

RT² Profiler PCR Array (96-Well Format and 384-Well [4 x 96] Format)

Mouse miR-9 Targets

Cat. no. 330231 PAMM-6014ZA

For pathway expression analysis

Format	For use with the following real-time cyclers
RT ² Profiler PCR Array, Format 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
RT ² Profiler PCR Array, Format C	Applied Biosystems models 7500 (Fast block), 7900HT (Fast block), StepOnePlus™, ViiA 7 (Fast block)
RT ² Profiler PCR Array, Format D	Bio-Rad CFX96™; Bio-Rad/MJ Research models DNA Engine Opticon®, DNA Engine Opticon 2; Stratagene Mx4000®
RT ² Profiler PCR Array, Format E	Applied Biosystems models 7900HT (384-well block), ViiA 7 (384-well block); Bio-Rad CFX384™
RT ² Profiler PCR Array, Format F	Roche® LightCycler® 480 (96-well block)
RT ² Profiler PCR Array, Format G	Roche LightCycler 480 (384-well block)
RT ² Profiler PCR Array, Format H	Fluidigm® BioMark™



Sample & Assay Technologies

Description

The Mouse miR-9 Targets RT² Profiler PCR Array profiles the expression of 84 mmu-miR-9-5p target genes. This panel of 84 genes includes currently known experimentally verified plus bioinformatically predicted target genes regulated by mmu-miR-9-5p. The target genes would also be predicted to be regulated by any other yet to be discovered miRNAs that would have the same seed sequence as mmu-miR-9-5p. miRNA target gene expression analysis provides further insight into the function of these specific miRNAs. A set of controls present on each array enables data analysis using the $\Delta\Delta CT$ method of relative quantification as well as assessment of reverse transcription performance, genomic DNA contamination, and PCR performance. Using real-time PCR, research studies can easily and reliably analyze the expression of a focused panel of genes likely to be regulated by miR-9 with this array.

For further details, consult the *RT² Profiler PCR Array Handbook*.

Shipping and storage

RT² Profiler PCR Arrays in formats A, C, D, E, F, and G are shipped at ambient temperature, on dry ice, or blue ice packs depending on destination and accompanying products. RT² Profiler PCR Arrays in format H are shipped on dry ice or blue ice packs.

For long term storage, keep plates at -20°C .

Note: Ensure that you have the correct RT² Profiler PCR Array format for your real-time cycler (see table above).

Note: Open the package and store the products appropriately immediately on receipt.

Array layout (96-well)

For 384-well 4 x 96 PCR arrays, genes are present in a staggered format. Refer to the *RT² Profiler PCR Array Handbook* for layout.

	1	2	3	4	5	6	7	8	9	10	11	12
A	Adams3	Ankrd52	Ap1s2	Ap3b1	Ap4e1	Arid1a	Atp1b1	Bace1	Calb2	Cc2d1b	Ccdc43	Cndbp1
B	Ccng1	Cdh1	Cdx2	Cep63	Cntn3	Col15a1	Crim1	Ybx3	Csnk1a1	Ctnna1	Dnajc14	Emb
C	Ets1	Fam107b	Fbn1	Fnbp4	Foxg1	Foxo1	Foxo3	Frem2	Galnt3	Gch1	Gmeb2	Gnpnat1
D	Hes1	Hlcs	Igf2bp3	Insig1	Ipo4	Itpkc	Kcnj2	Kcnk4	Kcld2	Klhl18	Lamp1	Lepre1
E	Lmna	Mesdc1	Myo1c	Myo1d	Myocd	Nr2e1	Tenm1	Onecut2	Opn3	Pcgef6	Pdgfr	Pmp22
F	Prdm1	Pxdn	Rob34	Rest	Rnf150	Shc1	Sin3a	Sirt1	Slc20a2	Snx25	Snx7	Socs5
G	Srgn	Slk3	Stmn1	Tbpl1	Teskl	Tgfb1	Tomm20	Tsc22d2	Ube3c	Ulk2	Vav3	Zkscan1
H	Actb	B2m	Gapdh	Gusb	Hsp90ab1	MGDC	RTC	RTC	RTC	PPC	PPC	PPC

Gene table: RT² Profiler PCR Array

Position	UniGene	GenBank	Symbol	Description
A01	Mm.133062	NM_001081401	Adams3	A disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif, 3
A02	Mm.440177	NM_172790	Ankrd52	Ankyrin repeat domain 52
A03	Mm.426783	NM_026887	Ap1s2	Adaptor-related protein complex 1, sigma 2 subunit
A04	Mm.21185	NM_009680	Ap3b1	Adaptor-related protein complex 3, beta 1 subunit
A05	Mm.134045	NM_175550	Ap4e1	Adaptor-related protein complex AP-4, epsilon 1
A06	Mm.22478	NM_001080819	Arid1a	AT rich interactive domain 1A (SWI-like)
A07	Mm.4550	NM_009721	Atp1b1	ATPase, Na ⁺ /K ⁺ transporting, beta 1 polypeptide
A08	Mm.24044	NM_011792	Bace1	Beta-site APP cleaving enzyme 1
A09	Mm.2755	NM_007586	Calb2	Calbindin 2
A10	Mm.151129	NM_177045	Cc2d1b	Coiled-coil and C2 domain containing 1B
A11	Mm.277638	NM_025918	Ccdc43	Coiled-coil domain containing 43
A12	Mm.7838	NM_010761	Cndbp1	Cyclin D-type binding-protein 1
B01	Mm.2103	NM_009831	Ccng1	Cyclin G1
B02	Mm.35605	NM_009864	Cdh1	Cadherin 1
B03	Mm.20358	NM_007673	Cdx2	Caudal type homeobox 2
B04	Mm.38910	NM_001081122	Cep63	Centrosomal protein 63
B05	Mm.435479	NM_008779	Cntn3	Contactin 3
B06	Mm.233547	NM_009928	Col15a1	Collagen, type XV, alpha 1
B07	Mm.311912	NM_015800	Crim1	Cysteine rich transmembrane BMP regulator 1 (chordin like)
B08	Mm.458000	NM_011733	Ybx3	Cold shock domain protein A
B09	Mm.26908	NM_146087	Csnk1a1	Casein kinase 1, alpha 1
B10	Mm.18962	NM_009818	Ctnna1	Catenin (cadherin associated protein), alpha 1
B11	Mm.296915	NM_028873	Dnajc14	DnaJ (Hsp40) homolog, subfamily C, member 14
B12	Mm.274926	NM_010330	Emb	Embigin
C01	Mm.292415	NM_011808	Ets1	E26 avian leukemia oncogene 1, 5' domain
C02	Mm.277864	NM_025626	Fam107b	Family with sequence similarity 107, member B
C03	Mm.271644	NM_007993	Fbn1	Fibrillin 1
C04	Mm.489638	NM_018828	Fnbp4	Formin binding protein 4
C05	Mm.4704	NM_008241	Foxg1	Forkhead box G1
C06	Mm.29891	NM_019739	Foxo1	Forkhead box O1
C07	Mm.391700	NM_019740	Foxo3	Forkhead box O3
C08	Mm.38378	NM_172862	Frem2	Fras1 related extracellular matrix protein 2
C09	Mm.439760	NM_015736	Galnt3	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 3
C10	Mm.10651	NM_008102	Gch1	GTP cyclohydrolase 1
C11	Mm.220423	NM_198169	Gmeb2	Glucocorticoid modulatory element binding protein 2
C12	Mm.312945	NM_019425	Gnpnat1	Glucosamine-phosphate N-acetyltransferase 1
D01	Mm.390859	NM_008235	Hes1	Hairy and enhancer of split 1 (Drosophila)
D02	Mm.30921	NM_139145	Hlcs	Holocarboxylase synthetase (biotin- [propionyl-Coenzyme A-carboxylase (ATP-hydrolysing)] ligase)
D03	Mm.281018	NM_023670	Igf2bp3	Insulin-like growth factor 2 mRNA binding protein 3
D04	Mm.30221	NM_153526	Insig1	Insulin induced gene 1
D05	Mm.27546	NM_024267	Ipo4	Importin 4
D06	Mm.474636	NM_181593	Itpkc	Inositol 1,4,5-trisphosphate 3-kinase C

Position	UniGene	GenBank	Symbol	Description
D07	Mm.4951	NM_008425	Kcnj2	Potassium inwardly-rectifying channel, subfamily J, member 2
D08	Mm.12894	NM_008431	Kcnk4	Potassium channel, subfamily K, member 4
D09	Mm.276299	NM_183285	Kctd2	Potassium channel tetramerisation domain containing 2
D10	Mm.41744	NM_177771	Klhl18	Kelch-like 18 (Drosophila)
D11	Mm.16716	NM_010684	Lamp1	Lysosomal-associated membrane protein 1
D12	Mm.27961	NM_019782	Lepre1	Leprecan 1
E01	Mm.471227	NM_019390	Lmna	Lamin A
E02	Mm.272998	NM_030705	Mesdc1	Mesoderm development candidate 1
E03	Mm.234502	NM_008659	Myo1c	Myosin IC
E04	Mm.151948	NM_177390	Myo1d	Myosin ID
E05	Mm.32257	NM_145136	Myocd	Myocardin
E06	Mm.287100	NM_152229	Nr2e1	Nuclear receptor subfamily 2, group E, member 1
E07	Mm.327698	NM_011855	Tenm1	Odd Oz/ten-m homolog 1 (Drosophila)
E08	Mm.234723	NM_194268	Onecut2	One cut domain, family member 2
E09	Mm.32744	NM_010098	Opn3	Opsin 3
E10	Mm.35413	NM_027654	Pcgf6	Polycomb group ring finger 6
E11	Mm.331089	NM_019971	Pdgfc	Platelet-derived growth factor, C polypeptide
E12	Mm.1237	NM_008885	Pmp22	Peripheral myelin protein 22
F01	Mm.4800	NM_007548	Prdm1	PR domain containing 1, with ZNF domain
F02	Mm.251774	NM_181395	Pxdn	Peroxidasin homolog (Drosophila)
F03	Mm.275864	NM_033475	Rab34	RAB34, member of RAS oncogene family
F04	Mm.482359	NM_011263	Rest	RE1-silencing transcription factor
F05	Mm.491438	NM_177378	Rnf150	Ring finger protein 150
F06	Mm.86595	NM_011368	Shc1	Src homology 2 domain-containing transforming protein C1
F07	Mm.15755	NM_011378	Sin3a	Transcriptional regulator, SIN3A (yeast)
F08	Mm.351459	NM_019812	Sirt1	Sirtuin 1 (silent mating type information regulation 2, homolog) 1 (S. cerevisiae)
F09	Mm.378231	NM_011394	Slc20a2	Solute carrier family 20, member 2
F10	Mm.267258	NM_207213	Snx25	Sorting nexin 25
F11	Mm.33824	NM_029655	Snx7	Sorting nexin 7
F12	Mm.126885	NM_019654	Socs5	Suppressor of cytokine signaling 5
G01	Mm.338790	NM_011157	Srgn	Serglycin
G02	Mm.262330	NM_019635	Stk3	Serine/threonine kinase 3 (Ste20, yeast homolog)
G03	Mm.378957	NM_019641	Stmn1	Stathmin 1
G04	Mm.86670	NM_011603	Tbpl1	TATA box binding protein-like 1
G05	Mm.482431	NM_146151	Tesk2	Testis-specific kinase 2
G06	Mm.14455	NM_009369	Tgfb1	Transforming growth factor, beta induced
G07	Mm.372086	NM_024214	Tomm20	Translocase of outer mitochondrial membrane 20 homolog (yeast)
G08	Mm.218409	NM_001081229	Tsc22d2	TSC22 domain family, member 2
G09	Mm.137746	NM_133907	Ube3c	Ubiquitin protein ligase E3C
G10	Mm.162025	NM_013881	Ulk2	Unc-51 like kinase 2 (C. elegans)
G11	Mm.282257	NM_020505	Vav3	Vav 3 oncogene
G12	Mm.213114	NM_133906	Zkscan1	Zinc finger with KRAB and SCAN domains 1
H01	Mm.391967	NM_007393	Actb	Actin, beta
H02	Mm.163	NM_009735	B2m	Beta-2 microglobulin
H03	Mm.304088	NM_008084	Gapdh	Glyceraldehyde-3-phosphate dehydrogenase
H04	Mm.3317	NM_010368	Gusb	Glucuronidase, beta
H05	Mm.2180	NM_008302	Hsp90ab1	Heat shock protein 90 alpha (cytosolic), class B member 1
H06	N/A	SA_00106	MGDC	Mouse Genomic DNA Contamination
H07	N/A	SA_00104	RTC	Reverse Transcription Control
H08	N/A	SA_00104	RTC	Reverse Transcription Control
H09	N/A	SA_00104	RTC	Reverse Transcription Control
H10	N/A	SA_00103	PPC	Positive PCR Control
H11	N/A	SA_00103	PPC	Positive PCR Control
H12	N/A	SA_00103	PPC	Positive PCR Control

Related products

For optimal performance, RT² Profiler PCR Arrays should be used together with the RT² First Strand Kit for cDNA synthesis and RT² SYBR[®] Green qPCR Mastermixes for PCR.

Product	Contents	Cat. no.
RT ² First Strand Kit (12)	Enzymes and reagents for cDNA synthesis	330401
RT ² SYBR Green qPCR Mastermix (2)*	For 2 x 96 assays in 96-well plates; suitable for use with real-time cyclers that do not require a reference dye, including: Bio-Rad models CFX96, CFX384, DNA Engine Opticon 2; Bio-Rad/MJ Research Chromo4; Roche LightCycler 480 (96-well and 384-well); all other cyclers	330500
RT ² SYBR Green ROX [™] qPCR Mastermix (2)*	For 2 x 96 assays in 96-well plates; suitable for use with the following real-time cyclers: Applied Biosystems models 5700, 7000, 7300, 7500 [Standard and FAST], 7700, 7900HT 96-well block [Standard and FAST] and 384-well block, StepOnePlus; Eppendorf Mastercycler ep realplex models 2, 2S, 4, 4S; Stratagene models Mx3000P, Mx3005P, Mx4000; Takara TP-800	330520
RT ² SYBR Green Fluor qPCR Mastermix (2)*	For 2 x 96 assays in 96-well plates; suitable for use with the following real-time cyclers: Bio-Rad models iCycler, iQ5, MyiQ, MyiQ2	330510

* Larger kit sizes available; please inquire.

RT² Profiler PCR Array products are intended for molecular biology applications. These products are not intended for the diagnosis, prevention, or treatment of a disease.

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