

miRCURY LNA™ miRNA Focus PCR Panels

Mouse Cancer PathwayFinder Product Data Sheet

Cat. no. 339325 YAMM-202Z

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-202ZA
C	Applied Biosystems models 7500 (Fast block), 7900HT (Fast block), StepOnePlus™, ViiA 7 (Fast block)	96-well	YAMM-202ZC
D	Bio-Rad CFX96™; Bio-Rad/MJ Research models DNA Engine Opticon®, DNA Engine Opticon 2; Stratagene Mx4000®	96-well	YAMM-202ZD
E	Applied Biosystems® models 7900HT (384-well block), ViiA™ 7 (384-well block); Bio-Rad CFX384™	384-well	YAMM-202ZE
F	Roche® LightCycler® 480 (96-well block)	96-well	YAMM-202ZF
G	Roche® LightCycler® 480 (384-well block)	384-well	YAMM-202ZG

Description

The Mouse Cancer PathwayFinder miRCURY LNA™ miRNA Focus PCR Panel profiles the expression of 84 miRNAs differentially expressed in tumors versus normal tissue. This array provides cancer researchers with a convenient way to quickly analyze the miRNAs most relevant to tumorigenesis. These miRNAs have been carefully selected based on results published in peer-reviewed journals that suggest a correlation with the diagnosis, staging, progression, or prognosis of various cancers or tumors. For any given cancer, diagnosis markers are highly associated with its presence, while prognosis markers are used to successfully predict its clinical outcome. The profiling results from this array may yield insights into the molecular mechanisms behind the pathogenesis of many cancers or tumor types. A set of controls present on this array enables data analysis using the $\Delta\Delta C_t$ 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 related to cancer research can be easily and reliably analyzed with this miRCURY LNA™ miRNA Focus PCR Panel.

For further details, consult the *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-miR-133b-3p	mmu-miR-122-5p	mmu-miR-20b-5p	mmu-miR-335-5p	mmu-miR-196a-5p	mmu-miR-125a-5p	mmu-miR-142a-5p	mmu-miR-96-5p	mmu-miR-222-3p	mmu-miR-92a-3p	mmu-miR-184-3p
B	mmu-miR-15a-5p	mmu-miR-106a-5p	mmu-miR-378a-3p	mmu-let-7b-5p	mmu-miR-205-5p	mmu-miR-137-3p	mmu-miR-130a-3p	mmu-miR-199a-5p	mmu-miR-140-5p	mmu-miR-20a-5p	mmu-miR-146b-5p	mmu-miR-132-3p
C	mmu-miR-193b-3p	mmu-miR-183-5p	mmu-miR-34c-5p	mmu-miR-30c-5p	mmu-miR-148a-3p	mmu-miR-134-5p	mmu-let-7g-5p	mmu-miR-138-5p	mmu-miR-141-3p	mmu-let-7c-5p	mmu-let-7e-5p	mmu-miR-218-5p
D	mmu-miR-29b-3p	mmu-miR-146a-5p	mmu-miR-135b-5p	mmu-miR-31-5p	mmu-miR-124-3p	mmu-miR-21a-5p	mmu-miR-181a-5p	mmu-miR-301a-3p	mmu-miR-195a-5p	mmu-miR-100-5p	mmu-miR-10b-5p	mmu-miR-155-5p
E	mmu-miR-1a-3p	mmu-miR-150-5p	mmu-let-7f-5p	mmu-miR-27b-3p	mmu-miR-7a-5p	mmu-miR-221-3p	mmu-miR-29a-3p	mmu-miR-191-5p	mmu-let-7d-5p	mmu-miR-9-5p	mmu-let-7f-5p	mmu-miR-10a-5p
F	mmu-miR-181b-5p	mmu-miR-15b-5p	mmu-miR-16-5p	mmu-miR-210-3p	mmu-miR-17-5p	mmu-miR-98-5p	mmu-miR-34a-5p	mmu-miR-25-3p	mmu-miR-144-3p	mmu-miR-128-3p	mmu-miR-223-3p	mmu-miR-215-5p
G	mmu-miR-19a-3p	mmu-miR-193a-5p	mmu-miR-18a-5p	mmu-miR-214-3p	mmu-miR-126a-3p	mmu-miR-27a-3p	mmu-miR-103-3p	mmu-miR-149-5p	mmu-miR-23b-3p	mmu-miR-203-3p	mmu-miR-32-5p	mmu-miR-181c-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-1a-3p	MIMAT0000416	YP00204344
A02	mmu-miR-133b-3p	MIMAT0000770	YP00206058	E02	mmu-miR-150-5p	MIMAT0000451	YP00204660
A03	mmu-miR-122-5p	MIMAT0000421	YP00205664	E03	mmu-let-7f-5p	MIMAT0000415	YP00204394
A04	mmu-miR-20b-5p	MIMAT0001413	YP00204755	E04	mmu-miR-27b-3p	MIMAT0000419	YP00205915
A05	mmu-miR-335-5p	MIMAT0000765	YP02119293	E05	mmu-miR-7a-5p	MIMAT0000677	YP02119694
A06	mmu-miR-196a-5p	MIMAT0000226	YP00204386	E06	mmu-miR-221-3p	MIMAT0000278	YP00204532
A07	mmu-miR-125a-5p	MIMAT0000443	YP00204339	E07	mmu-miR-29a-3p	MIMAT0000086	YP00204698
A08	mmu-miR-142a-5p	MIMAT0000433	YP00204722	E08	mmu-miR-191-5p	MIMAT0000440	YP00204306
A09	mmu-miR-96-5p	MIMAT0000095	YP00204417	E09	mmu-let-7d-5p	MIMAT0000065	YP00204124
A10	mmu-miR-222-3p	MIMAT0000670	YP02119325	E10	mmu-miR-9-5p	MIMAT0000441	YP00204513
A11	mmu-miR-92a-3p	MIMAT0000539	YP00205947	E11	mmu-let-7f-5p	MIMAT0000067	YP00204359
A12	mmu-miR-184-3p	MIMAT0000454	YP00204601	E12	mmu-miR-10a-5p	MIMAT0000253	YP00204778
B01	mmu-miR-15a-5p	MIMAT0000068	YP00204066	F01	mmu-miR-181b-5p	MIMAT0000673	YP02119324
B02	mmu-miR-106a-5p	MIMAT0000385	YP00205061	F02	mmu-miR-15b-5p	MIMAT0000417	YP00204243
B03	mmu-miR-378a-3p	MIMAT0003151	YP00204179	F03	mmu-miR-16-5p	MIMAT0000069	YP00205702
B04	mmu-let-7b-5p	MIMAT0000063	YP00204750	F04	mmu-miR-210-3p	MIMAT0000267	YP00204333
B05	mmu-miR-205-5p	MIMAT0000266	YP00204487	F05	mmu-miR-17-5p	MIMAT0000070	YP02119304
B06	mmu-miR-137-3p	MIMAT0000429	YP00206062	F06	mmu-miR-98-5p	MIMAT0000096	YP00204640
B07	mmu-miR-130a-3p	MIMAT0000425	YP00204658	F07	mmu-miR-34a-5p	MIMAT0000255	YP00204486
B08	mmu-miR-199a-5p	MIMAT0000231	YP00204494	F08	mmu-miR-25-3p	MIMAT0000081	YP00204361
B09	mmu-miR-140-5p	MIMAT0000431	YP00204540	F09	mmu-miR-144-3p	MIMAT0000436	YP00204754
B10	mmu-miR-20a-5p	MIMAT0000075	YP00204292	F10	mmu-miR-128-3p	MIMAT0000424	YP00205995
B11	mmu-miR-146b-5p	MIMAT0003475	YP02119752	F11	mmu-miR-223-3p	MIMAT0000280	YP00205986
B12	mmu-miR-132-3p	MIMAT0000426	YP00206035	F12	mmu-miR-215-5p	MIMAT0000904	YP00205150
C01	mmu-miR-193b-3p	MIMAT0004859	YP00205062	G01	mmu-miR-19a-3p	MIMAT0000073	YP00205862
C02	mmu-miR-183-5p	MIMAT0000261	YP00206030	G02	mmu-miR-193a-5p	MIMAT0004544	YP00205176
C03	mmu-miR-34c-5p	MIMAT0000686	YP00205659	G03	mmu-miR-18a-5p	MIMAT0000072	YP00204207
C04	mmu-miR-30c-5p	MIMAT0000244	YP00204783	G04	mmu-miR-214-3p	MIMAT0000271	YP00204510
C05	mmu-miR-148a-3p	MIMAT0000243	YP00205867	G05	mmu-miR-126a-3p	MIMAT0000445	YP00204227
C06	mmu-miR-134-5p	MIMAT0000447	YP00205989	G06	mmu-miR-27a-3p	MIMAT0000084	YP00206038
C07	mmu-let-7g-5p	MIMAT0000414	YP00204565	G07	mmu-miR-103-3p	MIMAT0000101	YP00204063
C08	mmu-miR-138-5p	MIMAT0000430	YP00206078	G08	mmu-miR-149-5p	MIMAT0000450	YP00204321
C09	mmu-miR-141-3p	MIMAT0000432	YP00204504	G09	mmu-miR-23b-3p	MIMAT0000125	YP02119756
C10	mmu-let-7c-5p	MIMAT0000064	YP00204767	G10	mmu-miR-203-3p	MIMAT0000264	YP00205914
C11	mmu-let-7e-5p	MIMAT0000066	YP00205711	G11	mmu-miR-32-5p	MIMAT0000090	YP00204792
C12	mmu-miR-218-5p	MIMAT0000275	YP00206034	G12	mmu-miR-181c-5p	MIMAT0000258	YP00204683
D01	mmu-miR-29b-3p	MIMAT0000100	YP00204679	H01	0	MIMAT0000010	YP00203952
D02	mmu-miR-146a-5p	MIMAT0000449	YP00204688	H02	0	MIMAT0000010	YP00203952
D03	mmu-miR-135b-5p	MIMAT0000758	YP00204130	H03	0	N/A	YP02119464
D04	mmu-miR-31-5p	MIMAT0000538	YP00205159	H04	0	N/A	YP00203906
D05	mmu-miR-124-3p	MIMAT0000134	YP02119832	H05	0	N/A	YP00203908
D06	mmu-miR-21a-5p	MIMAT0000076	YP00204230	H06	0	N/A	YP00203909
D07	mmu-miR-181d-5p	MIMAT0002821	YP00204789	H07	0	N/A	YP00203950
D08	mmu-miR-301a-3p	MIMAT0000688	YP00205601	H08	0	N/A	YP00203953
D09	mmu-miR-195a-5p	MIMAT0000461	YP00205869	H09	0	N/A	YP00203955
D10	mmu-miR-100-5p	MIMAT0000098	YP00205689	H10	0	N/A	YP00203954
D11	mmu-miR-10b-5p	MIMAT0000254	YP00205637	H11	0	N/A	YP02119288
D12	mmu-miR-155-5p	MIMAT0000165	YP02119303	H12	0	N/A	YP02119288

Functional Groupings

Brain Cancer: mmu-let-7a-5p,mmu-let-7b-5p,mmu-let-7d-5p,mmu-let-7g-5p,mmu-miR-100-5p,mmu-miR-103-3p,mmu-miR-106a-5p,mmu-miR-10a-5p,mmu-miR-10b-5p,mmu-miR-124-3p,mmu-miR-125a-5p,mmu-miR-126a-3p,mmu-miR-128-3p,mmu-miR-130a-3p,mmu-miR-132-3p,mmu-miR-133b-3p,mmu-miR-134-5p,mmu-miR-137-3p,mmu-miR-138-5p,mmu-miR-140-5p,mmu-miR-141-3p,mmu-miR-142a-5p,mmu-miR-144-3p,mmu-miR-146a-5p,mmu-miR-146b-5p,mmu-miR-148a-3p,mmu-miR-149-5p,mmu-miR-150-5p,mmu-miR-155-5p,mmu-miR-15a-5p,mmu-miR-15b-5p,mmu-miR-16-5p,mmu-miR-17-5p,mmu-miR-181b-5p,mmu-miR-181c-5p,mmu-miR-183-5p,mmu-miR-184-3p,mmu-miR-18a-5p,mmu-miR-191-5p,mmu-miR-19a-3p,mmu-miR-203-3p,mmu-miR-20a-5p,mmu-miR-20b-5p,mmu-miR-210-3p,mmu-miR-218-5p,mmu-miR-21a-5p,mmu-miR-221-3p,mmu-miR-222-3p,mmu-miR-223-3p,mmu-miR-23b-3p,mmu-miR-25-3p,mmu-miR-27a-3p,mmu-miR-27b-3p,mmu-miR-29a-3p,mmu-miR-29b-3p,mmu-miR-301a-3p,mmu-miR-30c-5p,mmu-miR-31-5p,mmu-miR-32-5p,mmu-miR-335-5p,mmu-miR-34a-5p,mmu-miR-378a-3p,mmu-miR-7a-5p,mmu-miR-9-5p,mmu-miR-92a-3p,mmu-miR-96-5p,mmu-miR-98-5p.

Colon Cancer: mmu-miR-135b-5p,mmu-miR-18a-5p,mmu-miR-19a-3p,mmu-miR-335-5p,mmu-miR-378a-3p.

Gastric Cancer: mmu-miR-142a-5p.

Head & Neck Cancer: mmu-let-7a-5p,mmu-let-7c-5p,mmu-let-7e-5p,mmu-let-7i-5p,mmu-miR-100-5p,mmu-miR-106a-5p,mmu-miR-10a-5p,mmu-miR-135b-5p,mmu-miR-142a-5p,mmu-miR-146a-5p,mmu-miR-155-5p,mmu-miR-15a-5p,mmu-miR-16-5p,mmu-miR-181b-5p,mmu-miR-205-5p,mmu-miR-20a-5p,mmu-miR-210-3p,mmu-miR-214-3p,mmu-miR-218-5p,mmu-miR-21a-5p,mmu-miR-221-3p,mmu-miR-222-3p,mmu-miR-223-3p,mmu-miR-23b-3p,mmu-miR-25-3p,mmu-miR-27a-3p,mmu-miR-29a-3p,mmu-miR-29b-3p,mmu-miR-30c-5p,mmu-miR-34a-5p,mmu-miR-378a-3p.

Kidney Cancer: mmu-miR-210-3p,mmu-miR-221-3p.

Liver Cancer: mmu-miR-103-3p,mmu-miR-106a-5p,mmu-miR-122-5p,mmu-miR-126a-3p,mmu-miR-130a-3p,mmu-miR-141-3p,mmu-miR-17-5p,mmu-miR-191-5p,mmu-miR-193b-3p,mmu-miR-215-5p,mmu-miR-21a-5p,mmu-miR-221-3p,mmu-miR-222-3p,mmu-miR-223-3p,mmu-miR-23b-3p,mmu-miR-25-3p,mmu-miR-30c-5p.

Lung Cancer: mmu-let-7a-5p,mmu-let-7i-5p,mmu-miR-125a-5p,mmu-miR-126a-3p,mmu-miR-15a-5p,mmu-miR-1a-3p,mmu-miR-21a-5p.

Lymphoma: mmu-miR-106a-5p,mmu-miR-155-5p,mmu-miR-199a-5p,mmu-miR-20b-5p,mmu-miR-221-3p,mmu-miR-222-3p,mmu-miR-223-3p,mmu-miR-23b-3p,mmu-miR-27b-3p,mmu-miR-29b-3p,mmu-miR-378a-3p.

Pancreatic Cancer: mmu-miR-100-5p,mmu-miR-10a-5p,mmu-miR-10b-5p,mmu-miR-148a-3p,mmu-miR-155-5p,mmu-miR-181b-5p,mmu-miR-181c-5p,mmu-miR-181d-5p,mmu-miR-205-5p,mmu-miR-210-3p,mmu-miR-21a-5p,mmu-miR-221-3p,mmu-miR-222-3p,mmu-miR-223-3p,mmu-miR-23b-3p.

Prostate Cancer: mmu-miR-149-5p,mmu-miR-16-5p,mmu-miR-181b-5p,mmu-miR-183-5p,mmu-miR-184-3p,mmu-miR-205-5p,mmu-miR-221-3p,mmu-miR-222-3p,mmu-miR-96-5p.

Skin Cancer: mmu-miR-132-3p,mmu-miR-141-3p,mmu-miR-149-5p,mmu-miR-15a-5p,mmu-miR-16-5p,mmu-miR-18a-5p,mmu-miR-193a-5p,mmu-miR-193b-3p,mmu-miR-203-3p,mmu-miR-205-5p,mmu-miR-214-3p,mmu-miR-21a-5p,mmu-miR-23b-3p,mmu-miR-27b-3p,mmu-miR-29b-3p.

Women's Health

Ovarian Cancer: mmu-let-7d-5p,mmu-let-7i-5p,mmu-miR-100-5p,mmu-miR-103-3p,mmu-miR-126a-3p,mmu-miR-137-3p,mmu-miR-150-5p,mmu-miR-155-5p,mmu-miR-15a-5p,mmu-miR-184-3p,mmu-miR-196a-5p,mmu-miR-214-3p,mmu-miR-21a-5p,mmu-miR-223-3p,mmu-miR-34a-5p,mmu-miR-34c-5p.

Breast Cancer: mmu-let-7f-5p,mmu-miR-155-5p,mmu-miR-181b-5p,mmu-miR-181d-5p,mmu-miR-18a-5p,mmu-miR-195a-5p,mmu-miR-21a-5p,mmu-miR-29b-3p,mmu-miR-98-5p.

Uterine Cancer: mmu-miR-141-3p.

Cervical Cancer: mmu-miR-214-3p.

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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