

# COVID-19 subject CRD4J

*2021-01-08*

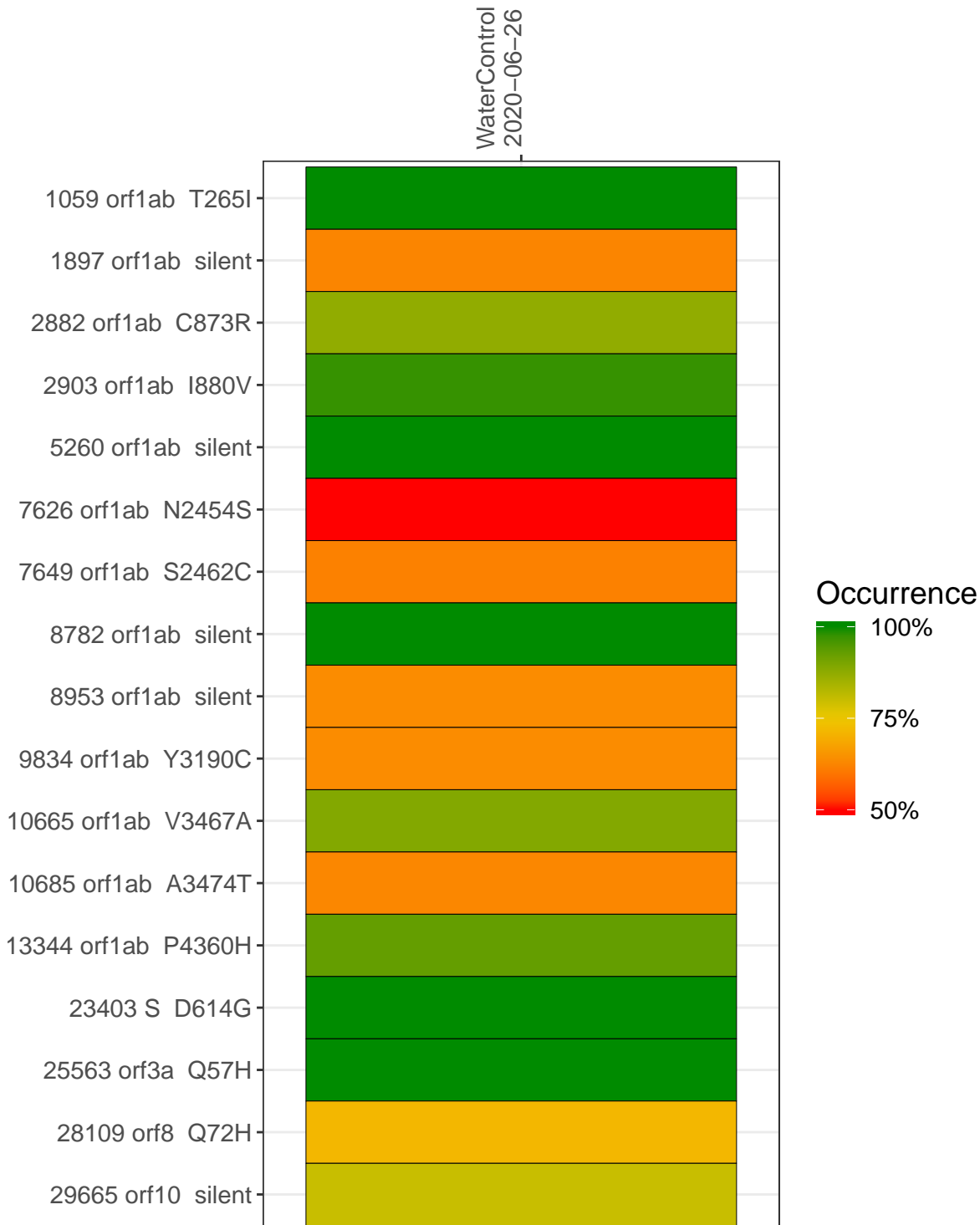
The table below provides a summary of subject samples for which sequencing data is available. The experiments column shows the number of sequencing experiments performed for each specimen. Experiment specific analyses are shown at the end of this report. The code base for this analysis can be found ([here](#)).

Table 1. Sample summary.

Experiment	Type	Input genomes	Sample type	Sample date	Largest contig (KD)	Reference read coverage	Reference read coverage (>= 5 reads)
VSP9993-1	single experiment	NA	WaterControl	2020-06-26	1.85	100.0%	59.4%

## 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.



WaterControl  
2020-06-26

1059 orf1ab T265I

12

1897 orf1ab silent

16

2882 orf1ab C873R

149

2903 orf1ab I880V

349

5260 orf1ab silent

105

7626 orf1ab N2454S

10

7649 orf1ab S2462C

21

8782 orf1ab silent

6

8953 orf1ab silent

11

9834 orf1ab Y3190C

22

10665 orf1ab V3467A

73

10685 orf1ab A3474T

35

13344 orf1ab P4360H

277

23403 S D614G

16

25563 orf3a Q57H

8

28109 orf8 Q72H

7

29665 orf10 silent

5

Base change

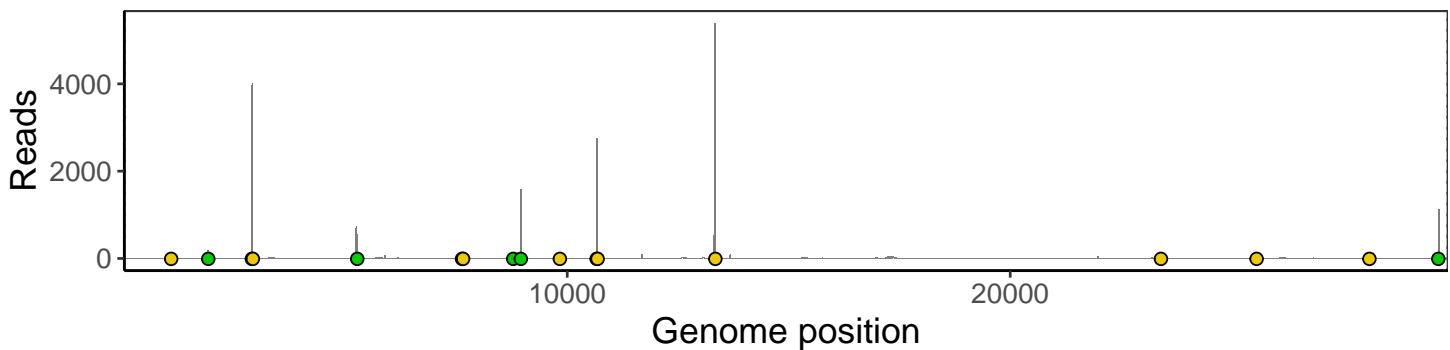


VSP9993-1

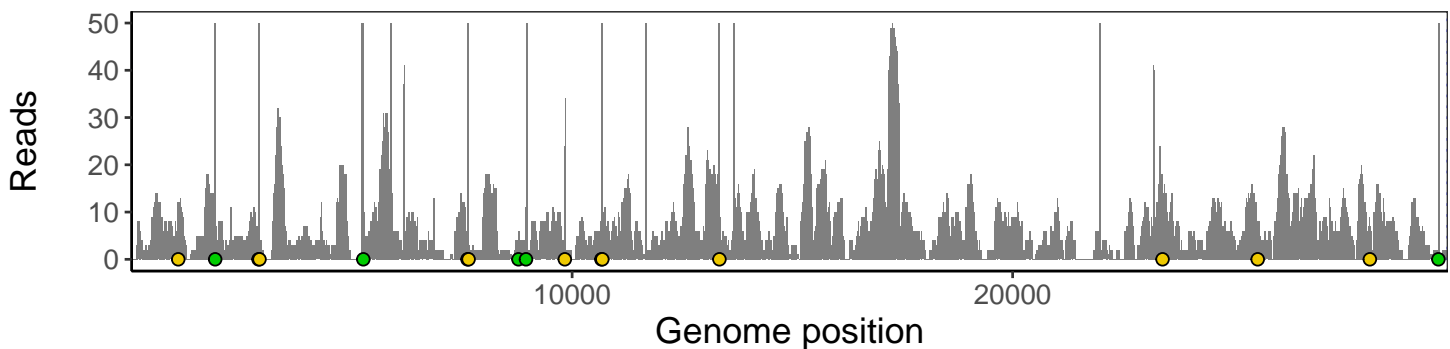
## Analyses of individual experiments and composite results.

VSP9993-1 | 2020-06-26 | WaterControl | CRD4J | 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 to 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.

