



Liberating genomics to all

Clear Dx[®]



SARS-CoV-2 WGS

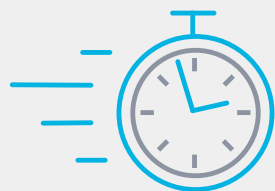
Clear Labs vs. Alternative Sequencing Platform

Advantages of the Clear Dx[®] Platform

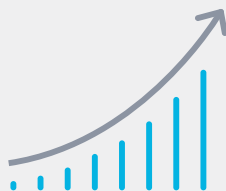
No manual library preparation. Fully automated liquid handling, including cDNA synthesis, amplification of targets, indexing, and nucleic acid clean-up.

→ Also included:

- Simplified WGS workflow. One human touch point vs. several dozen touch points with alternative sequencing option
- Reduction in workflow errors & increase in consistency of results due to automation
- Increase in lab tech productivity due to automation. Tech can perform other lab tasks after loading samples onto the Clear Dx instrument
- Reduction in labor costs due to automation



Faster Time to Result.
Less Than 20 Hours
vs. 4 Days



Higher Throughput



Lower Cost





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Clear Dx® Platform: Automated Diagnostic & WGS Workflows

A Fully Automated and Intelligent Library Prep & NGS Platform for Simultaneous Diagnostic Screening and Genomic Surveillance

WGS Assay

- Higher resolution
- GISAID, Covid-NET, NCBI

Diagnostic Screening & Subtyping Assay


- Diagnostic results
- Genomic sub-typing
- Mutation reporting



EUA



Workflow on Clear Labs Platform vs. Alternative Sequencing Platform

	 Clear Dx® SARS-CoV-2 WGS	Alternative Sequencer
Intended Use	Genome Analysis for Research Use	Detection (EUA) and Genome Analysis for Research Use
Total Time to Result	< 20 Hrs, 1 Technician	*5-6 Days, Depending on Resources Available
Approx. Hands-On Time for 32 Samples	< 1 Hr	9 - 10 Hrs
Human Touch Points with Sample (after RNA Extraction)	1 – 2	Several Dozen
Weekly Throughput	> 200 Samples	*20-60 Samples, Depending on Resources Available
Fully Automated Library Prep and Liquid Handling	Yes	No

*Source: Chan Zuckerberg Biohub presentation to CA PHLs, July 2020

Use Case Studies from US Public Health Departments



Article link

[SARS-CoV-2 Under Surveillance](#)

– Genetic Engineering and Biotechnology News



Article link

[Nebraska Lab Uses New Gene Sequencer to Look for COVID-19 Mutations](#)

– Omaha World-Herald



Article link

[How Coronavirus Variants are Tracked: A Tour Inside NYC's Genome Lab](#)

– Gothamist



Article link

[Kansas Health Officials Ramp Up Fight Against COVID-19](#)

– The Topeka Capitol Journal



Article link

[UNMC uses new technology to discover SARS-CoV-2 mutations in state](#)

– University of Nebraska Medical Center

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