

miRCURY LNA™ miRNA Focus PCR Panels

Mouse miFinder V2 Product Data Sheet

Cat. no. 339325 YAMM-202Y

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-202YA
C	Applied Biosystems models 7500 (Fast block), 7900HT (Fast block), StepOnePlus™, ViiA 7 (Fast block)	96-well	YAMM-202YC
D	Bio-Rad CFX96™; Bio-Rad/MJ Research models DNA Engine Opticon®, DNA Engine Opticon 2; Stratagene Mx4000®	96-well	YAMM-202YD
E	Applied Biosystems® models 7900HT (384-well block), ViiA™ 7 (384-well block); Bio-Rad CFX384™	384-well	YAMM-202YE
F	Roche® LightCycler® 480 (96-well block)	96-well	YAMM-202YF
G	Roche® LightCycler® 480 (384-well block)	384-well	YAMM-202YG

Description

The Mouse miFinder V2 miRCURY LNA™ miRNA Focus PCR Panel profiles the expression of the 84 most abundantly expressed and best characterized miRNAs in miRBase (www.miRBase.org). 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 under study. 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 84 highly researched miRNAs 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-miR-142a-5p	mmu-miR-16-5p	mmu-miR-142a-3p	mmu-miR-21a-5p	mmu-miR-124-3p	mmu-miR-126a-3p	mmu-miR-15a-5p	mmu-miR-29b-3p	mmu-miR-9-5p	mmu-let-7c-5p	mmu-miR-24-3p	mmu-miR-27a-3p
B	mmu-miR-30e-5p	mmu-miR-22-3p	mmu-miR-30a-5p	mmu-let-7a-5p	mmu-miR-30d-5p	mmu-miR-140-5p	mmu-let-7f-5p	mmu-miR-155-5p	mmu-miR-130a-3p	mmu-let-7b-5p	mmu-miR-322-5p	mmu-miR-17-5p
C	mmu-miR-27b-3p	mmu-miR-125b-5p	mmu-miR-29a-3p	mmu-miR-872-5p	mmu-miR-322-5p	mmu-miR-19b-3p	mmu-miR-191-5p	mmu-miR-126a-5p	mmu-miR-93-5p	mmu-miR-146a-5p	mmu-miR-196b-5p	mmu-let-7f-5p
D	mmu-miR-20a-5p	mmu-miR-18a-5p	mmu-miR-28a-5p	mmu-miR-23b-3p	mmu-miR-150-5p	mmu-miR-92a-3p	mmu-miR-10a-5p	mmu-let-7d-5p	mmu-miR-196a-5p	mmu-miR-23a-3p	mmu-miR-106b-5p	mmu-miR-34c-5p
E	mmu-miR-503-5p	mmu-miR-25-3p	mmu-let-7g-5p	mmu-miR-96-5p	mmu-miR-31-5p	mmu-miR-30c-5p	mmu-miR-15b-5p	mmu-miR-10b-5p	mmu-miR-144-3p	mmu-miR-467e-5p	mmu-miR-125a-5p	mmu-miR-99a-5p
F	mmu-miR-880-3p	mmu-miR-19a-3p	mmu-miR-199a-5p	mmu-miR-488-3p	mmu-miR-182-5p	mmu-miR-291a-3p	mmu-miR-186-5p	mmu-miR-541-5p	mmu-miR-302d-3p	mmu-miR-183-5p	mmu-let-7e-5p	mmu-miR-376c-3p
G	mmu-miR-411-5p	mmu-miR-295-3p	mmu-miR-1a-3p	mmu-miR-214-3p	mmu-miR-138-5p	mmu-miR-425-5p	mmu-miR-182	mmu-miR-335-5p	mmu-miR-101a-3p	mmu-miR-141-3p	mmu-miR-744-5p	mmu-miR-467c-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-miR-142a-5p	MIMAT0000433	YP00204722	E01	mmu-miR-503-5p	MIMAT0003188	YP00205094
A02	mmu-miR-16-5p	MIMAT0000069	YP00205702	E02	mmu-miR-25-3p	MIMAT0000081	YP00204361
A03	mmu-miR-142a-3p	MIMAT0000434	YP00204291	E03	mmu-let-7g-5p	MIMAT0000414	YP00204565
A04	mmu-miR-21a-5p	MIMAT0000076	YP00204230	E04	mmu-miR-96-5p	MIMAT0000095	YP00204417
A05	mmu-miR-124-3p	MIMAT0000134	YP02119832	E05	mmu-miR-31-5p	MIMAT0000538	YP00205159
A06	mmu-miR-126a-3p	MIMAT0000445	YP00204227	E06	mmu-miR-30c-5p	MIMAT0000244	YP00204783
A07	mmu-miR-15a-5p	MIMAT0000068	YP00204066	E07	mmu-miR-15b-5p	MIMAT0000417	YP00204243
A08	mmu-miR-29b-3p	MIMAT0000100	YP00204679	E08	mmu-miR-10b-5p	MIMAT0000254	YP00205637
A09	mmu-miR-9-5p	MIMAT0000441	YP00204513	E09	mmu-miR-144-3p	MIMAT0000436	YP00204754
A10	mmu-let-7c-5p	MIMAT0000064	YP00204767	E10	mmu-miR-467e-5p	MIMAT00005293	YP00205213
A11	mmu-miR-24-3p	MIMAT0000080	YP00204260	E11	mmu-miR-125a-5p	MIMAT0000443	YP00204339
A12	mmu-miR-27a-3p	MIMAT0000084	YP00206038	E12	mmu-miR-99a-5p	MIMAT0000097	YP00204521
B01	mmu-miR-30e-5p	MIMAT0000692	YP00204714	F01	mmu-miR-880-3p	MIMAT0004844	YP00205487
B02	mmu-miR-22-3p	MIMAT0000077	YP00204606	F02	mmu-miR-19a-3p	MIMAT0000073	YP00205862
B03	mmu-miR-30a-5p	MIMAT0000087	YP00205695	F03	mmu-miR-199a-5p	MIMAT0000231	YP00204494
B04	mmu-let-7a-5p	MIMAT0000062	YP00205727	F04	mmu-miR-488-3p	MIMAT0003450	YP00205035
B05	mmu-miR-30d-5p	MIMAT0000245	YP00206047	F05	mmu-miR-182-5p	MIMAT0000211	YP00205089
B06	mmu-miR-140-5p	MIMAT0000431	YP00204540	F06	mmu-miR-291a-3p	MIMAT0000368	YP00205060
B07	mmu-let-7f-5p	MIMAT0000067	YP00204359	F07	mmu-miR-186-5p	MIMAT0000456	YP00206053
B08	mmu-miR-155-5p	MIMAT0000165	YP02119303	F08	mmu-miR-541-5p	MIMAT0003170	YP00205725
B09	mmu-miR-130a-3p	MIMAT0000425	YP00204658	F09	mmu-miR-302d-3p	MIMAT0000718	YP00204311
B10	mmu-let-7b-5p	MIMAT0000063	YP00204750	F10	mmu-miR-183-5p	MIMAT0000261	YP00206030
B11	mmu-miR-322-5p	MIMAT0000548	YP00205182	F11	mmu-let-7e-5p	MIMAT0000066	YP00205711
B12	mmu-miR-17-5p	MIMAT0000070	YP02119304	F12	mmu-miR-376c-3p	MIMAT0003183	YP00204304
C01	mmu-miR-27b-3p	MIMAT0000419	YP00205915	G01	mmu-miR-411-5p	MIMAT0003329	YP00204531
C02	mmu-miR-125b-5p	MIMAT0000423	YP00205713	G02	mmu-miR-295-3p	MIMAT0000373	YP00205078
C03	mmu-miR-29a-3p	MIMAT0000086	YP00204698	G03	mmu-miR-1a-3p	MIMAT0000416	YP00204344
C04	mmu-miR-872-5p	MIMAT0004934	YP00205481	G04	mmu-miR-214-3p	MIMAT0000271	YP00204510
C05	mmu-miR-322-5p	MIMAT0000548	YP00204792	G05	mmu-miR-138-5p	MIMAT0000430	YP00206078
C06	mmu-miR-19b-3p	MIMAT0000074	YP00204450	G06	mmu-miR-425-5p	MIMAT0003393	YP00204337
C07	mmu-miR-191-5p	MIMAT0000440	YP00204306	G07	mmu-miR-182-5p	MIMAT0000211	YP00206034
C08	mmu-miR-126a-5p	MIMAT0000444	YP00206010	G08	mmu-miR-335-5p	MIMAT0000765	YP02119293
C09	mmu-miR-93-5p	MIMAT0000093	YP00204715	G09	mmu-miR-101a-3p	MIMAT0000099	YP00204786
C10	mmu-miR-146a-5p	MIMAT0000449	YP00204688	G10	mmu-miR-141-3p	MIMAT0000432	YP00204504
C11	mmu-miR-196b-5p	MIMAT0001080	YP00204555	G11	mmu-miR-744-5p	MIMAT0004945	YP00204663
C12	mmu-let-7i-5p	MIMAT0000415	YP00204394	G12	mmu-miR-467c-5p	MIMAT0004885	YP00205439
D01	mmu-miR-20a-5p	MIMAT0000075	YP00204292	H01	cel-miR-39-3p	MIMAT0000010	YP00203952
D02	mmu-miR-18a-5p	MIMAT0000072	YP00204207	H02	cel-miR-39-3p	MIMAT0000010	YP00203952
D03	mmu-miR-28a-5p	MIMAT0000085	YP00204322	H03	U6 snRNA (v2)	N/A	YP02119464
D04	mmu-miR-23b-3p	MIMAT0000125	YP02119756	H04	5S rRNA	N/A	YP00203906
D05	mmu-miR-150-5p	MIMAT0000451	YP00204660	H05	RNU5G	N/A	YP00203908
D06	mmu-miR-92a-3p	MIMAT0000539	YP00205947	H06	RNU1A1	N/A	YP00203909
D07	mmu-miR-10a-5p	MIMAT0000253	YP00204778	H07	UniSp2	N/A	YP00203950
D08	mmu-let-7d-5p	MIMAT0000065	YP00204124	H08	UniSp4	N/A	YP00203953
D09	mmu-miR-196a-5p	MIMAT0000226	YP00204386	H09	UniSp5	N/A	YP00203955
D10	mmu-miR-23a-3p	MIMAT0000078	YP00204772	H10	UniSp6	N/A	YP00203954
D11	mmu-miR-106b-5p	MIMAT0000680	YP00205884	H11	UniSP3	N/A	YP02119288
D12	mmu-miR-34c-5p	MIMAT0000686	YP00205659	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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