RT² Profiler PCR Array (Rotor-Gene® Format)

Mouse miR-9 Targets

Cat. no. 330231 PAMM-6014ZR

For pathway expression analysis

Format	For use with the following real-time cyclers
RT² Profiler PCR Array, Format R	Rotor-Gene Q, other Rotor-Gene cyclers

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 ΔΔ 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 the Rotor-Gene format are shipped at ambient temperature, on dry ice, or blue ice packs depending on destination and accompanying products.

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

The 96 real-time assays in the Rotor-Gene format are located in wells 1–96 of the Rotor-Disc™ (plate A1–A12=Rotor-Disc 1–12, plate B1–B12=Rotor-Disc 13–24, etc.). To maintain data analysis compatibility, wells 97–100 do not contain real-time assays but will contain master mix to account for weight balance.

Gene table: RT² Profiler PCR Array

Position	UniGene	GenBank	Symbol	Description
A01	Mm.133062	NM_001081401	Adamts3	A disintegrin-like and metallopeptidase (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	Ccndbp1	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- [propriony-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
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

Position	UniGene	GenBank	Symbol	Description
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	Tgfbi	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.
RT² First Strand Kit (12)	Enzymes and reagents for cDNA synthesis	330401
RT² SYBR Green ROX™ FAST Mastermix (2)*	For 2 x 96 assays in 96-well plates; suitable for use with the Rotor-Gene Q and other Rotor-Gene cyclers	330620

* 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.

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual. QIAGEN kit handbooks and user manuals are available at www.qiagen.com or can be requested from QIAGEN Technical Services or your local distributor.

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