

XCeloSeq® Lung Cancer cfDNA Kit

SEQ010

Product Description

The XCeloSeq Lung Cancer cfDNA Kit contains two pools of targeted DNA enrichment primers for independent identification of mutations from sense and antisense DNA strands. These primers are designed for use only with XCeloSeq Targeted cfDNA Core Reagents (Part Code: GF020). Together they allow for the generation of high quality, high-complexity next-generation sequencing libraries that are suitable for use with Illumina next-generation sequencing instruments.

Kit Contents

Component	Tube Colour	Cap Colour	Storage	Part Code
Lung Cancer cfDNA Kit Pool 1 – OUTER	Transparent	Orange	-20°C	PC0020
Lung Cancer cfDNA Kit Pool 1 – INNER	Transparent	Black	-20°C	PC0021
Lung Cancer cfDNA Kit Pool 2 – OUTER	Transparent	White	-20°C	PC0022
Lung Cancer cfDNA Kit Pool 2 – INNER	Transparent	Yellow	-20°C	PC0023

Kit Specifications and Recommendations

Gene Targets	17
Targeting Primers [%]	300
Recommended Input Quantity [*]	5-50 ng cfDNA
Recommended Read Number [#]	4,500,000 (Dual index, 150 bp paired-end)
Hands on Time	1.5 Hours
Total Protocol Time	5.75 hours

[%]Targeting primers are split between the sense and antisense DNA strands

^{*}Higher quantities within this range will improve maximum sensitivity, recommended maximum is 50 ng. The product supports capture with down to 1.0 ng of cfDNA, however this is not recommended as it will lead to reduced sensitivity. Enzymatically fragmented FFPE is also supported as an alternative starting material, when 50 ng should be used.

[#]Suggested read number for cfDNA samples. Reads should be divided equally between Pool 1 and Pool 2 Libraries. Read numbers can be optimised by users for different uses. For example, for FFPE libraries fewer reads may be sufficient.

Assay Targets

Selected target regions are enriched for the following genes. Target region bed files are available upon request.

AKT	ALK	BRAF	EGFR	ERBB2	ESR1	HRAS	KEAP1	KRAS	MAP2K1
MET	NRAS	PIK3CA	RET	ROS1	STK11	TP53*			

*Whole Coding Region Coverage

Additional Information

Please refer to “XCeloSeq Targeted cfDNA Enrichment Protocol with UDIs” for instructions for use.

Limitations of Use

For Research Use Only (RUO).

This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals. SDS sheets relevant to this product are available upon request.

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Customer Service & Sales Enquiries

Telephone: +44 (0)1865 407 400

Email: sales@genefirst.com

Document: INS1203v3.0

GeneFirst Limited

Unit 2 The Quadrant, Abingdon Science Park,

Abingdon, Oxfordshire, OX14 3YS

United Kingdom

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www.genefirst.com