

CARDIO_{pro}

For the characterization of familial cardiovascular diseases

4bases CARDIO pro is a **capture-based kit** designed for comprehensive **genetic characterization** of familial cardiovascular diseases.

It includes **232 curated genes** (coding regions + 100 bp padding) linked to cardiomyopathies, channelopathies, rare cardiac conditions, and hereditary aneurysmal syndromes, following current clinical guidelines (e.g. ClinGen), with optional coverage of mitochondrial genes (ref. MitoMap).

The kit enables the detection of SNV, indels and CNVs through **Next Generation Sequencing (NGS)** from germline DNA samples (blood or tissues).



Curious about the full gene list? Contact our support team for the complete panel details.
support@4bases.ch

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

From DNA to Final data in less than 2.5 days with less than 3 hours hands-on time.



From gDNA



PCR UDI



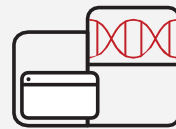
Hybridization



Enrichment PCR



Final library



NGS



to FINAL DATA

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Specifications

Sample type	DNA extracted from tissues, blood or body fluids
Input	Minimum of 50 ng DNA per sample
Panel size	About 750 kb
Variant called	SNPS, indels, CNVs
Compatible Instruments	Illumina, Oxford Nanopore Technologies → CE-IVD kit options Ion Torrent, Element Biosciences, MGI, GeneMind → RUO only
Data Analysis	4eVAR
Automation version	Available

Cod. kit

Product	Cod.	Tests number
CARDIO pro CE-IVD	C3140, DC3140	16 & 96
CARDIO pro RUO	RC3140, RDC3140, RC3140Y	16 & 96
CARDIO pro Automatic RUO	RC3140A	16 & 96

4eVAR: Comprehensive output files for analysis and reporting



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

Data Analysis

Product	Cod.	Tests number
4eVAR	Series A6060-C3140-16	16
4eVAR	Series A6060-C3140-96	96

If you wish to learn more:



Contact us at: info@4bases.ch
4bases SA – www.4bases.ch

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Precision Matters