COVID-19 subject SRR11783625

2020-09-29

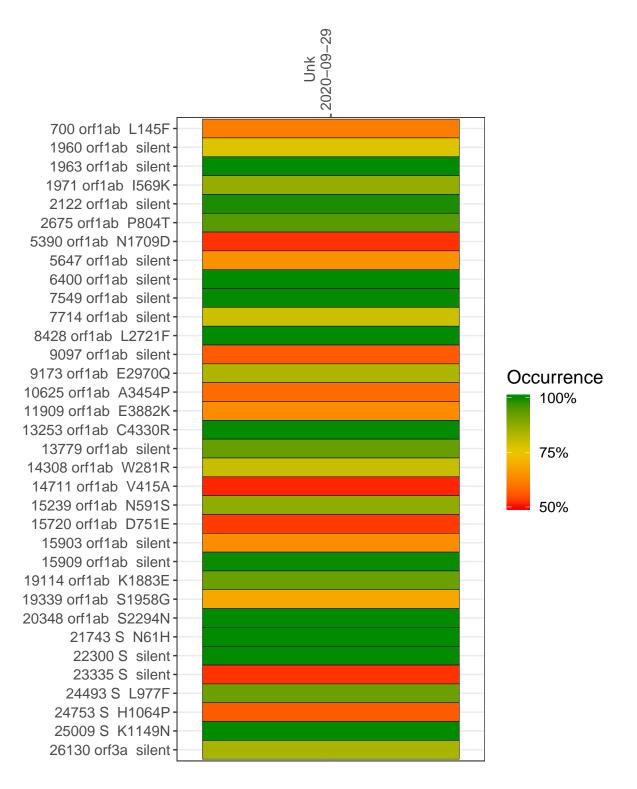
The table below provides a summary of subject samples for which sequencing data is available. The experiments column shows the number of sequencing experiments performed for each specimen. Experiment specific analyses are shown at the end of this report. The code base for this analysis can be found (here).

Table 1. Sample summary.

Experiment	Туре	Input genomes	Sample type	Sample date	Largest contig (KD)	Reference read coverage	Reference read coverage (>= 5 reads)
VSP8023-1	single experiment	NA	Unk	2020-09-29	2.52	96.0%	95.4%

Variants shared across samples

The heat map below shows how variants (reference genome USA-WA1-2020) are shared across subject samples where the percent variance is colored. Variants are called if a variant position is covered by 5 for more reads, the alternative base is found in > 50% of read pairs and the variant yields a PHRED score > 20. Gray tiles denote positions where the variant was not the major variant or no variants were found. The relative base compositions of each experiment used to calculate tiles are shown in the following plot where the total number of position reads are shown atop of each plot.



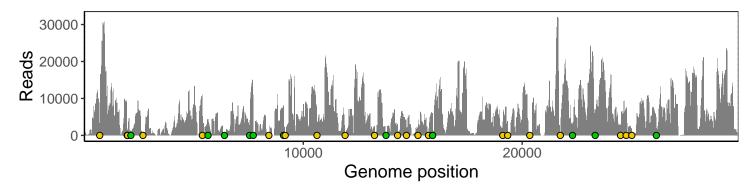
Unk 2020-09-29

	2020-03-29
700 orf1ab L145F	8876
1960 orf1ab silent	641
1963 orf1ab silent	146
1971 orf1ab I569K	38
2122 orf1ab silent	1328
2675 orf1ab P804T	17
5390 orf1ab N1709D	10958
5647 orf1ab silent	4439
6400 orf1ab silent	13
7549 orf1ab silent	2784
7714 orf1ab silent	4827
8428 orf1ab L2721F	5
9097 orf1ab silent	8012
9173 orf1ab E2970Q	268
10625 orf1ab A3454P	8420
11909 orf1ab E3882K	11
13253 orf1ab C4330R	2436
13779 orf1ab silent	79
14308 orf1ab W281R	3062
14711 orf1ab V415A	4243
15239 orf1ab N591S	1903
15720 orf1ab D751E	36
15903 orf1ab silent	5982
15909 orf1ab silent	2101
19114 orf1ab K1883E	1837
19339 orf1ab S1958G	2438
20348 orf1ab S2294N	6
21743 S N61H	8
22300 S silent	2919
23335 S silent	4724
24493 S L977F	2152
24753 S H1064P	7429
25009 S K1149N	222
26130 orf3a silent	3622
	3–7
	(*)

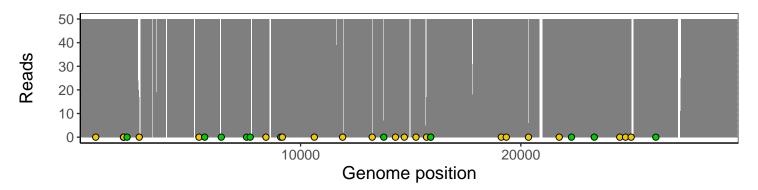
Analyses of individual experiments and composite results.

VSP8023-1 | 2020-09-29 | Unk | SRR11783625 | genomes | single experiment

The plot below shows the number of reads covering each nucleotide position in the reference genome. Variants are shown as colored dots along the bottom of the plot and are color coded according by variant types: gray - transgenic, green - silent, gold - missense, red - nonsense, black - indel.



Excerpt from plot above focusing on reads coverage from 0 to 50 NT.



The longest five assembled contigs are shown below colored by their edit distance to the reference genome.

