Flyer_RC3290_rev0_30-07-26

Human WGS

Whole Human Genome NGS kit

4bases Human WGS is a RUO kit designed for high-resolution analysis of the human genome in clinical and research settings.

The kit enables comprehensive analysis of the entire genome, covering both coding and non-coding regions, including mitochondrial DNA if desired. This extensive coverage supports the investigation of a wide range of genetic variants associated with both **common and rare genetic disorders.**

It allows for the simultaneous detection of single nucleotide variants (SNVs), copy number variations (CNVs), and structural variants through Next Generation Sequencing (NGS) from germline DNA extracted from blood or fresh/frozen tissue samples.

Interested in the full scope of genomic coverage? Reach out to our support team for compre-hensive information.
support@4bases.ch

4bases Human WGS allows for **precise**, **reliable**, and **effective results**, **speeding up** genomic data analysis workflows.

From DNA to Final data in less than 2 days with less than 3 hours hands-on time.

DNA EXTRACTION
Using appropriate extraction method
Quality check

LIBRARY PREPARATION
Enzymatic fragmentation
End-repair, dA tailing, adapter ligation
Library amplification
Pool creation

FINAL LIBRARY

NGS

TO FINAL DATA

Human WGS

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Specifications

Sample type	DNA extracted from tissues, blood or body fluids
Input	Minimum of 30 ng DNA per sample
Panel size	About 3000 Mb
Variant called	SNPS, indels, CNVs
Compatible Instruments	Illumina, MGI, Oxford Nanopore Technologies, Element Biosciences, GeneMind
Data Analysis	4eVAR
Automation version	Customizable

Cod. kit

Product	Cod.	Tests number
Human WGS	RC3290, RDC3290	16
Human WGS	RC3290, RDC3290	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-RC3290-16	16
4eVAR	Series A6060-RC3290-96	96

If you wish to learn more:

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

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Precision Matters