

# COVID-19 subject 2081815

*2021-01-15*

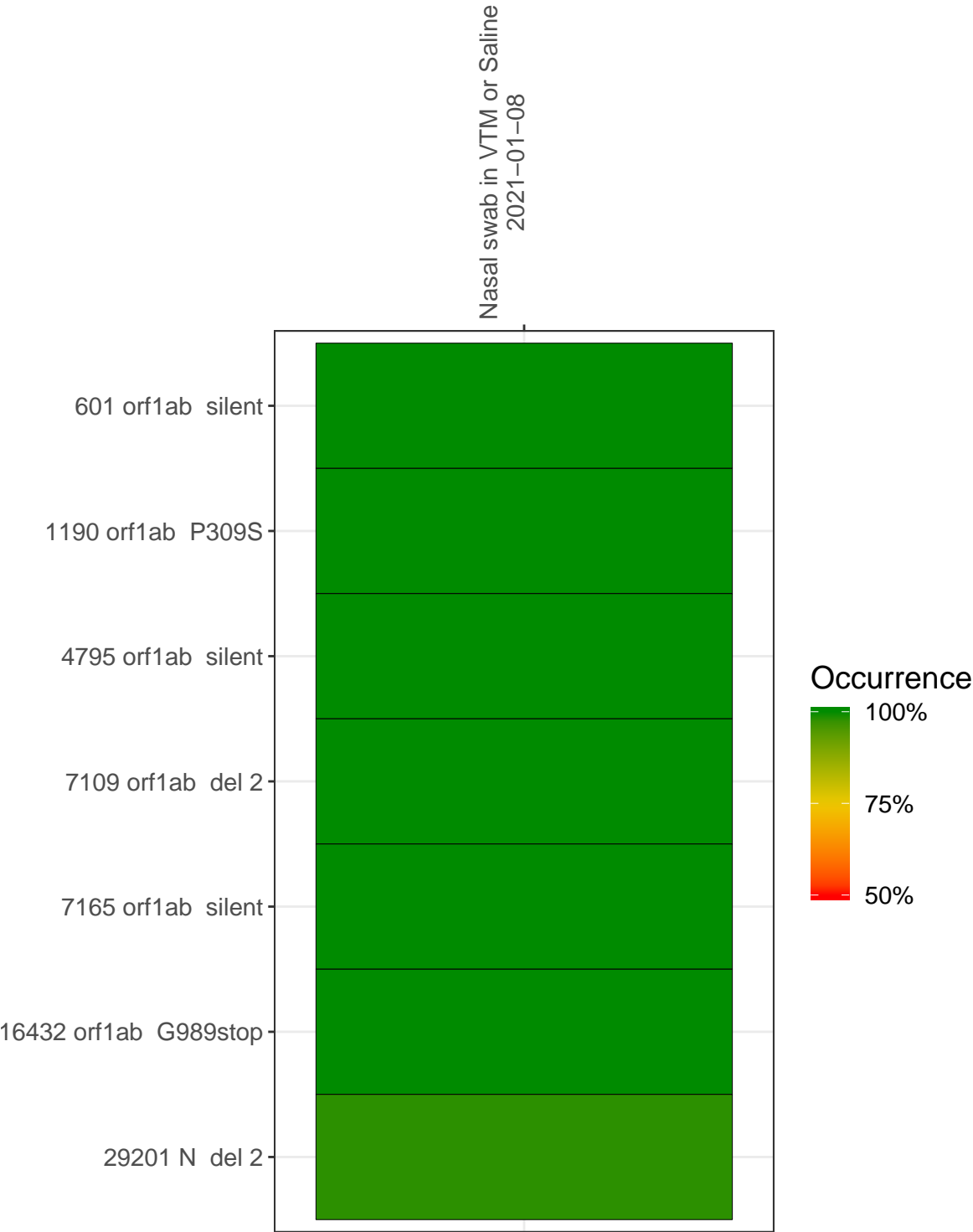
The table below provides a summary of subject samples for which sequencing data is available. The experiments column shows the number of sequencing experiments performed for each specimen. Experiment specific analyses are shown at the end of this report. The code base for this analysis can be found ([here](#)).

Table 1. Sample summary.

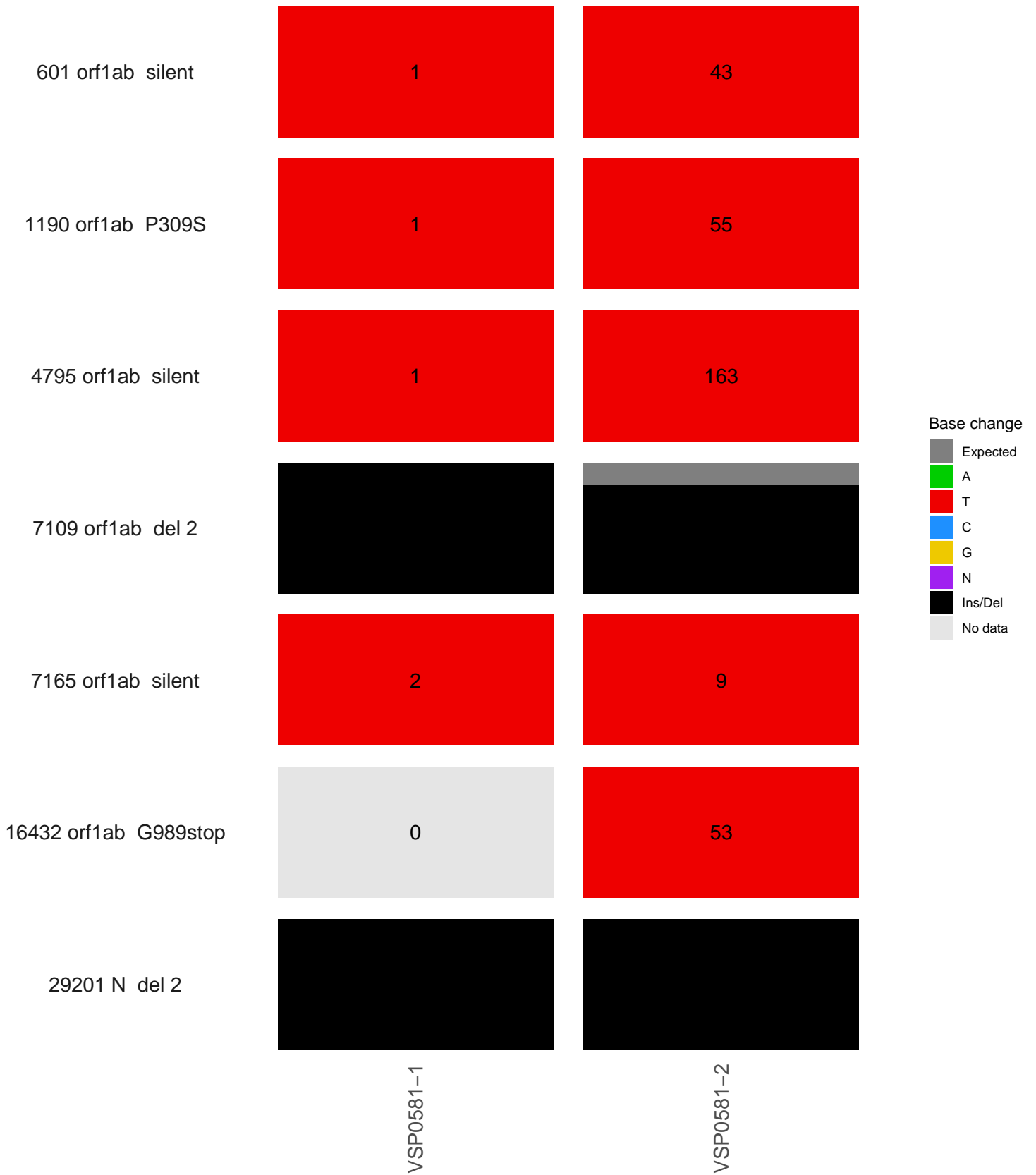
| Experiment | Type              | Input genomes | Sample type                 | Sample date | Largest contig (KD) | Reference read coverage | Reference read coverage (>= 5 reads) |
|------------|-------------------|---------------|-----------------------------|-------------|---------------------|-------------------------|--------------------------------------|
| VSP0581    | composite         | NA            | Nasal swab in VTM or Saline | 2021-01-08  | 0.68                | 19.2%                   | 18.3%                                |
| VSP0581-1  | single experiment | NA            | Nasal swab in VTM or Saline | 2021-01-08  | 0.37                | 13.2%                   | 3.1%                                 |
| VSP0581-2  | single experiment | NA            | Nasal swab in VTM or Saline | 2021-01-08  | 0.68                | 19.2%                   | 18.2%                                |

**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 or 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.



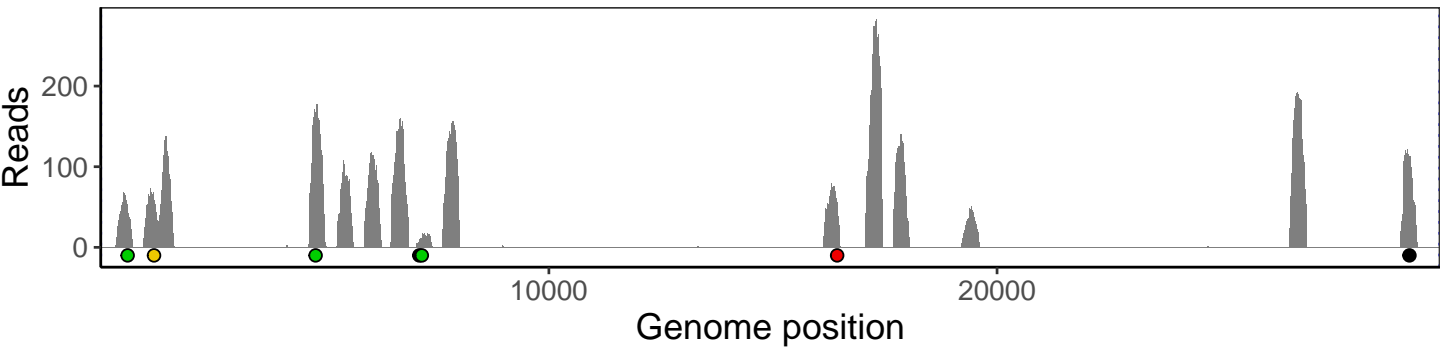
Nasal swab in VTM or Saline  
2021-01-08



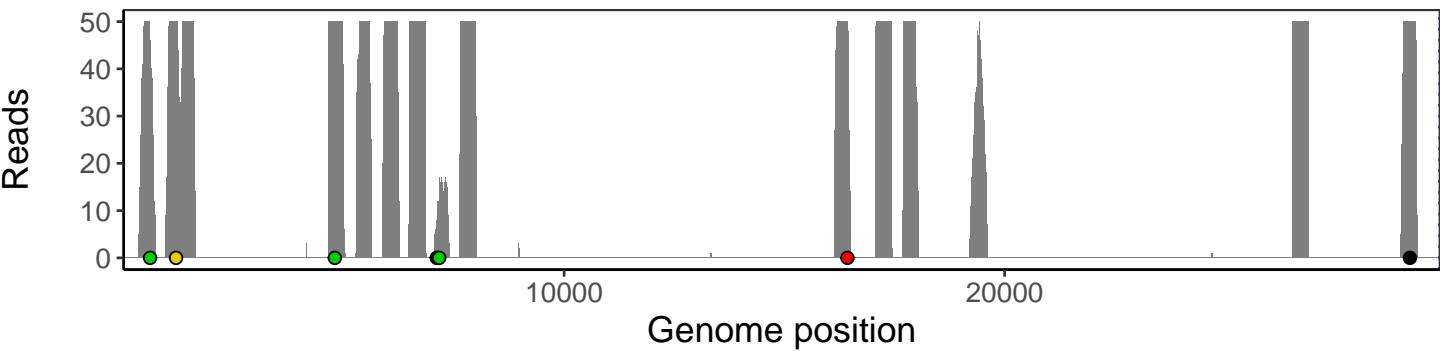
Analyses of individual experiments and composite results.

VSP0581 | 2021-01-08 | Nasal swab in VTM or Saline | E50605712-NR; 695215402 | composite result

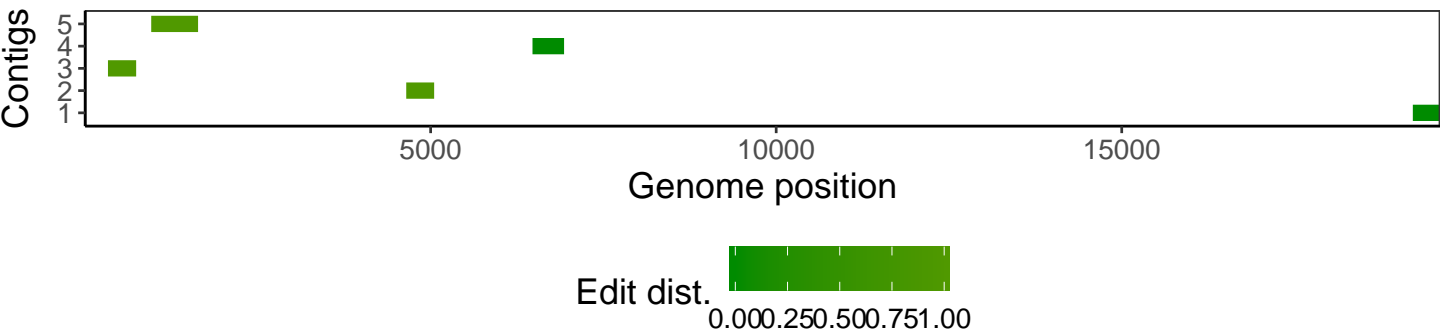
The plot below shows the number of reads covering each nucleotide position in the reference genome. Variants are shown as colored dots along the bottom of the plot and are color coded according by variant types: gray - transgenic, green - silent, gold - missense, red - nonsense, black - indel.



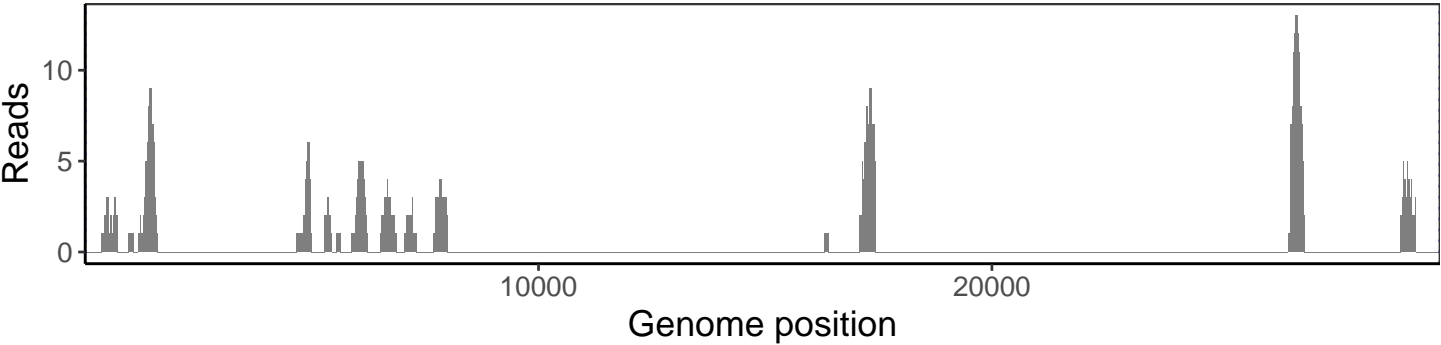
Excerpt from plot above focusing on reads coverage from 0 to 50 NT.



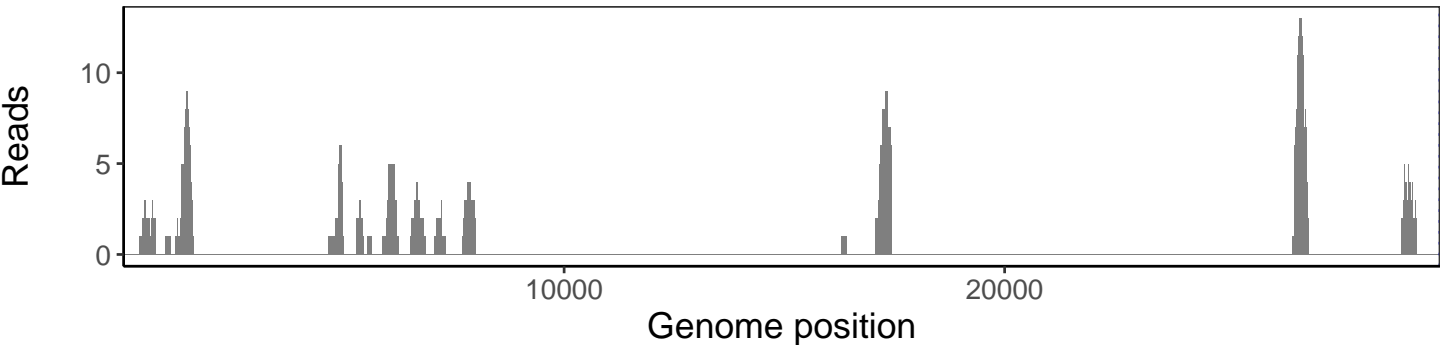
The longest five assembled contigs are shown below colored by their edit distance to the reference genome.



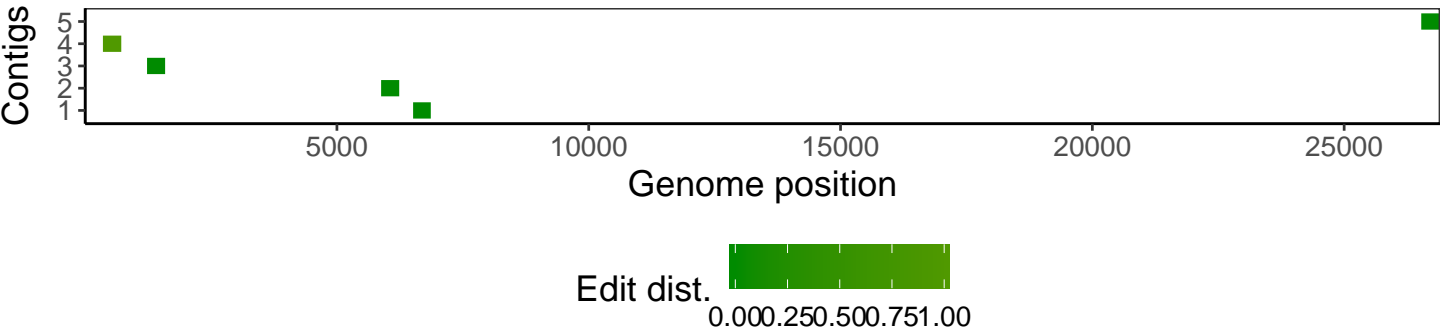
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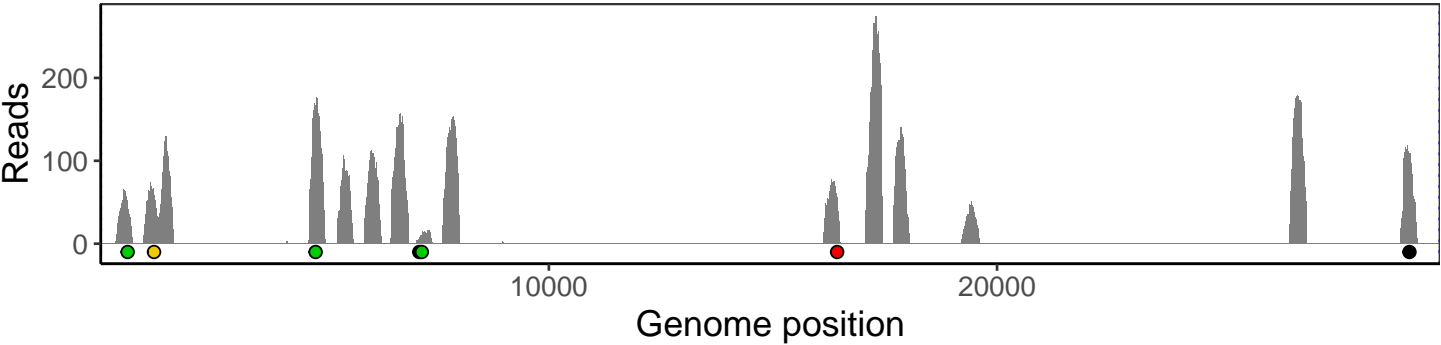
Excerpt from plot above focusing on reads coverage from 0 to 50 NT.



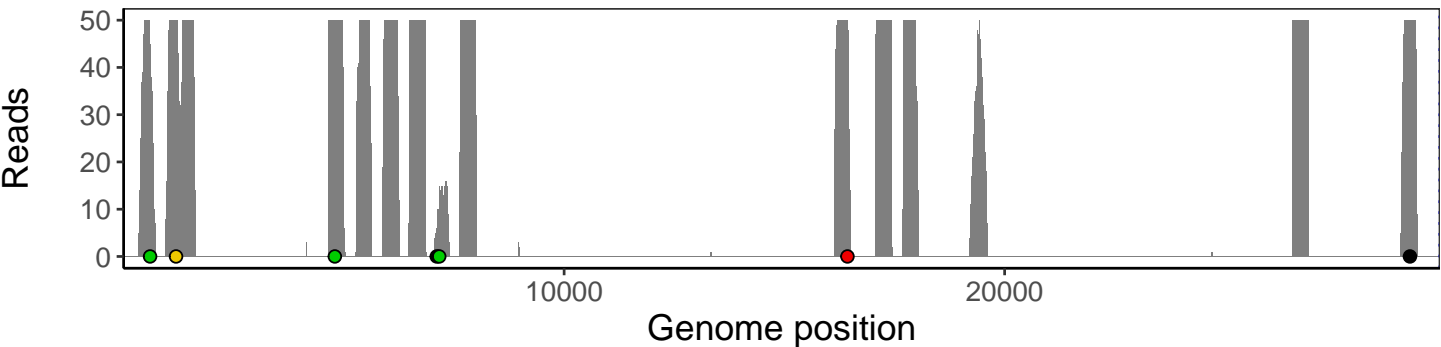
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Excerpt from plot above focusing on reads coverage from 0 to 50 NT.



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