

miRCURY LNA™ miRNA Focus PCR Panels

Human Liver miFinder Product Data Sheet

Cat. no. 339325 YAHS-216Z

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-216ZA
C	Applied Biosystems models 7500 (Fast block), 7900HT (Fast block), StepOnePlus™, ViiA 7 (Fast block)	96-well	YAHS-216ZC
D	Bio-Rad CFX96™; Bio-Rad/MJ Research models DNA Engine Opticon®, DNA Engine Opticon 2; Stratagene Mx4000®	96-well	YAHS-216ZD
E	Applied Biosystems® models 7900HT (384-well block), ViiA™ 7 (384-well block); Bio-Rad CFX384™	384-well	YAHS-216ZE
F	Roche® LightCycler® 480 (96-well block)	96-well	YAHS-216ZF
G	Roche® LightCycler® 480 (384-well block)	384-well	YAHS-216ZG

Description

The Human Liver miFinder miRCURY LNA™ miRNA Focus PCR Panel profiles the expression of 84 miRNAs abundantly expressed or best characterized in liver tissue. As the number of annotated miRNAs continues to expand, it becomes increasingly important to focus only on those miRNAs expressed in a particular cell line or tissue of interest, as not all miRNAs are expressed in every tissue. Due to this, we have experimentally analyzed the expression of miRNAs identified through miRBase V18 in a pool of human liver samples and correlated the results with scientific literature. Each of these miRNAs can regulate one or more messenger RNA transcripts, and conversely a given mRNA can be regulated by one or more miRNAs. Therefore, although they are well characterized, the complex role played by each miRNA is yet to be completely defined. This array maximizes the likelihood of discovering miRNAs whose expression patterns correlate with the biological phenotypes of liver tissue or hepatic cell lines under study. A set of controls present on each 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 real-time PCR, the expression of a focused panel of miRNAs expressed in liver tissue 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-let-7b-5p	hsa-let-7c-5p	hsa-let-7f-5p	hsa-let-7g-5p	hsa-miR-1-3p	hsa-miR-100-5p	hsa-miR-101-3p	hsa-miR-106b-5p	hsa-miR-107	hsa-miR-122-3p	hsa-miR-122-5p
B	hsa-miR-125a-5p	hsa-miR-125b-5p	hsa-miR-1260a	hsa-miR-126-3p	hsa-miR-126-5p	hsa-miR-142-3p	hsa-miR-142-5p	hsa-miR-143-3p	hsa-miR-145-3p	hsa-miR-145-5p	hsa-miR-146a-5p	hsa-miR-148a-3p
C	hsa-miR-148b-3p	hsa-miR-155-5p	hsa-miR-15a-5p	hsa-miR-16-5p	hsa-miR-17-5p	hsa-miR-192-3p	hsa-miR-192-5p	hsa-miR-194-5p	hsa-miR-195-5p	hsa-miR-199a-3p	hsa-miR-199a-5p	hsa-miR-199a-3p
D	hsa-miR-19b-3p	hsa-miR-200b-3p	hsa-miR-20a-5p	hsa-miR-214-3p	hsa-miR-21-5p	hsa-miR-221-3p	hsa-miR-222-3p	hsa-miR-223-3p	hsa-miR-22-3p	hsa-miR-224-5p	hsa-miR-22-5p	hsa-miR-23a-3p
E	hsa-miR-23b-3p	hsa-miR-24-3p	hsa-miR-26a-5p	hsa-miR-26b-5p	hsa-miR-27a-3p	hsa-miR-27b-3p	hsa-miR-29a-3p	hsa-miR-29a-5p	hsa-miR-29b-3p	hsa-miR-29c-3p	hsa-miR-30a-5p	hsa-miR-30b-5p
F	hsa-miR-30c-5p	hsa-miR-30d-5p	hsa-miR-30e-5p	hsa-miR-3183	hsa-miR-34a-3p	hsa-miR-34a-5p	hsa-miR-424-5p	hsa-miR-151a-5p	hsa-miR-3663-3p	hsa-miR-375-3p	hsa-miR-3907	hsa-miR-4286
G	hsa-miR-4291	hsa-miR-4301	hsa-miR-4454	hsa-miR-4516	hsa-miR-451a	hsa-miR-5100	hsa-miR-5701	hsa-miR-664b-3p	hsa-miR-92a-3p	hsa-miR-93-5p	hsa-miR-940	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-23b-3p	MIMAT0000418	YP02119314
A02	hsa-let-7b-5p	MIMAT0000063	YP00204750	E02	hsa-miR-24-3p	MIMAT0000080	YP00204260
A03	hsa-let-7c-5p	MIMAT0000064	YP00204767	E03	hsa-miR-26a-5p	MIMAT0000082	YP00206023
A04	hsa-let-7f-5p	MIMAT0000067	YP00204359	E04	hsa-miR-26b-5p	MIMAT0000083	YP00204172
A05	hsa-let-7g-5p	MIMAT0000414	YP00204565	E05	hsa-miR-27a-3p	MIMAT0000084	YP00206038
A06	hsa-miR-1-3p	MIMAT0000416	YP00204344	E06	hsa-miR-27b-3p	MIMAT0000419	YP00205915
A07	hsa-miR-100-5p	MIMAT0000098	YP00205689	E07	hsa-miR-29a-3p	MIMAT0000086	YP00204698
A08	hsa-miR-101-3p	MIMAT0000099	YP00204786	E08	hsa-miR-29a-5p	MIMAT0004503	YP00204430
A09	hsa-miR-106b-5p	MIMAT0000680	YP00205884	E09	hsa-miR-29b-3p	MIMAT0000100	YP00204679
A10	hsa-miR-107	MIMAT0000104	YP00204468	E10	hsa-miR-29c-3p	MIMAT0000681	YP00204729
A11	hsa-miR-122-3p	MIMAT0004590	YP00204437	E11	hsa-miR-30a-5p	MIMAT0000087	YP00205695
A12	hsa-miR-122-5p	MIMAT0000421	YP00205664	E12	hsa-miR-30b-5p	MIMAT0000420	YP00204765
B01	hsa-miR-125a-5p	MIMAT0000443	YP00204339	F01	hsa-miR-30c-5p	MIMAT0000244	YP00204783
B02	hsa-miR-125b-5p	MIMAT0000423	YP00205713	F02	hsa-miR-30d-5p	MIMAT0000245	YP00206047
B03	hsa-miR-1260a	MIMAT0005911	YP00205892	F03	hsa-miR-30e-5p	MIMAT0000692	YP00204714
B04	hsa-miR-126-3p	MIMAT0000445	YP00204227	F04	hsa-miR-3183	MIMAT0015063	YP02109689
B05	hsa-miR-126-5p	MIMAT0000444	YP00206010	F05	hsa-miR-34a-3p	MIMAT0004557	YP00206061
B06	hsa-miR-142-3p	MIMAT0000434	YP00204291	F06	hsa-miR-34a-5p	MIMAT0000255	YP00204486
B07	hsa-miR-142-5p	MIMAT0000433	YP00204722	F07	hsa-miR-424-5p	MIMAT0001341	YP00204736
B08	hsa-miR-143-3p	MIMAT0000435	YP00205992	F08	hsa-miR-151a-5p	MIMAT0004697	YP00204007
B09	hsa-miR-145-3p	MIMAT0004601	YP00204192	F09	hsa-miR-3663-3p	MIMAT0018085	YP02119418
B10	hsa-miR-145-5p	MIMAT0000437	YP00204483	F10	hsa-miR-375-3p	MIMAT0000728	YP00204362
B11	hsa-miR-146a-5p	MIMAT0000449	YP00204688	F11	hsa-miR-3907	MIMAT0018179	YP02118102
B12	hsa-miR-148a-3p	MIMAT0000243	YP00205867	F12	hsa-miR-4286	MIMAT0016916	YP02112356
C01	hsa-miR-148b-3p	MIMAT0000759	YP00204047	G01	hsa-miR-4291	MIMAT0016922	YP02115206
C02	hsa-miR-155-5p	MIMAT0000646	YP02119311	G02	hsa-miR-4301	MIMAT0016850	YP02116818
C03	hsa-miR-15a-5p	MIMAT0000068	YP00204066	G03	hsa-miR-4454	MIMAT0018976	YP02114119
C04	hsa-miR-16-5p	MIMAT0000069	YP00205702	G04	hsa-miR-4516	MIMAT0019053	YP02112882
C05	hsa-miR-17-5p	MIMAT0000070	YP02119304	G05	hsa-miR-451a	MIMAT0001631	YP02119305
C06	hsa-miR-192-3p	MIMAT0004543	YP00204272	G06	hsa-miR-5100	MIMAT0022259	YP02112520
C07	hsa-miR-192-5p	MIMAT0000222	YP00204099	G07	hsa-miR-5701	MIMAT0022494	YP02106962
C08	hsa-miR-194-5p	MIMAT0000460	YP00204080	G08	hsa-miR-664b-3p	MIMAT0022272	YP02111078
C09	hsa-miR-195-5p	MIMAT0000461	YP00205869	G09	hsa-miR-92a-3p	MIMAT0000092	YP00204258
C10	hsa-miR-199a-3p	MIMAT0000232	YP00204536	G10	hsa-miR-93-5p	MIMAT0000093	YP00204715
C11	hsa-miR-199a-5p	MIMAT0000231	YP00204494	G11	hsa-miR-940	MIMAT0004983	YP00204094
C12	hsa-miR-19a-3p	MIMAT0000073	YP00205862	G12	hsa-miR-99a-5p	MIMAT0000097	YP00204521
D01	hsa-miR-19b-3p	MIMAT0000074	YP00204450	H01	cel-miR-39-3p	MIMAT0000010	YP00203952
D02	hsa-miR-200b-3p	MIMAT0000318	YP00206071	H02	cel-miR-39-3p	MIMAT0000010	YP00203952
D03	hsa-miR-20a-5p	MIMAT0000075	YP00204292	H03	SNORD44 (hsa)	N/A	YP00203902
D04	hsa-miR-214-3p	MIMAT0000271	YP00204510	H04	SNORD388 (hsa)	N/A	YP00203901
D05	hsa-miR-21-5p	MIMAT0000076	YP00204230	H05	SNORD49A (hsa)	N/A	YP00203904
D06	hsa-miR-221-3p	MIMAT0000278	YP00204532	H06	U6 snRNA (v2)	N/A	YP02119464
D07	hsa-miR-222-3p	MIMAT0000279	YP00204551	H07	UniSp2	N/A	YP00203950
D08	hsa-miR-223-3p	MIMAT0000280	YP00205986	H08	UniSp4	N/A	YP00203953
D09	hsa-miR-22-3p	MIMAT0000077	YP00204606	H09	UniSp5	N/A	YP00203955
D10	hsa-miR-224-5p	MIMAT0000281	YP02119313	H10	UniSp6	N/A	YP00203954
D11	hsa-miR-22-5p	MIMAT0004495	YP00204255	H11	UniSP3	N/A	YP02119288
D12	hsa-miR-23a-3p	MIMAT0000078	YP00204772	H12	UniSP3	N/A	YP02119288

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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