

# Microbiome panel

For the analysis and phylogenetic characterization of human microbiome communities

4bases MICROBIOME panel is an amplicon based for the molecular profiling of different human microbiome communities through a molecular protocol for Next Generation Sequencing (NGS) technologies.

Genetic targets	Target microorganisms
16S V1-V2	Vaginal microbiome
16S V3-V4	Gut microbiome
16S V5-V6	Lactose enzymes
16S V7-V8- V9	Surface and soil microorganisms

The MICROBIOME panel kit enables targeted analysis of bacterial communities through sequencing of the 16S rRNA gene, offering a reliable and cost-effective solution for microbial profiling. Ideal for both clinical applications (e.g., microbiome monitoring during cancer therapy) and environmental studies (e.g., surface swabs, soil or water samples), the kit provides robust insights into microbial diversity and composition.

**From DNA to sequencing in less than 1.5 days with less than 2 hours hands-on time.**



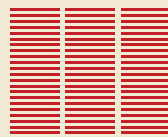
From gDNA



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, Ion Torrent, Element Biosciences, GeneMind)

### One Codex Platform

Safe and secure data analysis to characterize microbial communities in clinical samples

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## Specifications

<b>Sample type</b>	Human or environmental sample
<b>Input</b>	Minimum of 1 ng DNA per sample
<b>Panel size</b>	About 3 Kb, 500000 reads/sample needed
<b>Gene content</b>	16S
<b>Instrument Type</b>	Illumina, Ion Torrent, MGI, Element Biosciences, GeneMind
<b>Data Analysis</b>	OneCodex
<b>Automation scripts</b>	Customizable

## Cod. kit

Product	Cod.	Tests number
Microbiome panel RUO	RH1050-16	16
Microbiome panel RUO	RH1050-96	96

## One Codex: Comprehensive output files for analysis and reporting



ONE CODEX is a software that allows the storage, management and analysis of genomic data deriving from **microbiological samples**.

- Targeted loci
- One Codex database
- Genome assembly
- Anti-Microbial Resistance panel

## Data Analysis

Product	Cod.	Tests number	Distributed by
One Codex	AS03-RH1050-16	16	4bases
One Codex	AS03-RH1050-96	96	4bases

## If you wish to learn more:



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