

COVID panel

For the characterization of SARS-CoV-2 virus



COVID PANEL

COVID panel is a CE-IVD kit for the analysis of the entire SARS-CoV-2 genome through a molecular protocol based on NGS technologies.

The kit contains all the reagents required for the preparation of specific bidirectional amplicon libraries for Ion Torrent sequencers.

The kit is validated for the analysis of cDNA samples obtained from reverse transcription of RNA performed with any commercial kit.

cDNA input: 30 ng

TECHNOLOGY

COVID panel kit contains all reagents required for the preparation of a specific bidirectional library of amplicons designed for the NGS analysis using Ion Torrent.

WORKFLOW

This technology provides an easy-to-use and fast solution for characterization of SARS-CoV-2 through a quick and easy workflow. Library preparation follows a straightforward, PCR-based protocol that can be completed in as little as 5 hours, with < 1 hours hands-on time. Resulting libraries can be normalized, pooled, and then loaded into a flow cell for sequencing.

SOFTWARE ANALYSIS

COVID panel is part of an integrated solution with a dedicated proprietary pipeline for data analysis. COVID Panel was designed from reference sequence MN908947 (NC_04512.2) to cover the entire viral genome. 4bases support the implementation and customization of the analysis based on the needs of the laboratory.

- **SPECIFICITY** > 99%
- **SENSITIVITY** > 99%
- **COVERAGE (>30x)** > 99%

SAMPLE PER RUN

Instrument	Samples per run*
Ion 316™ Chip/Ion 510™ Chip	16
Ion 318™ Chip/Ion 520™ Chip	48
Ion 530™ Chip	96
Ion PI™ Chip/Ion 540™ Chip	192

**the estimated maximum number of samples per chip assumes a reading depth of 1000x. The optimal number of samples can be empirically estimated on the local setup.*

ORDERING INFORMATION

Product**	REF
COVID panel	H1110-96 (96 test)
COVID panel	H1110-384 (384 test)
C+ COVID cDNA	H111.CP.55 (4 test)
Barcode	
Barcode Set 1-16	6001
Barcode Set 17-32	6002
Barcode Set 33-48	R6003
Barcode Set 49-64	R6004

***the kit is also available in its version only for research use (RUO).*

CONTACTS

For more details please contact us at the address info@4bases.it.