

PANCANCER pro

For the screening of solid tumors.



PANCANCER pro

PANCANCER pro is a novel NGS medical device for the molecular profiling of the variants involved in onset and progression of solid tumors.

PANCANCER pro is a kit for the analysis of 95 genes related to several solid tumors, through a molecular protocol based on NGS technologies. The kit is validated for germline analysis (SNPs, indels, CNVs) of DNA extracted from blood or body tissues samples.

PANCANCER pro kit contains all reagents required for the preparation of the capture of specifically designed probes and for the NGS analysis using Nanopore.

TECHNOLOGY

The HEVapro kit is part of a DNA-to-variant solution that offers streamlined content, easy-to-perform library preparation, push-button sequencing systems, and simplified data analysis.

WORKFLOW

Library preparation follows a straightforward, capture-based protocol that can be completed in as little as 24 hours, with < 3 hours hands-on time. Resulting libraries can be normalized, pooled, and then loaded on to a flow cell for sequencing. Prepared libraries are sequenced on any compatible Nanopore sequencers.

Table 1. List of target genes in PANCANCER pro

ABL1	CDKN2A	FGFR3	NRAS	TP53	P13K	CDH1	MLP
ALK	CHEK2	FLT3	PALB2	VHL	EGFR	CSF1R	NPM1
APC	CHEK1	HRAS	PIK3CA	BRCA1	PDL1 (CD274)	DDR2	PDGFRA
ARID1A	CSF3R	IDH1	PTEN	BRCA2	KRAS	ERBB2	PTPN11
ATM	CTNNB1	IDH2	RAD51B	HER2	NOTCH1	ERBB4	STK11
ATR	DNMT3A	JAK2	RAD51C	MET	NOTCH2	EZH2	SMAD4
ATRX	FANCA	JAK3	RAD51D	NTRK1	NOTCH3	FOXL2	SMARCB1
BARD1	FANCL	KIT	RAD54L	NTRK2	NOTCH4	GNA11	SMO
BRAF	FBXW7	KMT2A	RB1	NTRK3	AKT1	GNAQ	SRC
BRIP1	EML4	MAP2K1	RET	HRAS	PIK3CA	GNAS	TSC1
CBL	FGFR1	MLH1	ROS1	KRAS	TSHR	HNF1A	VHL
CDK12	FGFR2	MSH6	TET2	NRAS	TERT	KDR	

VALIDATION

To demonstrate assay capabilities, clinical samples were run in a clinical setting. DNA quality and quantity of the libraries prepared were verified using Qubit and Agilent Bioanalyzer.

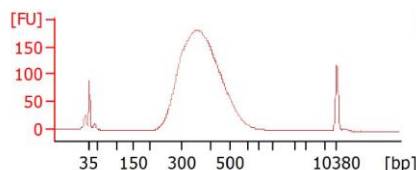


Figure 1: PANCANCER pro final library profile example

SAMPLE PER RUN

Flowcell	Samples per flowcell* 100x	Instrument	Flowcells per instrument**
FLO-MIN114	32	MinION	1
		GridION	Up to 5
FLO-PRO114M	160	PromethION 2\2 Solo	Up to 2
		PromethION 24	Up to 24
		PromethION 48	Up to 48

*The volume present in the kit is calculated to allow the subdivision into multiples of 8 analysis sessions. Dividing the kit in different ways decrease the total number of tests that can be performed.

**Multiple flow cells can be used during the same run session, with different libraries, or same library increasing depth

ORDERING INFORMATION

Product	REF
PANCANCER pro	DC3200-16X (16 test)
PANCANCER pro	DC3200-96X (96 test)
UDI***	
UDI Primers Set A	7001 (96 test)
UDI Primers Set B	7002 (96 test)
UDI Primers Set C	7003 (96 test)
UDI Primers Set D	7004 (96 test)
UDI Primers Set 16	7005 (16 test)
ADAPTER	
NANO ADAPTER	M1050-6

***UDI are always included in CEIVD kit.