

# miRCURY LNA™ miRNA Focus PCR Panels

## Mouse Liver miFinder Product Data Sheet

Cat. no. 339325 YAMM-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	YAMM-216ZA
C	Applied Biosystems models 7500 (Fast block), 7900HT (Fast block), StepOnePlus™, ViiA 7 (Fast block)	96-well	YAMM-216ZC
D	Bio-Rad CFX96™; Bio-Rad/MJ Research models DNA Engine Opticon®, DNA Engine Opticon 2; Stratagene Mx4000®	96-well	YAMM-216ZD
E	Applied Biosystems® models 7900HT (384-well block), ViiA™ 7 (384-well block); Bio-Rad CFX384™	384-well	YAMM-216ZE
F	Roche® LightCycler® 480 (96-well block)	96-well	YAMM-216ZF
G	Roche® LightCycler® 480 (384-well block)	384-well	YAMM-216ZG

### Description

The Mouse 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	mmu-let-7a-5p	mmu-let-7b-5p	mmu-let-7c-5p	mmu-let-7f-5p	mmu-let-7g-5p	mmu-let-7i-5p	mmu-miR-100-5p	mmu-miR-101a-3p	mmu-miR-103-3p	mmu-miR-106b-5p	mmu-miR-107-3p	mmu-miR-122-5p
B	mmu-miR-125a-5p	mmu-miR-125b-5p	mmu-miR-126a-3p	mmu-miR-126a-5p	mmu-miR-130a-3p	mmu-miR-139-5p	mmu-miR-142a-3p	mmu-miR-142a-5p	mmu-miR-143-3p	mmu-miR-145a-5p	mmu-miR-146a-5p	mmu-miR-148a-3p
C	mmu-miR-148b-3p	mmu-miR-150-5p	mmu-miR-151-5p	mmu-miR-152-3p	mmu-miR-15a-5p	mmu-miR-15b-5p	mmu-miR-16-5p	mmu-miR-17-5p	mmu-miR-181b-5p	mmu-miR-186-5p	mmu-miR-191-5p	mmu-miR-192-3p
D	mmu-miR-192-5p	mmu-miR-194-5p	mmu-miR-195a-5p	mmu-miR-199a-3p	mmu-miR-199a-5p	mmu-miR-19a-3p	mmu-miR-19b-3p	mmu-miR-1a-3p	mmu-miR-200b-3p	mmu-miR-20a-5p	mmu-miR-20b-5p	mmu-miR-214-3p
E	mmu-miR-21a-5p	mmu-miR-221-3p	mmu-miR-222-3p	mmu-miR-223-3p	mmu-miR-22-3p	mmu-miR-22-5p	mmu-miR-23a-3p	mmu-miR-23b-3p	mmu-miR-24-3p	mmu-miR-25-3p	mmu-miR-26a-5p	mmu-miR-26b-5p
F	mmu-miR-27a-3p	mmu-miR-27b-3p	mmu-miR-29a-3p	mmu-miR-29a-5p	mmu-miR-29b-3p	mmu-miR-29c-3p	mmu-miR-30a-5p	mmu-miR-30b-5p	mmu-miR-30c-5p	mmu-miR-30d-5p	mmu-miR-30e-3p	mmu-miR-30e-5p
G	mmu-miR-322-5p	mmu-miR-34a-5p	mmu-miR-365-3p	mmu-miR-370-3p	mmu-miR-374b-5p	mmu-miR-375-3p	mmu-miR-378a-3p	mmu-miR-451a	mmu-miR-497a-5p	mmu-miR-92a-3p	mmu-miR-93-5p	mmu-miR-99a-5p
H	cel-miR-39-3p	cel-miR-39-3p	U6 snRNA [v2]	5S rRNA	RNU5G	RNU1A1	UniSp2	UniSp4	UniSp5	UniSp6	UniSp3	UniSp3

## miRNA Table

Well	miRNA ID	Accession #	Assay Catalog #	Well	miRNA ID	Accession #	Assay Catalog #
A01	mmu-let-7a-5p	MIMAT0000062	YP00205727	E01	mmu-miR-21a-5p	MIMAT0000076	YP00204230
A02	mmu-let-7b-5p	MIMAT0000063	YP00204750	E02	mmu-miR-221-3p	MIMAT0000278	YP00204532
A03	mmu-let-7c-5p	MIMAT0000064	YP00204767	E03	mmu-miR-222-3p	MIMAT0000670	YP02119325
A04	mmu-let-7f-5p	MIMAT0000067	YP00204359	E04	mmu-miR-223-3p	MIMAT0000280	YP00205986
A05	mmu-let-7g-5p	MIMAT0000414	YP00204565	E05	mmu-miR-22-3p	MIMAT0000077	YP00204606
A06	mmu-let-7i-5p	MIMAT0000415	YP00204394	E06	mmu-miR-22-5p	MIMAT0004495	YP00204255
A07	mmu-miR-100-5p	MIMAT0000098	YP00205689	E07	mmu-miR-23a-3p	MIMAT0000078	YP00204772
A08	mmu-miR-101a-3p	MIMAT0000099	YP00204786	E08	mmu-miR-23b-3p	MIMAT0000125	YP02119756
A09	mmu-miR-103-3p	MIMAT0000101	YP00204063	E09	mmu-miR-24-3p	MIMAT0000080	YP00204260
A10	mmu-miR-106b-5p	MIMAT0000680	YP00205884	E10	mmu-miR-25-3p	MIMAT0000081	YP00204361
A11	mmu-miR-107-3p	MIMAT0000104	YP00204468	E11	mmu-miR-26a-5p	MIMAT0000082	YP00206023
A12	mmu-miR-122-5p	MIMAT0000421	YP00205664	E12	mmu-miR-26b-5p	MIMAT0000083	YP00204172
B01	mmu-miR-125a-5p	MIMAT0000443	YP00204339	F01	mmu-miR-27a-3p	MIMAT0000084	YP00206038
B02	mmu-miR-125b-5p	MIMAT0000423	YP00205713	F02	mmu-miR-27b-3p	MIMAT0000419	YP00205915
B03	mmu-miR-126a-3p	MIMAT0000445	YP00204227	F03	mmu-miR-29a-3p	MIMAT0000086	YP00204698
B04	mmu-miR-126a-5p	MIMAT0000444	YP00206010	F04	mmu-miR-29a-5p	MIMAT0004503	YP00204430
B05	mmu-miR-130a-3p	MIMAT0000425	YP00204658	F05	mmu-miR-29b-3p	MIMAT0000100	YP00204679
B06	mmu-miR-139-5p	MIMAT0000656	YP00204037	F06	mmu-miR-29c-3p	MIMAT0000681	YP00204729
B07	mmu-miR-142a-3p	MIMAT0000434	YP00204291	F07	mmu-miR-30a-5p	MIMAT0000087	YP00205695
B08	mmu-miR-142a-5p	MIMAT0000433	YP00204722	F08	mmu-miR-30b-5p	MIMAT0000420	YP00204765
B09	mmu-miR-143-3p	MIMAT0000435	YP00205992	F09	mmu-miR-30c-5p	MIMAT0000244	YP00204783
B10	mmu-miR-145a-5p	MIMAT0000437	YP00204483	F10	mmu-miR-30d-5p	MIMAT0000245	YP00206047
B11	mmu-miR-146a-5p	MIMAT0000449	YP00204688	F11	mmu-miR-30e-3p	MIMAT0000693	YP00204410
B12	mmu-miR-148a-3p	MIMAT0000243	YP00205867	F12	mmu-miR-30e-5p	MIMAT0000692	YP00204714
C01	mmu-miR-148b-3p	MIMAT0000759	YP00204047	G01	mmu-miR-322-5p	MIMAT0000548	YP00205182
C02	mmu-miR-150-5p	MIMAT0000451	YP00204660	G02	mmu-miR-34a-5p	MIMAT0000255	YP00204486
C03	mmu-miR-151-5p	MIMAT0004697	YP00204007	G03	mmu-miR-365-3p	MIMAT0000710	YP00204622
C04	mmu-miR-152-3p	MIMAT0000438	YP00204294	G04	mmu-miR-370-3p	MIMAT0000722	YP00204011
C05	mmu-miR-15a-5p	MIMAT0000068	YP00204066	G05	mmu-miR-374b-5p	MIMAT0004955	YP00204608
C06	mmu-miR-15b-5p	MIMAT0000417	YP00204243	G06	mmu-miR-375-3p	MIMAT0000728	YP00204362
C07	mmu-miR-16-5p	MIMAT0000069	YP00205702	G07	mmu-miR-378a-3p	MIMAT0003151	YP00204179
C08	mmu-miR-17-5p	MIMAT0000070	YP02119304	G08	mmu-miR-451a	MIMAT0001631	YP02119305
C09	mmu-miR-181b-5p	MIMAT0000673	YP02119324	G09	mmu-miR-497a-5p	MIMAT0003453	YP00205164
C10	mmu-miR-186-5p	MIMAT0000456	YP00206053	G10	mmu-miR-92a-3p	MIMAT0000539	YP00205947
C11	mmu-miR-191-5p	MIMAT0000440	YP00204306	G11	mmu-miR-93-5p	MIMAT0000093	YP00204715
C12	mmu-miR-192-3p	MIMAT0004543	YP00204272	G12	mmu-miR-99a-5p	MIMAT0000097	YP00204521
D01	mmu-miR-192-5p	MIMAT0000222	YP00204099	H01	cel-miR-39-3p	MIMAT0000010	YP00203952
D02	mmu-miR-194-5p	MIMAT0000460	YP00204080	H02	cel-miR-39-3p	MIMAT0000010	YP00203952
D03	mmu-miR-195a-5p	MIMAT0000461	YP00205869	H03	U6 snRNA (v2)	N/A	YP02119464
D04	mmu-miR-199a-3p	MIMAT0000232	YP00204536	H04	5S rRNA	N/A	YP00203906
D05	mmu-miR-199a-5p	MIMAT0000231	YP00204494	H05	RNU5G	N/A	YP00203908
D06	mmu-miR-19a-3p	MIMAT0000073	YP00205862	H06	RNU1A1	N/A	YP00203909
D07	mmu-miR-19b-3p	MIMAT0000074	YP00204450	H07	UniSp2	N/A	YP00203950
D08	mmu-miR-1a-3p	MIMAT0000416	YP00204344	H08	UniSp4	N/A	YP00203953
D09	mmu-miR-200b-3p	MIMAT0000318	YP00206071	H09	UniSp5	N/A	YP00203955
D10	mmu-miR-20a-5p	MIMAT0000075	YP00204292	H10	UniSp6	N/A	YP00203954
D11	mmu-miR-20b-5p	MIMAT0001413	YP00204755	H11	UniSP3	N/A	YP02119288
D12	mmu-miR-214-3p	MIMAT0000271	YP00204510	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

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## 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](http://www.qiagen.com/safety)** where you can find, view and print the SDS for each QIAGEN kit and kit component.

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