2021	OK246459
VSP2732	B.1.526	5/10/21	surveillance	99.4	2084	hCoV-19/USA/PA-VSP2732/2021	OK246460
VSP2733	B.1.1.7	5/10/21	surveillance	99.6	968	hCoV-19/USA/PA-VSP2733/2021	OK246461
VSP2735	B.1.525	5/10/21	surveillance	98.4	1792	hCoV-19/USA/PA-VSP2735/2021	
VSP2737	B.1.526	5/10/21	surveillance	99	577	hCoV-19/USA/PA-VSP2737/2021	OK246462
VSP2738	B.1.1.7	5/10/21	surveillance	99.7	3225	hCoV-19/USA/NJ-VSP2738/2021	OK246463
VSP2739	P.1	5/10/21	surveillance	99.7	3006	hCoV-19/USA/NJ-VSP2739/2021	OK246464
VSP2740	B.1.1.7	5/10/21	surveillance	99.7	549	hCoV-19/USA/NJ-VSP2740/2021	OK246465
VSP2741	B.1.526	5/10/21	surveillance	99.7	2418	hCoV-19/USA/NJ-VSP2741/2021	OK246466
VSP2742	B.1.526	5/10/21	surveillance	99.7	2768	hCoV-19/USA/NJ-VSP2742/2021	OK246467
VSP2743	B.1.1.7	5/10/21	surveillance	99	645	hCoV-19/USA/NJ-VSP2743/2021	OK246468
VSP2744	B.1.1.7	5/10/21	surveillance	99.7	1712	hCoV-19/USA/PA-VSP2744/2021	OK246469
VSP2745	B.1.1.7	5/10/21	surveillance	99.1	1735	hCoV-19/USA/PA-VSP2745/2021	OK246470
VSP2746	B.1.1.7	5/10/21	surveillance	99.6	3044	hCoV-19/USA/PA-VSP2746/2021	OK246471
VSP2747	P.1	5/10/21	surveillance	99.7	2400	hCoV-19/USA/PA-VSP2747/2021	OK246472
VSP2748	B.1.1.7	5/10/21	surveillance	99.1	987	hCoV-19/USA/PA-VSP2748/2021	OK246473
VSP2749	B.1.1.7	5/10/21	surveillance	99.5	3288	hCoV-19/USA/NJ-VSP2749/2021	OK246474
VSP2750	B.1.1.7	5/10/21	surveillance	98.5	120	hCoV-19/USA/PA-VSP2750/2021	OK246475
VSP2751	B.1.1.7	5/10/21	surveillance	99.6	3355	hCoV-19/USA/PA-VSP2751/2021	OK246476
VSP2752	B.1.1.7	5/10/21	surveillance	99.7	2408	hCoV-19/USA/NJ-VSP2752/2021	OK246477
VSP2753	B.1.1.7	5/10/21	surveillance	99.7	3097	hCoV-19/USA/PA-VSP2753/2021	OK246478
VSP2755	B.1.526	5/10/21	surveillance	99.1	624	hCoV-19/USA/PA-VSP2755/2021	OK246479
VSP2756	B.1.1.7	5/10/21	surveillance	99.7	1626	hCoV-19/USA/PA-VSP2756/2021	OK246480
VSP2757	B.1.1.7	5/10/21	surveillance	99.7	3336	hCoV-19/USA/NJ-VSP2757/2021	OK246481
VSP2759	B.1.1.7	5/10/21	surveillance	99.7	2897	hCoV-19/USA/PA-VSP2759/2021	OK246482
VSP2760	B.1.1.7	5/10/21	surveillance	99.1	2109	hCoV-19/USA/PA-VSP2760/2021	OK246483
VSP2761	B.1.526	5/10/21	surveillance	99.6	1322	hCoV-19/USA/PA-VSP2761/2021	OK246484
VSP2762	B.1.526	5/10/21	surveillance	99.6	2361	hCoV-19/USA/PA-VSP2762/2021	OK246485
VSP2763	B.1.1.7	5/10/21	surveillance	99.7	2974	hCoV-19/USA/PA-VSP2763/2021	OK246486
VSP2767	B.1.526	5/10/21	surveillance	99.1	1862	hCoV-19/USA/PA-VSP2767/2021	OK246487
VSP2768	B.1.1.519	5/10/21	surveillance	99.7	1042	hCoV-19/USA/PA-VSP2768/2021	OK246488
VSP2769	B.1.1.7	5/10/21	surveillance	99.7	2195	hCoV-19/USA/PA-VSP2769/2021	OK246489
VSP2770	B.1.1.7	5/10/21	surveillance	99.1	284	hCoV-19/USA/PA-VSP2770/2021	OK246490
VSP2771	B.1.526	5/10/21	surveillance	99.7	2827	hCoV-19/USA/PA-VSP2771/2021	OK246491
VSP2772	B.1.1.7	5/10/21	surveillance	99.7	2787	hCoV-19/USA/PA-VSP2772/2021	OK246492
VSP2773	B.1.1.7	5/10/21	surveillance	99.7	3055	hCoV-19/USA/PA-VSP2773/2021	OK246493
VSP2774	B.1.526	5/10/21	surveillance	99.7	1047	hCoV-19/USA/PA-VSP2774/2021	OK246494
VSP2776	B.1.1.7	5/10/21	surveillance	99.7	2908	hCoV-19/USA/PA-VSP2776/2021	OK246495
VSP2777	B.1.1.7	5/10/21	surveillance	99.7	1406	hCoV-19/USA/PA-VSP2777/2021	OK246496
VSP2778	B.1.1.7	5/10/21	surveillance	99.7	2467	hCoV-19/USA/PA-VSP2778/2021	OK246497
VSP2779	B.1.526	5/10/21	surveillance	99.7	3023	hCoV-19/USA/PA-VSP2779/2021	OK246498
VSP2780	B.1.526	5/10/21	surveillance	99.7	3839	hCoV-19/USA/PA-VSP2780/2021	OK246499
VSP2783	B.1.526	5/10/21	surveillance	99.7	3065	hCoV-19/USA/NJ-VSP2783/2021	OK246500

VSP2784	B.1.637	5/10/21	surveillance	99.7	2792	hCoV-19/USA/NJ-VSP2784/2021	OK246501
VSP2785	B.1.1.7	5/10/21	surveillance	99.7	1060	hCoV-19/USA/PA-VSP2785/2021	OK246502
VSP2786	B.1.1.7	5/10/21	surveillance	99.1	676	hCoV-19/USA/PA-VSP2786/2021	OK246503
VSP2787	B.1.1.7	5/10/21	surveillance	99.5	1049	hCoV-19/USA/PA-VSP2787/2021	
VSP2788	B.1.1.7	5/10/21	surveillance	99.7	2687	hCoV-19/USA/PA-VSP2788/2021	OK246504
VSP2789	B.1.1.7	5/10/21	surveillance	99.7	1970	hCoV-19/USA/PA-VSP2789/2021	OK246505
VSP2790	B.1.1.7	5/10/21	surveillance	99.6	906	hCoV-19/USA/DE-VSP2790/2021	OK246506
VSP2791	B.1.526	5/10/21	surveillance	99.7	2238	hCoV-19/USA/PA-VSP2791/2021	OK246507
VSP2792	B.1.1.7	5/10/21	surveillance	99.7	973	hCoV-19/USA/PA-VSP2792/2021	OK246508
VSP2793	B.1.1.7	5/10/21	surveillance	99.7	3365	hCoV-19/USA/PA-VSP2793/2021	OK246509
VSP2794	B.1.526	5/10/21	surveillance	99.7	1753	hCoV-19/USA/PA-VSP2794/2021	OK246510
VSP2795	B.1.526	5/10/21	surveillance	99.7	1025	hCoV-19/USA/PA-VSP2795/2021	OK246511
VSP2796	B.1.526	5/10/21	surveillance	99.7	4497	hCoV-19/USA/PA-VSP2796/2021	OK246512
VSP2797	B.1.1.7	5/10/21	surveillance	99.7	3643	hCoV-19/USA/PA-VSP2797/2021	OK246513
VSP2798	B.1.1.7	5/10/21	surveillance	99.7	4078	hCoV-19/USA/PA-VSP2798/2021	OK246514
VSP2799	B.1.1.7	5/10/21	surveillance	99.3	364	hCoV-19/USA/PA-VSP2799/2021	OK246515
VSP2803	B.1.1.7	5/18/21	accine breakthroug	99.7	64319	hCoV-19/USA/PA-VSP2803/2021	OK246516
VSP2805	B.1.1.7	5/18/21	surveillance	99.7	2215	hCoV-19/USA/PA-VSP2805/2021	OK246518
VSP2806	B.1.1.7	5/18/21	surveillance	99.7	5888	hCoV-19/USA/DE-VSP2806/2021	OK246519
VSP2807	B.1.1.7	5/18/21	surveillance	99.7	3251	hCoV-19/USA/PA-VSP2807/2021	OK246520
VSP2808	B.1.1.7	5/18/21	surveillance	99.7	4046	hCoV-19/USA/PA-VSP2808/2021	OK246521
VSP2809	B.1.621	5/18/21	surveillance	99.7	1616	hCoV-19/USA/PA-VSP2809/2021	OK246522
VSP2811	B.1.1.7	5/18/21	surveillance	99.7	15875	hCoV-19/USA/PA-VSP2811/2021	OK246523
VSP2812	B.1.621	5/18/21	surveillance	99.7	5967	hCoV-19/USA/PA-VSP2812/2021	OK246524
VSP2813	B.1.1.7	5/18/21	surveillance	99.7	14255	hCoV-19/USA/PA-VSP2813/2021	OK246525
VSP2815	B.1.1.7	5/18/21	surveillance	99.7	7964	hCoV-19/USA/PA-VSP2815/2021	OK246526
VSP2816	B.1.1.7	5/18/21	surveillance	99.7	17677	hCoV-19/USA/PA-VSP2816/2021	OK246527
VSP2817	B.1.1.7	5/18/21	surveillance	99	61634	hCoV-19/USA/PA-VSP2817/2021	OK246528
VSP2818	B.1.1.7	5/18/21	surveillance	99.5	661	hCoV-19/USA/PA-VSP2818/2021	OK246529
VSP2819	B.1.526	5/18/21	surveillance	99.7	3396	hCoV-19/USA/NJ-VSP2819/2021	OK246530
VSP2820	B.1.1.7	5/18/21	surveillance	99.7	2519	hCoV-19/USA/PA-VSP2820/2021	OK246531
VSP2822	B.1.1.7	5/18/21	surveillance	99.6	1278	hCoV-19/USA/PA-VSP2822/2021	OK246532
VSP2823	B.1.526	5/18/21	surveillance	99.7	4278	hCoV-19/USA/PA-VSP2823/2021	OK246533
VSP2824	B.1.526	5/18/21	surveillance	99.7	2361	hCoV-19/USA/PA-VSP2824/2021	OK246534
VSP2825	B.1.526	5/18/21	surveillance	99.1	1261	hCoV-19/USA/PA-VSP2825/2021	OK246535
VSP2826	P.1	5/18/21	surveillance	99.5	1007	hCoV-19/USA/PA-VSP2826/2021	OK246536
VSP2827	B.1.1.7	5/18/21	surveillance	99.7	992	hCoV-19/USA/PA-VSP2827/2021	OK246537
VSP2828	B.1.526	5/18/21	surveillance	99	129	hCoV-19/USA/PA-VSP2828/2021	OK246538
VSP2829	B.1.1.7	5/18/21	surveillance	99.6	930	hCoV-19/USA/PA-VSP2829/2021	OK246539
VSP2830	P.1	5/18/21	surveillance	99.6	2790	hCoV-19/USA/PA-VSP2830/2021	OK246540
VSP2831	B.1.1.7	5/18/21	surveillance	99.1	681	hCoV-19/USA/PA-VSP2831/2021	OK246541
VSP2832	B.1.1.7	5/18/21	surveillance	99.7	999	hCoV-19/USA/PA-VSP2832/2021	OK246542
VSP2833	B.1.526	5/18/21	surveillance	99.7	3923	hCoV-19/USA/PA-VSP2833/2021	OK246543
VSP2834	B.1.1.7	5/18/21	surveillance	99.7	2907	hCoV-19/USA/PA-VSP2834/2021	OK246544
VSP2836	P.1.10	5/18/21	surveillance	99.7	734	hCoV-19/USA/PA-VSP2836/2021	OK246545
VSP2837	B.1.526	5/18/21	surveillance	99.7	3925	hCoV-19/USA/PA-VSP2837/2021	OK246546
VSP2838	B.1.1.7	5/18/21	surveillance	99.1	298	hCoV-19/USA/PA-VSP2838/2021	OK246547

VSP2839	B.1.1.7	5/18/21	surveillance	96.7	238	hCoV-19/USA/PA-VSP2839/2021	OK246548
VSP2840	B.1.637	5/18/21	surveillance	98.7	4398	hCoV-19/USA/PA-VSP2840/2021	OK246549
VSP2842	B.1.2	5/18/21	surveillance	99.7	3857	hCoV-19/USA/PA-VSP2842/2021	OK246550
VSP2843	B.1.526	5/18/21	surveillance	99.7	2748	hCoV-19/USA/PA-VSP2843/2021	OK246551
VSP2844	B.1.526	5/18/21	surveillance	98.5	860	hCoV-19/USA/PA-VSP2844/2021	
VSP2845	B.1.1.7	5/18/21	surveillance	99.7	1835	hCoV-19/USA/PA-VSP2845/2021	OK246552
VSP2846	B.1.525	5/18/21	surveillance	99.4	5486	hCoV-19/USA/PA-VSP2846/2021	
VSP2847	B.1.526	5/18/21	surveillance	99.7	1538	hCoV-19/USA/PA-VSP2847/2021	OK246553
VSP2848	B.1.1.7	5/18/21	surveillance	99.7	882	hCoV-19/USA/PA-VSP2848/2021	OK246554
VSP2849	B.1.1.7	5/18/21	surveillance	99.1	206	hCoV-19/USA/PA-VSP2849/2021	OK246555
VSP2850	B.1.525	5/18/21	surveillance	99.5	2231	hCoV-19/USA/PA-VSP2850/2021	
VSP2851	B.1.526	5/18/21	surveillance	99.7	4653	hCoV-19/USA/PA-VSP2851/2021	OK246556
VSP2853	B.1.526	5/18/21	surveillance	99.6	1906	hCoV-19/USA/PA-VSP2853/2021	OK246557
VSP2854	B.1.1.7	5/18/21	surveillance	99.1	2055	hCoV-19/USA/PA-VSP2854/2021	OK246558
VSP2857	B.1.1.7	5/18/21	surveillance	99.7	2430	hCoV-19/USA/PA-VSP2857/2021	OK246559
VSP2858	B.1.526	5/18/21	surveillance	99.7	68262	hCoV-19/USA/PA-VSP2858/2021	OK246560
VSP2859	B.1.1.7	5/18/21	surveillance	99.7	57833	hCoV-19/USA/PA-VSP2859/2021	OK246561
VSP2860	P.1.2	5/18/21	surveillance	99.7	4359	hCoV-19/USA/PA-VSP2860/2021	OK246562
VSP2861	B.1.637	5/18/21	surveillance	99.7	3271	hCoV-19/USA/PA-VSP2861/2021	OK246563
VSP2863	B.1.1.7	5/18/21	surveillance	99.7	2271	hCoV-19/USA/PA-VSP2863/2021	OK246564
VSP2864	B.1.1.7	5/18/21	surveillance	99.7	3689	hCoV-19/USA/PA-VSP2864/2021	OK246565
VSP2865	B.1.637	5/18/21	surveillance	99.7	2398	hCoV-19/USA/PA-VSP2865/2021	OK246566
VSP2866	B.1.621	5/18/21	surveillance	99.7	1759	hCoV-19/USA/PA-VSP2866/2021	OK246567
VSP2867	B.1.526	5/18/21	surveillance	99.7	2669	hCoV-19/USA/PA-VSP2867/2021	OK246568
VSP2868	B.1.1.7	5/18/21	surveillance	99.7	673	hCoV-19/USA/PA-VSP2868/2021	OK246569
VSP2869	B.1.1.7	5/18/21	surveillance	99.7	2995	hCoV-19/USA/PA-VSP2869/2021	OK246570
VSP2870	B.1.1.7	5/18/21	surveillance	99.7	3680	hCoV-19/USA/PA-VSP2870/2021	OK246571
VSP2871	B.1.1.7	5/18/21	accine breakthrough	99.7	5156	hCoV-19/USA/PA-VSP2871/2021	OK246572
VSP2872	AY.10	5/18/21	surveillance	99.7	4945	hCoV-19/USA/PA-VSP2872/2021	OK246573
VSP2873	B.1.1.7	5/18/21	surveillance	99.7	1985	hCoV-19/USA/PA-VSP2873/2021	OK246574
VSP2874	B.1.1.7	5/18/21	surveillance	99.7	3740	hCoV-19/USA/PA-VSP2874/2021	OK246575
VSP2875	B.1.1.7	5/18/21	surveillance	99.7	4041	hCoV-19/USA/PA-VSP2875/2021	OK246576
VSP2876	B.1.1.7	5/18/21	surveillance	99.7	2990	hCoV-19/USA/PA-VSP2876/2021	OK246577
VSP2877	B.1.1.7	5/18/21	surveillance	99.7	3248	hCoV-19/USA/PA-VSP2877/2021	OK246578
VSP2878	B.1.1.7	5/18/21	surveillance	99.7	4013	hCoV-19/USA/PA-VSP2878/2021	OK246579
VSP2879	B.1.1.7	5/18/21	surveillance	99.7	2456	hCoV-19/USA/PA-VSP2879/2021	OK246580
VSP2880	B.1.1.7	5/18/21	surveillance	99.7	1846	hCoV-19/USA/PA-VSP2880/2021	OK246581
VSP2885	B.1.1.7	5/24/21	surveillance	99.7	2014	hCoV-19/USA/VSP2885/2021	MZ512918
VSP2886	B.1.1.7	5/24/21	surveillance	99.7	1331	hCoV-19/USA/VSP2886/2021	MZ512919
VSP2887	B.1.526	5/24/21	surveillance	99.7	2194	hCoV-19/USA/VSP2887/2021	MZ512920
VSP2888	B.1.1.7	5/24/21	surveillance	99.7	2132	hCoV-19/USA/VSP2888/2021	MZ512921
VSP2889	B.1.637	5/24/21	surveillance	99.3	329	hCoV-19/USA/VSP2889/2021	MZ512922
VSP2890	B.1.1.7	5/24/21	surveillance	99.7	1960	hCoV-19/USA/VSP2890/2021	MZ512923
VSP2891	B.1.1.7	5/24/21	surveillance	99.7	1989	hCoV-19/USA/VSP2891/2021	MZ512924
VSP2892	B.1.1.7	5/24/21	surveillance	99.7	1791	hCoV-19/USA/VSP2892/2021	MZ512925
VSP2893	B.1.1.7	5/24/21	surveillance	99.7	2797	hCoV-19/USA/VSP2893/2021	MZ512926
VSP2894	B.1.1.7	5/24/21	surveillance	99.1	3043	hCoV-19/USA/VSP2894/2021	MZ512927

VSP2895	B.1.1.7	5/24/21	surveillance	99.7	2727	hCoV-19/USA/VSP2895/2021	MZ512928
VSP2896	B.1.1.7	5/24/21	surveillance	99.3	726	hCoV-19/USA/VSP2896/2021	MZ512929
VSP2897	B.1.1.7	5/24/21	surveillance	99.3	538	hCoV-19/USA/VSP2897/2021	MZ512930
VSP2898	B.1.1.7	5/24/21	surveillance	99.7	1081	hCoV-19/USA/VSP2898/2021	MZ512931
VSP2899	R.1	5/24/21	accine breakthroug	99.7	2294	hCoV-19/USA/VSP2899/2021	MZ512932
VSP2900	P.1	5/24/21	surveillance	99.7	1191	hCoV-19/USA/VSP2900/2021	MZ512933
VSP2901	B.1.1.7	5/24/21	surveillance	99.7	1568	hCoV-19/USA/VSP2901/2021	MZ512934
VSP2902	B.1.1.7	5/24/21	surveillance	99.7	2456	hCoV-19/USA/VSP2902/2021	MZ512935
VSP2903	P.1.2	5/24/21	surveillance	99.7	1510	hCoV-19/USA/VSP2903/2021	MZ512936
VSP2904	B.1.1.7	5/24/21	surveillance	99.7	2293	hCoV-19/USA/VSP2904/2021	MZ512937
VSP2906	B.1.1.7	5/24/21	surveillance	99.7	2312	hCoV-19/USA/VSP2906/2021	MZ512938
VSP2907	B.1.1.7	5/24/21	surveillance	99.7	2309	hCoV-19/USA/VSP2907/2021	MZ512939
VSP2908	B.1.526	5/24/21	surveillance	99.7	2671	hCoV-19/USA/VSP2908/2021	MZ512940
VSP2909	B.1.1.7	5/24/21	surveillance	99.3	463	hCoV-19/USA/VSP2909/2021	MZ512941
VSP2910	P.1	5/24/21	surveillance	99.6	2069	hCoV-19/USA/VSP2910/2021	MZ512942
VSP2911	B.1.1.7	5/24/21	surveillance	99.7	1933	hCoV-19/USA/VSP2911/2021	MZ512943
VSP2912	B.1.526	5/24/21	surveillance	99.7	2699	hCoV-19/USA/VSP2912/2021	MZ512944
VSP2914	B.1.526	5/24/21	surveillance	99.7	892	hCoV-19/USA/VSP2914/2021	MZ512945
VSP2915	P.1	5/24/21	surveillance	99.7	2285	hCoV-19/USA/VSP2915/2021	MZ512946
VSP2916	B.1.1.7	5/24/21	surveillance	99.7	1675	hCoV-19/USA/VSP2916/2021	MZ512947
VSP2917	B.1.525	5/24/21	surveillance	99.5	2331	hCoV-19/USA/VSP2917/2021	MZ512948
VSP2918	B.1.526	5/24/21	surveillance	99.3	797	hCoV-19/USA/VSP2918/2021	MZ512949
VSP2921	B.1.1.7	5/24/21	surveillance	99.6	1302	hCoV-19/USA/VSP2921/2021	MZ512950
VSP2922	B.1.526	5/24/21	surveillance	99.5	519	hCoV-19/USA/VSP2922/2021	MZ512951
VSP2923	B.1.1.7	5/24/21	surveillance	99.7	1008	hCoV-19/USA/VSP2923/2021	MZ512952
VSP2924	B.1.1.7	5/24/21	surveillance	99.6	1200	hCoV-19/USA/VSP2924/2021	MZ512953
VSP2925	B.1.637	5/24/21	surveillance	98.3	208	hCoV-19/USA/VSP2925/2021	MZ512954
VSP2926	B.1.1.7	5/24/21	surveillance	99.7	1453	hCoV-19/USA/VSP2926/2021	MZ512955
VSP2929	B.1.1.7	5/24/21	surveillance	99.7	1427	hCoV-19/USA/VSP2929/2021	MZ512956
VSP2930	P.1.10	5/24/21	surveillance	99.7	3092	hCoV-19/USA/VSP2930/2021	MZ512957
VSP2931	B.1.1.7	5/24/21	surveillance	99.7	1023	hCoV-19/USA/VSP2931/2021	MZ512958
VSP2932	B.1.1.7	5/24/21	surveillance	99.7	535	hCoV-19/USA/VSP2932/2021	MZ512959
VSP2933	B.1.526	5/24/21	surveillance	99.7	2195	hCoV-19/USA/VSP2933/2021	MZ512960
VSP2934	B.1.637	5/24/21	surveillance	98.9	2653	hCoV-19/USA/VSP2934/2021	MZ512961
VSP2936	B.1.617.2	5/24/21	surveillance	99.7	3212	hCoV-19/USA/VSP2936/2021	MZ512963
VSP2937	B.1.1.7	5/24/21	surveillance	99.7	1934	hCoV-19/USA/VSP2937/2021	MZ512964
VSP2938	B.1.617.2	5/24/21	surveillance	97.8	848	hCoV-19/USA/VSP2938/2021	MZ512965
VSP2939	B.1.1.7	5/24/21	surveillance	99.7	2317	hCoV-19/USA/VSP2939/2021	MZ512966
VSP2940	P.1	5/24/21	surveillance	99.7	3097	hCoV-19/USA/VSP2940/2021	MZ512967
VSP2942	B.1.1.7	5/24/21	surveillance	99.7	2535	hCoV-19/USA/VSP2942/2021	MZ512968
VSP2943	B.1.1.7	5/24/21	surveillance	98.9	765	hCoV-19/USA/VSP2943/2021	MZ512969
VSP2944	B.1.1.7	5/24/21	surveillance	99.7	2580	hCoV-19/USA/VSP2944/2021	MZ512970
VSP2945	B.1.214.2	5/24/21	surveillance	99.7	2289	hCoV-19/USA/VSP2945/2021	MZ512971
VSP2946	B.1.1.7	5/24/21	surveillance	99.7	3268	hCoV-19/USA/VSP2946/2021	MZ512972
VSP2947	B.1.526	5/24/21	surveillance	99.6	842	hCoV-19/USA/VSP2947/2021	MZ512973
VSP2948	B.1.526	5/24/21	surveillance	99.7	4074	hCoV-19/USA/VSP2948/2021	MZ512974
VSP2949	B.1.1.7	5/24/21	surveillance	99.7	2808	hCoV-19/USA/VSP2949/2021	MZ512975

VSP2950	P.1	5/24/21	surveillance	99.7	2552	hCoV-19/USA/VSP2950/2021	MZ512976
VSP2951	B.1.1.7	5/24/21	surveillance	99.7	3538	hCoV-19/USA/VSP2951/2021	MZ512977
VSP2954	B.1.1.7	5/24/21	surveillance	99.7	3229	hCoV-19/USA/VSP2954/2021	MZ512978
VSP2955	B.1.617.2	5/24/21	surveillance	99.6	2543	hCoV-19/USA/VSP2955/2021	MZ512979
VSP2956	B.1.1.7	5/24/21	surveillance	99.7	3467	hCoV-19/USA/VSP2956/2021	MZ512980
VSP2957	B.1.1.7	5/24/21	surveillance	99.7	987	hCoV-19/USA/VSP2957/2021	MZ512981
VSP2958	B.1.1.7	5/24/21	surveillance	99.7	874	hCoV-19/USA/VSP2958/2021	MZ512982
VSP2959	B.1.526	5/24/21	surveillance	99.7	3003	hCoV-19/USA/VSP2959/2021	MZ512983
VSP2960	B.1.1.7	5/24/21	surveillance	99.7	1220	hCoV-19/USA/VSP2960/2021	MZ512984
VSP2962	B.1.1.7	5/24/21	surveillance	99.1	2657	hCoV-19/USA/VSP2962/2021	MZ512985
VSP2963	B.1.1.7	5/24/21	surveillance	99.7	2625	hCoV-19/USA/VSP2963/2021	MZ512986
VSP2965	B.1.1.7	5/24/21	surveillance	99.7	1477	hCoV-19/USA/VSP2965/2021	MZ512987
VSP3001	B.1.311	2/3/21	surveillance	98.8	1535	hCoV-19/USA/PA-VSP3001/2021	OK246582
VSP3004	B.1.2	2/3/21	surveillance	97.4	2264	hCoV-19/USA/NY-VSP3004/2021	
VSP3005	B.1.1	2/3/21	surveillance	99.1	1611	hCoV-19/USA/PA-VSP3005/2021	OK246583
VSP3006	B.1.2	2/3/21	surveillance	99.7	1674	hCoV-19/USA/PA-VSP3006/2021	OK246584
VSP3007	B.1.588	2/3/21	surveillance	99.4	1997	hCoV-19/USA/PA-VSP3007/2021	OK246585
VSP3008	B.1.1	2/3/21	surveillance	99.4	1638	hCoV-19/USA/PA-VSP3008/2021	OK246586
VSP3009	B.1.588	2/3/21	surveillance	99.7	1315	hCoV-19/USA/PA-VSP3009/2021	OK246587
VSP3010	B.1	2/3/21	surveillance	98.7	310	hCoV-19/USA/PA-VSP3010/2021	OK246588
VSP3011	B.1.596	2/3/21	surveillance	99.2	1292	hCoV-19/USA/PA-VSP3011/2021	OK246589
VSP3012	B.1	2/3/21	surveillance	99.7	1379	hCoV-19/USA/PA-VSP3012/2021	OK246590
VSP3013	B.1.2	2/3/21	surveillance	98.9	2046	hCoV-19/USA/PA-VSP3013/2021	OK246591
VSP3014	B.1.1.348	2/3/21	surveillance	99.4	973	hCoV-19/USA/PA-VSP3014/2021	OK246592
VSP3015	B.1	2/3/21	surveillance	99.7	2033	hCoV-19/USA/PA-VSP3015/2021	OK246593
VSP3016	B.1.1.519	2/3/21	surveillance	99.4	1721	hCoV-19/USA/PA-VSP3016/2021	OK246594
VSP3017	B.1.1	2/3/21	surveillance	99.3	2497	hCoV-19/USA/PA-VSP3017/2021	OK246595
VSP3018	B.1.1	2/3/21	surveillance	99	1732	hCoV-19/USA/PA-VSP3018/2021	OK246596
VSP3019	B.1.1.7	2/10/21	surveillance	99.5	1146	hCoV-19/USA/PA-VSP3019/2021	OK246597
VSP3020	B.1.1.519	2/10/21	surveillance	99.7	1575	hCoV-19/USA/PA-VSP3020/2021	OK246598
VSP3021	B.1	2/10/21	surveillance	99.6	1452	hCoV-19/USA/PA-VSP3021/2021	OK246599
VSP3022	B.1.2	2/10/21	surveillance	99.7	2095	hCoV-19/USA/PA-VSP3022/2021	OK246600
VSP3023	B.1.526	2/10/21	surveillance	99.6	1364	hCoV-19/USA/PA-VSP3023/2021	OK246601
VSP3024	B.1	2/10/21	surveillance	96.6	1508	hCoV-19/USA/NJ-VSP3024/2021	OK246602
VSP3025	B.1.1	2/10/21	surveillance	99.6	1743	hCoV-19/USA/PA-VSP3025/2021	OK246603
VSP3026	B.1.526	2/10/21	surveillance	99.5	2387	hCoV-19/USA/PA-VSP3026/2021	OK246604
VSP3027	B.1.1.519	2/10/21	surveillance	99.7	2163	hCoV-19/USA/PA-VSP3027/2021	OK246605
VSP3028	R.1	2/10/21	surveillance	99.5	1446	hCoV-19/USA/PA-VSP3028/2021	OK246606
VSP3029	B.1.311	2/10/21	surveillance	99.7	1844	hCoV-19/USA/PA-VSP3029/2021	OK246607
VSP3031	B.1.243	2/10/21	surveillance	99.7	3004	hCoV-19/USA/PA-VSP3031/2021	OK246608
VSP3032	B.1.637	3/3/21	surveillance	99.4	8999	hCoV-19/USA/PA-VSP3032/2021	OK246609
VSP3034	B.1.2	3/3/21	surveillance	99.6	1473	hCoV-19/USA/PA-VSP3034/2021	OK246610
VSP3035	B.1.2	3/3/21	surveillance	99.7	32628	hCoV-19/USA/PA-VSP3035/2021	OK246611
VSP3036	B.1.1	3/3/21	surveillance	99.6	401	hCoV-19/USA/PA-VSP3036/2021	OK246612
VSP3037	B.1.1.7	3/3/21	surveillance	99.6	5819	hCoV-19/USA/PA-VSP3037/2021	OK246613
VSP3038	B.1.1.7	3/3/21	surveillance	99.4	4969	hCoV-19/USA/PA-VSP3038/2021	OK246614
VSP3039	B.1.2	3/3/21	surveillance	99.7	11612	hCoV-19/USA/PA-VSP3039/2021	OK246615

VSP3040	B.1.1.7	3/3/21	surveillance	99.6	7386	hCoV-19/USA/PA-VSP3040/2021	OK246616
VSP3042	B.1.1	3/17/21	surveillance	99.7	2247	hCoV-19/USA/PA-VSP3042/2021	OK246617
VSP3043	B.1.1.7	3/17/21	surveillance	99.2	855	hCoV-19/USA/PA-VSP3043/2021	OK246618
VSP3044	B.1.637	3/17/21	surveillance	99.4	2247	hCoV-19/USA/PA-VSP3044/2021	OK246619
VSP3045	B.1.2	3/17/21	surveillance	99.5	1892	hCoV-19/USA/PA-VSP3045/2021	OK246620
VSP3046	R.1	3/17/21	surveillance	99.5	781	hCoV-19/USA/PA-VSP3046/2021	OK246621
VSP3047	B.1.1.7	3/16/21	surveillance	99.2	742	hCoV-19/USA/PA-VSP3047/2021	OK246622
VSP3048	B.1.1.7	3/16/21	surveillance	99.2	844	hCoV-19/USA/PA-VSP3048/2021	OK246623
VSP3049	B.1.1.7	3/17/21	surveillance	99.1	1405	hCoV-19/USA/PA-VSP3049/2021	OK246624
VSP3050	B.1.526	3/17/21	surveillance	99.5	1639	hCoV-19/USA/PA-VSP3050/2021	OK246625
VSP3051	B.1.1.7	3/17/21	surveillance	99	1073	hCoV-19/USA/PA-VSP3051/2021	OK246626
VSP3052	B.1.1.7	3/16/21	surveillance	99.3	578	hCoV-19/USA/PA-VSP3052/2021	OK246627
VSP3053	B.1.526	3/17/21	surveillance	99.3	290	hCoV-19/USA/PA-VSP3053/2021	OK246628
VSP3054	B.1.526	3/17/21	surveillance	98.9	677	hCoV-19/USA/PA-VSP3054/2021	OK246629
VSP3055	R.1	3/17/21	surveillance	98.7	132	hCoV-19/USA/PA-VSP3055/2021	OK246630
VSP3056	B.1.2	3/17/21	surveillance	99.7	1715	hCoV-19/USA/PA-VSP3056/2021	OK246631
VSP3057	B.1.1.7	3/17/21	surveillance	98.6	712	hCoV-19/USA/PA-VSP3057/2021	OK246632
VSP3058	B.1.1.7	3/24/21	surveillance	99.2	1519	hCoV-19/USA/PA-VSP3058/2021	OK246633
VSP3059	B.1.1.7	3/24/21	surveillance	99.2	1663	hCoV-19/USA/PA-VSP3059/2021	OK246634
VSP3060	B.1.1	3/24/21	surveillance	99.4	632	hCoV-19/USA/PA-VSP3060/2021	OK246635
VSP3061	B.1.429	3/24/21	surveillance	99.4	798	hCoV-19/USA/PA-VSP3061/2021	OK246636
VSP3062	B.1.526	3/24/21	surveillance	99.5	1628	hCoV-19/USA/PA-VSP3062/2021	OK246637
VSP3063	B.1.1.7	3/24/21	surveillance	99.3	1489	hCoV-19/USA/PA-VSP3063/2021	OK246638
VSP3064	B.1.526	3/24/21	surveillance	99.7	1616	hCoV-19/USA/PA-VSP3064/2021	OK246639
VSP3065	B.1.1.7	3/24/21	surveillance	99.3	563	hCoV-19/USA/PA-VSP3065/2021	OK246640
VSP3066	B.1.1.7	3/24/21	surveillance	99.5	1180	hCoV-19/USA/PA-VSP3066/2021	OK246641
VSP3067	B.1.243	3/24/21	surveillance	99.7	1218	hCoV-19/USA/PA-VSP3067/2021	OK246642
VSP3068	B.1.1.7	4/7/21	surveillance	99.3	1134	hCoV-19/USA/PA-VSP3068/2021	OK246643
VSP3069	B.1.1.7	4/7/21	surveillance	99	734	hCoV-19/USA/PA-VSP3069/2021	OK246644
VSP3070	B.1.1.7	4/7/21	surveillance	98.5	379	hCoV-19/USA/PA-VSP3070/2021	OK246645
VSP3071	B.1.526	4/7/21	surveillance	98.5	183	hCoV-19/USA/PA-VSP3071/2021	OK246646
VSP3072	P.1	4/14/21	surveillance	99	648	hCoV-19/USA/PA-VSP3072/2021	OK246647
VSP3073	B.1.1.7	4/14/21	surveillance	99.1	768	hCoV-19/USA/PA-VSP3073/2021	OK246648
VSP3074	B.1.1.7	4/14/21	surveillance	99.2	415	hCoV-19/USA/PA-VSP3074/2021	OK246649
VSP3075	B.1.525	4/14/21	surveillance	98.2	635	hCoV-19/USA/PA-VSP3075/2021	
VSP3076	B.1.1.7	4/14/21	surveillance	99	548	hCoV-19/USA/PA-VSP3076/2021	OK246650
VSP3077	B.1.526	4/14/21	surveillance	99.5	732	hCoV-19/USA/PA-VSP3077/2021	OK246651
VSP3078	B.1.1.7	4/14/21	surveillance	99	694	hCoV-19/USA/PA-VSP3078/2021	OK246652
VSP3079	B.1.1.7	4/14/21	surveillance	98.9	503	hCoV-19/USA/PA-VSP3079/2021	OK246653
VSP3080	B.1.1.7	4/14/21	surveillance	99.2	459	hCoV-19/USA/PA-VSP3080/2021	OK246654
VSP3082	B.1.1.7	4/14/21	surveillance	98.7	616	hCoV-19/USA/PA-VSP3082/2021	OK246655
VSP3083	B.1.1.7	4/14/21	surveillance	99	426	hCoV-19/USA/PA-VSP3083/2021	OK246656
VSP3084	B.1.2	4/14/21	surveillance	99.7	759	hCoV-19/USA/PA-VSP3084/2021	OK246657
VSP3085	B.1.1.7	4/14/21	surveillance	98.9	366	hCoV-19/USA/PA-VSP3085/2021	OK246658
VSP3086	B.1.1.7	4/14/21	surveillance	99.3	375	hCoV-19/USA/PA-VSP3086/2021	OK246659
VSP3087	B.1.526	4/14/21	surveillance	99.3	824	hCoV-19/USA/PA-VSP3087/2021	OK246660
VSP3089	B.1.1.7	4/27/21	surveillance	99.7	3858	hCoV-19/USA/PA-VSP3089/2021	OK246661

VSP3090	B.1.526	4/27/21	surveillance	99.7	4076	hCoV-19/USA/PA-VSP3090/2021	OK246662
VSP3091	B.1.1.7	4/27/21	surveillance	99.7	2999	hCoV-19/USA/PA-VSP3091/2021	OK246663
VSP3092	B.1.1.7	4/27/21	surveillance	99.7	3158	hCoV-19/USA/PA-VSP3092/2021	OK246664
VSP3093	B.1.1.7	4/27/21	surveillance	99.7	4710	hCoV-19/USA/PA-VSP3093/2021	OK246665
VSP3094	B.1.1.7	4/27/21	surveillance	99.7	4186	hCoV-19/USA/PA-VSP3094/2021	OK246666
VSP3095	B.1.1.7	4/27/21	surveillance	99.7	3400	hCoV-19/USA/PA-VSP3095/2021	OK246667
VSP3096	P.1.2	4/27/21	surveillance	99.7	3877	hCoV-19/USA/PA-VSP3096/2021	OK246668
VSP3097	B.1.1.7	4/27/21	surveillance	99.7	3026	hCoV-19/USA/PA-VSP3097/2021	OK246669
VSP3098	B.1.526	4/27/21	surveillance	99.7	3626	hCoV-19/USA/PA-VSP3098/2021	OK246670
VSP3099	B.1.526	4/28/21	surveillance	98.8	322	hCoV-19/USA/PA-VSP3099/2021	OK246671
VSP3100	B.1.1.7	4/28/21	surveillance	99.7	3810	hCoV-19/USA/PA-VSP3100/2021	OK246672
VSP3101	B.1.1.7	4/28/21	surveillance	99.7	2964	hCoV-19/USA/PA-VSP3101/2021	OK246673
VSP3102	B.1.1.7	6/18/21	surveillance	99.6	762	hCoV-19/USA/PA-VSP3102/2021	OK246674
VSP3103	B.1.1.7	6/18/21	surveillance	98.9	180	hCoV-19/USA/PA-VSP3103/2021	OK246675
VSP3104	B.1.526	6/18/21	surveillance	99.7	626	hCoV-19/USA/PA-VSP3104/2021	OK246676
VSP3105	P.1	6/18/21	surveillance	99.6	358	hCoV-19/USA/PA-VSP3105/2021	OK246677
VSP3106	B.1.1.7	6/18/21	surveillance	99.4	271	hCoV-19/USA/PA-VSP3106/2021	OK246678
VSP3107	P.1	6/18/21	surveillance	99.6	553	hCoV-19/USA/PA-VSP3107/2021	OK246679
VSP3114	B.1.1.434	12/29/20	surveillance	99.7	3324	hCoV-19/USA/PA-VSP3114/2020	OK246683
VSP3115	B.1.1.434	1/4/21	surveillance	99.7	3216	hCoV-19/USA/PA-VSP3115/2021	OK246684
VSP3117	B.1.243	1/4/21	surveillance	98.7	462	hCoV-19/USA/PA-VSP3117/2021	OK246685
VSP3118	B.1.243	12/29/20	surveillance	95.3	3274	hCoV-19/USA/PA-VSP3118/2020	
VSP3120	B.1.243	1/7/21	surveillance	99.8	4508	hCoV-19/USA/PA-VSP3120/2021	OK246686
VSP3121	B.1.243	12/29/20	surveillance	98.8	508	hCoV-19/USA/PA-VSP3121/2020	
VSP3122	B.1.2	1/6/21	surveillance	99.7	2904	hCoV-19/USA/PA-VSP3122/2021	OK246687
VSP3128	B.1.582	12/24/20	surveillance	97.8	1035	hCoV-19/USA/PA-VSP3128/2020	OK246689
VSP3130	B.1.243	1/5/21	surveillance	95.7	1590	hCoV-19/USA/PA-VSP3130/2021	OK246690
VSP3131	B.1	12/30/20	surveillance	97.8	2341	hCoV-19/USA/PA-VSP3131/2020	OK246691
VSP3132	B.1.409	12/24/20	surveillance	98	1762	hCoV-19/USA/PA-VSP3132/2020	OK246692
VSP3135	B.1.243	12/30/20	surveillance	97.3	834	hCoV-19/USA/PA-VSP3135/2020	OK246693
VSP3137	B.1	12/30/20	surveillance	99.3	822	hCoV-19/USA/PA-VSP3137/2020	OK246694
VSP3138	B.1.2	12/30/20	surveillance	99.7	1684	hCoV-19/USA/PA-VSP3138/2020	OK246695
VSP3140	B.1	1/5/21	surveillance	97.2	1019	hCoV-19/USA/PA-VSP3140/2021	OK246696
VSP3141	B.1.243	1/4/21	surveillance	99.7	2530	hCoV-19/USA/PA-VSP3141/2021	OK246697
VSP3142	B.1	1/5/21	surveillance	98.8	1113	hCoV-19/USA/PA-VSP3142/2021	OK246698
VSP3143	B.1.1	12/29/20	surveillance	95.2	1696	hCoV-19/USA/PA-VSP3143/2020	
VSP3145	B.1.1	12/24/20	surveillance	97.5	1028	hCoV-19/USA/PA-VSP3145/2020	OK246699
VSP3146	B.1.243	2/3/21	surveillance	99.7	1655	hCoV-19/USA/PA-VSP3146/2021	OK246700
VSP3147	B.1.596	2/3/21	surveillance	99.7	1451	hCoV-19/USA/PA-VSP3147/2021	OK246701
VSP3148	B.1.243	1/3/21	surveillance	99.7	1292	hCoV-19/USA/PA-VSP3148/2021	OK246702
VSP3149	B.1.596	2/3/21	surveillance	99.7	1116	hCoV-19/USA/PA-VSP3149/2021	OK246703
VSP3150	B.1.596	1/20/21	surveillance	97.8	206	hCoV-19/USA/PA-VSP3150/2021	OK246704
VSP3151	B.1.369	5/5/20	surveillance	99.4	567	hCoV-19/USA/PA-VSP3151/2020	OK246705
VSP3152	B.1.369	5/27/20	surveillance	99.7	287	hCoV-19/USA/PA-VSP3152/2020	OK246706
VSP3153	B.1	5/27/20	surveillance	99	137	hCoV-19/USA/PA-VSP3153/2020	OK246707
VSP3154	B.1	5/27/20	surveillance	99.7	493	hCoV-19/USA/PA-VSP3154/2020	OK246708
VSP3155	B.1.520	5/4/20	surveillance	99.5	374	hCoV-19/USA/PA-VSP3155/2020	OK246709

VSP3156	B.1.564	5/5/20	surveillance	99.7	295	hCoV-19/USA/PA-VSP3156/2020	OK246710
VSP3157	B.1.520	5/4/20	surveillance	99.5	256	hCoV-19/USA/PA-VSP3157/2020	OK246711
VSP3158	B.1	4/23/20	surveillance	99.7	498	hCoV-19/USA/PA-VSP3158/2020	OK246712
VSP3159	B.1	5/5/20	surveillance	99.7	269	hCoV-19/USA/PA-VSP3159/2020	OK246713
VSP3160	B.1.369	4/23/20	surveillance	99	614	hCoV-19/USA/PA-VSP3160/2020	OK246714
VSP3161	B.1.520	4/23/20	surveillance	99.1	334	hCoV-19/USA/PA-VSP3161/2020	OK246715
VSP3162	B.1.311	2/5/21	surveillance	99.4	659	hCoV-19/USA/PA-VSP3162/2021	OK246716
VSP3163	B.1.361	2/5/21	surveillance	99.7	2011	hCoV-19/USA/PA-VSP3163/2021	OK246717
VSP3164	B.1	2/5/21	surveillance	99.5	441	hCoV-19/USA/PA-VSP3164/2021	OK246718
VSP3169	B.1.311	3/16/21	surveillance	99.4	793	hCoV-19/USA/PA-VSP3169/2021	OK246721
VSP3170	B.1.1.7	4/1/21	surveillance	97.4	833	hCoV-19/USA/PA-VSP3170/2021	OK246722
VSP3181	B.1.1.7	3/24/21	surveillance	99.3	557	hCoV-19/USA/PA-VSP3181/2021	OK246732
VSP3182	B.1.349	4/5/21	surveillance	98.9	151	hCoV-19/USA/PA-VSP3182/2021	OK246733
VSP3183	B.1.2	4/6/21	surveillance	99.7	402	hCoV-19/USA/PA-VSP3183/2021	OK246734
VSP3187	B.1.1.7	5/5/21	surveillance	99.6	794	hCoV-19/USA/PA-VSP3187/2021	OK246736
VSP3188	B.1.1.7	5/5/21	surveillance	99.2	438	hCoV-19/USA/PA-VSP3188/2021	OK246737
VSP3189	B.1.1.7	5/5/21	surveillance	99.6	1060	hCoV-19/USA/PA-VSP3189/2021	OK246738
VSP3190	B.1.1.7	5/5/21	surveillance	99.7	1004	hCoV-19/USA/PA-VSP3190/2021	OK246739
VSP3191	P.1	5/5/21	surveillance	97.5	1058	hCoV-19/USA/PA-VSP3191/2021	OK246740
VSP3193	B.1.1.7	5/5/21	surveillance	99.7	606	hCoV-19/USA/PA-VSP3193/2021	OK246741
VSP3194	B.1.1.7	5/5/21	surveillance	99.7	952	hCoV-19/USA/PA-VSP3194/2021	OK246742
VSP3195	B.1.1.7	5/5/21	surveillance	99.7	1015	hCoV-19/USA/PA-VSP3195/2021	OK246743
VSP3196	B.1.1.7	5/5/21	surveillance	99.7	1208	hCoV-19/USA/PA-VSP3196/2021	OK246744
VSP3197	P.1	5/5/21	surveillance	99.7	941	hCoV-19/USA/PA-VSP3197/2021	OK246745
VSP3198	P.1	5/5/21	surveillance	99.7	1060	hCoV-19/USA/PA-VSP3198/2021	OK246746
VSP3199	B.1.1.7	5/5/21	surveillance	99.7	1153	hCoV-19/USA/PA-VSP3199/2021	OK246747
VSP3200	B.1.1.7	5/5/21	surveillance	99.7	1260	hCoV-19/USA/PA-VSP3200/2021	OK246748
VSP3201	B.1.1.7	5/12/21	surveillance	99.7	1048	hCoV-19/USA/PA-VSP3201/2021	OK246749
VSP3202	B.1.1.7	5/12/21	surveillance	99.7	1177	hCoV-19/USA/PA-VSP3202/2021	OK246750
VSP3203	B.1.1.7	5/12/21	surveillance	98.5	141	hCoV-19/USA/PA-VSP3203/2021	OK246751
VSP3204	B.1.1.7	5/12/21	surveillance	97	233	hCoV-19/USA/PA-VSP3204/2021	OK246752
VSP3205	B.1.1.7	5/12/21	surveillance	99.5	399	hCoV-19/USA/PA-VSP3205/2021	OK246753
VSP3206	B.1.1.7	5/12/21	surveillance	95.5	1174	hCoV-19/USA/PA-VSP3206/2021	OK246754
VSP3207	B.1.1.7	5/12/21	surveillance	99.4	339	hCoV-19/USA/PA-VSP3207/2021	OK246755
VSP3208	B.1.637	5/11/21	surveillance	98.4	932	hCoV-19/USA/PA-VSP3208/2021	OK246756
VSP3209	B.1.1.7	5/12/21	surveillance	99.7	1137	hCoV-19/USA/PA-VSP3209/2021	OK246757
VSP3210	B.1.1.7	5/12/21	surveillance	99.3	603	hCoV-19/USA/PA-VSP3210/2021	OK246758
VSP3211	B.1.526	5/12/21	surveillance	99.6	1120	hCoV-19/USA/PA-VSP3211/2021	OK246759
VSP3212	B.1.1.7	5/11/21	surveillance	99.6	1175	hCoV-19/USA/PA-VSP3212/2021	OK246760
VSP3214	B.1.1.7	5/11/21	surveillance	99.3	1189	hCoV-19/USA/PA-VSP3214/2021	OK246761
VSP3215	B.1.1.7	5/11/21	surveillance	99.2	1270	hCoV-19/USA/PA-VSP3215/2021	OK246762
VSP3216	B.1.1.7	5/11/21	surveillance	99.7	1226	hCoV-19/USA/PA-VSP3216/2021	OK246763
VSP3217	B.1.637	5/11/21	surveillance	97.8	1107	hCoV-19/USA/PA-VSP3217/2021	OK246764
VSP3218	B.1.1.7	5/11/21	surveillance	99.6	1054	hCoV-19/USA/PA-VSP3218/2021	OK246765
VSP3219	B.1.1.7	5/11/21	surveillance	97.5	406	hCoV-19/USA/PA-VSP3219/2021	
VSP3220	B.1.1.7	5/11/21	surveillance	99.7	1002	hCoV-19/USA/PA-VSP3220/2021	OK246766
VSP3221	None	5/19/21	surveillance	97.6	388	hCoV-19/USA/PA-VSP3221/2021	OK246767

VSP3222	B.1.617.2	5/19/21	surveillance	99.4	3361	hCoV-19/USA/PA-VSP3222/2021	OK246768
VSP3223	B.1.621	5/19/21	surveillance	98.8	1894	hCoV-19/USA/PA-VSP3223/2021	OK246769
VSP3322	B.1.526	4/21/21	surveillance	97.8	132	hCoV-19/USA/PA-VSP3322/2021	OK246770
VSP3323	B.1.526	3/31/21	surveillance	99.4	4477	hCoV-19/USA/PA-VSP3323/2021	OK246771
VSP3325	AY.25	6/26/21	surveillance	99.6	2621	hCoV-19/USA/PA-VSP3325/2021	OK246772
VSP3327	B.1.1.7	6/25/21	surveillance	99.3	993	hCoV-19/USA/PA-VSP3327/2021	OK246773
VSP3328	P.1	6/26/21	surveillance	99.4	1138	hCoV-19/USA/PA-VSP3328/2021	OK246774
VSP3329	B.1.1.7	6/25/21	surveillance	99.1	721	hCoV-19/USA/PA-VSP3329/2021	OK246775
VSP3330	B.1.1.7	6/28/21	surveillance	99.3	991	hCoV-19/USA/PA-VSP3330/2021	OK246776
VSP3331	AY.25	6/29/21	surveillance	99.5	1215	hCoV-19/USA/PA-VSP3331/2021	OK246777
VSP3332	AY.25	6/29/21	surveillance	99.5	745	hCoV-19/USA/PA-VSP3332/2021	OK246778
VSP3336	AY.25	6/30/21	surveillance	98	1282	hCoV-19/USA/PA-VSP3336/2021	OK246779
VSP3337	AY.25	6/30/21	surveillance	99.3	1039	hCoV-19/USA/PA-VSP3337/2021	OK246780
VSP3338	AY.19	6/22/21	surveillance	99.5	1079	hCoV-19/USA/PA-VSP3338/2021	OK246781
VSP3339	B.1.1.7	4/28/21	surveillance	99.6	5417	hCoV-19/USA/PA-VSP3339/2021	OK246782
VSP3340	B.1.1.7	4/28/21	surveillance	99.5	6714	hCoV-19/USA/PA-VSP3340/2021	OK246783
VSP3341	B.1.427	4/28/21	surveillance	99.7	5224	hCoV-19/USA/PA-VSP3341/2021	OK246784
VSP3342	B.1.1.7	4/28/21	surveillance	99.4	2151	hCoV-19/USA/PA-VSP3342/2021	OK246785
VSP3343	B.1.637	4/7/21	surveillance	99.6	5376	hCoV-19/USA/PA-VSP3343/2021	OK246786
VSP3344	B.1.1.7	3/31/21	surveillance	99.2	1016	hCoV-19/USA/PA-VSP3344/2021	OK246787
VSP3345	B.1.1.7	3/31/21	surveillance	96.5	93	hCoV-19/USA/PA-VSP3345/2021	OK246788
VSP3346	B.1.1.7	3/31/21	surveillance	99.2	674	hCoV-19/USA/PA-VSP3346/2021	OK246789
VSP3347	B.1.1.7	3/31/21	surveillance	99.3	1510	hCoV-19/USA/PA-VSP3347/2021	OK246790
VSP3351	B.1.1.7	7/4/21	surveillance	97.8	2030	hCoV-19/USA/PA-VSP3351/2021	OK246791
VSP3353	AY.14	7/14/21	surveillance	97.1	222	hCoV-19/USA/PA-VSP3353/2021	OK246792
VSP3358	AY.14	7/14/21	surveillance	95.7	273	hCoV-19/USA/PA-VSP3358/2021	OK246793
VSP3359	AY.12	7/3/21	surveillance	97.7	1362	hCoV-19/USA/PA-VSP3359/2021	OK246794
VSP3360	B.1.630	7/11/21	surveillance	96.7	1319	hCoV-19/USA/PA-VSP3360/2021	OK246795
VSP3361	P.1	7/12/21	surveillance	98.1	1741	hCoV-19/USA/PA-VSP3361/2021	OK246796
VSP3363	AY.3	7/8/21	surveillance	95.9	2098	hCoV-19/USA/PA-VSP3363/2021	OK246797
VSP3367	AY.20	7/12/21	surveillance	99	803	hCoV-19/USA/PA-VSP3367/2021	OK246798
VSP3369	B.1.1.7	3/7/21	accine breakthroug	97.9	232	hCoV-19/USA/PA-VSP3369/2021	OK246799
VSP3370	B.1.1.7	3/3/21	accine breakthroug	96.6	204	hCoV-19/USA/PA-VSP3370/2021	OK246800
VSP3371	B.1.1.7	3/4/21	accine breakthroug	99.3	460	hCoV-19/USA/PA-VSP3371/2021	OK246801
VSP3372	B.1.588	3/2/21	accine breakthroug	99.2	234	hCoV-19/USA/PA-VSP3372/2021	OK246802
VSP3373	B.1.588	3/1/21	accine breakthroug	98.7	162	hCoV-19/USA/PA-VSP3373/2021	OK246803
VSP3374	B.1.1.7	3/3/21	accine breakthroug	98.5	695	hCoV-19/USA/PA-VSP3374/2021	OK246804
VSP3377	B.1.2	3/10/21	accine breakthroug	99.7	930	hCoV-19/USA/PA-VSP3377/2021	OK246805
VSP3378	B.1.1.7	3/18/21	accine breakthroug	96.6	164	hCoV-19/USA/PA-VSP3378/2021	OK246806
VSP3380	B.1.1.7	3/16/21	accine breakthroug	99.1	431	hCoV-19/USA/PA-VSP3380/2021	OK246807
VSP3381	B.1.526	3/23/21	accine breakthroug	98.8	636	hCoV-19/USA/PA-VSP3381/2021	OK246808
VSP3382	B.1.1.7	3/24/21	accine breakthroug	99.5	2567	hCoV-19/USA/PA-VSP3382/2021	OK246809
VSP3383	B.1.240	3/16/21	accine breakthroug	95.7	104	hCoV-19/USA/PA-VSP3383/2021	OK246810
VSP3384	B.1.243	3/24/21	accine breakthroug	98.9	688	hCoV-19/USA/PA-VSP3384/2021	OK246811
VSP3385	None	3/30/21	accine breakthroug	98	770	hCoV-19/USA/PA-VSP3385/2021	OK246812
VSP3387	B.1.1.7	3/28/21	accine breakthroug	97.9	1951	hCoV-19/USA/PA-VSP3387/2021	OK246813
VSP3388	B.1.1.7	4/1/21	accine breakthroug	96.4	1021	hCoV-19/USA/PA-VSP3388/2021	OK246814

VSP3389	P.1	3/25/21	accine breakthroug	99.2	445	hCoV-19/USA/PA-VSP3389/2021	OK246815
VSP3390	B.1	3/29/21	accine breakthroug	98.7	149	hCoV-19/USA/PA-VSP3390/2021	
VSP3391	B.1.526	4/7/21	accine breakthroug	99	726	hCoV-19/USA/PA-VSP3391/2021	OK246816
VSP3392	P.1	4/2/21	accine breakthroug	98.2	103	hCoV-19/USA/PA-VSP3392/2021	OK246817
VSP3395	B.1.1.7	4/4/21	accine breakthroug	99.2	1026	hCoV-19/USA/PA-VSP3395/2021	OK246818
VSP3396	B.1.1.7	4/9/21	accine breakthroug	98	972	hCoV-19/USA/PA-VSP3396/2021	
VSP3397	B.1.1.7	4/13/21	accine breakthroug	97.3	887	hCoV-19/USA/PA-VSP3397/2021	OK246819
VSP3398	B.1.1.7	4/1/21	accine breakthroug	95.9	79	hCoV-19/USA/PA-VSP3398/2021	OK246820
VSP3399	B.1.526	4/13/21	accine breakthroug	99.4	736	hCoV-19/USA/PA-VSP3399/2021	OK246821
VSP3400	B.1.1.7	4/14/21	accine breakthroug	99.2	893	hCoV-19/USA/PA-VSP3400/2021	OK246822
VSP3402	B.1.1.7	4/9/21	accine breakthroug	98.9	1248	hCoV-19/USA/PA-VSP3402/2021	OK246823
VSP3403	B.1.1.7	4/15/21	accine breakthroug	99.2	1053	hCoV-19/USA/PA-VSP3403/2021	OK246824
VSP3404	B.1.1.7	4/17/21	accine breakthroug	98.9	1238	hCoV-19/USA/PA-VSP3404/2021	OK246825
VSP3405	P.1.2	4/18/21	accine breakthroug	99.1	966	hCoV-19/USA/PA-VSP3405/2021	OK246826
VSP3406	B.1.617.2	4/21/21	accine breakthroug	98.8	1351	hCoV-19/USA/PA-VSP3406/2021	OK246827
VSP3408	P.1	4/21/21	accine breakthroug	99.4	280	hCoV-19/USA/PA-VSP3408/2021	OK246828
VSP3409	B.1.1.7	4/22/21	accine breakthroug	99.7	3061	hCoV-19/USA/PA-VSP3409/2021	OK246829
VSP3410	B.1.617.1	4/28/21	accine breakthroug	98	3684	hCoV-19/USA/PA-VSP3410/2021	OK246830
VSP3411	B.1.1.7	4/26/21	accine breakthroug	99	3515	hCoV-19/USA/PA-VSP3411/2021	OK246831
VSP3412	B.1.1.7	4/26/21	accine breakthroug	99.7	3459	hCoV-19/USA/PA-VSP3412/2021	OK246832
VSP3413	B.1.1.7	4/22/21	accine breakthroug	99.4	4785	hCoV-19/USA/PA-VSP3413/2021	OK246833
VSP3414	B.1.1.7	4/23/21	accine breakthroug	98.8	3828	hCoV-19/USA/PA-VSP3414/2021	OK246834
VSP3415	B.1.1.7	4/26/21	accine breakthroug	99.7	4035	hCoV-19/USA/PA-VSP3415/2021	OK246835
VSP3416	B.1.1.7	4/13/21	accine breakthroug	99.7	4052	hCoV-19/USA/PA-VSP3416/2021	OK246836
VSP3420	B.1.1.7	4/19/21	accine breakthroug	97.8	60	hCoV-19/USA/PA-VSP3420/2021	OK246837
VSP3421	P.1.2	5/5/21	accine breakthroug	98.8	1102	hCoV-19/USA/PA-VSP3421/2021	OK246838
VSP3423	B.1.1.7	5/15/21	accine breakthroug	99.1	467	hCoV-19/USA/PA-VSP3423/2021	OK246839
VSP3424	B.1.621	4/30/21	accine breakthroug	99.7	885	hCoV-19/USA/PA-VSP3424/2021	OK246840
VSP3425	B.1.1.7	5/11/21	accine breakthroug	99.2	250	hCoV-19/USA/PA-VSP3425/2021	OK246841
VSP3426	B.1.1.7	5/11/21	accine breakthroug	99	700	hCoV-19/USA/PA-VSP3426/2021	OK246842
VSP3427	B.1.1.7	5/11/21	accine breakthroug	99.4	1854	hCoV-19/USA/PA-VSP3427/2021	OK246843
VSP3428	B.1.1.7	5/20/21	accine breakthroug	99.4	1527	hCoV-19/USA/PA-VSP3428/2021	OK246844
VSP3429	B.1.1.7	5/12/21	accine breakthroug	99.7	1980	hCoV-19/USA/PA-VSP3429/2021	OK246845
VSP3430	B.1.637	6/4/21	accine breakthroug	99.6	1390	hCoV-19/USA/PA-VSP3430/2021	OK246846
VSP5006	B.1.1.7	5/18/21	accine breakthroug	99.6	566	hCoV-19/USA/PA-VSP5006/2021	OK246851
VSP5007	B.1.2	5/21/21	surveillance	99.7	605	hCoV-19/USA/PA-VSP5007/2021	OK246852
VSP5008	B.1.1.7	5/23/21	surveillance	98.1	83	hCoV-19/USA/PA-VSP5008/2021	OK246853
VSP5010	B.1.621	5/24/21	surveillance	99.7	2894	hCoV-19/USA/PA-VSP5010/2021	OK246854
VSP5011	B.1.621	5/24/21	surveillance	99.7	6351	hCoV-19/USA/PA-VSP5011/2021	OK246855
VSP5012	B.1.1.7	5/24/21	surveillance	99	3205	hCoV-19/USA/NJ-VSP5012/2021	OK246856
VSP5013	R.1	5/24/21	surveillance	98.7	447	hCoV-19/USA/PA-VSP5013/2021	OK246857
VSP5014	B.1.1.7	5/25/21	surveillance	99.7	1941	hCoV-19/USA/PA-VSP5014/2021	OK246858
VSP5015	B.1.621	5/25/21	surveillance	99.7	5540	hCoV-19/USA/PA-VSP5015/2021	OK246859
VSP5016	B.1.1.7	5/25/21	surveillance	99.7	4460	hCoV-19/USA/PA-VSP5016/2021	OK246860
VSP5018	P.1.2	5/25/21	surveillance	99.7	2795	hCoV-19/USA/PA-VSP5018/2021	OK246861
VSP5019	P.1	5/25/21	surveillance	99.7	1538	hCoV-19/USA/PA-VSP5019/2021	OK246862
VSP5020	B.1.1.7	5/25/21	surveillance	99.4	956	hCoV-19/USA/PA-VSP5020/2021	OK246863

VSP5021	B.1.1.7	5/25/21	surveillance	99.7	2462	hCoV-19/USA/PA-VSP5021/2021	OK246864
VSP5022	B.1.1.7	5/25/21	surveillance	99.7	787	hCoV-19/USA/PA-VSP5022/2021	OK246865
VSP5023	B.1.1.7	5/26/21	surveillance	99.7	10548	hCoV-19/USA/PA-VSP5023/2021	OK246866
VSP5024	B.1.1.7	5/26/21	surveillance	99.7	5345	hCoV-19/USA/PA-VSP5024/2021	OK246867
VSP5026	B.1.526	5/26/21	surveillance	99.7	8728	hCoV-19/USA/PA-VSP5026/2021	OK246868
VSP5028	B.1.1.7	5/26/21	surveillance	99.7	5350	hCoV-19/USA/PA-VSP5028/2021	OK246869
VSP5029	P.1.10	5/26/21	surveillance	99.7	13664	hCoV-19/USA/NJ-VSP5029/2021	OK246870
VSP5030	B.1.1.7	5/27/21	surveillance	99.4	642	hCoV-19/USA/PA-VSP5030/2021	OK246871
VSP5032	B.1.1.7	5/28/21	surveillance	99.7	1234	hCoV-19/USA/PA-VSP5032/2021	OK246872
VSP5033	B.1.1.7	5/28/21	surveillance	99.7	2543	hCoV-19/USA/PA-VSP5033/2021	OK246873
VSP5034	B.1.1.7	5/28/21	surveillance	99.1	3893	hCoV-19/USA/PA-VSP5034/2021	OK246874
VSP5035	B.1.1.7	5/28/21	surveillance	99.7	436	hCoV-19/USA/PA-VSP5035/2021	OK246875
VSP5036	B.1.621	5/29/21	surveillance	98.5	2240	hCoV-19/USA/PA-VSP5036/2021	OK246876
VSP5037	B.1.1.7	5/29/21	surveillance	99.7	5155	hCoV-19/USA/PA-VSP5037/2021	OK246877
VSP5038	B.1.1.7	5/30/21	surveillance	99.7	2273	hCoV-19/USA/PA-VSP5038/2021	OK246878
VSP5039	B.1.526	6/1/21	surveillance	99.4	954	hCoV-19/USA/PA-VSP5039/2021	OK246879
VSP5040	B.1.1.7	6/2/21	surveillance	99.7	2516	hCoV-19/USA/PA-VSP5040/2021	OK246880
VSP5041	B.1.526	5/11/21	surveillance	99.7	5152	hCoV-19/USA/PA-VSP5041/2021	OK246881
VSP5042	B.1.1.7	5/11/21	surveillance	99.7	4252	hCoV-19/USA/PA-VSP5042/2021	OK246882
VSP5043	B.1.1.7	5/15/21	surveillance	99.1	379	hCoV-19/USA/PA-VSP5043/2021	OK246883
VSP5044	B.1.1.7	5/15/21	surveillance	95.8	1691	hCoV-19/USA/PA-VSP5044/2021	
VSP5045	B.1.526	5/16/21	surveillance	99.1	4430	hCoV-19/USA/PA-VSP5045/2021	OK246884
VSP5046	B.1.1.7	5/17/21	surveillance	99.7	1642	hCoV-19/USA/PA-VSP5046/2021	OK246885
VSP5047	B.1.1.7	5/17/21	surveillance	98.1	167	hCoV-19/USA/PA-VSP5047/2021	OK246886
VSP5048	B.1.526	5/17/21	surveillance	99.7	2539	hCoV-19/USA/PA-VSP5048/2021	OK246887
VSP5049	B.1.1.7	5/20/21	surveillance	99.7	6131	hCoV-19/USA/PA-VSP5049/2021	OK246888
VSP5050	B.1.1.7	5/20/21	surveillance	99.7	3633	hCoV-19/USA/PA-VSP5050/2021	OK246889
VSP5051	B.1.1.7	5/21/21	surveillance	99.1	1869	hCoV-19/USA/PA-VSP5051/2021	OK246890
VSP5052	B.1.637	5/21/21	surveillance	99.5	3315	hCoV-19/USA/PA-VSP5052/2021	OK246891
VSP5053	B.1.526	5/21/21	surveillance	99.7	20211	hCoV-19/USA/PA-VSP5053/2021	OK246892
VSP5054	B.1.1.7	5/21/21	surveillance	99.7	4107	hCoV-19/USA/PA-VSP5054/2021	OK246893
VSP5055	B.1.1.7	5/21/21	surveillance	99.7	3478	hCoV-19/USA/PA-VSP5055/2021	OK246894
VSP5056	B.1.1.7	5/22/21	surveillance	99	8259	hCoV-19/USA/PA-VSP5056/2021	OK246895
VSP5059	B.1.1.7	5/22/21	surveillance	99.7	4864	hCoV-19/USA/PA-VSP5059/2021	OK246896
VSP5060	B.1.1.7	5/23/21	surveillance	99.7	2443	hCoV-19/USA/PA-VSP5060/2021	OK246897
VSP5061	B.1.1.7	5/23/21	surveillance	99.7	726	hCoV-19/USA/PA-VSP5061/2021	OK246898
VSP5062	B.1.526	5/24/21	surveillance	99.7	2697	hCoV-19/USA/PA-VSP5062/2021	OK246899
VSP5063	B.1.1.7	5/24/21	surveillance	97.7	84	hCoV-19/USA/PA-VSP5063/2021	OK246900
VSP5065	P.1	5/25/21	surveillance	99.7	7422	hCoV-19/USA/PA-VSP5065/2021	OK246901
VSP5066	B.1.526	5/29/21	surveillance	99.7	4722	hCoV-19/USA/PA-VSP5066/2021	OK246902
VSP5067	B.1.526	5/29/21	surveillance	99.7	5798	hCoV-19/USA/PA-VSP5067/2021	OK246903
VSP5068	B.1.1.7	5/29/21	surveillance	99.7	2579	hCoV-19/USA/PA-VSP5068/2021	OK246904
VSP5069	B.1.526	5/30/21	surveillance	99.7	8162	hCoV-19/USA/PA-VSP5069/2021	OK246905
VSP5070	B.1.1.7	5/31/21	surveillance	99.7	10298	hCoV-19/USA/PA-VSP5070/2021	OK246906
VSP5071	B.1.526	5/21/21	accine breakthroug	99.1	1701	hCoV-19/USA/PA-VSP5071/2021	OK246907
VSP5079	B.1.1.7	6/3/21	surveillance	99.7	6974	hCoV-19/USA/PA-VSP5079/2021	OK246909
VSP5080	B.1.621	6/4/21	surveillance	99.7	2197	hCoV-19/USA/PA-VSP5080/2021	OK246910

VSP5081	B.1.526	6/4/21	surveillance	99.7	3892	hCoV-19/USA/PA-VSP5081/2021	OK246911
VSP5082	B.1.1.7	6/5/21	surveillance	99.7	2785	hCoV-19/USA/PA-VSP5082/2021	OK246912
VSP5083	P.1	6/7/21	surveillance	99.7	3601	hCoV-19/USA/PA-VSP5083/2021	OK246913
VSP5084	P.1	6/7/21	surveillance	99.7	4861	hCoV-19/USA/PA-VSP5084/2021	OK246914
VSP5085	R.1	6/8/21	surveillance	99.6	4179	hCoV-19/USA/PA-VSP5085/2021	OK246915
VSP5086	AY.4	6/8/21	accine breakthroug	99.7	1229	hCoV-19/USA/NJ-VSP5086/2021	OK246916
VSP5088	B.1.1.7	6/9/21	surveillance	99.7	1613	hCoV-19/USA/NJ-VSP5088/2021	OK246917
VSP5089	B.1.1.7	6/10/21	surveillance	99.7	997	hCoV-19/USA/NJ-VSP5089/2021	OK246918
VSP5090	B.1.1.7	5/26/21	surveillance	99.5	595	hCoV-19/USA/PA-VSP5090/2021	OK246919
VSP5091	B.1.526	5/27/21	surveillance	99.6	840	hCoV-19/USA/PA-VSP5091/2021	OK246920
VSP5092	B.1.1.7	5/27/21	surveillance	99.7	1007	hCoV-19/USA/PA-VSP5092/2021	OK246921
VSP5093	B.1.1.7	5/28/21	surveillance	99.7	884	hCoV-19/USA/PA-VSP5093/2021	OK246922
VSP5094	B.1.1.7	5/28/21	surveillance	99.6	321	hCoV-19/USA/PA-VSP5094/2021	OK246923
VSP5095	B.1.1.7	6/2/21	surveillance	99.4	679	hCoV-19/USA/PA-VSP5095/2021	OK246924
VSP5096	B.1.1.7	6/2/21	surveillance	99.4	602	hCoV-19/USA/PA-VSP5096/2021	OK246925
VSP5097	B.1.1.7	6/2/21	surveillance	99.2	466	hCoV-19/USA/PA-VSP5097/2021	OK246926
VSP5098	P.1.2	5/31/21	surveillance	99.7	2141	hCoV-19/USA/PA-VSP5098/2021	OK246927
VSP5099	B.1.526	5/29/21	surveillance	99.7	4528	hCoV-19/USA/PA-VSP5099/2021	OK246928
VSP5100	B.1.617.2	5/30/21	surveillance	99.5	1053	hCoV-19/USA/PA-VSP5100/2021	OK246929
VSP5101	B.1.1.7	5/3/21	surveillance	99.7	2144	hCoV-19/USA/PA-VSP5101/2021	OK246930
VSP5102	B.1.1.7	6/4/21	surveillance	99.6	1151	hCoV-19/USA/PA-VSP5102/2021	OK246931
VSP5103	B.1.1.7	6/7/21	surveillance	99.6	1876	hCoV-19/USA/PA-VSP5103/2021	OK246932
VSP5104	B.1.1.7	6/8/21	surveillance	98.8	179	hCoV-19/USA/PA-VSP5104/2021	OK246933
VSP5105	B.1.1.7	6/9/21	surveillance	99.7	1812	hCoV-19/USA/PA-VSP5105/2021	OK246934
VSP5107	B.1.1.7	6/9/21	surveillance	99.7	793	hCoV-19/USA/PA-VSP5107/2021	OK246935
VSP5110	B.1.1.7	6/10/21	surveillance	99	326	hCoV-19/USA/PA-VSP5110/2021	OK246936
VSP5112	B.1.1.7	6/12/21	accine breakthroug	99.1	222	hCoV-19/USA/PA-VSP5112/2021	OK246937
VSP5113	B.1.1.7	6/13/21	surveillance	99.6	3050	hCoV-19/USA/PA-VSP5113/2021	OK246938
VSP5114	B.1.617.2	6/14/21	surveillance	99	1387	hCoV-19/USA/NJ-VSP5114/2021	OK246939
VSP5115	None	6/14/21	surveillance	86.6	423	hCoV-19/USA/PA-VSP5115/2021	OK246940
VSP5119	B.1.1.7	6/16/21	surveillance	99.7	4195	hCoV-19/USA/PA-VSP5119/2021	OK246942
VSP5120	B.1.621	6/17/21	surveillance	99.7	4073	hCoV-19/USA/PA-VSP5120/2021	OK246943
VSP5121	B.1.617.2	6/17/21	accine breakthroug	99.7	2898	hCoV-19/USA/PA-VSP5121/2021	OK246944
VSP5122	B.1.617.2	5/24/21	surveillance	99.3	1391	hCoV-19/USA/PA-VSP5122/2021	OK246945
VSP5123	B.1.1.7	6/1/21	surveillance	99.7	3452	hCoV-19/USA/PA-VSP5123/2021	OK246946
VSP5124	B.1.1.7	6/3/21	surveillance	99.7	2681	hCoV-19/USA/PA-VSP5124/2021	OK246947
VSP5125	P.1	6/5/21	surveillance	99.7	3875	hCoV-19/USA/PA-VSP5125/2021	OK246948
VSP5126	B.1.1.7	6/6/21	surveillance	99.6	2323	hCoV-19/USA/PA-VSP5126/2021	OK246949
VSP5127	P.1.2	6/7/21	surveillance	99.7	937	hCoV-19/USA/PA-VSP5127/2021	OK246950
VSP5128	B.1.1.7	6/8/21	surveillance	99.4	2257	hCoV-19/USA/PA-VSP5128/2021	OK246951
VSP5129	B.1.1.7	6/9/21	surveillance	99	880	hCoV-19/USA/PA-VSP5129/2021	OK246952
VSP5130	B.1.526	6/12/21	surveillance	99.6	593	hCoV-19/USA/PA-VSP5130/2021	OK246953
VSP5131	B.1.1.7	6/12/21	surveillance	99.7	2837	hCoV-19/USA/PA-VSP5131/2021	OK246954
VSP5133	B.1.1.7	6/15/21	surveillance	99.7	4222	hCoV-19/USA/PA-VSP5133/2021	OK246956
VSP5134	B.1.617.2	6/16/21	surveillance	99.7	4122	hCoV-19/USA/PA-VSP5134/2021	OK246957
VSP5135	AY.25	6/17/21	surveillance	99.7	3905	hCoV-19/USA/PA-VSP5135/2021	OK246958
VSP5136	B.1.637	6/18/21	surveillance	99.7	554	hCoV-19/USA/PA-VSP5136/2021	

VSP5137	P.1	6/19/21	surveillance	99.7	3066	hCoV-19/USA/PA-VSP5137/2021	OK246959
VSP5138	B.1.1.7	6/21/21	surveillance	99.7	4484	hCoV-19/USA/PA-VSP5138/2021	OK246960
VSP5139	R.1	6/23/21	surveillance	99.4	428	hCoV-19/USA/PA-VSP5139/2021	OK246961
VSP5145	B.1.526	6/14/21	surveillance	99.7	3028	hCoV-19/USA/NC-VSP5145/2021	OK246963
VSP5146	AY.25	6/19/21	surveillance	99.7	4159	hCoV-19/USA/PA-VSP5146/2021	OK246964
VSP5147	B.1.621	6/21/21	surveillance	98	141	hCoV-19/USA/NJ-VSP5147/2021	OK246965
VSP5148	B.1.617.2	6/22/21	surveillance	97	355	hCoV-19/USA/PA-VSP5148/2021	OK246966
VSP5151	B.1.1.7	6/24/21	surveillance	99.7	757	hCoV-19/USA/NJ-VSP5151/2021	OK246967
VSP5154	B.1.1.7	6/26/21	surveillance	99.7	1170	hCoV-19/USA/PA-VSP5154/2021	OK246968
VSP5155	B.1.1.7	6/26/21	accine breakthrough	99.7	213	hCoV-19/USA/PA-VSP5155/2021	OK246969
VSP5156	B.1.1.7	6/26/21	surveillance	99.3	209	hCoV-19/USA/PA-VSP5156/2021	OK246970
VSP5158	B.1.1.7	6/15/21	surveillance	99.7	7334	hCoV-19/USA/PA-VSP5158/2021	OK246972
VSP5159	B.1.1.7	6/18/21	surveillance	99.1	2301	hCoV-19/USA/PA-VSP5159/2021	OK246973
VSP5160	B.1.1.7	6/19/21	surveillance	99.7	6611	hCoV-19/USA/PA-VSP5160/2021	OK246974
VSP5161	B.1.617.2	6/25/21	surveillance	99.7	10083	hCoV-19/USA/PA-VSP5161/2021	OK246975
VSP5162	B.1.617.2	6/26/21	surveillance	99.6	5017	hCoV-19/USA/PA-VSP5162/2021	OK246976
VSP5164	None	6/28/21	surveillance	95.9	4890	hCoV-19/USA/PA-VSP5164/2021	OK246977
VSP5165	B.1.617.2	6/24/21	surveillance	99.1	399	hCoV-19/USA/PA-VSP5165/2021	OK246978
VSP5166	B.1.617.2	6/19/21	surveillance	99.3	1241	hCoV-19/USA/PA-VSP5166/2021	OK246979
VSP5167	B.1.1.7	6/13/21	surveillance	99.7	2571	hCoV-19/USA/PA-VSP5167/2021	OK246980
VSP5169	AY.12	6/16/21	surveillance	99.6	618	hCoV-19/USA/PA-VSP5169/2021	OK246981
VSP5170	AY.3	6/21/21	surveillance	99.1	2147	hCoV-19/USA/NJ-VSP5170/2021	OK246982
VSP5173	AY.25	6/26/21	surveillance	99.7	3157	hCoV-19/USA/PA-VSP5173/2021	OK246983
VSP5174	AY.25	6/26/21	surveillance	99.3	2359	hCoV-19/USA/PA-VSP5174/2021	OK246984
VSP5175	B.1.617.2	6/29/21	surveillance	99	1355	hCoV-19/USA/PA-VSP5175/2021	OK246985
VSP5176	B.1.1.7	6/30/21	surveillance	99.7	2979	hCoV-19/USA/PA-VSP5176/2021	OK246986
VSP5178	B.1.1.7	7/2/21	surveillance	99.7	1021	hCoV-19/USA/PA-VSP5178/2021	OK246987
VSP5179	B.1.617.2	7/2/21	accine breakthrough	98.9	1737	hCoV-19/USA/PA-VSP5179/2021	OK246988
VSP5183	B.1.617.2	7/4/21	surveillance	99.4	2243	hCoV-19/USA/TX-VSP5183/2021	OK246989
VSP5184	B.1.1.7	7/5/21	surveillance	99.7	596	hCoV-19/USA/PA-VSP5184/2021	OK246990
VSP5185	AY.14	7/6/21	surveillance	96.7	1272	hCoV-19/USA/NJ-VSP5185/2021	OK246991
VSP5186	AY.25	7/6/21	surveillance	98.3	579	hCoV-19/USA/PA-VSP5186/2021	OK246992
VSP5187	B.1.617.2	7/7/21	surveillance	96.2	477	hCoV-19/USA/CO-VSP5187/2021	OK246993
VSP5188	B.1.617.2	7/7/21	surveillance	99.2	7101	hCoV-19/USA/KS-VSP5188/2021	OK246994
VSP5192	B.1.617.2	7/9/21	surveillance	99.7	9123	hCoV-19/USA/PA-VSP5192/2021	OK246996
VSP5193	AY.25	6/25/21	surveillance	99.7	6559	hCoV-19/USA/PA-VSP5193/2021	OK246997
VSP5194	B.1.1.7	6/26/21	surveillance	99.6	5669	hCoV-19/USA/PA-VSP5194/2021	OK246998
VSP5198	AY.25	7/9/21	surveillance	99.1	7272	hCoV-19/USA/PA-VSP5198/2021	OK246999
VSP5200	B.1.617.2	7/10/21	surveillance	97.8	4248	hCoV-19/USA/OH-VSP5200/2021	OK247000
VSP5201	None	7/10/21	surveillance	95.2	2310	hCoV-19/USA/PA-VSP5201/2021	OK247001
VSP5202	AY.12	7/10/21	surveillance	96.1	1322	hCoV-19/USA/PA-VSP5202/2021	OK247002
VSP5206	B.1.617.2	7/10/21	surveillance	99.7	7970	hCoV-19/USA/PA-VSP5206/2021	OK247003
VSP5207	B.1.621	7/11/21	surveillance	99.7	3729	hCoV-19/USA/NJ-VSP5207/2021	OK247004
VSP5209	B.1.617.2	7/11/21	surveillance	97.8	4618	hCoV-19/USA/PA-VSP5209/2021	OK247005
VSP5214	B.1.617.2	7/13/21	surveillance	99.7	7528	hCoV-19/USA/PA-VSP5214/2021	OK247006
VSP5217	AY.24	7/13/21	surveillance	99.7	7690	hCoV-19/USA/PA-VSP5217/2021	OK247007
VSP5219	B.1.617.2	7/14/21	surveillance	98.7	3750	hCoV-19/USA/PA-VSP5219/2021	OK247008

VSP5221	B.1.617.2	7/15/21	surveillance	99.7	4243	hCoV-19/USA/PA-VSP5221/2021	OK247009
VSP5222	B.1.617.2	7/15/21	surveillance	97.1	2190	hCoV-19/USA/PA-VSP5222/2021	OK247010
VSP5223	AY.14	7/15/21	surveillance	99.6	8230	hCoV-19/USA/PA-VSP5223/2021	OK247011
VSP5224	AY.25	7/15/21	surveillance	99.6	2912	hCoV-19/USA/PA-VSP5224/2021	OK247012
VSP5225	AY.25	7/15/21	surveillance	99.6	869	hCoV-19/USA/PA-VSP5225/2021	OK247013
VSP5226	B.1.617.2	7/15/21	surveillance	99.1	2216	hCoV-19/USA/PA-VSP5226/2021	OK247014
VSP5227	B.1.617.2	7/15/21	surveillance	99.6	3741	hCoV-19/USA/PA-VSP5227/2021	OK247015
VSP5228	AY.25	7/15/21	surveillance	99.1	8295	hCoV-19/USA/PA-VSP5228/2021	OK247016
VSP5229	B.1.1.7	7/16/21	surveillance	99.7	3075	hCoV-19/USA/PA-VSP5229/2021	OK247017
VSP5230	AY.12	7/16/21	surveillance	99.6	5139	hCoV-19/USA/PA-VSP5230/2021	OK247018
VSP5231	B.1.617.2	7/16/21	surveillance	97.5	2201	hCoV-19/USA/PA-VSP5231/2021	OK247019
VSP5232	B.1.617.2	7/16/21	surveillance	99.1	1289	hCoV-19/USA/PA-VSP5232/2021	OK247020
VSP5235	AY.21	7/10/21	surveillance	97.5	2028	hCoV-19/USA/PA-VSP5235/2021	OK247021
VSP5242	B.1.628	7/16/21	surveillance	99.5	2353	hCoV-19/USA/PA-VSP5242/2021	OK247022
VSP5243	B.1.1.528	7/16/21	surveillance	97.6	253	hCoV-19/USA/PA-VSP5243/2021	OK247023
VSP5244	B.1.617.2	7/17/21	surveillance	99.4	2449	hCoV-19/USA/PA-VSP5244/2021	OK247024
VSP5245	B.1.617.2	7/17/21	surveillance	99.7	10098	hCoV-19/USA/PA-VSP5245/2021	OK247025
VSP5246	None	7/17/21	surveillance	96.2	370	hCoV-19/USA/PA-VSP5246/2021	OK247026
VSP5247	AY.3	7/17/21	surveillance	99.7	7041	hCoV-19/USA/PA-VSP5247/2021	OK247027
VSP5248	B.1.617.2	7/17/21	surveillance	99.7	4841	hCoV-19/USA/PA-VSP5248/2021	OK247028
VSP5249	B.1.617.2	7/17/21	surveillance	99.7	8336	hCoV-19/USA/PA-VSP5249/2021	OK247029
VSP5251	B.1.617.2	7/17/21	surveillance	99.7	7288	hCoV-19/USA/PA-VSP5251/2021	OK247030
VSP5252	B.1.617.2	7/17/21	surveillance	99.7	3249	hCoV-19/USA/PA-VSP5252/2021	OK247031
VSP5253	B.1.617.2	7/17/21	surveillance	99.6	2439	hCoV-19/USA/GA-VSP5253/2021	OK247032
VSP5254	AY.24	7/19/21	surveillance	99.6	1320	hCoV-19/USA/PA-VSP5254/2021	OK247033
VSP5255	B.1.617.2	7/19/21	surveillance	95.8	1064	hCoV-19/USA/PA-VSP5255/2021	OK247034
VSP5256	B.1.617.2	7/19/21	surveillance	99.7	8039	hCoV-19/USA/PA-VSP5256/2021	OK247035
VSP5257	B.1.617.2	7/19/21	surveillance	99.7	2217	hCoV-19/USA/PA-VSP5257/2021	OK247036
VSP5258	AY.12	7/20/21	surveillance	99.7	12343	hCoV-19/USA/PA-VSP5258/2021	OK247037
VSP5259	B.1.617.2	7/20/21	surveillance	93.8	217	hCoV-19/USA/PA-VSP5259/2021	OK247038
VSP5260	B.1.617.2	7/20/21	surveillance	99.7	2235	hCoV-19/USA/CA-VSP5260/2021	OK247039
VSP5270	AY.3	7/22/21	surveillance	99.5	4220	hCoV-19/USA/PA-VSP5270/2021	OK247040
VSP5272	AY.12	7/22/21	surveillance	99.7	4194	hCoV-19/USA/PA-VSP5272/2021	OK247041
VSP5292	B.1.617.2	7/15/21	surveillance	99.7	4353	hCoV-19/USA/PA-VSP5292/2021	OK247042
VSP5293	B.1.617.2	7/14/21	surveillance	99.7	8512	hCoV-19/USA/PA-VSP5293/2021	OK247043
VSP5294	AY.14	7/23/21	surveillance	99.7	2489	hCoV-19/USA/NJ-VSP5294/2021	OK247044
VSP5295	B.1.617.2	7/23/21	surveillance	99.6	3219	hCoV-19/USA/PA-VSP5295/2021	OK247045
VSP5296	B.1.617.2	7/23/21	surveillance	99.3	1833	hCoV-19/USA/PA-VSP5296/2021	OK247046
VSP5298	B.1.617.2	7/23/21	surveillance	99.7	2967	hCoV-19/USA/PA-VSP5298/2021	OK247047
VSP5299	AY.20	7/23/21	surveillance	99.7	3346	hCoV-19/USA/PA-VSP5299/2021	OK247048
VSP5300	B.1.617.2	7/23/21	surveillance	98.8	395	hCoV-19/USA/PA-VSP5300/2021	OK247049
VSP5301	B.1.617.2	7/24/21	surveillance	99.7	1265	hCoV-19/USA/PA-VSP5301/2021	OK247050
VSP5302	B.1.617.2	7/24/21	surveillance	99.7	1653	hCoV-19/USA/PA-VSP5302/2021	OK247051
VSP5303	B.1.617.2	7/26/21	surveillance	99.5	561	hCoV-19/USA/PA-VSP5303/2021	OK247052
VSP5304	B.1.617.2	7/26/21	surveillance	99.6	3561	hCoV-19/USA/PA-VSP5304/2021	OK247053
VSP5305	B.1.617.2	7/26/21	surveillance	99.7	4399	hCoV-19/USA/PA-VSP5305/2021	OK247054
VSP5306	AY.25	7/26/21	surveillance	97.9	3644	hCoV-19/USA/PA-VSP5306/2021	OK247055

VSP5372	B.1.617.2	7/19/21	surveillance	99.7	1867	hCoV-19/USA/PA-VSP5372/2021	OK247056
VSP5373	AY.25	7/17/21	surveillance	99.7	3441	hCoV-19/USA/PA-VSP5373/2021	OK247057
VSP5374	B.1.617.2	7/18/21	surveillance	99.7	14180	hCoV-19/USA/PA-VSP5374/2021	OK247058
VSP5375	B.1.617.2	7/18/21	surveillance	99.6	927	hCoV-19/USA/PA-VSP5375/2021	OK247059
VSP5376	AY.24	7/21/21	surveillance	99.6	3411	hCoV-19/USA/PA-VSP5376/2021	OK247060
VSP5377	AY.25	7/24/21	surveillance	99.7	2685	hCoV-19/USA/PA-VSP5377/2021	OK247061
VSP5378	AY.3	7/26/21	surveillance	99.6	3481	hCoV-19/USA/PA-VSP5378/2021	OK247062
VSP5379	AY.20	7/27/21	surveillance	98.9	2565	hCoV-19/USA/PA-VSP5379/2021	OK247063
VSP5380	B.1.617.2	7/27/21	surveillance	99.7	2688	hCoV-19/USA/PA-VSP5380/2021	OK247064
VSP5381	AY.12	7/27/21	surveillance	99.7	3164	hCoV-19/USA/PA-VSP5381/2021	OK247065
VSP5382	AY.25	7/28/21	surveillance	99.7	3428	hCoV-19/USA/PA-VSP5382/2021	OK247066
VSP5383	AY.24	7/29/21	surveillance	99.6	5426	hCoV-19/USA/PA-VSP5383/2021	OK247067
VSP5385	B.1.617.2	7/29/21	surveillance	99.4	1193	hCoV-19/USA/PA-VSP5385/2021	OK247068
VSP5386	AY.3	7/29/21	surveillance	99.7	4040	hCoV-19/USA/PA-VSP5386/2021	OK247069
VSP5389	B.1.617.2	7/30/21	surveillance	99.7	2918	hCoV-19/USA/PA-VSP5389/2021	OK247070
VSP5395	B.1.617.2	7/30/21	surveillance	99.7	2256	hCoV-19/USA/PA-VSP5395/2021	OK247071
VSP5399	AY.3	7/31/21	surveillance	99.6	3059	hCoV-19/USA/PA-VSP5399/2021	OK247072
VSP5443	B.1.617.2	8/4/21	surveillance	99.7	3239	hCoV-19/USA/PA-VSP5443/2021	OK247073
VSP5444	AY.4	8/4/21	surveillance	99.7	4316	hCoV-19/USA/PA-VSP5444/2021	OK247074
VSP5445	AY.3	8/4/21	surveillance	99.4	3887	hCoV-19/USA/PA-VSP5445/2021	OK247075
VSP5446	AY.12	8/4/21	surveillance	99.7	5185	hCoV-19/USA/NJ-VSP5446/2021	OK247076
VSP5447	B.1.617.2	8/4/21	surveillance	99.7	3500	hCoV-19/USA/PA-VSP5447/2021	OK247077
VSP5448	B.1.617.2	8/5/21	surveillance	99.7	5292	hCoV-19/USA/PA-VSP5448/2021	OK247078
VSP5449	AY.24	8/5/21	surveillance	99.1	796	hCoV-19/USA/PA-VSP5449/2021	OK247079
VSP5450	B.1.617.2	8/5/21	surveillance	98.8	627	hCoV-19/USA/PA-VSP5450/2021	OK247080
VSP5451	B.1.617.2	8/5/21	surveillance	99.7	3640	hCoV-19/USA/NJ-VSP5451/2021	OK247081
VSP5452	B.1.617.2	8/5/21	surveillance	99.7	3726	hCoV-19/USA/PA-VSP5452/2021	OK247082
VSP5453	B.1.617.2	8/5/21	surveillance	99.6	3470	hCoV-19/USA/PA-VSP5453/2021	OK247083
VSP5454	AY.3	8/5/21	surveillance	99.1	1326	hCoV-19/USA/PA-VSP5454/2021	OK247084
VSP5455	AY.25	8/5/21	surveillance	98.9	1479	hCoV-19/USA/NJ-VSP5455/2021	OK247085
VSP5456	AY.12	8/5/21	surveillance	99.7	4372	hCoV-19/USA/NJ-VSP5456/2021	OK247086
VSP5458	AY.25	8/6/21	surveillance	99.7	4384	hCoV-19/USA/PA-VSP5458/2021	OK247088
VSP5460	AY.25	8/6/21	surveillance	99.7	3964	hCoV-19/USA/PA-VSP5460/2021	OK247090
VSP5461	AY.3	8/6/21	surveillance	99.6	3585	hCoV-19/USA/MD-VSP5461/2021	OK247091
VSP5462	B.1.617.2	8/6/21	surveillance	99.7	3901	hCoV-19/USA/PA-VSP5462/2021	OK247092
VSP5465	AY.10	8/6/21	surveillance	97	214	hCoV-19/USA/PA-VSP5465/2021	OK247093
VSP5466	AY.12	8/6/21	surveillance	98.1	414	hCoV-19/USA/PA-VSP5466/2021	OK247094
VSP5467	B.1.617.2	7/21/21	surveillance	99.7	3135	hCoV-19/USA/PA-VSP5467/2021	OK247095
VSP5468	B.1.617.2	7/21/21	surveillance	98.5	3581	hCoV-19/USA/PA-VSP5468/2021	OK247096
VSP5471	AY.4	7/24/21	surveillance	95.8	1200	hCoV-19/USA/PA-VSP5471/2021	OK247097
VSP5472	B.1.617.2	7/25/21	surveillance	97.4	1341	hCoV-19/USA/PA-VSP5472/2021	OK247098
VSP5473	B.1.617.2	7/25/21	surveillance	99.3	982	hCoV-19/USA/PA-VSP5473/2021	OK247099
VSP5474	AY.25	7/25/21	surveillance	99.6	3808	hCoV-19/USA/PA-VSP5474/2021	OK247100
VSP5477	B.1.617.2	7/26/21	surveillance	99.5	2098	hCoV-19/USA/PA-VSP5477/2021	OK247101
VSP5478	B.1.617.2	7/26/21	surveillance	99.7	3560	hCoV-19/USA/PA-VSP5478/2021	OK247102
VSP5479	AY.21	7/26/21	surveillance	99.7	3483	hCoV-19/USA/PA-VSP5479/2021	OK247103
VSP5481	B.1.617.2	7/26/21	surveillance	96.2	1926	hCoV-19/USA/PA-VSP5481/2021	OK247104

VSP5484	B.1.617.2	7/29/21	surveillance	96.4	3963	hCoV-19/USA/PA-VSP5484/2021	OK247105
VSP5485	B.1.617.2	7/29/21	surveillance	99.4	3618	hCoV-19/USA/PA-VSP5485/2021	OK247106
VSP5490	B.1.617.2	8/1/21	surveillance	97.9	474	hCoV-19/USA/PA-VSP5490/2021	OK247107
VSP5491	AY.14	8/1/21	surveillance	98.1	1003	hCoV-19/USA/PA-VSP5491/2021	OK247108
VSP5495	B.1.617.2	8/2/21	surveillance	97.2	3723	hCoV-19/USA/PA-VSP5495/2021	OK247109
VSP5496	AY.20	8/3/21	surveillance	99.5	13645	hCoV-19/USA/PA-VSP5496/2021	OK247110
VSP5503	B.1.617.2	8/7/21	surveillance	99.5	3451	hCoV-19/USA/PA-VSP5503/2021	OK247111
VSP5504	B.1.617.2	8/7/21	surveillance	99.7	3429	hCoV-19/USA/PA-VSP5504/2021	OK247112
VSP5505	AY.3	8/7/21	surveillance	99.7	3456	hCoV-19/USA/PA-VSP5505/2021	OK247113
VSP5507	AY.14	8/7/21	surveillance	95.6	1314	hCoV-19/USA/PA-VSP5507/2021	OK247114
VSP5508	B.1.617.2	8/7/21	surveillance	99.6	6431	hCoV-19/USA/PA-VSP5508/2021	OK247115
VSP5509	AY.4	8/7/21	surveillance	96.2	4197	hCoV-19/USA/PA-VSP5509/2021	OK247116
VSP5510	AY.25	8/7/21	surveillance	98.8	5726	hCoV-19/USA/PA-VSP5510/2021	OK247117
VSP5511	AY.3	8/8/21	surveillance	99.2	5716	hCoV-19/USA/PA-VSP5511/2021	OK247118
VSP5512	AY.3	8/8/21	surveillance	95.8	2319	hCoV-19/USA/PA-VSP5512/2021	OK247119
VSP5513	AY.3	8/8/21	surveillance	99.7	4328	hCoV-19/USA/PA-VSP5513/2021	OK247120
VSP5514	AY.25	8/8/21	surveillance	99.4	4281	hCoV-19/USA/PA-VSP5514/2021	OK247121
VSP5515	AY.3	8/8/21	surveillance	98.9	3866	hCoV-19/USA/PA-VSP5515/2021	OK247122
VSP5516	B.1.617.2	8/9/21	surveillance	99.7	3408	hCoV-19/USA/PA-VSP5516/2021	OK247123
VSP5517	AY.25	8/9/21	surveillance	99.7	4109	hCoV-19/USA/PA-VSP5517/2021	OK247124
VSP5518	B.1.617.2	8/9/21	surveillance	99.6	1611	hCoV-19/USA/PA-VSP5518/2021	OK247125
VSP5519	B.1.617.2	8/9/21	surveillance	99.7	4541	hCoV-19/USA/PA-VSP5519/2021	OK247126
VSP5520	B.1.617.2	8/9/21	surveillance	99.6	2115	hCoV-19/USA/PA-VSP5520/2021	OK247127
VSP5521	AY.25	8/9/21	surveillance	99.7	4860	hCoV-19/USA/NJ-VSP5521/2021	OK247128
VSP5525	B.1.617.2	8/9/21	surveillance	99.1	2954	hCoV-19/USA/PA-VSP5525/2021	OK247129
VSP5526	B.1.617.2	8/9/21	surveillance	99.7	3508	hCoV-19/USA/PA-VSP5526/2021	OK247130
VSP5527	AY.10	8/9/21	surveillance	99.3	5238	hCoV-19/USA/PA-VSP5527/2021	OK247131
VSP5528	AY.14	8/9/21	surveillance	99.7	5282	hCoV-19/USA/PA-VSP5528/2021	OK247132
VSP5529	AY.25	8/9/21	surveillance	99.6	3376	hCoV-19/USA/PA-VSP5529/2021	OK247133
VSP5530	B.1.617.2	8/9/21	surveillance	99.7	2782	hCoV-19/USA/CA-VSP5530/2021	OK247134
VSP5531	B.1.617.2	8/9/21	surveillance	99.4	4261	hCoV-19/USA/PA-VSP5531/2021	OK247135
VSP5532	AY.15	8/9/21	surveillance	99.7	4230	hCoV-19/USA/PA-VSP5532/2021	OK247136
VSP5533	B.1.617.2	8/9/21	surveillance	99.7	3827	hCoV-19/USA/PA-VSP5533/2021	OK247137
VSP5534	B.1.617.2	8/1/21	surveillance	99.6	3252	hCoV-19/USA/PA-VSP5534/2021	OK247138
VSP5535	B.1.617.2	8/1/21	surveillance	99.1	2266	hCoV-19/USA/PA-VSP5535/2021	OK247139
VSP5536	B.1.617.2	8/3/21	surveillance	98	1733	hCoV-19/USA/PA-VSP5536/2021	OK247140
VSP5537	B.1.617.2	8/4/21	surveillance	99.7	3214	hCoV-19/USA/PA-VSP5537/2021	OK247141
VSP5539	AY.13	8/6/21	surveillance	99.6	4420	hCoV-19/USA/NJ-VSP5539/2021	OK247142
VSP5540	B.1.617.2	8/6/21	surveillance	98.4	580	hCoV-19/USA/PA-VSP5540/2021	OK247143
VSP5542	P.1	8/6/21	surveillance	99.7	2732	hCoV-19/USA/PA-VSP5542/2021	OK247144
VSP5543	B.1.617.2	8/6/21	surveillance	99.7	3808	hCoV-19/USA/NJ-VSP5543/2021	OK247145
VSP5544	AY.3	8/7/21	surveillance	99.7	8082	hCoV-19/USA/PA-VSP5544/2021	OK247146
VSP5545	AY.20	8/7/21	surveillance	99.7	5226	hCoV-19/USA/PA-VSP5545/2021	OK247147
VSP5546	B.1.617.2	8/7/21	surveillance	99.7	4381	hCoV-19/USA/NJ-VSP5546/2021	OK247148
VSP5548	B.1.617.2	8/7/21	surveillance	99.6	4924	hCoV-19/USA/NJ-VSP5548/2021	OK247149
VSP5549	B.1.617.2	8/7/21	surveillance	99.4	1441	hCoV-19/USA/PA-VSP5549/2021	OK247150
VSP5550	B.1.617.2	8/7/21	surveillance	99.6	2143	hCoV-19/USA/NJ-VSP5550/2021	OK247151

VSP5551	AY.12	8/7/21	surveillance	98.4	436	hCoV-19/USA/PA-VSP5551/2021	OK247152
VSP5552	AY.25	8/8/21	surveillance	99.4	1533	hCoV-19/USA/NJ-VSP5552/2021	OK247153
VSP5553	AY.24	8/8/21	surveillance	99.6	2059	hCoV-19/USA/PA-VSP5553/2021	OK247154
VSP5554	AY.4	8/9/21	surveillance	98.9	4803	hCoV-19/USA/PA-VSP5554/2021	OK247155
VSP5555	B.1.617.2	8/9/21	surveillance	99.6	2557	hCoV-19/USA/PA-VSP5555/2021	OK247156
VSP5556	AY.1	8/9/21	surveillance	99.6	6629	hCoV-19/USA/NJ-VSP5556/2021	OK247157
VSP5557	B.1.617.2	8/9/21	surveillance	99.7	6338	hCoV-19/USA/PA-VSP5557/2021	OK247158
VSP5558	AY.25	8/9/21	surveillance	98.9	1413	hCoV-19/USA/NJ-VSP5558/2021	OK247159
VSP5559	AY.1	8/9/21	surveillance	99.6	3557	hCoV-19/USA/PA-VSP5559/2021	OK247160
VSP5560	B.1.617.2	8/9/21	surveillance	99.4	1361	hCoV-19/USA/PA-VSP5560/2021	OK247161
VSP5561	B.1.617.2	8/9/21	surveillance	99.2	1320	hCoV-19/USA/PA-VSP5561/2021	OK247162
VSP5562	AY.20	8/9/21	surveillance	98.9	2104	hCoV-19/USA/NJ-VSP5562/2021	OK247163
VSP5563	B.1.617.2	8/10/21	surveillance	99.5	3357	hCoV-19/USA/PA-VSP5563/2021	OK247164
VSP5564	AY.20	8/10/21	surveillance	99.4	1432	hCoV-19/USA/PA-VSP5564/2021	OK247165
VSP5566	AY.24	8/10/21	surveillance	97.4	177	hCoV-19/USA/PA-VSP5566/2021	OK247166
VSP5568	AY.4	8/10/21	surveillance	98.8	2148	hCoV-19/USA/PA-VSP5568/2021	OK247167
VSP5569	AY.25	8/10/21	surveillance	99.7	2581	hCoV-19/USA/NJ-VSP5569/2021	OK247168
VSP5570	AY.4	8/10/21	surveillance	98	845	hCoV-19/USA/PA-VSP5570/2021	OK247169
VSP5571	AY.24	8/10/21	surveillance	99.4	2051	hCoV-19/USA/PA-VSP5571/2021	OK247170
VSP5572	B.1.621.1	8/10/21	surveillance	99.6	782	hCoV-19/USA/PA-VSP5572/2021	OK247171
VSP5573	AY.25	8/10/21	surveillance	99.6	4820	hCoV-19/USA/PA-VSP5573/2021	OK247172
VSP5575	B.1.617.2	8/10/21	surveillance	99.7	3889	hCoV-19/USA/PA-VSP5575/2021	OK247173
VSP5576	AY.25	8/10/21	surveillance	98	2944	hCoV-19/USA/PA-VSP5576/2021	OK247174
VSP5577	AY.14	8/10/21	surveillance	99.7	3582	hCoV-19/USA/NJ-VSP5577/2021	OK247175
VSP5578	AY.3	8/10/21	surveillance	98.6	784	hCoV-19/USA/PA-VSP5578/2021	OK247176
VSP5580	AY.4	8/10/21	surveillance	98.1	3143	hCoV-19/USA/PA-VSP5580/2021	OK247177
VSP5581	B.1.617.2	8/10/21	surveillance	99.6	3061	hCoV-19/USA/PA-VSP5581/2021	OK247178
VSP5582	AY.25	8/10/21	surveillance	99.3	2118	hCoV-19/USA/PA-VSP5582/2021	OK247179
VSP5583	AY.24	8/10/21	surveillance	99.6	2055	hCoV-19/USA/PA-VSP5583/2021	OK247180
VSP5584	B.1.617.2	8/10/21	surveillance	99.7	3742	hCoV-19/USA/NJ-VSP5584/2021	OK247181
VSP5585	AY.14	8/10/21	surveillance	99.1	1041	hCoV-19/USA/NJ-VSP5585/2021	OK247182
VSP5586	AY.12	8/10/21	surveillance	99.4	2231	hCoV-19/USA/PA-VSP5586/2021	OK247183
VSP5587	B.1.617.2	8/11/21	surveillance	99.7	7646	hCoV-19/USA/PA-VSP5587/2021	OK247184
VSP5589	B.1.617.2	8/11/21	surveillance	99.2	1696	hCoV-19/USA/NJ-VSP5589/2021	OK247185
VSP5590	AY.25	8/11/21	surveillance	98.5	2635	hCoV-19/USA/PA-VSP5590/2021	OK247186
VSP5592	AY.4	8/11/21	surveillance	97.5	1837	hCoV-19/USA/PA-VSP5592/2021	OK247187
VSP5596	AY.3	8/11/21	surveillance	98.1	1996	hCoV-19/USA/PA-VSP5596/2021	OK247188
VSP5598	AY.15	8/11/21	surveillance	99.7	2861	hCoV-19/USA/PA-VSP5598/2021	OK247189
VSP5599	B.1.617.2	8/11/21	surveillance	99.6	3714	hCoV-19/USA/PA-VSP5599/2021	OK247190
VSP5600	B.1.617.2	8/11/21	surveillance	99.7	2390	hCoV-19/USA/PA-VSP5600/2021	OK247191
VSP5601	AY.20	8/11/21	surveillance	99.6	1487	hCoV-19/USA/PA-VSP5601/2021	OK247192
VSP5604	AY.12	8/11/21	surveillance	97.8	756	hCoV-19/USA/VA-VSP5604/2021	OK247193
VSP5605	B.1.617.2	8/11/21	surveillance	99.1	1351	hCoV-19/USA/NJ-VSP5605/2021	OK247194
VSP5606	B.1.617.2	8/11/21	surveillance	98.3	3852	hCoV-19/USA/PA-VSP5606/2021	OK247195
VSP5609	B.1.617.2	8/12/21	surveillance	95.2	697	hCoV-19/USA/NJ-VSP5609/2021	OK247196
VSP5610	B.1.617.2	8/12/21	surveillance	99.5	3719	hCoV-19/USA/PA-VSP5610/2021	OK247197
VSP5611	B.1.617.2	8/12/21	surveillance	96.3	887	hCoV-19/USA/PA-VSP5611/2021	OK247198

VSP5612	B.1.617.2	8/12/21	surveillance	98.3	2628	hCoV-19/USA/NJ-VSP5612/2021	OK247199
VSP5614	B.1.617.2	8/12/21	surveillance	98.8	530	hCoV-19/USA/PA-VSP5614/2021	OK247200
VSP5615	AY.4	8/12/21	surveillance	98.8	3541	hCoV-19/USA/PA-VSP5615/2021	OK247201
VSP5616	AY.14	8/12/21	surveillance	99.7	3042	hCoV-19/USA/NJ-VSP5616/2021	OK247202
VSP5617	B.1.617.2	8/12/21	surveillance	99.7	2958	hCoV-19/USA/NJ-VSP5617/2021	OK247203
VSP5618	AY.3	8/12/21	surveillance	98.5	713	hCoV-19/USA/PA-VSP5618/2021	OK247204
VSP5619	AY.2	8/12/21	surveillance	98.9	2864	hCoV-19/USA/PA-VSP5619/2021	OK247205
VSP5620	B.1.617.2	8/12/21	surveillance	99.5	2301	hCoV-19/USA/PA-VSP5620/2021	OK247206
VSP5621	B.1.617.2	8/12/21	surveillance	99.3	1289	hCoV-19/USA/SC-VSP5621/2021	OK247207
VSP5622	AY.25	8/12/21	surveillance	98.8	815	hCoV-19/USA/PA-VSP5622/2021	OK247208
VSP5623	B.1.617.2	8/12/21	surveillance	99.3	1681	hCoV-19/USA/NJ-VSP5623/2021	OK247209
VSP5625	B.1.617.2	8/12/21	surveillance	99.3	3672	hCoV-19/USA/PA-VSP5625/2021	OK247210
VSP5627	B.1.617.2	8/12/21	surveillance	99.7	2141	hCoV-19/USA/NJ-VSP5627/2021	OK247211
VSP5628	AY.25	8/12/21	surveillance	98.7	673	hCoV-19/USA/NJ-VSP5628/2021	OK247212
VSP5629	B.1.617.2	8/12/21	surveillance	98	4430	hCoV-19/USA/PA-VSP5629/2021	OK247213
VSP5630	AY.3	8/12/21	surveillance	98.7	1457	hCoV-19/USA/NJ-VSP5630/2021	OK247214
VSP5631	AY.3	8/13/21	surveillance	99.1	834	hCoV-19/USA/PA-VSP5631/2021	OK247215
VSP5632	B.1.617.2	8/13/21	surveillance	99.5	1168	hCoV-19/USA/PA-VSP5632/2021	OK247216
VSP5633	B.1.617.2	8/13/21	surveillance	99.6	1371	hCoV-19/USA/PA-VSP5633/2021	OK247217
VSP5634	AY.25	8/13/21	surveillance	99.7	10558	hCoV-19/USA/PA-VSP5634/2021	OK247218
VSP5635	B.1.617.2	8/13/21	surveillance	99.6	1857	hCoV-19/USA/PA-VSP5635/2021	OK247219
VSP5636	B.1.617.2	8/13/21	surveillance	99.5	1323	hCoV-19/USA/PA-VSP5636/2021	OK247220
VSP5637	AY.25	8/13/21	surveillance	99	947	hCoV-19/USA/PA-VSP5637/2021	OK247221
VSP5639	AY.25	8/13/21	surveillance	98.8	1188	hCoV-19/USA/PA-VSP5639/2021	OK247223
VSP5640	AY.3	8/13/21	surveillance	98.8	830	hCoV-19/USA/PA-VSP5640/2021	OK247224
VSP5641	B.1.617.2	8/13/21	surveillance	99.1	1558	hCoV-19/USA/PA-VSP5641/2021	OK247225
VSP5642	B.1.617.2	8/13/21	surveillance	98.7	251	hCoV-19/USA/PA-VSP5642/2021	OK247226
VSP5643	AY.25	8/13/21	surveillance	99.5	757	hCoV-19/USA/PA-VSP5643/2021	OK247227
VSP5644	AY.4	8/13/21	surveillance	99.6	930	hCoV-19/USA/NJ-VSP5644/2021	OK247228
VSP5645	B.1.617.2	8/13/21	surveillance	98.8	823	hCoV-19/USA/PA-VSP5645/2021	OK247229
VSP5646	B.1.617.2	8/13/21	surveillance	99.7	8406	hCoV-19/USA/PA-VSP5646/2021	OK247230
VSP5647	B.1.617.2	8/13/21	surveillance	99.5	1175	hCoV-19/USA/PA-VSP5647/2021	OK247231
VSP5648	AY.15	8/13/21	surveillance	99.6	4054	hCoV-19/USA/PA-VSP5648/2021	OK247232
VSP5649	B.1.617.2	8/13/21	surveillance	99.2	1030	hCoV-19/USA/PA-VSP5649/2021	OK247233
VSP5650	B.1.617.2	8/13/21	surveillance	99.4	1783	hCoV-19/USA/PA-VSP5650/2021	OK247234
VSP5651	B.1.617.2	8/13/21	surveillance	99.1	1649	hCoV-19/USA/PA-VSP5651/2021	OK247235
VSP5652	AY.25	8/13/21	surveillance	98.9	528	hCoV-19/USA/PA-VSP5652/2021	OK247236
VSP5653	AY.3	8/13/21	surveillance	98.8	1440	hCoV-19/USA/NJ-VSP5653/2021	OK247237
VSP5654	B.1.617.2	8/13/21	surveillance	98.8	870	hCoV-19/USA/NJ-VSP5654/2021	OK247238
VSP5656	AY.25	8/14/21	surveillance	98.1	116	hCoV-19/USA/PA-VSP5656/2021	OK247240
VSP5658	AY.3	8/14/21	surveillance	99.6	3621	hCoV-19/USA/PA-VSP5658/2021	OK247242
VSP5659	AY.25	8/14/21	surveillance	99.2	573	hCoV-19/USA/PA-VSP5659/2021	OK247243
VSP5660	B.1.617.2	8/14/21	surveillance	99.7	2280	hCoV-19/USA/PA-VSP5660/2021	OK247244
VSP5661	B.1.617.2	8/14/21	surveillance	99.1	941	hCoV-19/USA/PA-VSP5661/2021	OK247245
VSP5662	B.1.617.2	8/14/21	surveillance	99.1	990	hCoV-19/USA/PA-VSP5662/2021	OK247246
VSP5663	AY.15	8/14/21	surveillance	99.6	2718	hCoV-19/USA/PA-VSP5663/2021	OK247247
VSP5664	B.1.617.2	8/14/21	surveillance	99.7	2116	hCoV-19/USA/NJ-VSP5664/2021	OK247248

VSP5665	B.1.617.2	8/14/21	surveillance	99.4	1450	hCoV-19/USA/PA-VSP5665/2021	OK247249
VSP5666	B.1.617.2	8/14/21	surveillance	99.4	1670	hCoV-19/USA/PA-VSP5666/2021	OK247250
VSP5667	None	8/14/21	surveillance	99.7	716	hCoV-19/USA/PA-VSP5667/2021	OK247251
VSP5668	AY.25	8/14/21	surveillance	99	657	hCoV-19/USA/PA-VSP5668/2021	OK247252
VSP5672	AY.25	8/15/21	surveillance	99.7	7891	hCoV-19/USA/PA-VSP5672/2021	OK247256
VSP5673	B.1.617.2	8/15/21	surveillance	98.7	372	hCoV-19/USA/PA-VSP5673/2021	OK247257
VSP5674	AY.25	8/15/21	surveillance	99.4	1354	hCoV-19/USA/PA-VSP5674/2021	OK247258
VSP5676	B.1.617.2	8/15/21	surveillance	99.1	612	hCoV-19/USA/ME-VSP5676/2021	OK247259
VSP5677	AY.25	8/16/21	surveillance	99.3	1363	hCoV-19/USA/PA-VSP5677/2021	OK247260
VSP5678	B.1.617.2	8/16/21	surveillance	99	1962	hCoV-19/USA/PA-VSP5678/2021	OK247261
VSP5679	B.1.617.2	8/16/21	surveillance	98.9	865	hCoV-19/USA/PA-VSP5679/2021	OK247262
VSP5680	AY.3	8/16/21	surveillance	99.4	887	hCoV-19/USA/PA-VSP5680/2021	OK247263
VSP5681	AY.3	8/16/21	surveillance	99.4	1480	hCoV-19/USA/PA-VSP5681/2021	OK247264
VSP5682	AY.25	8/16/21	surveillance	99	1693	hCoV-19/USA/PA-VSP5682/2021	OK247265
VSP5683	B.1.617.2	8/16/21	surveillance	99.7	1090	hCoV-19/USA/PA-VSP5683/2021	OK247266
VSP5684	AY.3	8/16/21	surveillance	99.6	2033	hCoV-19/USA/PA-VSP5684/2021	OK247267
VSP5685	AY.25	8/16/21	surveillance	99.1	2168	hCoV-19/USA/PA-VSP5685/2021	OK247268
VSP5686	AY.3	8/16/21	surveillance	98.7	619	hCoV-19/USA/PA-VSP5686/2021	OK247269
VSP5708	AY.25	7/30/21	surveillance	99.5	1728	hCoV-19/USA/PA-VSP5708/2021	OK247272
VSP5709	AY.21	7/30/21	surveillance	99.7	3445	hCoV-19/USA/PA-VSP5709/2021	OK247273
VSP5710	B.1.617.2	7/31/21	surveillance	99.7	4914	hCoV-19/USA/PA-VSP5710/2021	OK247274
VSP5712	B.1.617.2	8/2/21	surveillance	99.6	4079	hCoV-19/USA/PA-VSP5712/2021	OK247275
VSP5713	B.1.617.2	8/2/21	surveillance	99.7	2800	hCoV-19/USA/PA-VSP5713/2021	OK247276
VSP5714	B.1.617.2	8/2/21	surveillance	98.7	1808	hCoV-19/USA/PA-VSP5714/2021	OK247277
VSP5715	AY.12	8/2/21	surveillance	99.6	3575	hCoV-19/USA/PA-VSP5715/2021	OK247278
VSP5716	AY.25	8/2/21	surveillance	99.7	5007	hCoV-19/USA/PA-VSP5716/2021	OK247279
VSP5717	B.1.617.2	8/2/21	surveillance	99.4	2438	hCoV-19/USA/PA-VSP5717/2021	OK247280
VSP5718	B.1.617.2	8/3/21	surveillance	99.7	2279	hCoV-19/USA/PA-VSP5718/2021	OK247281
VSP5719	B.1.617.2	8/4/21	surveillance	98.9	3087	hCoV-19/USA/PA-VSP5719/2021	OK247282
VSP5721	AY.25	8/4/21	surveillance	98.2	581	hCoV-19/USA/PA-VSP5721/2021	OK247283
VSP5722	B.1.617.2	8/4/21	surveillance	99.7	5170	hCoV-19/USA/PA-VSP5722/2021	OK247284
VSP5723	AY.3	8/4/21	surveillance	99.4	1664	hCoV-19/USA/PA-VSP5723/2021	OK247285
VSP5724	AY.3	8/5/21	surveillance	99	987	hCoV-19/USA/PA-VSP5724/2021	OK247286
VSP5725	B.1.617.2	8/5/21	surveillance	99.7	3843	hCoV-19/USA/PA-VSP5725/2021	OK247287
VSP5727	B.1.617.2	8/7/21	surveillance	99.7	4915	hCoV-19/USA/PA-VSP5727/2021	OK247288
VSP5729	B.1.617.2	8/8/21	surveillance	99.5	1528	hCoV-19/USA/PA-VSP5729/2021	OK247289
VSP5738	B.1.617.2	8/6/21	surveillance	98.8	1052	hCoV-19/USA/PA-VSP5738/2021	OK247290
VSP5739	B.1.617.2	8/9/21	surveillance	98.9	1322	hCoV-19/USA/PA-VSP5739/2021	OK247291
VSP5740	AY.20	8/9/21	surveillance	98.8	1468	hCoV-19/USA/MI-VSP5740/2021	OK247292
VSP5742	B.1.617.2	8/7/21	surveillance	99.6	1598	hCoV-19/USA/PA-VSP5742/2021	OK247293
VSP5743	AY.20	8/7/21	surveillance	99.5	1692	hCoV-19/USA/PA-VSP5743/2021	OK247294
VSP5744	B.1.617.2	8/7/21	surveillance	99.7	950	hCoV-19/USA/PA-VSP5744/2021	OK247295
VSP5745	AY.2	8/10/21	surveillance	99.7	10300	hCoV-19/USA/PA-VSP5745/2021	OK247296
VSP5746	AY.25	8/10/21	surveillance	98.8	710	hCoV-19/USA/PA-VSP5746/2021	OK247297
VSP5747	AY.1	8/10/21	surveillance	98.8	317	hCoV-19/USA/PA-VSP5747/2021	OK247298
VSP5748	AY.24	8/11/21	surveillance	99.7	16340	hCoV-19/USA/PA-VSP5748/2021	OK247299
VSP5749	AY.25	8/8/21	surveillance	99.6	2267	hCoV-19/USA/PA-VSP5749/2021	OK247300

VSP5908	B.1.617.2	8/24/21	surveillance	97	150	hCoV-19/USA/NJ-VSP5908/2021	OK247301
VSP5910	AY.3	8/24/21	surveillance	99.6	3040	hCoV-19/USA/NJ-VSP5910/2021	OK247302
VSP5912	B.1.617.2	8/26/21	surveillance	98.8	1415	hCoV-19/USA/NJ-VSP5912/2021	OK247303
VSP5920	B.1.617.2	8/28/21	surveillance	99.7	26703	hCoV-19/USA/PA-VSP5920/2021	OK247304
VSP5928	AY.3	8/28/21	surveillance	99.6	2019	hCoV-19/USA/PA-VSP5928/2021	OK247305
VSP5929	AY.4	8/28/21	surveillance	96.5	70	hCoV-19/USA/PA-VSP5929/2021	OK247306
VSP5931	AY.25	8/28/21	surveillance	98.6	573	hCoV-19/USA/PA-VSP5931/2021	OK247307
VSP5932	AY.25	8/28/21	surveillance	98.8	1252	hCoV-19/USA/PA-VSP5932/2021	OK247308
VSP5935	AY.3	8/28/21	accine breakthroug	99.4	840	hCoV-19/USA/PA-VSP5935/2021	OK247309
VSP5936	B.1.617.2	8/28/21	surveillance	98.5	2020	hCoV-19/USA/PA-VSP5936/2021	OK247310
VSP5942	B.1.617.2	8/29/21	surveillance	98.8	686	hCoV-19/USA/PA-VSP5942/2021	OK247311
VSP5946	B.1.617.2	8/29/21	surveillance	98.9	948	hCoV-19/USA/PA-VSP5946/2021	OK247312
VSP5947	AY.3	8/29/21	surveillance	99	1243	hCoV-19/USA/PA-VSP5947/2021	OK247313
VSP5948	AY.3	8/29/21	surveillance	97.9	901	hCoV-19/USA/PA-VSP5948/2021	OK247314
VSP5949	AY.3	8/29/21	surveillance	99	1095	hCoV-19/USA/PA-VSP5949/2021	OK247315
VSP5953	B.1.617.2	8/30/21	surveillance	98.4	773	hCoV-19/USA/PA-VSP5953/2021	OK247316
VSP5954	B.1.617.2	8/30/21	surveillance	97.8	101	hCoV-19/USA/PA-VSP5954/2021	OK247317
VSP5957	B.1.617.2	8/30/21	surveillance	99.5	2165	hCoV-19/USA/NJ-VSP5957/2021	OK247318
VSP5958	B.1.617.2	8/30/21	surveillance	98.3	480	hCoV-19/USA/PA-VSP5958/2021	OK247319
VSP5959	B.1.617.2	8/30/21	surveillance	97.6	147	hCoV-19/USA/PA-VSP5959/2021	OK247320
VSP5960	AY.3.1	8/30/21	surveillance	97.7	797	hCoV-19/USA/PA-VSP5960/2021	OK247321
VSP5961	AY.24	8/30/21	surveillance	99	5902	hCoV-19/USA/PA-VSP5961/2021	OK247322
VSP5968	B.1.617.2	8/31/21	surveillance	97.3	626	hCoV-19/USA/PA-VSP5968/2021	OK247323
VSP5971	B.1.617.2	8/31/21	surveillance	97.2	253	hCoV-19/USA/PA-VSP5971/2021	OK247324
VSP5980	AY.3	8/31/21	surveillance	99.6	2017	hCoV-19/USA/PA-VSP5980/2021	OK247325
VSP5983	B.1.617.2	9/1/21	surveillance	99	1005	hCoV-19/USA/PA-VSP5983/2021	OK247326
VSP5986	B.1.617.2	9/1/21	surveillance	98.9	975	hCoV-19/USA/PA-VSP5986/2021	OK247327
VSP5987	B.1.617.2	9/1/21	surveillance	98.9	874	hCoV-19/USA/PA-VSP5987/2021	OK247328
VSP5991	AY.25	9/1/21	surveillance	99.1	1684	hCoV-19/USA/PA-VSP5991/2021	OK247329
VSP5992	AY.24	9/1/21	accine breakthroug	98.4	267	hCoV-19/USA/PA-VSP5992/2021	OK247330
VSP5996	B.1.617.2	9/1/21	surveillance	98	236	hCoV-19/USA/PA-VSP5996/2021	OK247331
VSP5997	B.1.617.2	9/1/21	surveillance	98.1	379	hCoV-19/USA/NJ-VSP5997/2021	OK247332
VSP6000	AY.12	9/1/21	surveillance	97.6	130	hCoV-19/USA/PA-VSP6000/2021	OK247333
VSP6004	B.1.617.2	9/2/21	surveillance	98.1	616	hCoV-19/USA/NJ-VSP6004/2021	OK247334
VSP6005	B.1.617.2	9/2/21	surveillance	98.8	584	hCoV-19/USA/NJ-VSP6005/2021	OK247335
VSP6007	B.1.617.2	9/2/21	surveillance	99.7	3512	hCoV-19/USA/PA-VSP6007/2021	OK247336
VSP6008	AY.4	9/2/21	surveillance	95.2	63	hCoV-19/USA/NJ-VSP6008/2021	OK247337
VSP6009	B.1.617.2	9/2/21	surveillance	98.9	955	hCoV-19/USA/PA-VSP6009/2021	OK247338
VSP6011	AY.24	9/2/21	accine breakthroug	99.6	1192	hCoV-19/USA/PA-VSP6011/2021	OK247339
VSP6013	AY.25	9/2/21	surveillance	99	1563	hCoV-19/USA/PA-VSP6013/2021	OK247340
VSP6015	B.1.617.2	9/2/21	accine breakthroug	98.2	433	hCoV-19/USA/PA-VSP6015/2021	OK247341
VSP6018	AY.20	9/2/21	surveillance	98.1	238	hCoV-19/USA/PA-VSP6018/2021	OK247342
VSP6022	B.1.617.2	9/2/21	surveillance	98.1	203	hCoV-19/USA/PA-VSP6022/2021	OK247343
VSP6023	B.1.617.2	9/2/21	surveillance	98.6	553	hCoV-19/USA/PA-VSP6023/2021	OK247344
VSP6027	AY.25	9/2/21	surveillance	99.7	2976	hCoV-19/USA/PA-VSP6027/2021	OK247345
VSP6033	AY.24	9/2/21	surveillance	99	1458	hCoV-19/USA/PA-VSP6033/2021	OK247346
VSP6034	B.1.617.2	9/2/21	surveillance	98.8	1304	hCoV-19/USA/NJ-VSP6034/2021	OK247347

VSP6035	B.1.617.2	9/2/21	surveillance	97.7	250	hCoV-19/USA/NJ-VSP6035/2021	OK247348
VSP6038	AY.25	9/2/21	surveillance	98.7	1006	hCoV-19/USA/PA-VSP6038/2021	OK247349
VSP6039	B.1.617.2	9/3/21	surveillance	99	606	hCoV-19/USA/PA-VSP6039/2021	OK247350
VSP6040	B.1.617.2	9/3/21	surveillance	97.6	446	hCoV-19/USA/PA-VSP6040/2021	OK247351
VSP6042	B.1.617.2	9/3/21	accine breakthroug	97.5	160	hCoV-19/USA/PA-VSP6042/2021	OK247352
VSP6043	AY.3	9/3/21	surveillance	98.6	825	hCoV-19/USA/PA-VSP6043/2021	OK247353
VSP6045	B.1.617.2	9/3/21	surveillance	99.7	11265	hCoV-19/USA/PA-VSP6045/2021	OK247354
VSP6047	B.1.617.2	9/3/21	surveillance	99.7	12390	hCoV-19/USA/NJ-VSP6047/2021	OK247355
VSP6049	B.1.617.2	9/3/21	surveillance	98.7	550	hCoV-19/USA/PA-VSP6049/2021	OK247356
VSP6050	AY.24	9/3/21	surveillance	99.4	1550	hCoV-19/USA/PA-VSP6050/2021	OK247357
VSP6051	AY.24	9/3/21	surveillance	99.7	19048	hCoV-19/USA/PA-VSP6051/2021	OK247358
VSP6053	B.1.617.2	9/3/21	surveillance	98.9	1832	hCoV-19/USA/PA-VSP6053/2021	OK247359
VSP6054	B.1.617.2	9/3/21	surveillance	98.8	569	hCoV-19/USA/PA-VSP6054/2021	OK247360
VSP6056	B.1.617.2	9/3/21	surveillance	98.9	772	hCoV-19/USA/NJ-VSP6056/2021	OK247361
VSP6057	B.1.617.2	9/4/21	surveillance	98.6	219	hCoV-19/USA/NJ-VSP6057/2021	OK247362
VSP6058	B.1.617.2	9/4/21	surveillance	98.8	616	hCoV-19/USA/PA-VSP6058/2021	OK247363
VSP6061	B.1.617.2	9/4/21	surveillance	97.8	237	hCoV-19/USA/PA-VSP6061/2021	OK247364
VSP6063	B.1.617.2	9/4/21	surveillance	99.5	1802	hCoV-19/USA/PA-VSP6063/2021	OK247365
VSP6064	AY.24	9/4/21	surveillance	99.7	6099	hCoV-19/USA/PA-VSP6064/2021	OK247366
VSP6067	AY.3	9/4/21	surveillance	99.3	2412	hCoV-19/USA/PA-VSP6067/2021	OK247367
VSP6068	AY.24	9/4/21	surveillance	98.9	1611	hCoV-19/USA/PA-VSP6068/2021	OK247368
VSP6075	B.1.617.2	9/4/21	surveillance	99.2	2177	hCoV-19/USA/PA-VSP6075/2021	OK247369
VSP6108	AY.19	8/21/21	surveillance	99.5	1090	hCoV-19/USA/PA-VSP6108/2021	OK247370
VSP6112	AY.25	8/21/21	surveillance	98.8	553	hCoV-19/USA/PA-VSP6112/2021	OK247371
VSP6114	B.1.617.2	8/22/21	surveillance	98.7	282	hCoV-19/USA/PA-VSP6114/2021	OK247372
VSP6115	B.1.617.2	8/22/21	surveillance	99	1424	hCoV-19/USA/PA-VSP6115/2021	OK247373
VSP6118	AY.19	8/24/21	surveillance	98.6	408	hCoV-19/USA/PA-VSP6118/2021	OK247374
VSP6122	B.1.617.2	8/25/21	surveillance	99	701	hCoV-19/USA/PA-VSP6122/2021	
VSP6132	B.1.617.2	9/2/21	surveillance	99.6	878	hCoV-19/USA/PA-VSP6132/2021	OK247375
VSP6133	B.1.617.2	9/2/21	surveillance	99.7	2171	hCoV-19/USA/PA-VSP6133/2021	OK247376
VSP6136	AY.3	8/23/21	surveillance	98.4	500	hCoV-19/USA/PA-VSP6136/2021	OK247377
VSP6145	AY.25	8/31/21	surveillance	99.3	6995	hCoV-19/USA/PA-VSP6145/2021	OK247378
VSP6149	AY.25	9/1/21	surveillance	99.6	1613	hCoV-19/USA/PA-VSP6149/2021	OK247379
VSP6152	B.1.617.2	8/29/21	surveillance	98.7	981	hCoV-19/USA/PA-VSP6152/2021	OK247380
VSP8001	B.1.409	2/21/21	surveillance	99.8	148	hCoV-19/USA/S25-IllM/2021	
VSP8002	B.1.526	2/21/21	surveillance	99.8	666	hCoV-19/USA/S26-IllM/2021	
VSP8003	B.1.637	2/26/21	surveillance	99.8	10156	hCoV-19/USA/S1-IllM/2021	
VSP8004	B.1.596	2/26/21	surveillance	99.8	95	hCoV-19/USA/S2-IllM/2021	
VSP8005	B.1.234	2/26/21	surveillance	99.8	10992	hCoV-19/USA/S3-IllM/2021	
VSP8006	B.1.637	2/25/21	surveillance	99.8	2398	hCoV-19/USA/S4-IllM/2021	
VSP8007	B.1.526	2/26/21	surveillance	99.8	233	hCoV-19/USA/S5-IllM/2021	
VSP8008	B.1.2	2/26/21	surveillance	99.8	168	hCoV-19/USA/S6-IllM/2021	
VSP8009	B.1.526	2/27/21	surveillance	99.8	1121	hCoV-19/USA/S7-IllM/2021	
VSP8010	R.1	2/26/21	surveillance	99.8	3793	hCoV-19/USA/S8-IllM/2021	
VSP8011	B.1.575	2/26/21	surveillance	99.8	233	hCoV-19/USA/S9-IllM/2021	
VSP8012	B.1.1.7	2/26/21	surveillance	99.8	12488	hCoV-19/USA/S10-IllM/2021	
VSP8013	B.1.1.519	2/27/21	surveillance	99.9	3592	hCoV-19/USA/S11-IllM/2021	

VSP8014	B.1.243	2/27/21	surveillance	99.8	8862
VSP8015	B.1.243	2/27/21	surveillance	99.8	2523
VSP8016	B.1.595	3/1/21	surveillance	99.8	5257
VSP8017	B.1.1.7	3/1/21	surveillance	99.8	1083
VSP8018	B.1.1.7	3/1/21	surveillance	99.8	5087
VSP8019	B.1.1.7	3/1/21	surveillance	99.8	3108
VSP8020	B.1.1.7	3/1/21	surveillance	99.8	81
VSP8021	B.1.2	3/1/21	surveillance	99.8	144
VSP8022	B.1.1.7	3/1/21	surveillance	99.8	1205
VSP8023	B.1.526	3/1/21	surveillance	99.8	10718
VSP8024	B.1.596	3/1/21	surveillance	99.8	225
VSP8025	B.1.2	3/1/21	surveillance	99.4	25
VSP8026	B.1.526	3/1/21	surveillance	99.8	4109
VSP8027	B.1.243	1/31/21	surveillance	99.8	3144
VSP8028	B.1.243	1/31/21	surveillance	99.8	2621
VSP8029	B.1.526	2/2/21	surveillance	99.9	9926
VSP8030	B.1.1.7	2/3/21	surveillance	99.8	394
VSP8031	B.1.575	2/5/21	surveillance	99.8	915
VSP8032	B.1.575	2/6/21	surveillance	98.6	17
VSP8033	B.1.526	2/8/21	surveillance	99.9	12517
VSP8034	B.1.1.7	2/10/21	surveillance	99.8	8962
VSP8035	B.1.526	2/10/21	surveillance	99.8	5638
VSP8036	B.1.575	2/10/21	surveillance	99.8	7241
VSP8037	B.1.427	2/10/21	surveillance	99.8	3753
VSP8038	B.1.2	2/10/21	surveillance	99.8	4089
VSP8039	B.1.243	2/10/21	surveillance	99.8	13373
VSP8040	B.1.575	2/12/21	surveillance	99.8	2493
VSP8041	B.1.243	2/13/21	surveillance	99.8	3293
VSP8042	B.1.595	2/13/21	surveillance	99.8	1209
VSP8043	B.1.1	2/16/21	surveillance	99.8	4770
VSP8044	B.1.1.7	2/19/21	surveillance	99.8	548
VSP8045	B.1.234	2/19/21	surveillance	99.8	1108
VSP8046	B.1.234	2/23/21	surveillance	99.8	8211
VSP8047	B.1.1.7	3/3/21	surveillance	99.8	369
VSP8048	B.1.1.7	3/3/21	surveillance	99.9	10880
VSP8049	R.1	3/3/21	surveillance	97.6	14
VSP8050	B.1.575	3/4/21	surveillance	99.8	4329
VSP8065	B.1.1.7	4/27/21	surveillance	99.7	2480
VSP8066	B.1.1.7	4/27/21	surveillance	99.6	2467
VSP8067	B.1.1.7	4/27/21	surveillance	99.7	2903
VSP8073	P.1.2	4/28/21	surveillance	99.6	2484
VSP8074	B.1.1.7	4/28/21	surveillance	99.7	2899
VSP8075	B.1.1.7	4/21/21	accine breakthroug	99.7	2854
VSP8077	B.1.1.7	4/12/21	accine breakthroug	99.7	2377
VSP8078	B.1.1.7	4/13/21	accine breakthroug	99.7	2319
VSP8080	B.1.526	4/19/21	accine breakthroug	99.7	2717
VSP8081	B.1.1.7	4/19/21	accine breakthroug	99.7	2826

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hCoV-19/USA/PA-Jefferson_20210601_COVIDSeq2_S32/2021

VSP8082	B.1.1.7	4/21/21	accine breakthroug	99.7	2386
VSP8083	B.1.1.7	4/23/21	accine breakthroug	99.7	2432
VSP8084	B.1.1.7	4/23/21	accine breakthroug	99.7	2520
VSP8087	B.1.526	5/6/21	accine breakthroug	98.6	1600
VSP8088	B.1.1.7	5/7/21	accine breakthroug	99.2	2522
VSP8089	B.1.1.7	5/7/21	accine breakthroug	99.7	3005
VSP8092	B.1.1.7	5/10/21	accine breakthroug	99.4	2746
VSP8094	B.1.1.7	5/13/21	accine breakthroug	99.7	2549
VSP8095	B.1.1.7	4/7/21	surveillance	99.7	2575
VSP8096	B.1.1.7	4/7/21	surveillance	99.7	2204
VSP8097	B.1.1.7	4/7/21	surveillance	99.7	2046
VSP8098	B.1.575	4/7/21	surveillance	99.6	2684
VSP8099	B.1.1.7	4/7/21	surveillance	99.8	2567
VSP8100	B.1.1.7	4/9/21	surveillance	99.7	2704
VSP8101	B.1.1.7	4/9/21	surveillance	99.7	2898
VSP8102	B.1.1.7	4/10/21	surveillance	99.7	2213
VSP8103	B.1.1.7	4/10/21	surveillance	99.7	2988
VSP8105	B.1.1.7	4/10/21	surveillance	99.7	2475
VSP8106	B.1.1.7	4/12/21	surveillance	99.7	2416
VSP8107	B.1.526	4/13/21	surveillance	99.7	2743
VSP8108	B.1.1.7	4/13/21	surveillance	99.7	2397
VSP8109	B.1.1.7	4/13/21	surveillance	99.7	2683
VSP8110	Q.1	4/15/21	surveillance	99.4	1605
VSP8111	B.1.1.7	4/14/21	surveillance	99.7	2421
VSP8112	B.1.1.7	4/14/21	surveillance	99.7	2068
VSP8113	B.1.526	4/13/21	surveillance	99.7	2810
VSP8114	B.1.1.7	4/15/21	surveillance	99.7	2124
VSP8115	B.1.1.7	4/15/21	surveillance	99.8	2762
VSP8116	B.1.1.7	4/15/21	surveillance	99.7	2461
VSP8117	B.1.1.7	4/15/21	surveillance	99.7	2461
VSP8118	B.1.1.7	4/16/21	surveillance	99.8	2604
VSP8119	B.1.526	4/16/21	surveillance	99.6	2735
VSP8120	B.1.1.7	4/15/21	surveillance	99.7	2528
VSP8121	B.1.1.7	4/15/21	surveillance	99.7	2476
VSP8122	B.1.1.7	4/17/21	surveillance	99.7	2767
VSP8123	B.1.1.7	4/17/21	surveillance	99.7	2845
VSP8124	B.1.1.7	4/17/21	surveillance	99.7	2426
VSP8125	B.1.1.7	4/17/21	surveillance	99.7	2452
VSP8126	B.1.1.7	4/16/21	surveillance	99.7	2319
VSP8127	B.1.1.7	4/17/21	surveillance	99.7	1664
VSP8128	B.1.1.7	4/17/21	surveillance	99.1	1735
VSP8129	B.1.1.7	4/18/21	surveillance	99.7	2216
VSP8130	B.1.1.7	4/17/21	surveillance	99.8	2797
VSP8131	B.1.1.7	4/17/21	surveillance	99.8	2837
VSP8132	B.1.351	4/17/21	surveillance	99.5	3132
VSP8133	B.1.575	4/18/21	surveillance	99.7	2533
VSP8134	B.1.637	4/18/21	surveillance	99.7	2431

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VSP8135	B.1.1.7	4/19/21	surveillance	99.7	2942
VSP8136	B.1.1.7	4/19/21	surveillance	99.7	2567
VSP8137	Q.6	4/19/21	surveillance	99.7	2562
VSP8138	B.1.1.7	4/19/21	surveillance	99.7	2721
VSP8139	B.1.526	4/20/21	surveillance	99.7	2755
VSP8140	B.1.526	4/20/21	surveillance	99.7	3437
VSP8141	B.1.1.7	5/9/21	accine breakthroug	99.7	2418
VSP8142	B.1.1.7	5/16/21	accine breakthroug	99.7	2295
VSP8143	B.1.617.2	4/29/21	accine breakthroug	99.7	2605
VSP8144	B.1.1.7	5/7/21	accine breakthroug	99.7	2703
VSP8147	B.1.1.7	4/20/21	surveillance	99.6	2103
VSP8148	B.1.1.7	4/20/21	surveillance	99.7	1876
VSP8149	B.1.1.7	4/20/21	surveillance	99.2	1450
VSP8150	B.1.1.7	4/21/21	surveillance	99.7	2885
VSP8151	B.1.1.7	4/21/21	surveillance	99.7	1559
VSP8152	B.1.1.7	4/21/21	surveillance	99.7	2194
VSP8153	B.1.1.7	4/21/21	surveillance	99.3	2455
VSP8154	B.1.1.7	4/21/21	surveillance	99.7	2125
VSP8155	B.1.1.7	4/22/21	surveillance	99	2344
VSP8156	B.1.1.7	4/22/21	surveillance	99.7	1421
VSP8158	B.1.1.519	4/21/21	surveillance	98.6	1159
VSP8159	B.1.1.7	4/24/21	surveillance	99.2	1555
VSP8160	B.1.526	4/23/21	surveillance	99.7	2588
VSP8161	B.1.1.7	4/23/21	surveillance	99.1	1500
VSP8162	B.1.526	4/24/21	surveillance	99.7	2712
VSP8163	B.1.1.7	4/25/21	surveillance	99.7	2575
VSP8164	B.1.1.7	4/25/21	surveillance	99.7	2568
VSP8165	B.1.1.7	4/25/21	surveillance	99.7	2661
VSP8166	B.1.1.7	4/26/21	surveillance	99.7	3096
VSP8167	B.1.1.7	4/26/21	surveillance	99.7	2827
VSP8168	B.1.1.7	4/26/21	surveillance	99.7	3466
VSP8169	B.1.1.7	4/27/21	surveillance	99.7	2951
VSP8170	B.1.526	4/27/21	surveillance	99.8	3181
VSP8171	B.1.1.7	4/27/21	surveillance	99.7	3205
VSP8176	B.1.637	4/29/21	surveillance	99.7	2206
VSP8177	B.1.1.7	4/29/21	surveillance	99.7	2720
VSP8178	B.1.526	4/29/21	surveillance	99.7	2894
VSP8179	B.1.526	1/5/21	surveillance	99.7	3160
VSP8180	B.1.1.7	4/30/21	surveillance	99.7	3156
VSP8181	B.1.621	4/30/21	surveillance	99.7	3187
VSP8185	B.1.1.7	5/1/21	surveillance	99.7	2288
VSP8186	B.1.1.7	5/1/21	surveillance	99.7	2872
VSP8187	B.1.1.7	5/6/21	surveillance	99.8	2295
VSP8188	B.1.1.7	5/6/21	surveillance	99.3	2194
VSP8189	B.1.1.7	5/6/21	surveillance	99.2	1246
VSP8190	B.1.1.7	5/6/21	surveillance	99.7	2136
VSP8191	B.1.1.7	5/7/21	surveillance	99.7	2267

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VSP8192	B.1.1.7	5/8/21	surveillance	99.8	2655
VSP8193	B.1.1.7	5/8/21	surveillance	99.7	1908
VSP8194	B.1.1.7	5/9/21	surveillance	99.7	1692
VSP8195	B.1.1.7	5/10/21	surveillance	99.7	2358
VSP8196	B.1.1.7	5/10/21	surveillance	99.7	1976
VSP8197	B.1.1.7	5/10/21	surveillance	99.7	2383
VSP8198	B.1.526	5/10/21	surveillance	99.7	1666
VSP8199	B.1.1.7	5/10/21	surveillance	99.7	1886
VSP8200	B.1.621	5/12/21	surveillance	99.7	2776
VSP8201	B.1.637	5/11/21	surveillance	99.7	2742
VSP8202	B.1.1.7	5/11/21	surveillance	99.7	2188
VSP8203	B.1.1.7	5/12/21	surveillance	99.7	1841
VSP8204	B.1.1.7	5/13/21	surveillance	99.7	2617
VSP8205	B.1.1.7	5/13/21	surveillance	99.7	2230
VSP8206	B.1.1.7	5/13/21	surveillance	99.7	1730
VSP8207	B.1.1.7	5/13/21	surveillance	99.7	2141
VSP8208	B.1.1.7	5/13/21	surveillance	99.7	2038
VSP8209	B.1.1.7	5/2/21	surveillance	99.7	2050
VSP8210	B.1.1.7	5/2/21	surveillance	99.7	1866
VSP8211	B.1.1.7	5/2/21	surveillance	99.7	2651
VSP8212	B.1.617.2	5/3/21	surveillance	99.7	2301
VSP8213	B.1.1.7	5/3/21	surveillance	99.7	2692
VSP8214	B.1.1.7	5/3/21	surveillance	99.7	2628
VSP8215	B.1.1.7	5/3/21	surveillance	99.4	2705
VSP8216	B.1.525	5/3/21	surveillance	97.1	895
VSP8217	B.1.1.7	5/3/21	surveillance	99.7	2421
VSP8218	B.1.1.7	5/4/21	surveillance	99.7	1628
VSP8219	B.1.1.7	5/4/21	surveillance	99.7	2273
VSP8220	B.1.1.7	5/4/21	surveillance	98.7	1248
VSP8221	B.1.1.7	5/4/21	surveillance	99.7	2265
VSP8222	B.1.1.7	5/13/21	surveillance	99.7	1946
VSP8223	B.1.1.7	5/13/21	surveillance	99.7	2291
VSP8224	B.1.1.7	5/15/21	surveillance	99.7	2134
VSP8225	B.1.1.7	5/15/21	surveillance	99.7	2613
VSP8226	B.1.1.7	5/17/21	surveillance	99.7	2172
VSP8227	B.1.1.7	5/17/21	surveillance	99.7	2200
VSP8228	B.1.526	5/18/21	surveillance	99.7	2432
VSP8229	B.1.1.7	5/18/21	surveillance	99.7	2386
VSP8230	B.1.1.7	5/19/21	surveillance	99.7	2433
VSP8231	B.1.526	5/19/21	surveillance	99.7	2372
VSP8232	B.1.526	5/19/21	surveillance	99.7	3061
VSP8233	B.1.1.7	5/19/21	surveillance	97.7	2059
VSP8234	B.1.526	5/21/21	surveillance	99.5	1860
VSP8235	B.1.1.7	5/21/21	surveillance	99.7	2627
VSP8236	B.1.1.7	5/21/21	surveillance	99.7	2781
VSP8237	B.1.1.7	5/22/21	surveillance	99.7	1428
VSP8238	B.1.1.7	5/22/21	surveillance	99.5	1610

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VSP8239	B.1.1.7	5/24/21	surveillance	99.7	3051
VSP8240	B.1.1.7	5/25/21	surveillance	99.7	2763
VSP8241	B.1.526	5/24/21	surveillance	99.7	1819
VSP8242	B.1.525	5/26/21	surveillance	99.5	2949
VSP8243	B.1.526	5/26/21	surveillance	99.7	2796
VSP8244	B.1.1.7	5/26/21	surveillance	99.7	2890
VSP8245	B.1.1.7	5/28/21	surveillance	99.8	2826
VSP8246	B.1.1.7	5/28/21	surveillance	99.8	2696
VSP8247	B.1.526	5/30/21	surveillance	99.7	2658
VSP8248	B.1.1.7	5/26/21	surveillance	99.7	3293
VSP8249	B.1.1.7	6/3/21	surveillance	99.7	2559
VSP8250	P.1	5/25/21	surveillance	99.7	2310
VSP8251	B.1.1.7	6/3/21	surveillance	99.7	2741
VSP8252	P.1	6/4/21	surveillance	99.7	2651
VSP8253	B.1.1.7	6/6/21	surveillance	99.7	2953
VSP8254	B.1.1.7	6/5/21	surveillance	99.7	2553
VSP8255	B.1.1.7	6/9/21	surveillance	99.7	1944
VSP8256	B.1.1.7	6/10/21	surveillance	99.7	2806
VSP8257	B.1.526	6/11/21	surveillance	99.7	2918
VSP8258	B.1.1.7	6/15/21	surveillance	99.2	2083
VSP8259	AY.3	6/23/21	surveillance	99.6	3089
VSP8260	B.1.1.7	6/22/21	surveillance	99.7	2928
VSP8261	AY.25	6/25/21	surveillance	98.9	1335
VSP8262	B.1.1.7	6/26/21	surveillance	99.7	3020
VSP8263	B.1.621	6/28/21	surveillance	98.9	2613
VSP8264	B.1.617.2	6/28/21	surveillance	99.5	2499
VSP8265	AY.5	6/29/21	surveillance	96.9	931
VSP8266	B.1.621	7/2/21	surveillance	99.7	2613
VSP8267	B.1.1.7	7/6/21	surveillance	99.7	2736
VSP8268	AY.6	7/7/21	surveillance	99.1	2516
VSP8269	B.1.617.2	7/9/21	surveillance	99.4	1932
VSP8270	B.1.617.2	7/9/21	surveillance	99	2393
VSP8271	B.1.617.2	7/11/21	surveillance	98.6	1407
VSP8272	AY.12	7/10/21	surveillance	99.3	1943
VSP8273	B.1.617.2	7/12/21	surveillance	99.3	1190
VSP8274	AY.3	7/12/21	surveillance	99.1	3062
VSP8275	AY.6	7/13/21	surveillance	99.1	2432
VSP8276	AY.3	7/13/21	surveillance	98.7	3282
VSP8277	AY.25	7/14/21	surveillance	99.3	2750
VSP8278	B.1.1.7	7/14/21	surveillance	99.7	3217
VSP8279	B.1.617.2	7/16/21	surveillance	98.9	3235
VSP8280	B.1.1.7	7/15/21	surveillance	99.7	3716
VSP8281	B.1.617.2	7/16/21	surveillance	99	2268
VSP8282	B.1.617.2	7/19/21	accine breakthroug	98.7	2618
VSP8284	B.1.526	7/20/21	accine breakthroug	99.7	3393
VSP8285	AY.12	7/20/21	accine breakthroug	97.7	1824
VSP8286	AY.3	7/19/21	surveillance	98.5	2815

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VSP8287	AY.3	7/19/21	accine breakthroug	96.4	1898
VSP8288	AY.25	7/20/21	surveillance	99.1	2754
VSP8289	AY.24	7/19/21	surveillance	99.7	3631
VSP8290	AY.25	7/19/21	surveillance	99.4	2130
VSP8291	B.1.617.2	7/19/21	surveillance	99.5	2532
VSP8292	B.1.617.2	7/20/21	accine breakthroug	99.6	2295
VSP8294	B.1.617.2	7/21/21	accine breakthroug	98.7	1561
VSP8295	AY.14	7/21/21	accine breakthroug	98.4	2319
VSP8296	B.1.617.2	7/21/21	accine breakthroug	98.9	2799
VSP8297	B.1.617.2	7/21/21	surveillance	99.3	2515
VSP8298	AY.14	7/22/21	surveillance	99.5	2559
VSP8299	B.1.617.2	7/22/21	surveillance	99.7	3239
VSP8301	AY.25	7/23/21	surveillance	99.4	2618
VSP8302	AY.25	7/23/21	surveillance	98.7	2246
VSP8303	B.1.617.2	7/23/21	surveillance	99.1	3292
VSP8304	B.1.617.2	7/23/21	surveillance	99.4	3000
VSP8305	B.1.617.2	7/24/21	surveillance	99.4	3783
VSP8375	AY.12	7/23/21	surveillance	99.3	1819
VSP8376	AY.25	7/24/21	surveillance	98.8	1224
VSP8377	B.1.617.2	7/25/21	surveillance	99.7	1845
VSP8378	B.1.621	7/24/21	surveillance	99.8	2044
VSP8379	B.1.617.2	7/25/21	accine breakthroug	99.7	2967
VSP8380	B.1.617.2	7/26/21	accine breakthroug	99.7	990
VSP8381	B.1.617.2	7/26/21	accine breakthroug	99.7	1757
VSP8382	B.1.617.2	7/26/21	surveillance	99.7	1445
VSP8383	AY.25	7/26/21	surveillance	96.6	1015
VSP8384	B.1.617.2	7/27/21	surveillance	99.7	2493
VSP8385	B.1.617.2	7/26/21	surveillance	99.7	2458
VSP8388	B.1.617.2	7/27/21	surveillance	99.7	2249
VSP8389	AY.13	7/27/21	surveillance	96.2	993
VSP8390	AY.25	7/27/21	surveillance	99.7	3273
VSP8391	AY.15	7/27/21	accine breakthroug	99.7	2896
VSP8392	AY.25	7/27/21	surveillance	99.7	2818
VSP8393	AY.25	7/28/21	accine breakthroug	99.7	2168
VSP8394	AY.13	7/28/21	surveillance	99.7	1215
VSP8395	AY.14	7/28/21	surveillance	99.7	2199
VSP8396	B.1.617.2	7/28/21	surveillance	99.7	1494
VSP8397	B.1.617.2	7/27/21	surveillance	99.6	2225
VSP8398	AY.3	7/29/21	surveillance	99.6	2206
VSP8399	AY.25	7/29/21	accine breakthroug	99.7	2262
VSP8400	B.1.617.2	7/28/21	surveillance	99.7	1432
VSP8401	B.1.617.2	7/28/21	surveillance	99.7	2438
VSP8402	B.1.617.2	7/28/21	accine breakthroug	99.7	1804
VSP8403	B.1.617.2	7/28/21	accine breakthroug	99.7	1659
VSP8404	B.1.617.2	7/29/21	accine breakthroug	99.7	2332
VSP8405	AY.25	7/29/21	surveillance	99.7	1202
VSP8406	B.1.617.2	7/29/21	surveillance	99.7	2127

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VSP8407	AY.25	7/29/21	surveillance	99.7	2337
VSP8408	AY.20	7/29/21	surveillance	98.2	1276
VSP8409	B.1.617.2	7/29/21	surveillance	99.7	2303
VSP8410	B.1.617.2	7/29/21	surveillance	99.7	1761
VSP8411	B.1.617.2	7/30/21	surveillance	99.7	2100
VSP8412	AY.25	7/29/21	surveillance	96.9	1267
VSP8413	B.1.1.7	7/29/21	surveillance	96.3	868
VSP8414	B.1.617.2	7/29/21	surveillance	99.7	2412
VSP8415	B.1.617.2	7/30/21	accine breakthroug	99.7	2451
VSP8416	AY.3	7/30/21	surveillance	99.3	2089
VSP8417	AY.10	7/30/21	surveillance	98.5	1286
VSP8418	AY.3	7/30/21	surveillance	98.9	1749
VSP8420	B.1.617.2	7/31/21	surveillance	99.7	2341
VSP8421	B.1.617.2	7/31/21	surveillance	99.7	2182
VSP8422	B.1.617.2	8/1/21	accine breakthroug	99.7	1911
VSP8423	B.1.617.2	8/1/21	surveillance	99.1	1776
VSP8424	AY.3	7/30/21	surveillance	99.1	1864
VSP8425	AY.3	7/31/21	surveillance	99.2	2131
VSP8426	B.1.617.2	8/2/21	surveillance	99.7	1961
VSP8427	B.1.617.2	8/2/21	accine breakthroug	99.7	2567
VSP8428	B.1.617.2	8/2/21	surveillance	99.7	2871
VSP8429	B.1.617.2	8/2/21	surveillance	99.7	2861
VSP8430	B.1.617.2	8/2/21	accine breakthroug	99.7	1968
VSP8431	B.1.617.2	8/2/21	surveillance	99.7	1685
VSP8433	AY.25	8/2/21	surveillance	99.7	2123
VSP8434	B.1.617.2	8/2/21	surveillance	99.7	2030
VSP8435	B.1.617.2	7/21/21	surveillance	99.7	2698
VSP8436	B.1.617.2	8/2/21	accine breakthroug	99.7	1299
VSP8439	B.1.617.2	8/3/21	surveillance	99.7	2359
VSP8441	B.1.617.2	8/4/21	accine breakthroug	99.6	1378
VSP8442	B.1.617.2	8/4/21	accine breakthroug	98.2	1736
VSP8444	AY.25	8/5/21	accine breakthroug	99.7	1483
VSP8445	AY.3	8/5/21	accine breakthroug	99.1	1785
VSP8446	AY.25	8/7/21	accine breakthroug	99.1	1547
VSP8447	B.1.617.2	8/6/21	accine breakthroug	99.7	2377
VSP8448	AY.4	8/9/21	accine breakthroug	99.7	2087
VSP8451	AY.25	8/8/21	surveillance	96.7	1401
VSP8452	AY.3	8/8/21	surveillance	99.2	2359
VSP8455	AY.20	8/8/21	surveillance	99.7	1486
VSP8456	B.1.617.2	8/8/21	surveillance	98.9	1032
VSP8457	B.1.617.2	8/7/21	surveillance	99.7	2425
VSP8458	B.1.617.2	8/7/21	surveillance	99.7	1873
VSP8460	B.1.617.2	8/9/21	accine breakthroug	99.7	961
VSP8461	B.1.617.2	8/7/21	surveillance	99.7	2392
VSP8462	B.1.617.2	8/7/21	surveillance	99.7	2545
VSP8463	AY.25	8/6/21	surveillance	99	1498
VSP8464	AY.2	8/6/21	surveillance	99.7	3084

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VSP8465	AY.12	8/7/21	surveillance	97.9	1325
VSP8466	B.1.617.2	8/10/21	accine breakthroug	99.7	2462
VSP8467	AY.3	8/9/21	accine breakthroug	99.1	3176
VSP8468	B.1.617.2	8/10/21	accine breakthroug	99.7	1756
VSP8469	B.1.617.2	8/10/21	accine breakthroug	99.7	1991
VSP8471	B.1.617.2	8/10/21	surveillance	99.7	2839
VSP8472	B.1.617.2	8/10/21	surveillance	99.7	2434
VSP8473	AY.25	8/10/21	surveillance	99.7	2794
VSP8474	B.1.617.2	8/10/21	surveillance	99.7	2627
VSP8475	B.1.617.2	8/9/21	surveillance	99.7	2690
VSP8476	B.1.617.2	8/11/21	accine breakthroug	99.7	2504
VSP8477	AY.3	8/11/21	accine breakthroug	99.6	2880
VSP8478	B.1.617.2	8/11/21	surveillance	99.7	2882
VSP8479	AY.20	8/10/21	surveillance	99.7	2787
VSP8480	AY.14	8/11/21	surveillance	99.8	3235
VSP8481	AY.3	8/11/21	surveillance	99.1	2230
VSP8482	B.1.617.2	8/11/21	surveillance	99.7	3115
VSP8483	B.1.617.2	8/12/21	accine breakthroug	99.7	2461
VSP8484	B.1.617.2	8/11/21	accine breakthroug	99.7	2427
VSP8485	B.1.617.2	8/13/21	accine breakthroug	96.8	1143
VSP8488	B.1.617.2	8/11/21	accine breakthroug	99.7	1641
VSP8489	B.1.617.2	8/13/21	accine breakthroug	99.7	3091
VSP8491	B.1.617.2	8/13/21	accine breakthroug	99.7	2429
VSP8492	B.1.617.2	8/13/21	accine breakthroug	99.7	3048
VSP8493	P.1	7/25/21	accine breakthroug	99.7	2349
VSP8494	B.1.617.2	8/15/21	surveillance	99.7	2347
VSP8495	AY.12	8/15/21	surveillance	99.7	2169
VSP8496	AY.25	8/15/21	surveillance	97.1	1214
VSP8497	AY.3	8/15/21	accine breakthroug	99.6	2716
VSP8498	B.1.1.7	8/14/21	surveillance	99.1	2607
VSP8499	B.1.617.2	8/14/21	surveillance	99.7	2912
VSP8500	AY.25	8/14/21	surveillance	99.7	3019
VSP8501	B.1.617.2	8/14/21	surveillance	99	1420
VSP8502	AY.25	8/14/21	surveillance	99.7	2490
VSP8503	AY.24	8/13/21	surveillance	99.6	2500
VSP8504	B.1.617.2	8/13/21	surveillance	99.7	2382
VSP8505	AY.25	8/13/21	surveillance	99.8	2844
VSP8506	AY.25	8/14/21	surveillance	99.5	2893
VSP8507	AY.3	8/14/21	surveillance	99.1	2882
VSP8508	B.1.617.2	8/14/21	surveillance	96.4	869

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