

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

Mouse miR-21 Targets

Cat. no. 330231 PAMM-6001ZA

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-21 Targets RT² Profiler PCR Array profiles the expression of 84 mmu-miR-21a-5p target genes. This panel of 84 genes includes experimentally verified plus bioinformatically predicted target genes regulated by mmu-miR-21a-5p. This array also includes target genes regulated by other miRNAs that have the same seed sequence as mmu-miR-21a-5p, including mmu-miR-590-5p. miRNA target gene expression analysis provides further insight into the function of these specific miRNAs. 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-21 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	Acat1	Acvr2a	Adnp	Ankrd46	Apaf1	Arhgap24	Armcx1	Asf1a	Bosp1	Bcl11b	Bcl2	Bmpr2
B	Blg2	Cdc25a	Cdk2ap1	Cep68	Crebl2	Dag1	Daxx	Der1l	E2f1	E2f2	Egr3	Eif2s1
C	Eif4a2	Eif2	Fasl	Hnrnpk	Icam1	Il1b	Jag1	Jmy	Klf5	Klhdc5	Krit1	Lanc1
D	Lrrfip1	Marcks	Mef2c	Msh2	Msh6	Mtap	Myc	Ncapg	Ncoa3	Nfib	Nif3	Pcbp1
E	Pdcd4	Pdha2	Pel1	Pitx2	Plat	Plod3	Ppif	Ppp1r3a	Ppp1r3b	Pten	Rasa1	Rasgrp1
F	Reck	Rhob	Rps7	Rtn4	Serpinc5	Sox5	Spats2l	Spry1	Spry2	Tgfb1	Tgfb2	Tgfb3
G	Tiam1	Timp3	Tm9sf3	Tnks	Tnrc6b	Topors	Tpm1	Trp53bp2	Trp63	Ube2d3	Wfs1	Wibg
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.293233	NM_144784	Acat1	Acetyl-Coenzyme A acetyltransferase 1
A02	Mm.314338	NM_007396	Acvr2a	Activin receptor IIA
A03	Mm.201322	NM_009628	Adnp	Activity-dependent neuroprotective protein
A04	Mm.396537	NM_175134	Ankrd46	Ankyrin repeat domain 46
A05	Mm.220289	NM_009684	Apaf1	Apoptotic peptidase activating factor 1
A06	Mm.440191	NM_029270	Arhgap24	Rho GTPase activating protein 24
A07	Mm.458522	NM_030066	Armcx1	Armadillo repeat containing, X-linked 1
A08	Mm.272989	NM_025541	Asf1a	ASF1 anti-silencing function 1 homolog A (S. cerevisiae)
A09	Mm.29586	NM_027395	Basp1	Brain abundant, membrane attached signal protein 1
A10	Mm.392694	NM_021399	Bcl11b	B-cell leukemia/lymphoma 11B
A11	Mm.257460	NM_009741	Bcl2	B-cell leukemia/lymphoma 2
A12	Mm.7106	NM_007561	Bmpr2	Bone morphogenic protein receptor, type II (serine/threonine kinase)
B01	Mm.392646	NM_007570	Blg2	B-cell translocation gene 2, anti-proliferative
B02	Mm.307103	NM_007658	Cdc25a	Cell division cycle 25 homolog A (S. pombe)
B03	Mm.425284	NM_013812	Cdk2ap1	CDK2 (cyclin-dependent kinase 2)-associated protein 1
B04	Mm.260314	NM_172260	Cep68	Centrosomal protein 68
B05	Mm.267010	NM_177687	Crebl2	CAMP responsive element binding protein-like 2
B06	Mm.7524	NM_010017	Dag1	Dystroglycan 1
B07	Mm.271809	NM_007829	Daxx	Fas death domain-associated protein
B08	Mm.289387	NM_024207	Der1l	Der1-like domain family, member 1
B09	Mm.18036	NM_007891	E2f1	E2F transcription factor 1
B10	Mm.307932	NM_177733	E2f2	E2F transcription factor 2
B11	Mm.103737	NM_018781	Egr3	Early growth response 3
B12	Mm.196220	NM_026114	Eif2s1	Eukaryotic translation initiation factor 2, subunit 1 alpha
C01	Mm.260084	NM_013506	Eif4a2	Eukaryotic translation initiation factor 4A2
C02	Mm.131038	NM_023502	Eif2	E74-like factor 2
C03	Mm.3355	NM_010177	Fasl	Fas ligand (TNF superfamily, member 6)
C04	Mm.142872	NM_025279	Hnrnpk	Heterogeneous nuclear ribonucleoprotein K
C05	Mm.435508	NM_010493	Icam1	Intercellular adhesion molecule 1
C06	Mm.222830	NM_008361	Il1b	Interleukin 1 beta
C07	Mm.22398	NM_013822	Jag1	Jagged 1
C08	Mm.390630	NM_021310	Jmy	Junction-mediating and regulatory protein
C09	Mm.30262	NM_009769	Klf5	Kruppel-like factor 5
C10	Mm.479943	NM_001081237	Klhdc5	Kelch domain containing 5
C11	Mm.32368	NM_030675	Krit1	KRIT1, ankyrin repeat containing
C12	Mm.20522	NM_021295	Lanc1	LanC (bacterial lantibiotic synthetase component C)-like 1
D01	Mm.395990	NM_008515	Lrrfip1	Leucine rich repeat (in FHL1) interacting protein 1
D02	Mm.30059	NM_008538	Marcks	Myristoylated alanine rich protein kinase C substrate
D03	Mm.24001	NM_025282	Mef2c	Myocyte enhancer factor 2C
D04	Mm.4619	NM_008628	Msh2	MutS homolog 2 (E. coli)
D05	Mm.18210	NM_010830	Msh6	MutS homolog 6 (E. coli)
D06	Mm.28500	NM_024433	Mtap	Methylthioadenosine phosphorylase
D07	Mm.2444	NM_010849	Myc	Myelocytomatosis oncogene
D08	Mm.32012	NM_019438	Ncapg	Non-SMC condensin I complex, subunit G
D09	Mm.476883	NM_008679	Ncoa3	Nuclear receptor coactivator 3

Position	UniGene	GenBank	Symbol	Description
D10	Mm.317947	NM_008687	Nfib	Nuclear factor I/B
D11	Mm.267570	NM_008742	Nhf3	Neurotrophin 3
D12	Mm.274146	NM_011865	Pcbp1	Poly(rC) binding protein 1
E01	Mm.1605	NM_011050	Pdcd4	Programmed cell death 4
E02	Mm.4223	NM_008811	Pdha2	Pyruvate dehydrogenase E1 alpha 2
E03	Mm.28957	NM_023324	Peli1	Pellino 1
E04	Mm.246804	NM_011098	Pitx2	Paired-like homeodomain transcription factor 2
E05	Mm.154660	NM_008872	Plat	Plasminogen activator, tissue
E06	Mm.251003	NM_011962	Plod3	Procollagen-lysine, 2-oxoglutarate 5-dioxygenase 3
E07	Mm.41656	NM_134084	Ppif	Peptidylprolyl isomerase F (cyclophilin F)
E08	Mm.209429	NM_080464	Ppp1r3a	Protein phosphatase 1, regulatory (inhibitor) subunit 3A
E09	Mm.247126	NM_177741	Ppp1r3b	Protein phosphatase 1, regulatory (inhibitor) subunit 3B
E10	Mm.245395	NM_008960	Pten	Phosphatase and tensin homolog
E11	Mm.259653	NM_145452	Rasa1	RAS p21 protein activator 1
E12	Mm.42150	NM_011246	Rasgrp1	RAS guanyl releasing protein 1
F01	Mm.331573	NM_016678	Reck	Reversion-inducing-cysteine-rich protein with kazal motifs
F02	Mm.687	NM_007483	Rhob	Ras homolog gene family, member B
F03	Mm.279839	NM_011300	Rps7	Ribosomal protein S7
F04	Mm.192580	NM_194053	Rtn4	Reticulon 4
F05	Mm.268618	NM_009257	Serpib5	Serine (or cysteine) peptidase inhibitor, clade B, member 5
F06	Mm.1752	NM_011444	Sox5	SRY-box containing gene 5
F07	Mm.159989	NM_144882	Spats2l	Spermatogenesis associated, serine-rich 2-like
F08	Mm.330986	NM_011896	Spry1	Sprouty homolog 1 (Drosophila)
F09	Mm.89982	NM_011897	Spry2	Sprouty homolog 2 (Drosophila)
F10	Mm.14455	NM_009369	Tgfb1	Transforming growth factor, beta induced
F11	Mm.172346	NM_009371	Tgfb2	Transforming growth factor, beta receptor II
F12	Mm.200775	NM_011578	Tgfb3	Transforming growth factor, beta receptor III
G01	Mm.124100	NM_009384	Tiam1	T-cell lymphoma invasion and metastasis 1
G02	Mm.4871	NM_011595	Timp3	Tissue inhibitor of metalloproteinase 3
G03	Mm.246440	NM_133352	Tm9sf3	Transmembrane 9 superfamily member 3
G04	Mm.88364	NM_175091	Tnks	Tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase
G05	Mm.131328	NM_177124	Tnrc6b	Trinucleotide repeat containing 6b
G06	Mm.251548	NM_134097	Topors	Topoisomerase I binding, arginine/serine-rich
G07	Mm.121878	NM_024427	Tpm1	Tropomyosin 1, alpha
G08	Mm.287450	NM_173378	Trp53bp2	Transformation related protein 53 binding protein 2
G09	Mm.20894	NM_011641	Trp63	Transformation related protein 63
G10	Mm.49884	NM_025356	Ube2d3	Ubiquitin-conjugating enzyme E2D 3 (UBC4/5 homolog, yeast)
G11	Mm.20916	NM_011716	Wfs1	Wolfram syndrome 1 homolog (human)
G12	Mm.27358	NM_030100	Wibg	Within bgcn homolog (Drosophila)
H01	Mm.328431	NM_007393	Actb	Actin, beta
H02	Mm.163	NM_009735	B2m	Beta-2 microglobulin
H03	Mm.343110	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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