Product Insert

XCeloSeq® Colon Cancer cfDNA Kit

SEQ009

Product Description

The XCeloSeq Colon 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
Colon Cancer cfDNA Kit Pool 1 – OUTER	Transparent	**Orange**	-20°C	PC0016
Colon Cancer cfDNA Kit Pool 1 – INNER	Transparent	**Black**	-20°C	PC0017
Colon Cancer cfDNA Kit Pool 2 – OUTER	Transparent	**White**	-20°C	PC0018
Colon Cancer cfDNA Kit Pool 2 – INNER	Transparent	**Yellow**	-20°C	PC0019

Specifications

Gene Targets	23
Targeting Primers[%]	315
Recommended Input Quantity[*]	5-50 ng cfDNA
Recommended Read Number[#]	4,700,000
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.

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Assay Targets

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

AMER1	APC	ARAF	BRAF	CTNNB1	DMD	DPYD	EP300	ERBB3	FBXW7
FGFR4	GNAS	HRAS	KRAS	MAP2K1	MAP2K2	NRAS	PDGFRA	PIK3CA	ROS1
SMAD4	TCF7L2	TP53*							

***Whole Coding Region Coverage**

DPYD variants rs67376798, DPYD*A2 (rs3918290), rs55886062 and HapB3 (rs75017182, rs56038477) are covered.

Additional Information

Please refer to "XCeloSeq Targeted cfDNA Enrichment Protocol" 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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