

BENKit_{panel}



For the screening of metastatic colorectal cancer and non-small-cell lung carcinoma

4bases BENKit panel is **an amplicon-based CE-IVD** kit designed to enable comprehensive analysis for profiling hot spots relevant to therapy selection in metastatic colorectal cancer and non-small cell lung carcinoma.

These key mutations are located in the following genes: **KRAS, NRAS, BRAF, EGFR, and PIK3CA**—well-known drivers and biomarkers in precision oncology.

The kit is validated for somatic analysis (SNPs, indels) of DNA extracted from cancer tissues (fresh, frozen or FFPE).

4bases BENKit 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.



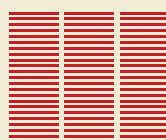
From gDNA



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

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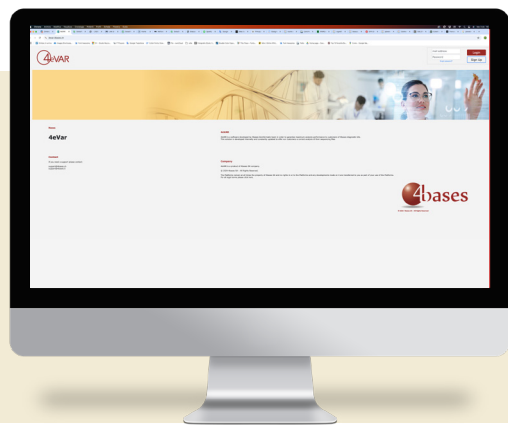
Specifications

Sample type	DNA extracted from cancer tissues (fresh, frozen, FFPE)
Input	Minimum of 10 ng DNA per sample
Panel size	2 kb
Gene content	BRAF (exons 11, 15); PIK3CA (exons 10, 21); EGFR (exons 18, 19, 20, 21); KRAS (exons 2, 3, 4); NRAS (exons 2, 3, 4) (including of 25 bp proximal to the 3' and 5' end)
Variant called	SNPs, indels
Instrument Type	Element Biosciences, Illumina, Ion Torrent, MGI, Oxford Nanopore Technologies
Data Analysis	4eVAR

Cod. kit

Product	Cod.	Tests number
BENKit panel	H1020-16	16
BENKit panel	H1020-96	96

4eVAR: Comprehensive output files for analysis and reporting



- Quality metrics
- Alignment
- Well known SNPs table
- Full variant table
- Genotype
- Coverage
- Customizable report

Data Analysis

Product	Cod.	Tests number
4eVAR	A6060-H1020-16	16
4eVAR	A6060-H1020-96	96

If you wish to learn more:



Contact us at: info@4bases.ch
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