Best-in-class biomarker testing solution for tumor tissues

Now available for your lab

OncoDEEP was designed by oncology experts to contain the most relevant and complete cancer gene panel. It has been extensively used by in-house experts, and trusted by oncologists, for 10 years.

The OncoDEEP test is now available as an end-to-end solution for use in your own lab.

The OncoDEEP Kit offers rapid and reliable insights by profiling a large number of complex cancer biomarkers in a single test. Combined with robust data analysis and clinical interpretation software tools, you can identify a broader set of treatment options for patients, while saving the cost and burden of outsourcing.

And because you can perform the test in-house yourself, there's no need to ship sensitive patient samples to OncoDNA's labs in Belgium.

The bioinformatics packages leverage the power of OncoDNA's proprietary knowledge database OncoKDO:

- Curated daily by oncology experts
- 4,500,000+ genetic variants
- 1,300+ drugs
- 22,000+ documented genes
- 8,500+ actively recruiting clinical trials

OncoDNA GROUP

Our knowledge in your hands!

Any questions? Contact us!

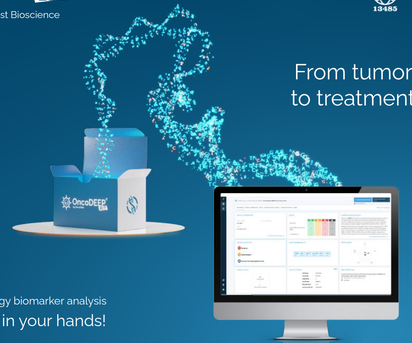
cs@oncodna.atlassian.net

www.oncodna.com

OncoDEEP® NGS by OncoDNA

Powered by Twist Bioscience

ISO 13485 CE IVD



From tumor to treatment

Comprehensive oncology biomarker analysis

Our knowledge in your hands!

Relevant & reliable

- Biomarker panel developed by oncology experts
- Experts curate the database daily, for up-to-the-minute clinical insights

End-to-end

- From tumor to biological and therapeutical interpretation
- Analyze sequence data to identify genomic signatures
- Create fully customizable reports for personalized treatment plans

Timely results

- Extracted DNA to treatment recommendations in five days
- Compatible with automation to reduce hands-on time

Easy to implement

- Based on Twist Bioscience reagent workflow
- For use with Illumina NGS
- Complete guidance documentation for every step

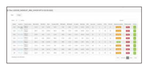
Comprehensive

- 638 genes and relevant biomarkers
- 4 genomic alteration classes (SNV, insertion, deletion, CNV)
- Complex genome signatures (HRD, MSI, TMB, LOH)

Available in both RUO and CE-IVD versions

OncoDEEP® by OncoDNA KIT

Gene panel



\+ MERCURY + OncoKDM® by OncoDNA

Powered by OncoKDO

Sample preparation to clinical insights in just 4-5 days

Sample specimen

FFPE block

Extraction

Extracted DNA and/or RNA from FFPE tumor tissue or unstained slides

3 hours

Library preparation

1. DNA fragmentation, end repair & dA tailing
2. Ligate Twist universal adapters and purify
3. PCR amplify using Twist UDI Primers, purify and QC

20 hours

Target enrichment

1. Prepare libraries for hybridization
2. Hybridize capture probes
3. Bind hybridized targets to streptavidin beads
4. Post-capture PCR amplification, purify and QC

20 hours

Sequencing

Sequencing on Illumina NextSeq 500/550, NextSeq 2000 or NovaSeq 6000

Up to 48 hours

Analysis & interpretation

1. Upload FASTQ files
2. Secondary and tertiary analysis via OncoDEEP pipeline
3. Mercury: Biological interpretation and visualization
4. OncoKDM: Personalized therapeutical interpretation (optional)

included in kit

Analytical performance

Average coverage	350x
Percentage on target	99%
Uniformity	> 90%
DNA input quantity (FFPE)	100 ng
DNA input quality	DV900 > 49.5%
RNA input quantity (FFPE)	200 ng
RNA input quality	DV200 > 60%
# reads required for RNA	1M
Optimal library fragment length range	330-425bp
Average library fragment length for 75-bp paired-end sequencing	>270 bp

		Sensitivity	Specificity
SNV detection	**5% (1% AF for CDx biomarkers)**	> 98%	> 99%
In/del	**5% (1% AF for CDx biomarkers)**	> 99%	> 99%
CNV	**≥ 6 copies**	> 97%	> 99%
LOH	**0 or 1 copy**	> 90%	> 99%
Fusion/splice variants	**5%**	> 90%	> 99%

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