

miRCURY LNA™ miRNA Focus PCR Panels

Human Ovarian Cancer Product Data Sheet

Cat. no. 339325 YAHS-210Z

For mature miRNA expression profiling using real-time PCR

Format	Suitable real-time cyclers	Plate	Cat. no.
A	Applied Biosystems® models 5700, 7000, 7300, 7500, 7700, 7900HT, ViiA™ 7 (96-well block); Bio-Rad® models iCycler®, iQ™5, MyiQ™, MyiQ2; Bio-Rad/MJ Research Chromo4™; Eppendorf® MasterCycler® ep realplex models 2, 2s, 4, 4s; Stratagene® models Mx3005P®, Mx3000P®; Takara: TP-800	96-well	YAHS-210ZA
C	Applied Biosystems models 7500 (Fast block), 7900HT (Fast block), StepOnePlus™, ViiA 7 (Fast block)	96-well	YAHS-210ZC
D	Bio-Rad CFX96™; Bio-Rad/MJ Research models DNA Engine Opticon®, DNA Engine Opticon 2; Stratagene Mx4000®	96-well	YAHS-210ZD
E	Applied Biosystems® models 7900HT (384-well block), ViiA™ 7 (384-well block); Bio-Rad CFX384™	384-well	YAHS-210ZE
F	Roche® LightCycler® 480 (96-well block)	96-well	YAHS-210ZF
G	Roche® LightCycler® 480 (384-well block)	384-well	YAHS-210ZG

Description

The Human Ovarian Cancer miRCURY LNA™ miRNA Focus PCR Panel profiles the expression of 84 miRNAs known to alter their expression during ovarian cancer initiation and progression. This array provides cancer researchers with a convenient way to quickly analyze the miRNAs most relevant to ovarian tumorigenesis. Ovarian cancer has the highest mortality rate of all gynecological cancers, partly because it is often discovered at a late stage of progression. Ninety percent of ovarian tumors occur in the ovary epithelium. Epithelial ovarian cancers are divided histologically into several classes; the most common class (40%) is serous. Microarray analyses of miRNA expression have discovered potential biomarkers of ovarian cancer progression, and many results have been followed up with functional studies, which have identified potential specific oncogenic mechanisms. This array includes miRNAs shown via microarray and functional analyses to be involved specifically in serous ovarian cancer, broadly in epithelial ovarian cancer, or in ovarian cancers in general. The profiling results from this array may yield insights into the molecular mechanisms behind the pathogenesis of ovarian cancer. A set of controls present on this array enables data analysis using the $\Delta\Delta CT$ method of relative quantification, assessment of reverse transcription performance, and assessment of PCR performance. Using SYBR Green-based real-time PCR, the expression of a focused panel of miRNAs related to ovarian cancer can be easily and reliably analyzed with this miRCURY LNA™ miRNA Focus PCR Panel.

For further details, consult the *miRCURY LNA™ miRNA Focus PCR Panels Handbook*.

Array Layout

	1	2	3	4	5	6	7	8	9	10	11	12
A	hsa-let-7a-5p	hsa-let-7b-5p	hsa-let-7c-5p	hsa-let-7d-5p	hsa-let-7f-5p	hsa-miR-1-3p	hsa-miR-100-5p	hsa-miR-101-3p	hsa-miR-103a-3p	hsa-miR-105-5p	hsa-miR-106b-5p	hsa-miR-10b-5p
B	hsa-miR-125b-5p	hsa-miR-125b-1-3p	hsa-miR-126-3p	hsa-miR-133a-3p	hsa-miR-134-5p	hsa-miR-137-3p	hsa-miR-140-5p	hsa-miR-141-3p	hsa-miR-143-3p	hsa-miR-145-5p	hsa-miR-147a	hsa-miR-152-3p
C	hsa-miR-154-5p	hsa-miR-154-3p	hsa-miR-155-5p	hsa-miR-15a-5p	hsa-miR-16-5p	hsa-miR-182-5p	hsa-miR-195-5p	hsa-miR-199a-3p	hsa-miR-199a-5p	hsa-miR-200a-3p	hsa-miR-200b-3p	hsa-miR-200c-3p
D	hsa-miR-203a-3p	hsa-miR-204-5p	hsa-miR-205-5p	hsa-miR-206	hsa-miR-21-5p	hsa-miR-211-5p	hsa-miR-214-3p	hsa-miR-22-3p	hsa-miR-221-3p	hsa-miR-222-3p	hsa-miR-223-3p	hsa-miR-224-5p
E	hsa-miR-26a-5p	hsa-miR-27a-3p	hsa-miR-29a-3p	hsa-miR-29c-3p	hsa-miR-302b-3p	hsa-miR-302b-5p	hsa-miR-30a-5p	hsa-miR-30a-3p	hsa-miR-30e-5p	hsa-miR-325	hsa-miR-335-5p	hsa-miR-346
F	hsa-miR-34b-3p	hsa-miR-365a-3p	hsa-miR-370-3p	hsa-miR-373-3p	hsa-miR-375-3p	hsa-miR-376a-3p	hsa-miR-377-3p	hsa-miR-379-5p	hsa-miR-410-3p	hsa-miR-424-5p	hsa-miR-429	hsa-miR-432-5p
G	hsa-miR-487b-3p	hsa-miR-492	hsa-miR-493-3p	hsa-miR-507	hsa-miR-514a-3p	hsa-miR-519d-3p	hsa-miR-519e-3p	hsa-miR-520e-3p	hsa-miR-637	hsa-miR-9-5p	hsa-miR-93-5p	hsa-miR-99a-5p
H	cel-miR-39-3p	cel-miR-39-3p	SNORD44 (hsa)	SNORD388 (hsa)	SNORD49A (hsa)	U6 snRNA (v2)	UniSp2	UniSp4	UniSp5	UniSp6	UniSp3	UniSp3

miRNA Table

Well	miRNA ID	Accession #	Assay Catalog #	Well	miRNA ID	Accession #	Assay Catalog #
A01	hsa-let-7a-5p	MIMAT0000062	YP00205727	E01	hsa-miR-26a-5p	MIMAT0000082	YP00206023
A02	hsa-let-7b-5p	MIMAT0000063	YP00204750	E02	hsa-miR-27a-3p	MIMAT0000084	YP00206038
A03	hsa-let-7c-5p	MIMAT0000064	YP00204767	E03	hsa-miR-29a-3p	MIMAT0000086	YP00204698
A04	hsa-let-7d-5p	MIMAT0000065	YP00204124	E04	hsa-miR-29c-3p	MIMAT0000681	YP00204729
A05	hsa-let-7i-5p	MIMAT0000415	YP00204394	E05	hsa-miR-302b-3p	MIMAT0000715	YP00204773
A06	hsa-miR-1-3p	MIMAT0000416	YP00204344	E06	hsa-miR-302b-5p	MIMAT0000714	YP00205676
A07	hsa-miR-100-5p	MIMAT0000098	YP00205689	E07	hsa-miR-30a-5p	MIMAT0000087	YP00205695
A08	hsa-miR-101-3p	MIMAT0000099	YP00204786	E08	hsa-miR-30a-3p	MIMAT0000088	YP00204457
A09	hsa-miR-103a-3p	MIMAT0000101	YP00204063	E09	hsa-miR-30e-5p	MIMAT0000692	YP00204714
A10	hsa-miR-105-5p	MIMAT0000102	YP00204389	E10	hsa-miR-325	MIMAT0000771	YP00204464
A11	hsa-miR-106b-5p	MIMAT0000680	YP00205884	E11	hsa-miR-335-5p	MIMAT0000765	YP02119293
A12	hsa-miR-10b-5p	MIMAT0000254	YP00205637	E12	hsa-miR-346	MIMAT0000773	YP00206009
B01	hsa-miR-125b-5p	MIMAT0000423	YP00205713	F01	hsa-miR-34b-3p	MIMAT0004676	YP00204005
B02	hsa-miR-125b-1-	MIMAT0004592	YP00204400	F02	hsa-miR-365a-3p	MIMAT0000710	YP00204622
B03	hsa-miR-126-3p	MIMAT0000445	YP00204227	F03	hsa-miR-370-3p	MIMAT0000722	YP00204011
B04	hsa-miR-133a-3p	MIMAT0000427	YP00204788	F04	hsa-miR-373-3p	MIMAT0000726	YP00204604
B05	hsa-miR-134-5p	MIMAT0000447	YP00205989	F05	hsa-miR-375-3p	MIMAT0000728	YP00204362
B06	hsa-miR-137-3p	MIMAT0000429	YP00206062	F06	hsa-miR-376a-3p	MIMAT0000729	YP00204508
B07	hsa-miR-140-5p	MIMAT0000431	YP00204540	F07	hsa-miR-377-3p	MIMAT0000730	YP00204733
B08	hsa-miR-141-3p	MIMAT0000432	YP00204504	F08	hsa-miR-379-5p	MIMAT0000733	YP00205658
B09	hsa-miR-143-3p	MIMAT0000435	YP00205992	F09	hsa-miR-410-3p	MIMAT0002171	YP00204042
B10	hsa-miR-145-5p	MIMAT0000437	YP00204483	F10	hsa-miR-424-5p	MIMAT0001341	YP00204736
B11	hsa-miR-147a	MIMAT0000251	YP00204398	F11	hsa-miR-429	MIMAT0001536	YP00205901
B12	hsa-miR-152-3p	MIMAT0000438	YP00204294	F12	hsa-miR-432-5p	MIMAT0002814	YP00204776
C01	hsa-miR-154-5p	MIMAT0000452	YP00204518	G01	hsa-miR-487b-3p	MIMAT0003180	YP00204489
C02	hsa-miR-154-3p	MIMAT0000453	YP00204096	G02	hsa-miR-492	MIMAT0002812	YP00204053
C03	hsa-miR-155-5p	MIMAT0000646	YP02119311	G03	hsa-miR-493-3p	MIMAT0003161	YP00204557
C04	hsa-miR-15a-5p	MIMAT0000068	YP00204066	G04	hsa-miR-507	MIMAT0002879	YP00205662
C05	hsa-miR-16-5p	MIMAT0000069	YP00205702	G05	hsa-miR-514a-3p	MIMAT0002883	YP00205931
C06	hsa-miR-182-5p	MIMAT0000259	YP00206070	G06	hsa-miR-519d-3p	MIMAT0002853	YP00204062
C07	hsa-miR-195-5p	MIMAT0000461	YP00205869	G07	hsa-miR-519e-3p	MIMAT0002829	YP00204491
C08	hsa-miR-199a-3p	MIMAT0000232	YP00204536	G08	hsa-miR-520e-3p	MIMAT0002825	YP00204013
C09	hsa-miR-199a-5p	MIMAT0000231	YP00204494	G09	hsa-miR-637	MIMAT0003307	YP00205679
C10	hsa-miR-200a-3p	MIMAT0000682	YP00204707	G10	hsa-miR-9-5p	MIMAT0000441	YP00204513
C11	hsa-miR-200b-3p	MIMAT0000318	YP00206071	G11	hsa-miR-93-5p	MIMAT0000093	YP00204715
C12	hsa-miR-200c-3p	MIMAT0000617	YP00204482	G12	hsa-miR-99a-5p	MIMAT0000097	YP00204521
D01	hsa-miR-203a-3p	MIMAT0000264	YP00205914	H01	cel-miR-39-3p	MIMAT0000010	YP00203952
D02	hsa-miR-204-5p	MIMAT0000265	YP00206072	H02	cel-miR-39-3p	MIMAT0000010	YP00203952
D03	hsa-miR-205-5p	MIMAT0000266	YP00204487	H03	SNORD44 (hsa)	N/A	YP00203902
D04	hsa-miR-206	MIMAT0000462	YP00206073	H04	SNORD388 (hsa)	N/A	YP00203901
D05	hsa-miR-21-5p	MIMAT0000076	YP00204230	H05	SNORD49A (hsa)	N/A	YP00203904
D06	hsa-miR-211-5p	MIMAT0000268	YP00204009	H06	U6 snRNA (v2)	N/A	YP02119464
D07	hsa-miR-214-3p	MIMAT0000271	YP00204510	H07	UniSp2	N/A	YP00203950
D08	hsa-miR-22-3p	MIMAT0000077	YP00204606	H08	UniSp4	N/A	YP00203953
D09	hsa-miR-221-3p	MIMAT0000278	YP00204532	H09	UniSp5	N/A	YP00203955
D10	hsa-miR-222-3p	MIMAT0000279	YP00204551	H10	UniSp6	N/A	YP00203954
D11	hsa-miR-223-3p	MIMAT0000280	YP00205986	H11	UniSP3	N/A	YP02119288
D12	hsa-miR-224-5p	MIMAT0000281	YP02119313	H12	UniSP3	N/A	YP02119288

Functional Groupings

Serous Ovarian Cancer

Upregulated in Serous Ovarian Cancer: hsa-miR-141-3p, hsa-miR-16-5p, hsa-miR-200a-3p, hsa-miR-200b-3p, hsa-miR-200c-3p, hsa-miR-21-5p, hsa-miR-27a-3p, hsa-miR-429, hsa-miR-93-5p.

Downregulated in Serous Ovarian Cancer: hsa-let-7b-5p, hsa-miR-100-5p, hsa-miR-10b-5p, hsa-miR-125b-5p, hsa-miR-143-3p, hsa-miR-145-5p, hsa-miR-214-3p, hsa-miR-26a-5p, hsa-miR-29a-3p, hsa-miR-34b-3p, hsa-miR-432-5p, hsa-miR-514a-3p, hsa-miR-99a-5p.

Regulated in Serous Ovarian Cancer: hsa-miR-199a-3p.

Epithelial Ovarian Cancer

Upregulated in Epithelial Ovarian Cancer: hsa-miR-141-3p, hsa-miR-182-5p, hsa-miR-195-5p, hsa-miR-199a-3p, hsa-miR-200a-3p, hsa-miR-200c-3p, hsa-miR-203a-3p, hsa-miR-205-5p, hsa-miR-21-5p, hsa-miR-26a-5p, hsa-miR-302b-5p, hsa-miR-325, hsa-miR-373-3p.

Downregulated in Epithelial Ovarian Cancer: hsa-let-7a-5p, hsa-let-7b-5p, hsa-let-7c-5p, hsa-let-7d-5p, hsa-let-7i-5p, hsa-miR-1-3p, hsa-miR-100-5p, hsa-miR-125b-1-3p, hsa-miR-125b-5p, hsa-miR-126-3p, hsa-miR-133a-3p, hsa-miR-140-5p, hsa-miR-143-3p, hsa-miR-145-5p, hsa-miR-152-3p, hsa-miR-155-5p, hsa-miR-15a-5p, hsa-miR-204-5p, hsa-miR-22-3p, hsa-miR-221-3p, hsa-miR-222-3p, hsa-miR-224-5p, hsa-miR-29a-3p, hsa-miR-29c-3p, hsa-miR-302b-3p, hsa-miR-30a-3p, hsa-miR-30a-5p, hsa-miR-346, hsa-miR-34b-3p, hsa-miR-365a-3p, hsa-miR-370-3p, hsa-miR-375-3p, hsa-miR-376a-3p, hsa-miR-377-3p, hsa-miR-379-5p, hsa-miR-410-3p, hsa-miR-424-5p, hsa-miR-432-5p, hsa-miR-492, hsa-miR-507, hsa-miR-514a-3p, hsa-miR-519d-3p, hsa-miR-519e-3p, hsa-miR-520e-3p, hsa-miR-9-5p, hsa-miR-99a-5p.

Regulated in Epithelial Ovarian Cancer: hsa-miR-101-3p, hsa-miR-103a-3p, hsa-miR-105-5p, hsa-miR-134-5p, hsa-miR-137-3p, hsa-miR-147a, hsa-miR-154-3p, hsa-miR-154-5p, hsa-miR-199a-5p, hsa-miR-200b-3p, hsa-miR-211-5p, hsa-miR-214-3p.

Ovarian Cancer

Upregulated in Ovarian Cancer: hsa-miR-125b-1-3p, hsa-miR-140-5p, hsa-miR-152-3p, hsa-miR-199a-3p, hsa-miR-199a-5p, hsa-miR-200b-3p, hsa-miR-200c-3p, hsa-miR-214-3p, hsa-miR-22-3p, hsa-miR-221-3p, hsa-miR-223-3p, hsa-miR-29a-3p, hsa-miR-29c-3p, hsa-miR-30a-5p, hsa-miR-30e-5p, hsa-miR-365a-3p, hsa-miR-370-3p, hsa-miR-487b-3p, hsa-miR-519e-3p, hsa-miR-520e-3p, hsa-miR-637, hsa-miR-99a-5p.

Downregulated in Ovarian Cancer: hsa-let-7a-5p, hsa-let-7b-5p, hsa-let-7c-5p, hsa-let-7d-5p, hsa-let-7i-5p, hsa-miR-125b-5p, hsa-miR-134-5p, hsa-miR-154-3p, hsa-miR-155-5p, hsa-miR-195-5p, hsa-miR-203a-3p, hsa-miR-206, hsa-miR-21-5p, hsa-miR-335-5p, hsa-miR-346, hsa-miR-493-3p, hsa-miR-507, hsa-miR-514a-3p.

Regulated in Ovarian Cancer: hsa-miR-100-5p, hsa-miR-106b-5p, hsa-miR-141-3p, hsa-miR-15a-5p, hsa-miR-200a-3p, hsa-miR-222-3p, hsa-miR-34b-3p, hsa-miR-424-5p.

Known Functions in Ovarian Cancer: hsa-let-7i-5p, hsa-miR-100-5p, hsa-miR-10b-5p, hsa-miR-125b-5p, hsa-miR-126-3p, hsa-miR-133a-3p, hsa-miR-140-5p, hsa-miR-141-3p, hsa-miR-152-3p, hsa-miR-155-5p, hsa-miR-15a-5p, hsa-miR-16-5p, hsa-miR-182-5p, hsa-miR-199a-3p, hsa-miR-200b-3p, hsa-miR-200c-3p, hsa-miR-204-5p, hsa-miR-205-5p, hsa-miR-206, hsa-miR-21-5p, hsa-miR-22-3p, hsa-miR-221-3p, hsa-miR-222-3p, hsa-miR-224-5p, hsa-miR-27a-3p, hsa-miR-29a-3p, hsa-miR-30a-3p, hsa-miR-30e-5p, hsa-miR-335-5p, hsa-miR-34b-3p, hsa-miR-373-3p, hsa-miR-375-3p, hsa-miR-376a-3p, hsa-miR-410-3p, hsa-miR-429, hsa-miR-432-5p, hsa-miR-487b-3p, hsa-miR-493-3p, hsa-miR-637, hsa-miR-93-5p.

Ordering Information

Product	Contents	Cat. no.
miRCURY LNA miRNA Focus PCR Panels	miRCURY LNA miRNA PCR Panels for application-based miRNome profiling, available in 96-well or 384-well format; for SYBR® Green-based detection	339325
miRCURY LNA miRNA miRNome PCR Panels	miRCURY LNA miRNA PCR Panels for PCR-based miRNome profiling, available in 384-well format; for SYBR® Green-based detection	339322
miRCURY LNA miRNA QC PCR Panel	miRCURY LNA miRNA PCR Panel of quality control assays, available in 96-well or 384-well format; for SYBR® Green-based detection	339331
miRCURY LNA miRNA Custom PCR Panels	8 identical, ready-to-use 96- or 384-well plates; each well contains primers sufficient for one 10 µl reaction; for SYBR® Green-based detection	339330
miRCURY LNA Custom PCR Panel Additional Plate	Additional miRCURY LNA Custom PCR Panel plates; set of 4 plates; only available in addition to the base plates ordered through the core product (cat. no. 339330)	339332
miRCURY LNA miRNA PCR Assays	Contains forward and reverse primers for 200 SYBR® Green-based, real-time qPCR reactions, 166 EvaGreen-based digital PCR reactions for Nanoplate 8.5k or 50 EvaGreen-based digital PCR reactions for Nanoplate 26k	339306
miRCURY LNA miRNA Probe PCR Assays	Complete premixed assays containing LNA-enhanced target-specific forward primer and probe. For 200 reactions.	339350
miRCURY LNA miRNA Custom Probe PCR Assays	Custom-designed, target-specific forward primer and probe for any user-defined miRNA target. Complete premixed assay for 200 reactions.	339351

Related Products

Product	Contents	Cat. no.
miRCURY LNA RT Kit	For 8–64 cDNA synthesis reactions: 5x RT SYBR Green Reaction Buffer, 5x RT Probe Reaction Buffer, 10x RT Enzyme Mix, UniSp6, RNA Spike-in template, RNase-Free Water	339340
RNA Spike-In Kit, For RT	Contains the UniSp2, UniSp4, and UniSp5 RNA Spike-in Template Mix and the cel-miR-39-3p RNA Spike-in Template	339390
miRCURY LNA SYBR® Green PCR Kits (200)	For 200 reactions: 2X miRCURY SYBR Green Master Mix, RNase-Free Water	339345
miRCURY LNA SYBR® Green PCR Kits (600)	For 600 reactions: 2X miRCURY SYBR Green Master Mix, RNase-Free Water	339346
miRCURY LNA SYBR® Green PCR Kits (4000)	For 4000 reactions: 2X miRCURY SYBR Green Master Mix, RNase-Free Water	339347
miRCURY LNA Probe PCR Kit (200)	For 200 reactions: 2X QuantiNova Probe Master Mix, 10X miRCURY Probe Univ. Primer, Rox Reference Dye, RNase-Free Water	339371
miRCURY LNA Probe PCR Kit (800)	For 800 reactions: 2X QuantiNova Probe Master Mix, 10X miRCURY Probe Univ. Primer, Rox Reference Dye, RNase-Free Water	339372
miRCURY LNA Probe PCR Kit (4000)	For 4000 reactions: 2X QuantiNova Probe Master Mix, 10X miRCURY Probe Univ. Primer, Rox Reference Dye, RNase-Free Water	339373
miRCURY LNA miRNA PCR Starter Kit	Two miRCURY LNA PCR Assays of your choice, spike-in control Assay (UniSp6), one candidate endogenous control assay (miR-103-3p) and all reagents for 20 reverse transcription reactions and 100 PCR amplifications; for SYBR® Green-based qPCR detection	339320

Important

The miRCURY LNA™ miRNA PCR Panels are Ready-to-Use and designed for optimal performance with the miRCURY LNA RT Kit and the miRCURY LNA SYBR® Green PCR Kit. The performance of the primer sets will be affected when used in combination with less than optimal reagents. Use the miRCURY LNA miRNA PCR Panel Handbook for experiment setup. RNA work requires specific handling and precautions should be taken to prevent RNase contamination and degradation of the RNA sample and reagents.

Shipping and storage

The Ready-to-Use miRCURY LNA miRNA PCR Panels are shipped at room temperature and can be stored at 4°C for at least 6 months. For long term storage, it is recommended to place the panels at -20°C. Under these conditions, the LNA PCR primers are stable for at least 6 months after receipt.

Intended use

miRCURY LNA miRNA PCR Assays are intended for molecular biology applications. This product is not intended for the diagnosis, prevention or treatment of a disease.

Safety information

When working with chemicals, always wear a suitable lab coat, disposable gloves, and protective goggles. For more information, please consult the appropriate safety data sheets (SDSs). These are available online in convenient and compact PDF format at **www.qiagen.com/safety** where you can find, view and print the SDS for each QIAGEN kit and kit component.

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