

miRCURY LNA™ Universal RT Cancer Focus microRNA PCR Panel

At a glance

- All relevant oncogenes and/or tumor suppressor microRNAs in one PCR Panel
- Quick and convenient identification of microRNA biomarker or signatures in cancer samples
- Profile all cancer relevant microRNAs using only 10 ng total RNA
- Sensitivity and specificity for accurate microRNA profiling from FFPE, biopsies, LCM samples and more
- Fast and easy - ready-to-use format for direct sample application with a full profile in less than 3 hours

Product coverage

Cancer Focus microRNA PCR Panels are supplied in ready-to-use 96 or 384-well plates compatible with most real-time PCR instruments.

Cancer Focus microRNA PCR Panels contain the following:

- 84 microRNAs specifically linked to cancer
- 3 microRNA reference genes: miR-103, miR-191, miR-423-5p
- snRNA reference genes: SNORD49A, U6 snRNA, SNORD38B
- 3 Inter-plate calibrators (UniSp3 IPC)
- 5 RNA spike-ins (cel-miR-39-3p, UniSp2, UniSp4, UniSp5 and UniSp6)

Extremely accurate and fast microRNA profiling

miRCURY LNA™ Universal RT microRNA PCR assays offer an excellent combination of performance and ease-of-use as it combines a universal RT (one first-strand cDNA synthesis) reaction with the high sensitivity and specificity obtained with LNA™-enhanced PCR primers (Figure 1).

The high sensitivity means that all the microRNAs on the panel can be accurately profiled using just 10 ng total RNA. Exiqon's microRNA qPCR system does not require a pre-amplification step. Combined with the universal RT reaction, this means that the entire workflow takes just 3 hours.

Cancer Focus microRNA PCR Panel

Exiqon's Cancer Focus microRNA PCR Panel targets 84 human microRNAs related to cancer. These microRNAs have been shown to be important for tumorigenesis and in cancer diagnostics.

The microRNAs on the panel cover a range of cancer types (Table 1) and have been selected based on data from a large biobank containing thousands of FFPE and serum/plasma samples as well as data from the literature. A full list of microRNAs on the panel is available at www.exiqon.com/cancer-miRNA-qPCR.

Figure 1. Overview of the miRCURY LNA™ Universal RT PCR workflow. The PCR primer sets have been designed for optimal performance when used with Exiqon's SYBR® Green master mix. Use of other master mixes might affect the quality of the results.

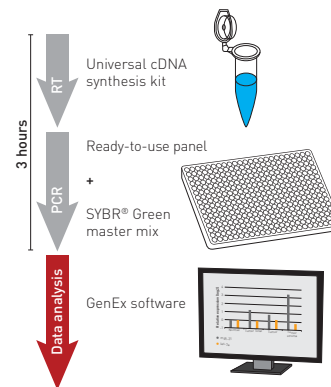


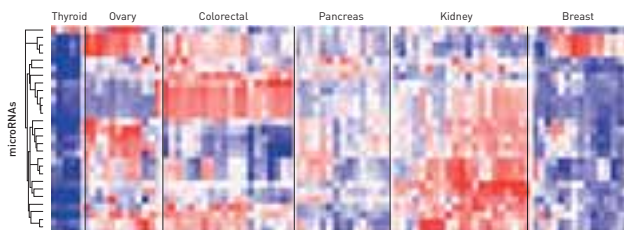
Table 1. Some of the cancer types covered by the panel.

Examples of cancer types covered by the panel	
Colorectal	Adrenal
Lung	Prostate
Pancreatic	Endometrial
Stomach	Gallbladder B-cell
Esophagus	Hodgkin's Lymphomas
Liver (HCC and CCAs)	Ovarian
Breast	Uterine
Melanoma	Sarcoma
Kidney	GIST
Bladder	Thyroid Hurthle and follicular cell
Brain	Papillary thyroid
Cervical	

Identify microRNA biomarkers or new disease classifiers

Cancer Focus microRNA PCR Panels can be used for microRNA profiling from a variety of clinical samples including FFPE, biopsies, LCM and biofluids. These microRNA profiles can be used to identify unique cancer signatures and help researchers and clinicians to identify biomarkers or classifiers for cancer types, diagnosis, prognosis, recurrence and progression (Figures 2 & 3).

Figure 2. Six types of cancers compared. Heatmap comparing microRNA profiles from cancers of the thyroid, ovary, colon, pancreas, kidney and breast. There are distinct differences in the microRNA expression in the various types of cancers. This information can be used to identify classifiers for different types of cancers or as biomarkers to monitor the effects of therapy on cancer prognosis and progression.

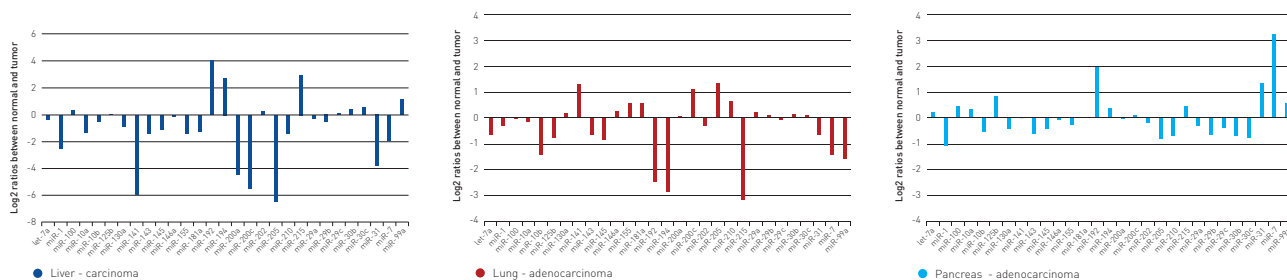


Ordering information

Order these products online at exiqon.com/cancer-miRNA-qPCR

Focus microRNA PCR Panel	Product description	Product no.
Cancer Focus , V3, 96 well Ready-to-Use plates	4 Panels in 4 PCR plates. Each panel contains LNA™ primers for 84 human cancer microRNAs, control and reference assays*	203832-203835
Cancer Focus , V3, 384 well Ready-to-Use plates	8 Panels supplied in two PCR plates. Each panel contains LNA™ primers for 84 human cancer microRNAs, control and reference assays*	203840-203841
Reagents	Product description	Product no.
Universal cDNA Synthesis Kit II	Polyadenylation and cDNA synthesis kit (8 to 64 rxns)	203301
ExiLent SYBR® Green master mix, 2,5ml	250 rxns of 20µL or 500 rxns of 10µL	203402
ExiLent SYBR® Green master mix, 20ml	2000 rxns of 20µL or 4000 rxns of 10µL	203420
RNA Spike-In	Product description	Product no.
RNA Spike-in kit, UniRT	miRCURY LNA™ Universal RT microRNA PCR, Set of two vials with synthetic RNA spike-in templates for qPCR control (UniSp2, UniSp4, UniSp5 RNA Spike-in template mix and cel-miR-39-3p RNA Spike-in template)	203203
Exiqon GenEx Software	Product description	Product no.
Pro and Enterprise versions	Exiqon GenEx, qPCR analysis software, industrial and academic licenses available	207005-207012

Figure 3. microRNA expression from three types of cancer. Each of the three cancer types (liver, lung and pancreatic) has a unique microRNA expression signature relative to adjacent normal tissue.



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