

# CFTR panel

Hereditary variants profiling in cystic fibrosis

4bases CFTR panel is an **amplicon-based** kit for rapid and cost-effective identification of known and novel germline variations (CNVs, SNPs, indels, poly-T and TG repeats) in **CFTR gene**.

It allows the identification of the most common. Well-known causative mutations of the CFTR gene, new exonic and deep intronic variants, through **Next Generation Sequencing (NGS)**.

The kit is validated for the analysis of DNA extracted from blood samples (also from dried blood spot).

**4bases CFTR panel** allows for **precise, reliable, and effective results, speeding up** the activity of clinical reporting.

**From DNA to sequencing in less than 1.5 days with less than 2 hours hands-on time.**



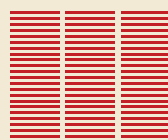
From gDNA



Enrichment PCR



Indexing PCR



Final library



Sequencing



Final Data

### Straightforward protocol

Tailor-made protocol for operator's time schedule, presence of many stopping points, reduced hands-on time

### Sequencing platform flexibility

Common overall protocol for different sequencing applications (Illumina, MGI, Oxford Nanopore Technologies, Ion Torrent, Element Biosciences, GeneMind)

### Platform 4eVAR

Safe and secure data analysis via 4bases proprietary solution, with continuous experienced customer support

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## Specifications

<b>Sample type</b>	DNA extracted from blood samples (also dried blood spot)
<b>Input</b>	Minimum of 10 ng DNA per sample
<b>Panel size</b>	35 kb
<b>Gene content</b>	CFTR coding regions (including 25 bp proximal to the 3' and 5' end) and intronic variants
<b>Variant called</b>	CNVs, SNPs, indels, poly-T and TG repeats
<b>Instrument Type</b>	Illumina, Oxford Nanopore Technologies → CE-IVD kit options Ion Torrent, MGI, Element Biosciences, GeneMind → only RUO
<b>Data Analysis</b>	4eVAR

## Cod. kit

Product	Cod.	Tests number
CFTR panel CE-IVD	H1060	16 & 96
CFTR panel RUO	RH1060	16 & 96

## 4eVAR: Comprehensive output files for analysis and reporting



- Quality metrics
- Alignment
- CNVs status
- Full variant table
- Genotype
- Coverage
- Customizable report

## Data Analysis

Product	Cod.	Tests number
4eVAR	A6060-H1060-16	16
4eVAR	A6060-H1060-96	96

If you wish to learn more:



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4bases SA - [www.4bases.ch](http://www.4bases.ch)