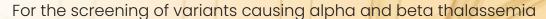
THALASSEMIA panel





The THALASSEMIA panel is a **CE-IVD amplicon-based kit** designed for the efficient detection of the most common variants associated with α - and β -thalassemia in a single workflow.

It targets the HBA1, HBA2, and HBB genes and enables identification of SNVs, small indels, and large exonspanning CNVs through **Next Generation Sequencing (NGS)**.

The kit is validated for use with DNA extracted from blood samples.

4bases THALASSEMIA 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)

Platform 4eVAR

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

THALASSEMIA panel

For the screening of variants causing alpha and beta thalassemia

Specifications

Sample type Input	DNA extracted from blood samples Minimum of 10 ng DNA per sample
Panel size	9 kb
Gene content	Full gene: HBA1, HBA2, HBB Alpha-globin gene cluster: POLR3K, HS-40, HBZ, HBA2, HBA1, HBQ1, LUC7L, AXIN1 Beta-globin gene cluster: LCRB, HBG2, HBG1, HBD, HBB, 3' HS1 Alpha globin deletions:SEA,FIL,THAI, -(a)20.5,MED1, -(a)21.9, -(a)27.6, -(a)3.7, -(a)4.2 Beta globin deletions: Chinese, Filipino, Yunnanese, Taiwanese, SEA-HPFH, Hb-Lepore Boston, Hb-Lepore Baltimore, 290bp-del, B619-del, dbSicilia
Variant called	SNPs, indels, CNVs
Instrument Type	Element Biosciences, Illumina, Ion Torrent, MGI, Oxford Nanopore Technologies
Data Analysis	4eVAR

Cod. kit

Product	Cod.	Tests number
THALASSEMIA panel	H1090-16	16
THALASSEMIA panel	H1090-96	96

4eVAR: Comprehensive output files for analysis and reporting



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

Data Analysis

Product	Cod.	Tests number
4eVAR	A6060-H1090-16	16
4eVAR	A6060-H1090-96	96

If you wish to learn more:



