

miRCURY LNA™ miRNA Focus PCR Panels

Human Serum/Plasma Small (miScript)

Product Data Sheet

Cat. no. 339325 YAHS-206Z

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-206ZA
C	Applied Biosystems models 7500 (Fast block), 7900HT (Fast block), StepOnePlus™, ViiA 7 (Fast block)	96-well	YAHS-206ZC
D	Bio-Rad CFX96™; Bio-Rad/MJ Research models DNA Engine Opticon®, DNA Engine Opticon 2; Stratagene Mx4000®	96-well	YAHS-206ZD
E	Applied Biosystems® models 7900HT (384-well block), ViiA™ 7 (384-well block); Bio-Rad CFX384™	384-well	YAHS-206ZE
F	Roche® LightCycler® 480 (96-well block)	96-well	YAHS-206ZF
G	Roche® LightCycler® 480 (384-well block)	384-well	YAHS-206ZG

Description

The Human Serum/Plasma Small (miScript) miRCURY LNA™ miRNA Focus PCR Panel profiles the expression of 84 miRNAs detectable and differentially expressed in serum, plasma, and other bodily fluids. This array provides disease and toxicology researchers with a convenient way to quickly analyze the miRNAs most relevant to pathophysiological conditions. These miRNAs have been carefully selected based on results published in peer-reviewed journals that suggest a correlation with serum expression levels and specific diseases. The discovery of these master regulatory molecules in serum and biological fluids, and their apparently regulated levels there, suggest a mechanistic role for miRNA in both normal and pathophysiological processes. Their presence in noninvasive, easily accessible samples provides readily available source material for research purposes. The profiling results from this array can potentially serve as a useful molecular marker for heart and liver injury or disease, atherosclerosis, diabetes, and a number of organ-specific cancers. Other miRNAs routinely present in serum are included to serve as positive controls for the successful detection of serum miRNA expression. This array can also be used with miRNeasy Serum/Plasma Spike-In Control (catalog number 219610). When spiked into the sample before nucleic acid isolation and detected with the control assay, it provides a more useful normalization method for this application than the typical reference short noncoding RNAs not normally detected in serum. 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 found in serum, plasma, and other bodily fluids can be easily and reliably analyzed with this miRCURY LNA™ miRNA Focus PCR Panel.

For further details, consult the *miRCURY LNA™ 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-miR-1-3p	hsa-miR-100-5p	hsa-miR-106b-5p	hsa-miR-10b-5p	hsa-miR-122-5p	hsa-miR-124-3p	hsa-miR-125b-5p	hsa-miR-126-3p	hsa-miR-133a-3p	hsa-miR-133b	hsa-miR-134-5p
B	hsa-miR-141-3p	hsa-miR-143-3p	hsa-miR-146a-5p	hsa-miR-150-5p	hsa-miR-155-5p	hsa-miR-17-5p	hsa-miR-17-3p	hsa-miR-18a-5p	hsa-miR-192-5p	hsa-miR-195-5p	hsa-miR-196a-5p	hsa-miR-19a-3p
C	hsa-miR-19b-3p	hsa-miR-200a-3p	hsa-miR-200b-3p	hsa-miR-200c-3p	hsa-miR-203a-3p	hsa-miR-205-5p	hsa-miR-208a-3p	hsa-miR-20a-5p	hsa-miR-21-5p	hsa-miR-210-3p	hsa-miR-214-3p	hsa-miR-215-5p
D	hsa-miR-221-3p	hsa-miR-222-3p	hsa-miR-223-3p	hsa-miR-224-5p	hsa-miR-23a-3p	hsa-miR-25-3p	hsa-miR-27a-3p	hsa-miR-29a-5p	hsa-miR-29a-3p	hsa-miR-30d-5p	hsa-miR-34a-5p	hsa-miR-375-3p
E	hsa-miR-423-5p	hsa-miR-499a-5p	hsa-miR-574-3p	hsa-miR-885-5p	hsa-miR-9-5p	hsa-miR-92a-3p	hsa-miR-93-5p	hsa-let-7c-5p	hsa-miR-107	hsa-miR-10a-5p	hsa-miR-128-3p	hsa-miR-130b-3p
F	hsa-miR-145-5p	hsa-miR-148a-3p	hsa-miR-15a-5p	hsa-miR-184	hsa-miR-193a-5p	hsa-miR-204-5p	hsa-miR-206	hsa-miR-211-5p	hsa-miR-26b-5p	hsa-miR-30e-5p	hsa-miR-372-3p	hsa-miR-373-3p
G	hsa-miR-374a-5p	hsa-miR-376c-3p	hsa-miR-7-5p	hsa-miR-96-5p	hsa-miR-103a-3p	hsa-miR-15b-5p	hsa-miR-16-5p	hsa-miR-191-5p	hsa-miR-22-3p	hsa-miR-24-3p	hsa-miR-26a-5p	hsa-miR-31-5p
H	cel-miR-39-3p	cel-miR-39-3p	hsa-miR-30c-5p	hsa-miR-103a-3p	hsa-miR-451a	hsa-miR-23a-3p	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-423-5p	MIMAT0004748	YP00205624
A02	hsa-miR-1-3p	MIMAT0000416	YP00204344	E02	hsa-miR-499a-5p	MIMAT0002870	YP00205935
A03	hsa-miR-100-5p	MIMAT0000098	YP00205689	E03	hsa-miR-574-3p	MIMAT0003239	YP00206011
A04	hsa-miR-106b-5p	MIMAT0000680	YP00205884	E04	hsa-miR-885-5p	MIMAT0004947	YP00204473
A05	hsa-miR-10b-5p	MIMAT0000254	YP00205637	E05	hsa-miR-9-5p	MIMAT0000441	YP00204513
A06	hsa-miR-122-5p	MIMAT0000421	YP00205664	E06	hsa-miR-92a-3p	MIMAT0000092	YP00204258
A07	hsa-miR-124-3p	MIMAT0000422	YP00206026	E07	hsa-miR-93-5p	MIMAT0000093	YP00204715
A08	hsa-miR-125b-5p	MIMAT0000423	YP00205713	E08	hsa-let-7c-5p	MIMAT0000064	YP00204767
A09	hsa-miR-126-3p	MIMAT0000445	YP00204227	E09	hsa-miR-107	MIMAT0000104	YP00204468
A10	hsa-miR-133a-3p	MIMAT0000427	YP00204788	E10	hsa-miR-10a-5p	MIMAT0000253	YP00204778
A11	hsa-miR-133b	MIMAT0000770	YP00206058	E11	hsa-miR-128-3p	MIMAT0000424	YP00205995
A12	hsa-miR-134-5p	MIMAT0000447	YP00205989	E12	hsa-miR-130b-3p	MIMAT0000691	YP00204317
B01	hsa-miR-141-3p	MIMAT0000432	YP00204504	F01	hsa-miR-145-5p	MIMAT0000437	YP00204483
B02	hsa-miR-143-3p	MIMAT0000435	YP00205992	F02	hsa-miR-148a-3p	MIMAT0000243	YP00205867
B03	hsa-miR-146a-5p	MIMAT0000449	YP00204688	F03	hsa-miR-15a-5p	MIMAT0000068	YP00204066
B04	hsa-miR-150-5p	MIMAT0000451	YP00204660	F04	hsa-miR-184	MIMAT0000454	YP00204601
B05	hsa-miR-155-5p	MIMAT0000646	YP02119311	F05	hsa-miR-193a-5p	MIMAT0004614	YP00204665
B06	hsa-miR-17-5p	MIMAT0000070	YP02119304	F06	hsa-miR-204-5p	MIMAT0000265	YP00206072
B07	hsa-miR-17-3p	MIMAT0000071	YP00206008	F07	hsa-miR-206	MIMAT0000462	YP00206073
B08	hsa-miR-18a-5p	MIMAT0000072	YP00204207	F08	hsa-miR-211-5p	MIMAT0000268	YP00204009
B09	hsa-miR-192-5p	MIMAT0000222	YP00204099	F09	hsa-miR-26b-5p	MIMAT0000083	YP00204172
B10	hsa-miR-195-5p	MIMAT0000461	YP00205869	F10	hsa-miR-30e-5p	MIMAT0000692	YP00204714
B11	hsa-miR-196a-5p	MIMAT0000226	YP00204386	F11	hsa-miR-372-3p	MIMAT0000724	YP00204137
B12	hsa-miR-19a-3p	MIMAT0000073	YP00205862	F12	hsa-miR-373-3p	MIMAT0000726	YP00204604
C01	hsa-miR-19b-3p	MIMAT0000074	YP00204450	G01	hsa-miR-374a-5p	MIMAT0000727	YP00204758
C02	hsa-miR-200a-3p	MIMAT0000682	YP00204707	G02	hsa-miR-376c-3p	MIMAT0000720	YP00204442
C03	hsa-miR-200b-3p	MIMAT0000318	YP00206071	G03	hsa-miR-7-5p	MIMAT0000252	YP02119317
C04	hsa-miR-200c-3p	MIMAT0000617	YP00204482	G04	hsa-miR-96-5p	MIMAT0000095	YP00204417
C05	hsa-miR-203a-3p	MIMAT0000264	YP00205914	G05	hsa-miR-103a-3p	MIMAT0000101	YP00204063
C06	hsa-miR-205-5p	MIMAT0000266	YP00204487	G06	hsa-miR-15b-5p	MIMAT0000417	YP00204243
C07	hsa-miR-208a-3p	MIMAT0000241	YP00205619	G07	hsa-miR-16-5p	MIMAT0000069	YP00205702
C08	hsa-miR-20a-5p	MIMAT0000075	YP00204292	G08	hsa-miR-191-5p	MIMAT0000440	YP00204306
C09	hsa-miR-21-5p	MIMAT0000076	YP00204230	G09	hsa-miR-22-3p	MIMAT0000077	YP00204606
C10	hsa-miR-210-3p	MIMAT0000267	YP00204333	G10	hsa-miR-24-3p	MIMAT0000080	YP00204260
C11	hsa-miR-214-3p	MIMAT0000271	YP00204510	G11	hsa-miR-26a-5p	MIMAT0000082	YP00206023
C12	hsa-miR-215-5p	MIMAT0000272	YP00204598	G12	hsa-miR-31-5p	MIMAT0000089	YP00204236
D01	hsa-miR-221-3p	MIMAT0000278	YP00204532	H01	cel-miR-39-3p	MIMAT0000010	YP00203952
D02	hsa-miR-222-3p	MIMAT0000279	YP00204551	H02	cel-miR-39-3p	MIMAT0000010	YP00203952
D03	hsa-miR-223-3p	MIMAT0000280	YP00205986	H03	hsa-miR-30c-5p	N/A	YP00204783
D04	hsa-miR-224-5p	MIMAT0000281	YP02119313	H04	hsa-miR-103a-3p	N/A	YP00204063
D05	hsa-miR-23a-3p	MIMAT0000078	YP00204772	H05	hsa-miR-451a	N/A	YP02119305
D06	hsa-miR-25-3p	MIMAT0000081	YP00204361	H06	hsa-miR-23a-3p	N/A	YP00204772
D07	hsa-miR-27a-3p	MIMAT0000084	YP00206038	H07	UniSp2	N/A	YP00203950
D08	hsa-miR-296-5p	MIMAT0000690	YP00204436	H08	UniSp4	N/A	YP00203953
D09	hsa-miR-29a-3p	MIMAT0000086	YP00204698	H09	UniSp5	N/A	YP00203955
D10	hsa-miR-30d-5p	MIMAT0000245	YP00206047	H10	UniSp6	N/A	YP00203954
D11	hsa-miR-34a-5p	MIMAT0000255	YP00204486	H11	UniSP3	N/A	YP02119288
D12	hsa-miR-375-3p	MIMAT0000728	YP00204362	H12	UniSP3	N/A	YP02119288

Functional Groupings

Injury

Heart Injury: hsa-miR-1-3p, hsa-miR-133a-3p, hsa-miR-208a-3p, hsa-miR-423-5p, hsa-miR-499a-5p.

Liver Injury: hsa-miR-122-5p, hsa-miR-192-5p.

Disease

Atherosclerosis: hsa-miR-150-5p.

Diabetes: hsa-miR-124-3p, hsa-miR-146a-5p, hsa-miR-29a-3p, hsa-miR-30d-5p, hsa-miR-34a-5p, hsa-miR-375-3p, hsa-miR-9-5p.

Heart Disease: hsa-miR-133a-3p, hsa-miR-208a-3p.

Liver Disease: hsa-miR-146a-5p, hsa-miR-215-5p, hsa-miR-224-5p, hsa-miR-574-3p, hsa-miR-885-5p, hsa-miR-92a-3p.

Cancer

Adenocarcinoma: hsa-miR-29a-3p, hsa-miR-92a-3p.

Breast Cancer: hsa-let-7a-5p, hsa-miR-10b-5p, hsa-miR-141-3p, hsa-miR-155-5p, hsa-miR-195-5p, hsa-miR-21-5p, hsa-miR-34a-5p.

Colon Cancer: hsa-miR-134-5p, hsa-miR-146a-5p, hsa-miR-17-3p, hsa-miR-221-3p, hsa-miR-222-3p, hsa-miR-23a-3p, hsa-miR-29a-3p, hsa-miR-92a-3p.

Gastric Cancer: hsa-let-7a-5p, hsa-miR-1-3p, hsa-miR-106b-5p, hsa-miR-17-3p, hsa-miR-17-5p, hsa-miR-20a-5p, hsa-miR-21-5p, hsa-miR-27a-3p, hsa-miR-34a-5p, hsa-miR-423-5p.

Leukemia & B Cell Lymphoma: hsa-miR-155-5p, hsa-miR-21-5p, hsa-miR-210-3p.

Liver Cancer: hsa-miR-122-5p, hsa-miR-21-5p, hsa-miR-223-3p.

Lung Cancer: hsa-miR-134-5p, hsa-miR-146a-5p, hsa-miR-17-3p, hsa-miR-21-5p, hsa-miR-210-3p, hsa-miR-221-3p, hsa-miR-222-3p, hsa-miR-223-3p, hsa-miR-23a-3p, hsa-miR-25-3p.

Ovarian Cancer: hsa-miR-126-3p, hsa-miR-141-3p, hsa-miR-200a-3p, hsa-miR-200b-3p, hsa-miR-200c-3p, hsa-miR-203a-3p, hsa-miR-205-5p, hsa-miR-21-5p, hsa-miR-214-3p, hsa-miR-29a-3p, hsa-miR-92a-3p, hsa-miR-93-5p.

Pancreatic Cancer: hsa-miR-196a-5p, hsa-miR-200a-3p, hsa-miR-200b-3p, hsa-miR-21-5p, hsa-miR-210-3p.

Prostate Cancer: hsa-miR-100-5p, hsa-miR-125b-5p, hsa-miR-141-3p, hsa-miR-143-3p, hsa-miR-18a-5p, hsa-miR-19a-3p, hsa-miR-19b-3p, hsa-miR-20a-5p, hsa-miR-21-5p, hsa-miR-296-5p, hsa-miR-375-3p.

Renal Cancer: hsa-miR-124-3p.

Rhabdomyosarcoma: hsa-miR-1-3p, hsa-miR-133a-3p, hsa-miR-133b.

Other Cancer-Related miRNA: hsa-let-7c-5p, hsa-miR-107, hsa-miR-10a-5p, hsa-miR-128-3p, hsa-miR-130b-3p, hsa-miR-145-5p, hsa-miR-148a-3p, hsa-miR-15a-5p, hsa-miR-184, hsa-miR-193a-5p, hsa-miR-204-5p, hsa-miR-206, hsa-miR-211-5p, hsa-miR-26b-5p, hsa-miR-30e-5p, hsa-miR-31-5p, hsa-miR-372-3p, hsa-miR-373-3p, hsa-miR-374a-5p, hsa-miR-376c-3p, hsa-miR-7-5p, hsa-miR-96-5p.

Routinely Detectable in Normal Serum: hsa-miR-103a-3p, hsa-miR-15b-5p, hsa-miR-16-5p, hsa-miR-191-5p, hsa-miR-22-3p, hsa-miR-24-3p, hsa-miR-26a-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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