COVID-19 subject 219

2020-08-13

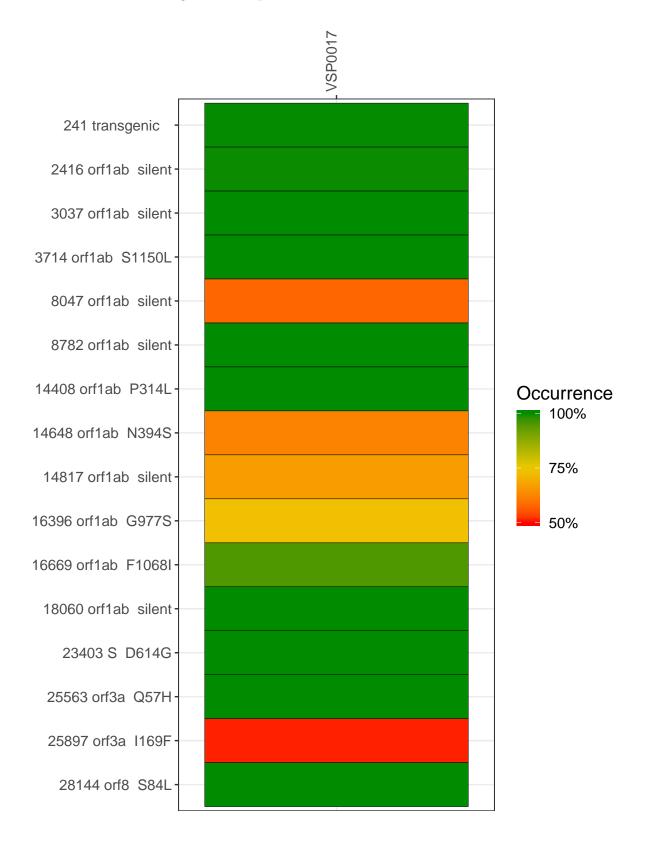
The table below provides a summary of subject samples for which sequencing data is available. The experiments column shows the number of sequencing experiments performed for each specimen. Experiment specific analyses are shown at the end of this report.

Table 1. Sample summary.

Experiment	Туре	Input genomes	Sample type	Sample date	Largest contig (KD)	Reference read coverage	Reference read coverage $(>= 5 \text{ reads})$
VSP0017	composite	NA	ETA	4/17/2020	7.66	93.1%	92.0%
VSP0017-1a	single experiment	1870	ETA	4/17/2020	0.47	19.4%	11.1%
VSP0017-1b	single experiment	1870	ETA	4/17/2020	0.40	22.9%	20.4%
VSP0017-2a	single experiment	1870	ETA	4/17/2020	1.23	45.9%	42.8%
VSP0017-2b	single experiment	1870	ETA	4/17/2020	NA	NA	NA
VSP0017-3	single experiment	9350	ETA	4/17/2020	1.53	48.6%	40.2%
VSP0017-4	single experiment	1870	ETA	4/17/2020	1.05	49.1%	46.4%
VSP0017-5	single experiment	1870	ETA	4/17/2020	1.69	43.2%	38.4%
VSP0017-6	single experiment	1870	ETA	4/17/2020	3.40	64.1%	61.6%

Variants shared across samples

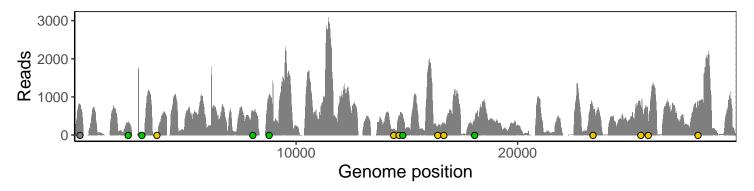
The heat map below shows how variants are shared across subject samples. The quality scores are PHRED scaled values $[Q = -10\log 10 (error\ rate)]$ where a score of 30 represents a probabilty of 99.9% that a variant is called correctly and a score of 50 represents a probabilty of 99.99% Gray tiles denote that 10 or more reads covered the variant position and the reference base was observed. Tiles are ommitted if there are less than 10 reads covering a variant position.



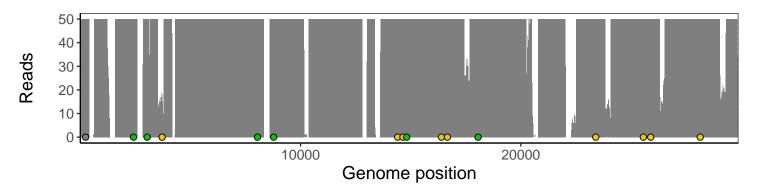
Analyses of individual experiments and composite results.

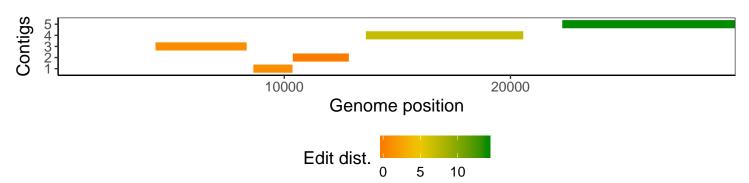
$VSP0017 \mid 4/17/2020 \mid ETA \mid 219$ -tri | composite result

The plot below shows the number of reads covering each nucleotide position in the reference genome (USA-WA1-2020). 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.



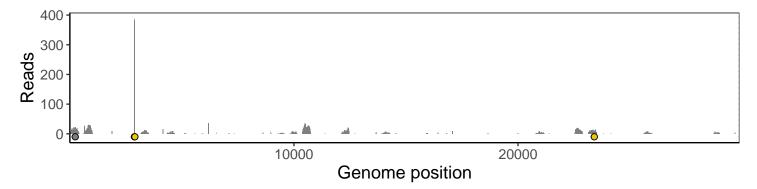
Excerpt from plot above focusing on reads coverage from 0 to 50 NT.



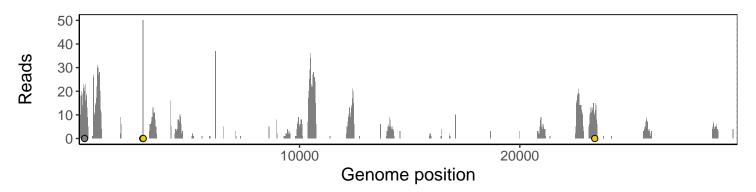


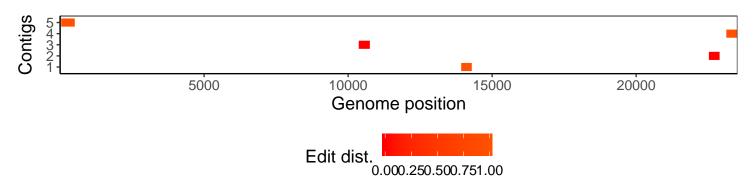
VSP0017-1a | 4/17/2020 | ETA | 219-tri | 1870 genomes | single experiment

The plot below shows the number of reads covering each nucleotide position in the reference genome (USA-WA1-2020). 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.



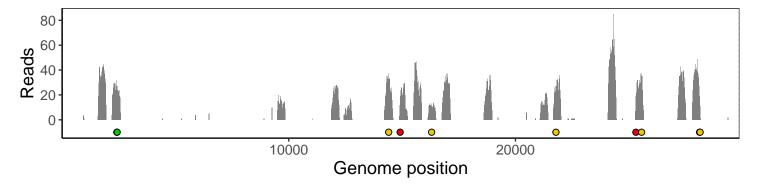
Excerpt from plot above focusing on reads coverage from 0 to 50 NT.



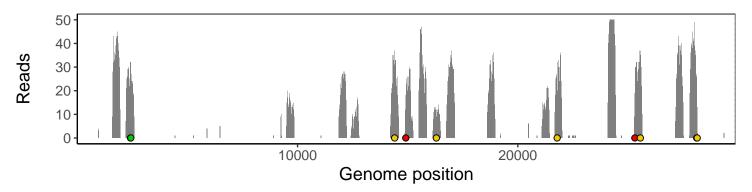


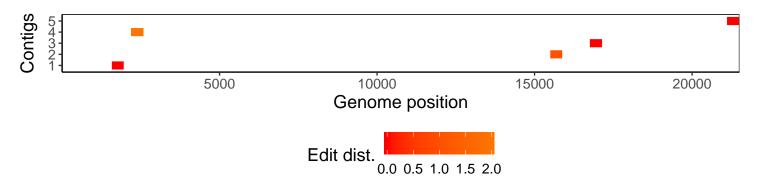
VSP0017-1b | 4/17/2020 | ETA | 219-tri | 1870 genomes | single experiment

The plot below shows the number of reads covering each nucleotide position in the reference genome (USA-WA1-2020). 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.



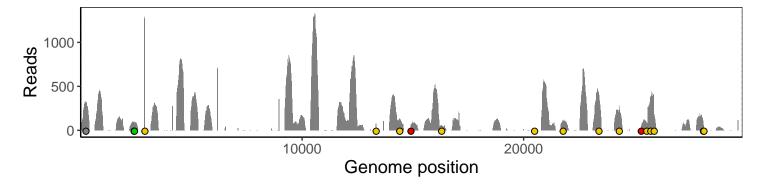
Excerpt from plot above focusing on reads coverage from 0 to 50 NT.



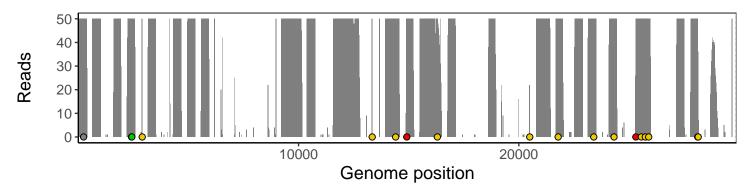


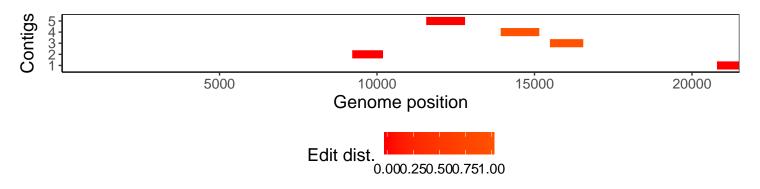
VSP0017-2a | 4/17/2020 | ETA | 219-tri | 1870 genomes | single experiment

The plot below shows the number of reads covering each nucleotide position in the reference genome (USA-WA1-2020). 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.





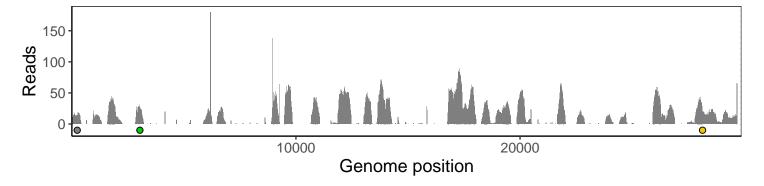
VSP0017-2b | 4/17/2020 | ETA | 219-tri | 1870 genomes | single experiment

No pileup data available.

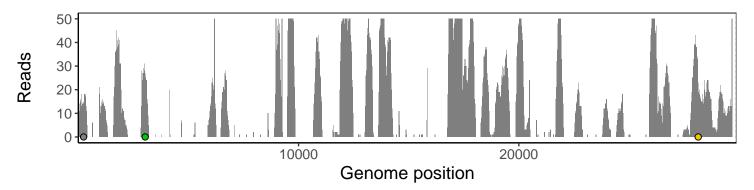
No contig data available.

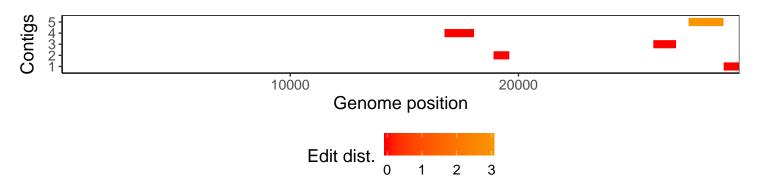
VSP0017-3 | 4/17/2020 | ETA | 219-tri | 9350 genomes | single experiment

The plot below shows the number of reads covering each nucleotide position in the reference genome (USA-WA1-2020). 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.



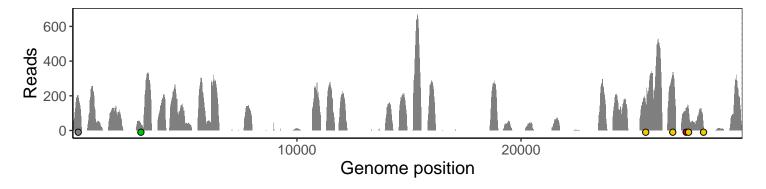
Excerpt from plot above focusing on reads coverage from 0 to 50 NT.



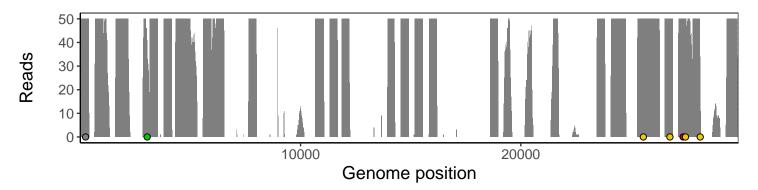


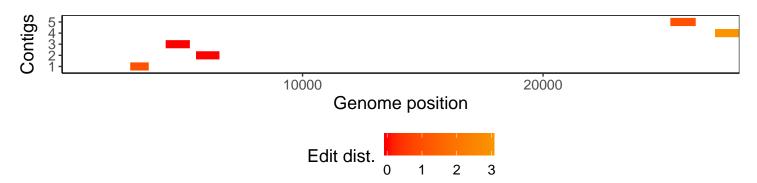
VSP0017-4 | 4/17/2020 | ETA | 219-tri | 1870 genomes | single experiment

The plot below shows the number of reads covering each nucleotide position in the reference genome (USA-WA1-2020). 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.



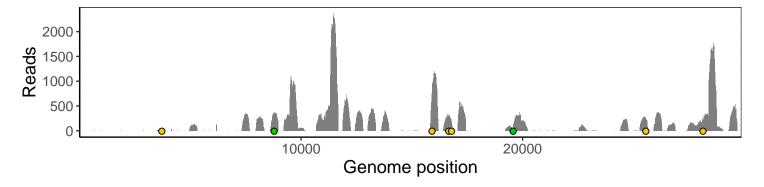
Excerpt from plot above focusing on reads coverage from 0 to 50 NT.



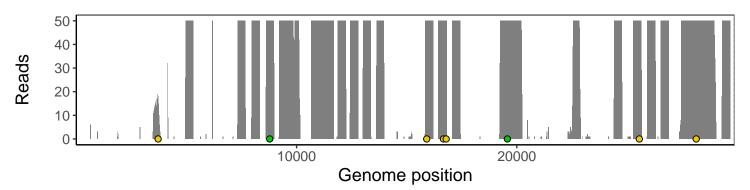


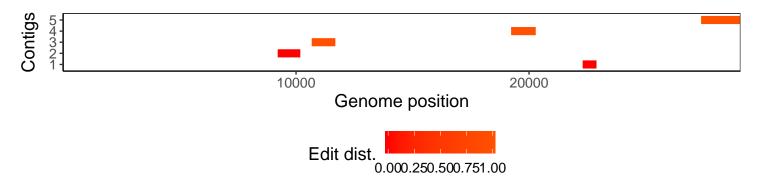
VSP0017-5 | 4/17/2020 | ETA | 219-tri | 1870 genomes | single experiment

The plot below shows the number of reads covering each nucleotide position in the reference genome (USA-WA1-2020). 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.



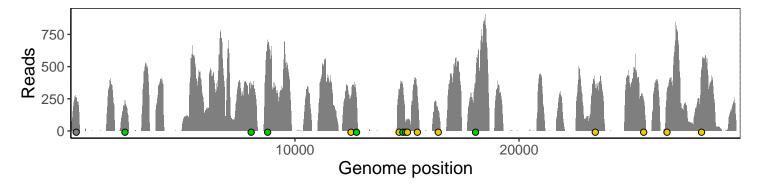
Excerpt from plot above focusing on reads coverage from 0 to 50 NT.





VSP0017-6 | 4/17/2020 | ETA | 219-tri | 1870 genomes | single experiment

The plot below shows the number of reads covering each nucleotide position in the reference genome (USA-WA1-2020). 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.

