

THYRO-ID pro

For the screening of Thyroid cancer

THYRO-ID pro

THYRO-ID pro is a novel NGS medical device for the molecular profiling of the variants involved in the development of Thyroid cancer.

THYRO-ID solution

THYRO-ID panel is a kit for the analysis of 14 genes and hTERT promoter through a molecular protocol based on NGS technologies. The kit is validated for somatic analysis (SNPs, indels) of DNA extracted from tissues (fresh, frozen, FFPE, FNA, etc.).

THYRO-ID pro kit contains all reagents required for the preparation of the capture of specifically designed probes and for the NGS analysis using Illumina.

WORKFLOW

Library preparation follows a straightforward, capture-based protocol that can be completed in as little as 36 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 Illumina sequencers.

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.

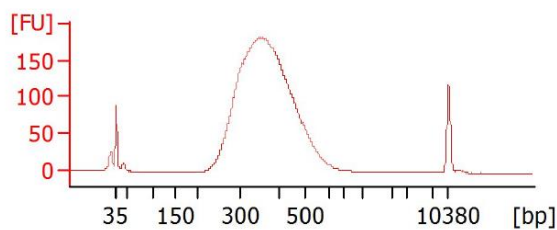


Figure 2: THYRO-ID pro profiles examples

Table 1. List of target genes in THYRO-ID pro

KRAS	EGFR
NRAS	AKT1
HRAS	CTNNB1
BRAF	PIK3CA
TP53	TSHR
NOTCH1	htert
PTEN	RET
CDKN2A	

SAMPLE PER RUN

Instrument	Sample per run
MiSeq Nano Kit v2 (300-cycles)	1
MiSeq Nano Kit v2 (500-cycles)	1
MiSeq Micro Kit v2 (300-cycles)	4
MiSeq Kit v2 (300-cycles)	16
MiSeq Kit v2 (500-cycles)	16
MiSeq Kit v3 (600-cycles)	24
MiniSeq Mid Output Kit (300-cycles)	8
MiniSeq High Output Kit (300-cycles)	24
iSeq 100 i1 kit (300-cycles)	4
NextSeq 550 Mid-Output Kit	128
NextSeq 550High-Output Kit	408

**the maximum number of samples per cartridge/chip estimated assuming an average depth of 5000x. The optimal number of samples must be empirically determined on local setups.*

Ordering Information

Product	REF
THYRO-ID pro	C3120-16 (16 test)
THYRO-ID pro	C3120-96 (96 test)
<i>For Illumina instruments</i>	
UDI Primers Set A (96 test)	7001
UDI Primers Set B (96 test)	7002
UDI Primers Set C (96 test)	7003
UDI Primers Set D (96 test)	7004
UDI Primers Set 16 (16 test)	7005