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

Mouse miR-29 Targets

Cat. no. 330231 PAMM-6012ZA

For pathway expression analysis

Format	For use with the following real-time cyclers
RT² 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
RT² Profiler PCR Array, Format C	Applied Biosystems models 7500 (Fast block), 7900HT (Fast block), StepOnePlus™, ViiA 7 (Fast block)
RT² Profiler PCR Array, Format D	Bio-Rad CFX96™; Bio-Rad/MJ Research models DNA Engine Opticon®, DNA Engine Opticon 2; Stratagene Mx4000®
RT² Profiler PCR Array, Format E	Applied Biosystems models 7900HT (384-well block), ViiA 7 (384-well block); Bio-Rad CFX384™
RT² Profiler PCR Array, Format F	Roche® LightCycler® 480 (96-well block)
RT² Profiler PCR Array, Format G	Roche LightCycler 480 (384-well block)
RT² Profiler PCR Array, Format H	Fluidigm® BioMark™

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Description

The Mouse miR-29 Targets RT² Profiler PCR Array profiles the expression of 84 mmu-miR-29a-3p target genes. This panel of 84 genes includes currently known experimentally verified plus bioinformatically predicted target genes regulated by mmu-miR-29a-3p. This array also includes target genes regulated by other miRNAs that have the same seed sequence as mmu-miR-29a-3p, including mmu-miR-29b-3p and mmu-miR-29c-3p. 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 ΔΔCT 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-29 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	Acvr2a	Adam12	Adamts9	Ak3	Bace1	Bak1	Bbc3	Bcl2	Bcl2l11	Bmf	Cd276	Cdc42
B	Cdk6	Col15a1	Col1a1	Col1a2	Col2a1	Col3a1	Col4a1	Col4a2	Col5a2	Col5a3	Col7a1	Ctnnbip1
C	D0H4S114	Dgkd	Dicer1	Dnajb11	Dnmt1	Dnmt3a	Dnmt3b	Dusp2	Elf2	Eln	Eomes	Fbn1
D	Fem1b	Fga	Fgb	Fgg	Foxj2	Glul	Grn	Hdac4	Hrk	Ifi30	Ireb2	Itga11
E	Lamc1	Lpl	Mark3	Mbtd1	Mcl1	Mmp15	Mmp24	Mycn	Nav3	Nid1	Pcdha12	Pik3r1
F	Pmp22	Ppm1d	Ppp1r13b	Pten	Pxdn	Rlf	S100b	Serpinb9	Sestd1	Sfpq	Sp1	Sparc
G	Spry1	Srsf10	Tbx21	Tcfap2c	Tcl1	Tdg	Tet1	Tgfb3	Tnfaip3	Vegfa	Zfp36	Zfp36l1
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.314338	NM_007396	Acvr2a	Activin receptor IIA
A02	Mm.439714	NM_007400	Adam12	A disintegrin and metallopeptidase domain 12 (meltrin alpha)
A03	Mm.158235	NM_175314	Adamts9	A disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 9
A04	Mm.196067	NM_021299	Ak3	Adenylate kinase 3
A05	Mm.24044	NM_011792	Bace1	Beta-site APP cleaving enzyme 1
A06	Mm.2443	NM_007523	Bak1	BCL2-antagonist/killer 1
A07	Mm.7660	NM_133234	Bbc3	BCL2 binding component 3
A08	Mm.257460	NM_009741	Bcl2	B-cell leukemia/lymphoma 2
A09	Mm.141083	NM_009754	Bcl2l11	BCL2-like 11 (apoptosis facilitator)
A10	Mm.210125	NM_138313	Bmf	Bcl2 modifying factor
A11	Mm.5356	NM_133983	Cd276	CD276 antigen
A12	Mm.1022	NM_009861	Cdc42	Cell division cycle 42 homolog (S. cerevisiae)
B01	Mm.31672	NM_009873	Cdk6	Cyclin-dependent kinase 6
B02	Mm.233547	NM_009928	Col15a1	Collagen, type XV, alpha 1
B03	Mm.277735	NM_007742	Col1a1	Collagen, type I, alpha 1
B04	Mm.277792	NM_007743	Col1a2	Collagen, type I, alpha 2
B05	Mm.2423	NM_031163	Col2a1	Collagen, type II, alpha 1
B06	Mm.249555	NM_009930	Col3a1	Collagen, type III, alpha 1
B07	Mm.738	NM_009931	Col4a1	Collagen, type IV, alpha 1
B08	Mm.181021	NM_009932	Col4a2	Collagen, type IV, alpha 2
B09	Mm.10299	NM_007737	Col5a2	Collagen, type V, alpha 2
B10	Mm.334994	NM_016919	Col5a3	Collagen, type V, alpha 3
B11	Mm.6200	NM_007738	Col7a1	Collagen, type VII, alpha 1
B12	Mm.299735	NM_023465	Ctnnbip1	Catenin beta interacting protein 1
C01	Mm.407415	NM_053078	D0H4S114	DNA segment, human D4S114
C02	Mm.277217	NM_177646	Dgkd	Diacylglycerol kinase, delta
C03	Mm.21135	NM_148948	Dicer1	Dicer1, Dcr-1 homolog (Drosophila)
C04	Mm.37516	NM_026400	Dnajb11	DnaJ (Hsp40) homolog, subfamily B, member 11
C05	Mm.128580	NM_010066	Dnmt1	DNA methyltransferase (cytosine-5) 1
C06	Mm.5001	NM_007872	Dnmt3a	DNA methyltransferase 3A
C07	Mm.89772	NM_010068	Dnmt3b	DNA methyltransferase 3B
C08	Mm.4729	NM_010090	Dusp2	Dual specificity phosphatase 2
C09	Mm.131038	NM_023502	Elf2	E74-like factor 2
C10	Mm.275320	NM_007925	Eln	Elastin
C11	Mm.200692	NM_010136	Eomes	Eomesodermin homolog (Xenopus laevis)
C12	Mm.271644	NM_007993	Fbn1	Fibrillin 1
D01	Mm.24069	NM_010193	Fem1b	Feminization 1 homolog b (C. elegans)
D02	Mm.88793	NM_010196	Fga	Fibrinogen alpha chain
D03	Mm.30063	NM_181849	Fgb	Fibrinogen beta chain
D04	Mm.16422	NM_133862	Fgg	Fibrinogen gamma chain
D05	Mm.87142	NM_021899	Foxj2	Forkhead box J2
D06	Mm.210745	NM_008131	Glul	Glutamate-ammonia ligase (glutamine synthetase)
D07	Mm.1568	NM_008175	Grn	Granulin
D08	Mm.318567	NM_207225	Hdac4	Histone deacetylase 4

Position	UniGene	GenBank	Symbol	Description
D09	Mm.384468	NM_007545	Hrk	Harakiri, BCL2 interacting protein (contains only BH3 domain)
D10	Mm.30241	NM_023065	Ifi30	Interferon gamma inducible protein 30
D11	Mm.208991	NM_022655	Ireb2	Iron responsive element binding protein 2
D12	Mm.34883	NM_176922	Itga11	Integrin alpha 11
E01	Mm.1249	NM_010683	Lamc1	Laminin, gamma 1
E02	Mm.1514	NM_008509	Lpl	Lipoprotein lipase
E03	Mm.28678	NM_021516	Mark3	MAP/microtubule affinity-regulating kinase 3
E04	Mm.210334	NM_134012	Mbtd1	Mbt domain containing 1
E05	Mm.1639	NM_008562	Mcl1	Myeloid cell leukemia sequence 1
E06	Mm.217116	NM_008609	Mmp15	Matrix metallopeptidase 15
E07	Mm.330707	NM_010808	Mmp24	Matrix metallopeptidase 24
E08	Mm.16469	NM_008709	Mycn	V-myc myelocytomatosis viral related oncogene, neuroblastoma derived (avian)
E09	Mm.225050	NM_001081035	Nav3	Neuron navigator 3
E10	Mm.4691	NM_010917	Nid1	Nidogen 1
E11	Mm.308500	NM_138663	Pcdha12	Protocadherin alpha 12
E12	Mm.259333	NM_001024955	Pik3r1	Phosphatidylinositol 3-kinase, regulatory subunit, polypeptide 1 (p85 alpha)
F01	Mm.1237	NM_008885	Pmp22	Peripheral myelin protein 22
F02	Mm.45609	NM_016910	Ppm1d	Protein phosphatase 1D magnesium-dependent, delta isoform
F03	Mm.313076	NM_011625	Ppp1r13b	Protein phosphatase 1, regulatory (inhibitor) subunit 13B
F04	Mm.245395	NM_008960	Pten	Phosphatase and tensin homolog
F05	Mm.251774	NM_181395	Pxdn	Peroxidasin homolog (Drosophila)
F06	Mm.215745	NM_001081013	Rlf	Rearranged L-myc fusion sequence
F07	Mm.235998	NM_009115	S100b	S100 protein, beta polypeptide, neural
F08	Mm.272569	NM_009256	Serpinb9	Serine (or cysteine) peptidase inhibitor, clade B, member 9
F09	Mm.27120	NM_175465	Sestd1	SEC14 and spectrin domains 1
F10	Mm.257276	NM_023603	Sfpq	Splicing factor proline/glutamine rich (polypyrimidine tract binding protein associated)
F11	Mm.4618	NM_013672	Sp1	Trans-acting transcription factor 1
F12	Mm.291442	NM_009242	Sparc	Secreted acidic cysteine rich glycoprotein
G01	Mm.330986	NM_011896	Spry1	Sprouty homolog 1 (Drosophila)
G02	Mm.10229	NM_010178	Srsf10	Serine/arginine-rich splicing factor 10
G03	Mm.477879	NM_019507	Tbx21	T-box 21
G04	Mm.3629	NM_009335	Tcfap2c	Transcription factor AP-2, gamma
G05	Mm.18154	NM_009337	Tcl1	T-cell lymphoma breakpoint 1
G06	Mm.347607	NM_011561	Tdg	Thymine DNA glycosylase
G07	Mm.17774	NM_027384	Tet1	Tet oncogene 1
G08	Mm.3992	NM_009368	Tgfb3	Transforming growth factor, beta 3
G09	Mm.116683	NM_009397	Tnfaip3	Tumor necrosis factor, alpha-induced protein 3
G10	Mm.282184	NM_009505	Vegfa	Vascular endothelial growth factor A
G11	Mm.389856	NM_011756	Zfp36	Zinc finger protein 36
G12	Mm.235132	NM_007564	Zfp36l1	Zinc finger protein 36, C3H type-like 1
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.
RT² First Strand Kit (12)	Enzymes and reagents for cDNA synthesis	330401
RT² 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
RT² 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
RT² 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.

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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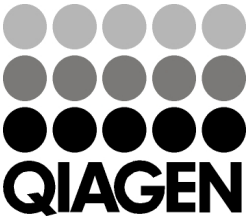

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