

miRCURY LNA™ miRNA Focus PCR Panels

Rat miFinder Product Data Sheet

Cat. no. 339325 YARN-201Z

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	YARN-201ZA
C	Applied Biosystems models 7500 (Fast block), 7900HT (Fast block), StepOnePlus™, ViiA 7 (Fast block)	96-well	YARN-201ZC
D	Bio-Rad CFX96™; Bio-Rad/MJ Research models DNA Engine Opticon®, DNA Engine Opticon 2; Stratagene Mx4000®	96-well	YARN-201ZD
E	Applied Biosystems® models 7900HT (384-well block), ViiA™ 7 (384-well block); Bio-Rad CFX384™	384-well	YARN-201ZE
F	Roche® LightCycler® 480 (96-well block)	96-well	YARN-201ZF
G	Roche® LightCycler® 480 (384-well block)	384-well	YARN-201ZG

Description

The Rat miFinder 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	rno-miR-142-5p	rno-miR-16-5p	rno-miR-142-3p	rno-miR-21-5p	rno-miR-29b-3p	rno-let-7a-5p	rno-miR-126a-3p	rno-miR-143-3p	rno-let-7b-5p	rno-miR-27a-3p	rno-let-7f-5p	rno-miR-9a-5p
B	rno-miR-26a-5p	rno-miR-24-3p	rno-miR-30e-5p	rno-miR-181a-5p	rno-miR-29a-3p	rno-miR-124-3p	rno-miR-144-3p	rno-miR-30d-5p	rno-miR-19b-3p	rno-miR-22-3p	rno-miR-122-5p	rno-miR-150-5p
C	rno-miR-32-5p	rno-miR-140-5p	rno-miR-141-3p	rno-miR-92a-3p	rno-miR-322-5p	rno-miR-191a-5p	rno-miR-17-5p	rno-miR-130a-3p	rno-miR-20a-5p	rno-miR-27b-3p	rno-miR-26b-5p	rno-miR-146a-5p
D	rno-miR-200c-3p	rno-miR-99a-5p	rno-miR-19a-3p	rno-miR-23a-3p	rno-miR-30a-5p	rno-let-7f-5p	rno-miR-93-5p	rno-let-7c-5p	rno-miR-106b-5p	rno-miR-101a-3p	rno-miR-425-5p	rno-miR-15b-5p
E	rno-miR-28-5p	rno-miR-18a-5p	rno-miR-25-3p	rno-miR-23b-3p	rno-miR-186-5p	rno-miR-29c-3p	rno-miR-7a-5p	rno-let-7d-5p	rno-miR-30c-5p	rno-miR-181b-5p	rno-miR-223-3p	rno-miR-320-3p
F	rno-miR-374-5p	rno-let-7e-5p	rno-miR-151-5p	rno-miR-196b-5p	rno-miR-140-3p	rno-miR-100-5p	rno-miR-103-3p	rno-miR-96-5p	rno-miR-194-5p	rno-miR-125a-5p	rno-miR-423-3p	rno-miR-376c-3p
G	rno-miR-195-5p	rno-miR-222-3p	rno-miR-128-3p	rno-miR-185-5p	rno-miR-210-3p	rno-miR-375-3p	rno-miR-182	rno-miR-196a-5p	rno-miR-324-5p	rno-miR-137-3p	rno-miR-378a-3p	rno-miR-342-3p
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	rno-miR-142-5p	MIMAT0000433	YP00204722	E01	rno-miR-28-5p	MIMAT0000085	YP00204322
A02	rno-miR-16-5p	MIMAT0000069	YP00205702	E02	rno-miR-18a-5p	MIMAT0000072	YP00204207
A03	rno-miR-142-3p	MIMAT0000434	YP00204291	E03	rno-miR-25-3p	MIMAT0000081	YP00204361
A04	rno-miR-21-5p	MIMAT0000076	YP00204230	E04	rno-miR-23b-3p	MIMAT0000125	YP02119756
A05	rno-miR-29b-3p	MIMAT0000100	YP00204679	E05	rno-miR-186-5p	MIMAT0000456	YP00206053
A06	rno-let-7a-5p	MIMAT0000062	YP00205727	E06	rno-miR-29c-3p	MIMAT0000681	YP00204729
A07	rno-miR-126a-3p	MIMAT0000445	YP00204227	E07	rno-miR-7a-5p	MIMAT0000677	YP02119694
A08	rno-miR-143-3p	MIMAT0000849	YP00205106	E08	rno-let-7d-5p	MIMAT0000065	YP00204124
A09	rno-let-7b-5p	MIMAT0000063	YP00204750	E09	rno-miR-30c-5p	MIMAT0000244	YP00204783
A10	rno-miR-27a-3p	MIMAT0000084	YP00206038	E10	rno-miR-181b-5p	MIMAT0000257	YP00204530
A11	rno-let-7f-5p	MIMAT0000067	YP00204359	E11	rno-miR-223-3p	MIMAT0000892	YP00205120
A12	rno-miR-9a-5p	MIMAT0000441	YP00204513	E12	rno-miR-320-3p	MIMAT0000510	YP00206042
B01	rno-miR-26a-5p	MIMAT0000082	YP00206023	F01	rno-miR-374-5p	MIMAT0004955	YP00204608
B02	rno-miR-24-3p	MIMAT0000080	YP00204260	F02	rno-let-7e-5p	MIMAT0000066	YP00205711
B03	rno-miR-30e-5p	MIMAT0000692	YP00204714	F03	rno-miR-151-5p	MIMAT0004697	YP00204007
B04	rno-miR-181a-5p	MIMAT0000256	YP00206081	F04	rno-miR-196b-5p	MIMAT0001080	YP00204555
B05	rno-miR-29a-3p	MIMAT0000086	YP00204698	F05	rno-miR-140-3p	MIMAT0004597	YP00204304
B06	rno-miR-124-3p	MIMAT0000134	YP02119832	F06	rno-miR-100-5p	MIMAT0000098	YP00205689
B07	rno-miR-144-3p	MIMAT0000436	YP00204754	F07	rno-miR-103-3p	MIMAT0000101	YP00204063
B08	rno-miR-30d-5p	MIMAT0000245	YP00206047	F08	rno-miR-96-5p	MIMAT0000095	YP00204417
B09	rno-miR-19b-3p	MIMAT0000074	YP00204450	F09	rno-miR-194-5p	MIMAT0000460	YP00204080
B10	rno-miR-22-3p	MIMAT0000077	YP00204606	F10	rno-miR-125a-5p	MIMAT0000443	YP00204339
B11	rno-miR-122-5p	MIMAT0000421	YP00205664	F11	rno-miR-423-3p	MIMAT0001340	YP00204488
B12	rno-miR-150-5p	MIMAT0000451	YP00204660	F12	rno-miR-376c-3p	MIMAT0003183	YP00205987
C01	rno-miR-32-5p	MIMAT0000090	YP00204792	G01	rno-miR-195-5p	MIMAT0000461	YP00205869
C02	rno-miR-140-5p	MIMAT0000431	YP00204540	G02	rno-miR-222-3p	MIMAT0000279	YP00204551
C03	rno-miR-141-3p	MIMAT0000432	YP00204504	G03	rno-miR-128-3p	MIMAT0000424	YP00205995
C04	rno-miR-92a-3p	MIMAT0000539	YP00205947	G04	rno-miR-185-5p	MIMAT0000455	YP00206037
C05	rno-miR-322-5p	MIMAT0000548	YP00205182	G05	rno-miR-210-3p	MIMAT0000267	YP00204333
C06	rno-miR-191a-5p	MIMAT0000440	YP00204306	G06	rno-miR-375-3p	MIMAT0000728	YP00204362
C07	rno-miR-17-5p	MIMAT0000070	YP02119304	G07	rno-miR-182	MIMAT0000211	YP00205089
C08	rno-miR-130a-3p	MIMAT0000425	YP00204658	G08	rno-miR-196a-5p	MIMAT0000226	YP00204386
C09	rno-miR-20a-5p	MIMAT0000075	YP00204292	G09	rno-miR-324-5p	MIMAT0000555	YP02119698
C10	rno-miR-27b-3p	MIMAT0000419	YP00205915	G10	rno-miR-137-3p	MIMAT0000429	YP00206062
C11	rno-miR-26b-5p	MIMAT0000083	YP00204172	G11	rno-miR-378a-3p	MIMAT0003151	YP00204179
C12	rno-miR-146a-5p	MIMAT0000449	YP00204688	G12	rno-miR-342-3p	MIMAT0000753	YP00205625
D01	rno-miR-200c-3p	MIMAT0000873	YP00205505	H01	cel-miR-39-3p	MIMAT0000010	YP00203952
D02	rno-miR-99a-5p	MIMAT0000097	YP00204521	H02	cel-miR-39-3p	MIMAT0000010	YP00203952
D03	rno-miR-19a-3p	MIMAT0000073	YP00205862	H03	U6 snRNA (v2)	N/A	YP02119464
D04	rno-miR-23a-3p	MIMAT0000078	YP00204772	H04	5S rRNA	N/A	YP00203906
D05	rno-miR-30a-5p	MIMAT0000087	YP00205695	H05	RNU5G	N/A	YP00203908
D06	rno-let-7i-5p	MIMAT0000415	YP00204394	H06	RNU1A1	N/A	YP00203909
D07	rno-miR-93-5p	MIMAT0000093	YP00204715	H07	UniSp2	N/A	YP00203950
D08	rno-let-7c-5p	MIMAT0000064	YP00204767	H08	UniSp4	N/A	YP00203953
D09	rno-miR-106b-5p	MIMAT0000680	YP00205884	H09	UniSp5	N/A	YP00203955
D10	rno-miR-101a-3p	MIMAT0000099	YP00204786	H10	UniSp6	N/A	YP00203954
D11	rno-miR-425-5p	MIMAT0003393	YP00204337	H11	UniSP3	N/A	YP02119288
D12	rno-miR-15b-5p	MIMAT0000417	YP00204243	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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