

Iron Chip^{pro}

For the screening of iron-related disorders

4bases Iron Chip pro is capture-based kit, a comprehensive genetic solution designed to support the diagnosis of iron-related disorders.

By identifying pathogenic variants in genes involved in **iron metabolism and transport**, this NGS kit supports the diagnosis and classification of congenital iron-related disorders, such as hereditary hemochromatosis and iron-refractory iron deficiency anemia. It enables early detection in affected individuals or at-risk family members, guiding personalized clinical management, therapeutic decisions, and genetic counselling.

The kit is validated for germline analysis (SNPs, indels, CNVs) of DNA extracted from blood or tissue samples (fresh, frozen, etc.), ensuring accurate and reliable results.

Iron Chip pro is a kit for the analysis of 15 genes

HFE	HFE2	HAMP	TFR2	SLC40A1
BMP6	TMPRSS6	BMP2	DMT1	PKLR
FTL	ERFE	TF	TFR1	FTH

4bases Iron Chip pro allows for **precise, reliable, and effective results, speeding up** genomic data analysis workflows.

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 45 Kb
Variant called	SNPS, indels, CNVs
Compatible Instruments	Illumina, Oxford Nanopore Technologies, Ion Torrent, Element Biosciences, MGI, GeneMind
Data Analysis	4eVAR
Automation version	Customizable

Cod. kit

Product	Cod.	Tests number
Iron Chip pro	RC3300, RDC3300, RC3300Y	16
Iron Chip pro	RC3300, RDC3300, RC3300Y	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-C3300-16	16
4eVAR	Series A6060-C3300-96	96

If you wish to learn more:



Contact us at: info@4bases.ch
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