



SARS-CoV-2 Whole Genome Sequencing

Powerful tool to understand the transmission dynamics of outbreaks and inform outbreak control decisions.



In January 2021, the total accumulation of positive cases since COVID-19 was discovered in Indonesia has reached more than 1 million people. Therefore Genetika Science provide SARS-CoV-2 Whole genome sequencing service using Oxford Nanopore Technologies.

What is Whole genome sequencing?

Whole genome sequencing is the process of determining the complete DNA sequence of an organism's genome at one time. Whole genome sequencing (WGS) is a powerful tool to understand the transmission dynamics of outbreaks and inform outbreak control decisions. Evidence of this was seen during the 2014–2016 West African Ebola outbreak when real-time WGS was used to help public health decision-making.

What are the advantages of using Oxford Nanopore Technologies?

- Oxford Nanopore technologies use the ARTIC network method which directly targets the SARS-CoV-2 genome, so that no host contaminants and other viruses are read.
- Bioinformatic results obtained at least 95% of the total genome.



Why is SARS-CoV-2 Whole genome sequencing important?

Whole genome sequencing is important for identifying new mutations, tracing the origin of the virus and isolating patients with these mutations to prevent further spread of COVID-19.

What is the sample requirement for SARS-CoV-2 Whole genome sequencing?

- At least 30 μ L RNA from positive COVID-19 patient confirmed by Real-Time PCR (CT 12-35, recommended 18-25).

For further inquiries, please feel free to contact us at:

PT. Genetika Science Indonesia

Green Lake City, Rukan Great Wall Blok C No. 19-21, Kel. Petir, Kec. Cipondoh,
Kota Tangerang, Banten, 15147, Indonesia.

Phone. +62 21 5433 2034, +62 21 5433 2425 Fax. +62 21 5433 2701

✉ info@ptgenetika.com

📷 [@genetikascience](https://www.instagram.com/genetikascience)

🌐 [linkedin.com/company/genetikascience](https://www.linkedin.com/company/genetikascience)