COVID-19 subject 239

2020-08-13

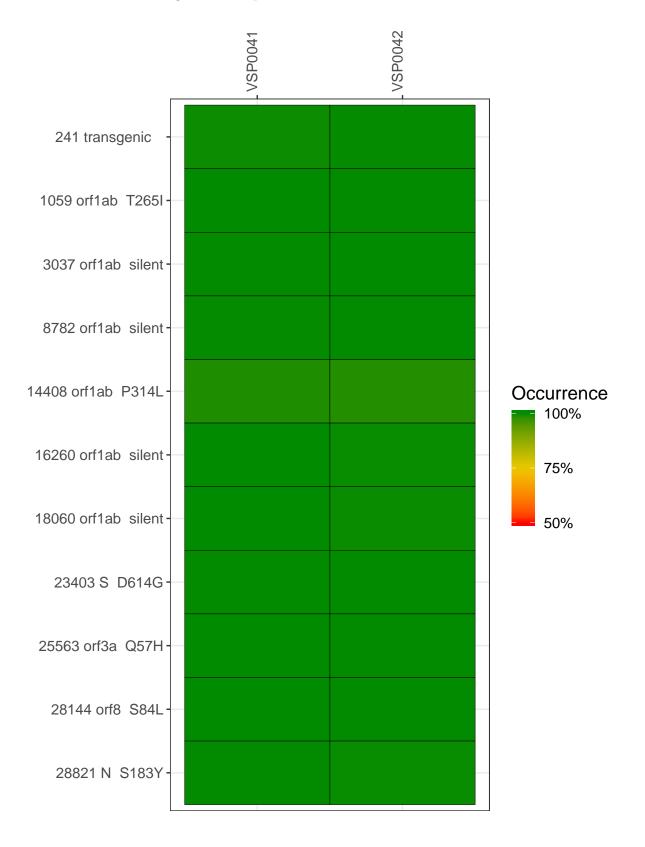
The table below provides a summary of subject samples for which sequencing data is available. The experiments column shows the number of sequencing experiments performed for each specimen. Experiment specific analyses are shown at the end of this report.

Table 1. Sample summary.

Experiment	Type	Input genomes	Sample type	Sample date	Largest contig (KD)	Reference read coverage	Reference read coverage (>= 5 reads)
VSP0041	composite	NA	NP	4/29/2020	30.06	99.9%	99.8%
VSP0042	composite	NA	OP	4/29/2020	27.48	99.8%	99.8%
VSP0041-1a	single experiment	12500	NP	4/29/2020	29.83	99.8%	99.8%
VSP0041-1b	single experiment	12500	NP	4/29/2020	NA	NA	NA
VSP0041-2	single experiment	NA	NP	4/29/2020	30.13	99.8%	99.5%
VSP0042-1a	single experiment	6490	OP	4/29/2020	1.12	70.2%	63.2%
VSP0042-1b	single experiment	6490	OP	4/29/2020	NA	NA	NA
VSP0042-2	single experiment	6490	OP	4/29/2020	1.09	81.0%	64.7%

Variants shared across samples

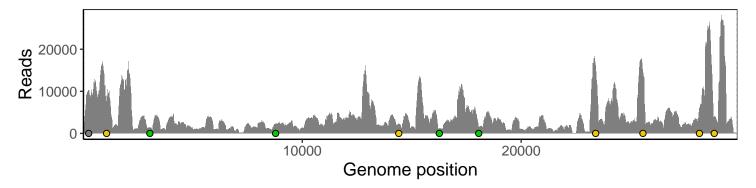
The heat map below shows how variants are shared across subject samples. The quality scores are PHRED scaled values $[Q = -10\log 10 (error\ rate)]$ where a score of 30 represents a probabilty of 99.9% that a variant is called correctly and a score of 50 represents a probabilty of 99.999% Gray tiles 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.



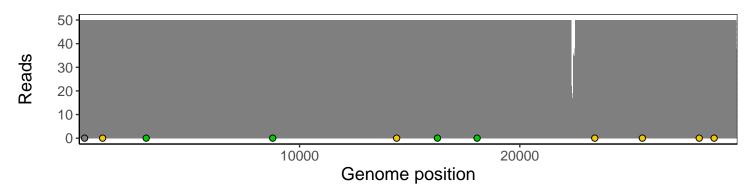
Analyses of individual experiments and composite results.

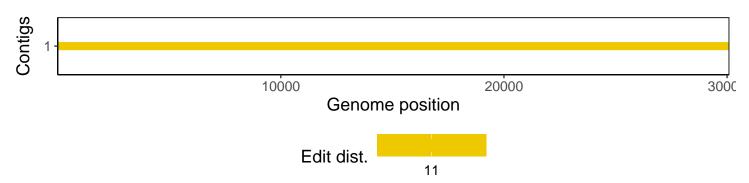
$VSP0041 \mid 4/29/2020 \mid NP \mid 239$ n-tri | composite result

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.



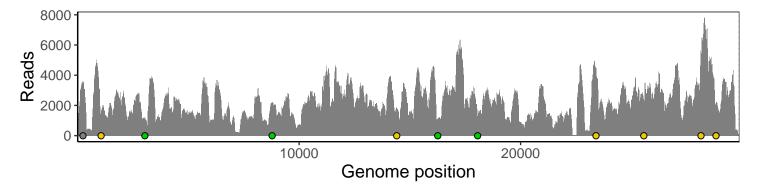
Excerpt from plot above focusing on reads coverage from 0 to 50 NT.



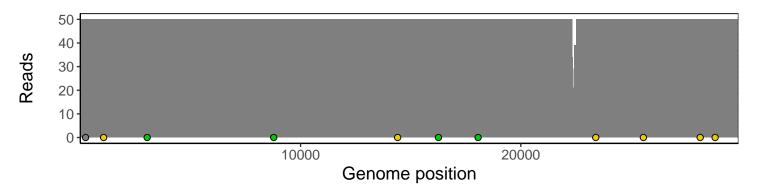


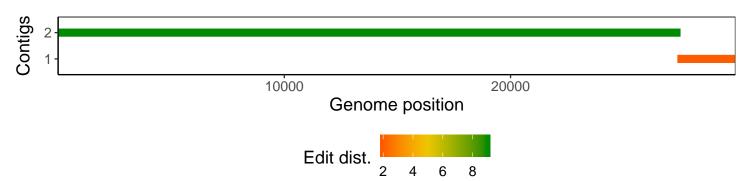
VSP0042 | 4/29/2020 | OP | 239o-tri | composite result

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.



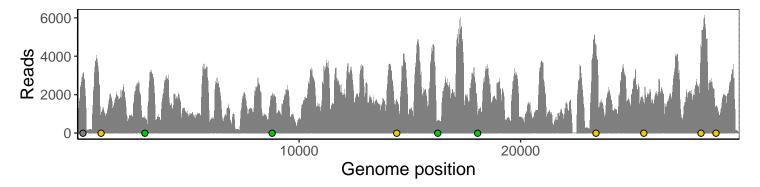
Excerpt from plot above focusing on reads coverage from 0 to 50 NT.



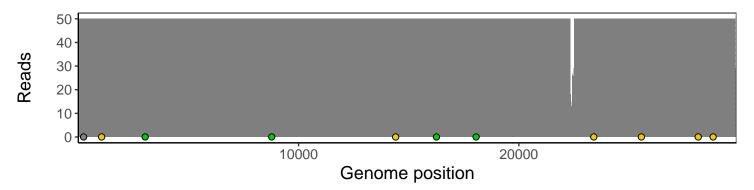


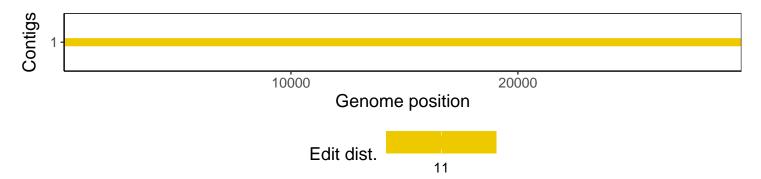
VSP0041-1a | 4/29/2020 | NP | 239n-tri | 12500 genomes | single experiment

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.



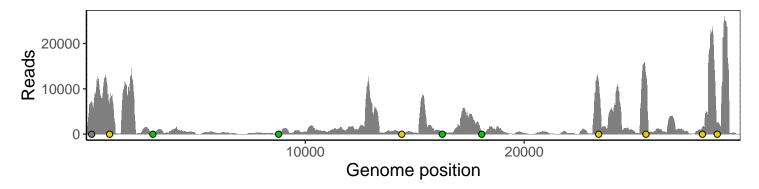


VSP0041-1b | 4/29/2020 | NP | 239
n-tri | 12500 genomes | single experiment No pileup data available.

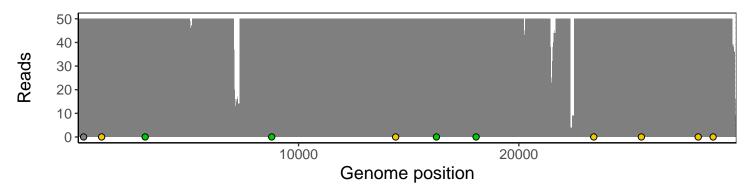
No contig data available.

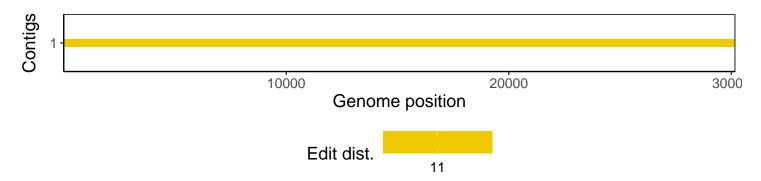
VSP0041-2 | 4/29/2020 | NP | 239
n-tri | genomes | single experiment

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.



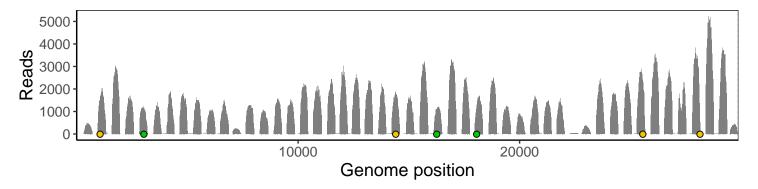
Excerpt from plot above focusing on reads coverage from 0 to 50 NT.



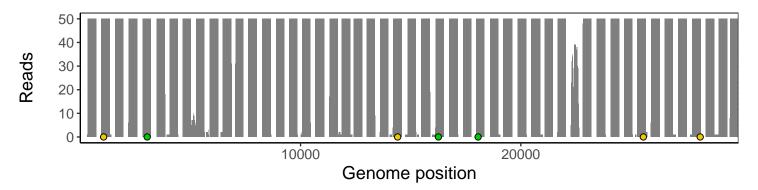


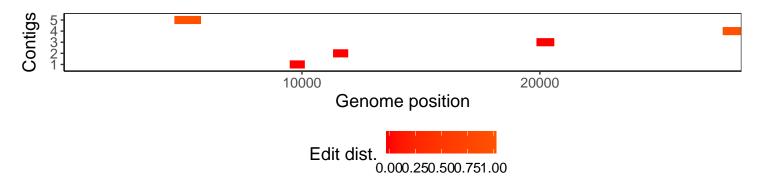
VSP0042-1a | 4/29/2020 | OP | 239
o-tri | 6490 genomes | single experiment

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.





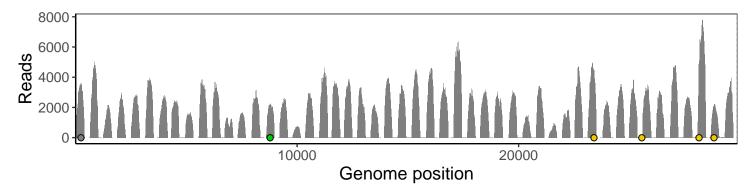
VSP0042-1b | 4/29/2020 | OP | 239
o-tri | 6490 genomes | single experiment

No pileup data available.

No contig data available.

$VSP0042-2 \mid 4/29/2020 \mid OP \mid 2390-tri \mid 6490 genomes \mid single experiment$

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.

