

WholEx pro Long

Whole Exome NGS kit for ONT

4bases WholEx Pro Long kit is specifically designed for **long-read sequencing** (>5 kb), enabling enhanced detection of genetic factors involved in undiagnosed disease conditions, genetically heterogeneous disorders, and complex syndromic presentations.

The 4bases WholEx Pro long kit targets the coding regions of over 22,000 genes, covering more than 99% of known protein-coding sequences, with the option to include mitochondrial genes based on MitoMap references. This broad coverage supports the investigation of a wide range of genetic disorders, both common and rare, allowing for the detection of variants across all protein-coding regions. It provides a comprehensive genetic profile particularly in complex or atypical cases where causative variants may lie outside of the OMIM catalog.

Thanks to its long-read capability, the kit allows for accurate **analysis of complex and highly homologous genomic regions**, and enables precise identification of **structural variant breakpoints**, including large deletions.

SNVs and CNVs can be detected from germline DNA samples (blood or tissues).

4bases WholEx pro Long allows for precise, reliable, and effective results, speeding up genomic data analysis workflows.

Only 1-hour hybridization for a faster, streamlined workflow.

From DNA to Final data in less than 1.5 days with less than 3 hours hands-on time.



From gDNA



PCR UDI



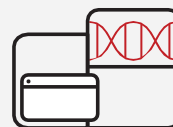
Hybridization



Enrichment PCR



Final library



NGS



to FINAL DATA

WholEx pro Long

Extended Clinical Exome NGS kit for ONT

Specifications

Sample type	DNA extracted from tissues, blood or body fluids
Input	Minimum of 500 ng DNA per sample
Panel size	About 332 Mb
Variant called	SNPS, indels, CNVs
Compatible Instrument	Oxford Nanopore Technologies
Data Analysis	4eVAR
Automation version	Customizable

Cod. kit

Product	Cod.	Tests number
WholEx pro Long	RDC3130L-16	16

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	A6060-DC3130L-16	16

If you wish to learn more:



Contact us at: info@4bases.ch
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