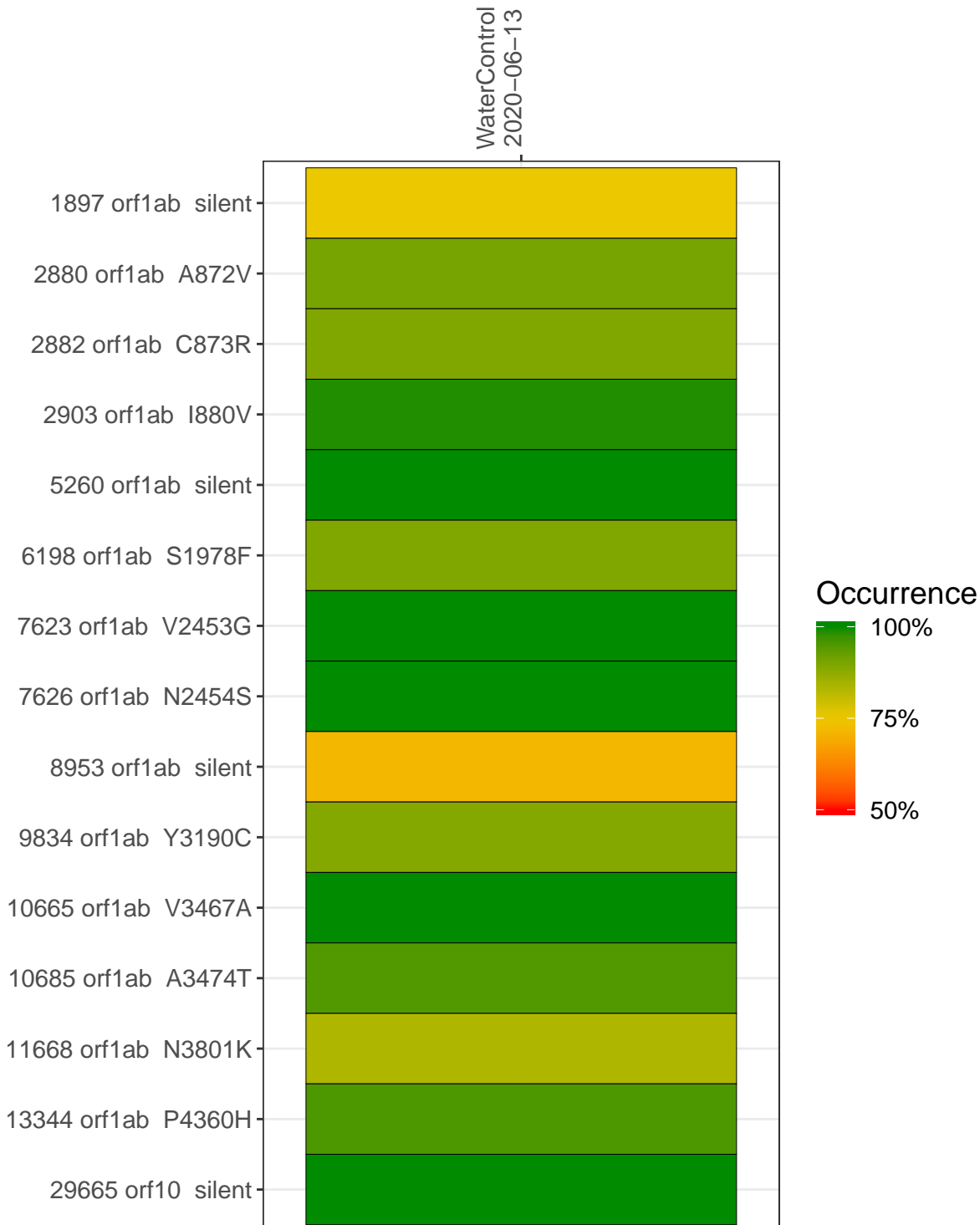# COVID-19 subject J37GK

2020-11-30

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).
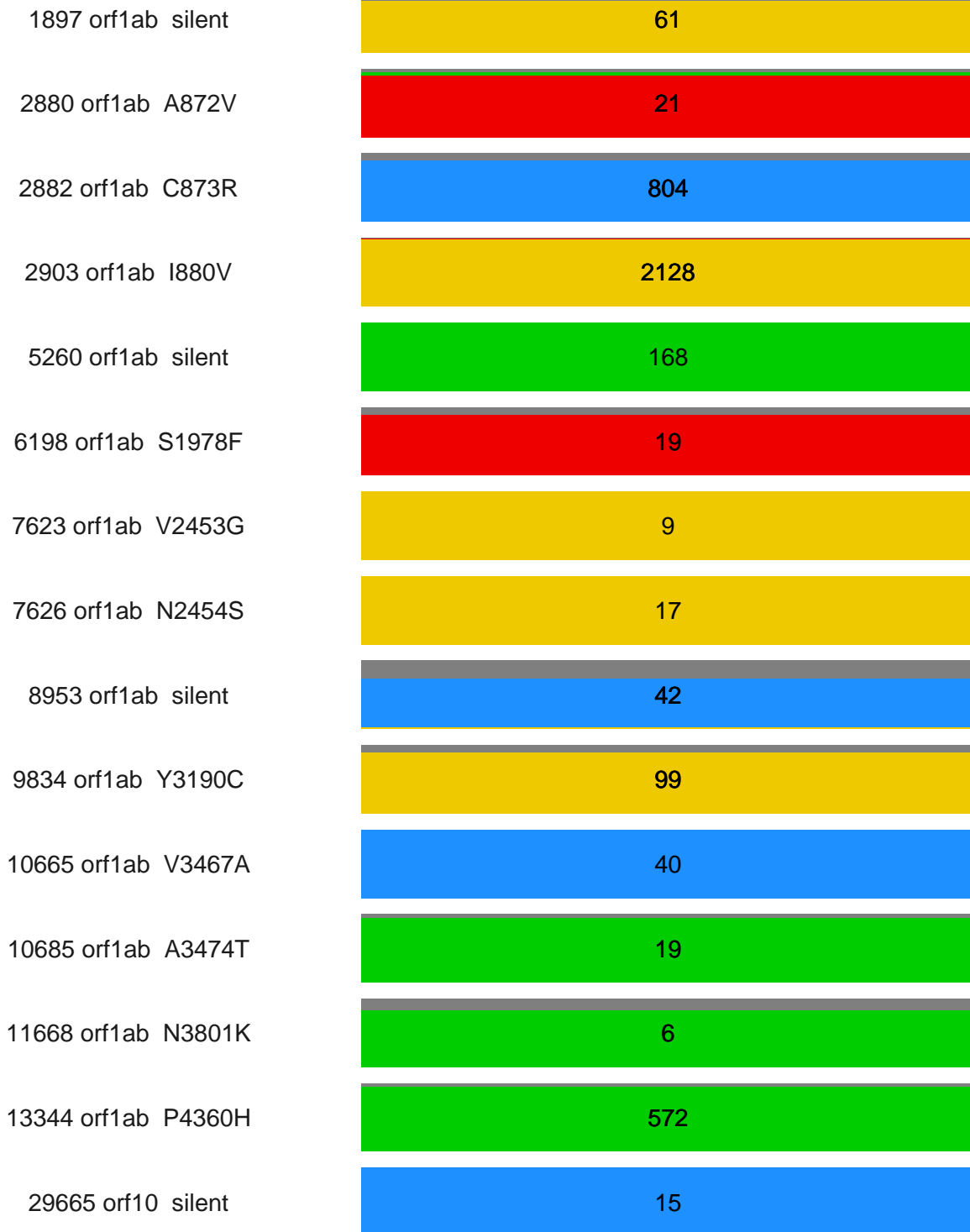
Table 1. Sample summary.

Experiment	Type	Input genomes	Sample type	Sample date	Largest contig (KD)	Reference read coverage	Reference read coverage (>= 5 reads)
VSP9991-1	single experiment	NA	WaterControl	2020-06-13	NA	4.9%	2.4%

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
2020−06−13

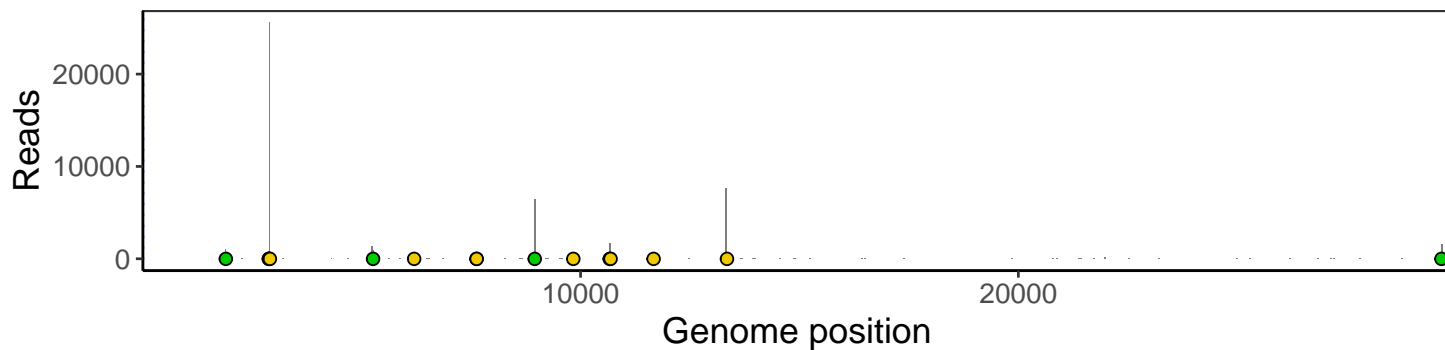| Position		
1897 orf1ab silent	61
2880 orf1ab A872V	21
2882 orf1ab C873R	804
2903 orf1ab I880V	2128
5260 orf1ab silent	168
6198 orf1ab S1978F	19
7623 orf1ab V2453G	9
7626 orf1ab N2454S	17
8953 orf1ab silent	42
9834 orf1ab Y3190C	99
10665 orf1ab V3467A	40
10685 orf1ab A3474T	19
11668 orf1ab N3801K	6
13344 orf1ab P4360H	572
29665 orf10 silent	15

VSP9991−1

Base change
- Expected
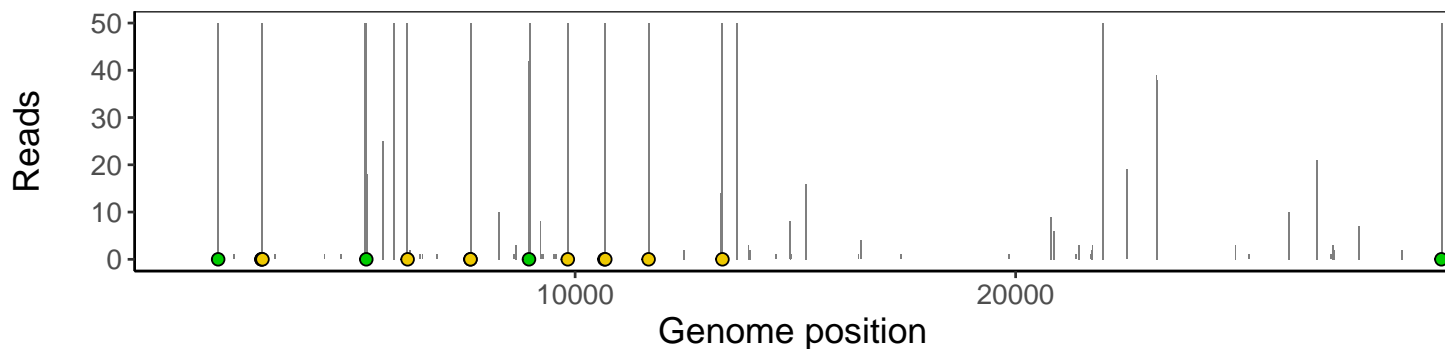- A
- T
- C
- G
- N
- Ins/Del
- No data

3

Analyses of individual experiments and composite results.

VSP9991-1 | 2020-06-13 | WaterControl | J37GK | 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.

No contig data available.