

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

Mouse miR-34a Targets

Cat. no. 330231 PAMM-6006ZA

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™



Description

The Mouse miR-34a Targets RT² Profiler PCR Array profiles the expression of 84 mmu-miR-34a-5p target genes. This panel of 84 genes includes currently known experimentally verified plus bioinformatically predicted target genes regulated by mmu-miR-34a-5p. This array also includes target genes regulated by other miRNAs that have the same seed sequence as mmu-miR-34a-5p, including mmu-miR-34b-5p, mmu-miR-34c-5p, mmu-miR-449a-5p, mmu-miR-449b, and mmu-miR-449c-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-34a 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	Acs1	Akap6	Ankrd52	Arid4b	Arpp19	Axin2	Bcl11b	Bcl2	Btbd11	Cacna1e	Ccne2	Cd44
B	Cdc25a	Cdk4	Cdk6	Col12a1	Coro1c	Ddx17	Dll1	Dmwd	Dnajb1	Dnajc24	E2f3	Flot2
C	Foxp1	Gmfb	Hdac1	Hnf4a	Ifnb1	Ing5	Jag1	Klhdc3	Ldha	Lef1	Letmd1	Lrrc40
D	Magea2	Magea3	Magea6	Map2k1	Met	Mgat5b	Mllt3	Myc	Mycn	Myh9	Nav1	Nav3
E	Ndudc2	Neto1	Notch1	Notch2	Nrn1	Nsun6	Pacs1	Palm2	Pdgfra	Pea15a	Pgm1	Pkp4
F	Phoc	Ppp1r11	Preb	Rcan1	Sar1a	Satb2	Sirt1	Slc25a27	Slc44a2	Snx15	Strn3	Syn2
G	Syr1	Trim67	Trim9	Tsn	Ttc19	Ubp1	Ucn2	Vat1	Vegfa	Wnt1	Yy1	Zdhhc17
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.210323	NM_007981	Acs1	Acyl-CoA synthetase long-chain family member 1
A02	Mm.310822	NM_198111	Akap6	A kinase (PKA) anchor protein 6
A03	Mm.440177	NM_172790	Ankrd52	Ankyrin repeat domain 52
A04	Mm.439784	NM_194262	Arid4b	AT rich interactive domain 4B (RBP1-like)
A05	Mm.247837	NM_021548	Arpp19	CAMP-regulated phosphoprotein 19
A06	Mm.71710	NM_015732	Axin2	Axin2
A07	Mm.392694	NM_021399	Bcl11b	B-cell leukemia/lymphoma 11B
A08	Mm.257460	NM_009741	Bcl2	B-cell leukemia/lymphoma 2
A09	Mm.36544	NM_001017525	Btbd11	BTB (POZ) domain containing 11
A10	Mm.267517	NM_009782	Cacna1e	Calcium channel, voltage-dependent, R type, alpha 1E subunit
A11	Mm.35867	NM_009830	Ccne2	Cyclin E2
A12	Mm.423621	NM_009851	Cd44	CD44 antigen
B01	Mm.307103	NM_007658	Cdc25a	Cell division cycle 25 homolog A (S. pombe)
B02	Mm.6839	NM_009870	Cdk4	Cyclin-dependent kinase 4
B03	Mm.31672	NM_009873	Cdk6	Cyclin-dependent kinase 6
B04	Mm.3819	NM_007730	Col12a1	Collagen, type XII, alpha 1
B05	Mm.260158	NM_011779	Coro1c	Coronin, actin binding protein 1C
B06	Mm.29644	NM_199080	Ddx17	DEAD (Asp-Glu-Ala-Asp) box polypeptide 17
B07	Mm.4875	NM_007865	Dll1	Delta-like 1 (Drosophila)
B08	Mm.2852	NM_010058	Dmwd	Dystrophia myotonica-containing WD repeat motif
B09	Mm.282092	NM_018808	Dnajb1	DnaJ (Hsp40) homolog, subfamily B, member 1
B10	Mm.25661	NM_026992	Dnajc24	DnaJ (Hsp40) homolog, subfamily C, member 24
B11	Mm.268356	NM_010093	E2f3	E2F transcription factor 3
B12	Mm.130227	NM_008028	Flot2	Flotillin 2
C01	Mm.234965	NM_053202	Foxp1	Forkhead box P1
C02	Mm.87312	NM_022023	Gmfb	Glia maturation factor, beta
C03	Mm.202504	NM_008228	Hdac1	Histone deacetylase 1
C04	Mm.202383	NM_008261	Hnf4a	Hepatic nuclear factor 4, alpha
C05	Mm.1245	NM_010510	Ifnb1	Interferon beta 1, fibroblast
C06	Mm.64065	NM_025454	Ing5	Inhibitor of growth family, member 5
C07	Mm.22398	NM_013822	Jag1	Jagged 1
C08	Mm.254784	NM_027910	Klhdc3	Kelch domain containing 3
C09	Mm.29324	NM_010699	Ldha	Lactate dehydrogenase A
C10	Mm.255219	NM_010703	Lef1	Lymphoid enhancer binding factor 1
C11	Mm.275272	NM_134093	Letmd1	LETM1 domain containing 1
C12	Mm.358704	NM_024194	Lrrc40	Leucine rich repeat containing 40
D01	Mm.326653	NM_020016	Magea2	Melanoma antigen, family A, 2
D02	Mm.328528	NM_020017	Magea3	Melanoma antigen, family A, 3
D03	Mm.377098	NM_020019	Magea6	Melanoma antigen, family A, 6
D04	Mm.248907	NM_008927	Map2k1	Mitogen-activated protein kinase kinase 1
D05	Mm.86844	NM_008591	Met	Met proto-oncogene
D06	Mm.35141	NM_172948	Mgat5b	Mannoside acetylglucosaminyltransferase 5, isoenzyme B
D07	Mm.288898	NM_029931	Mllt3	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 3
D08	Mm.2444	NM_010849	Myc	Myelocytomatosis oncogene

Position	UniGene	GenBank	Symbol	Description
D09	Mm.16469	NM_008709	Mycn	V-myc myelocytomatosis viral related oncogene, neuroblastoma derived (avian)
D10	Mm.29677	NM_022410	Myh9	Myosin, heavy polypeptide 9, non-muscle
D11	Mm.34977	NM_173437	Nav1	Neuron navigator 1
D12	Mm.225050	NM_001081035	Nav3	Neuron navigator 3
E01	Mm.334031	NM_024220	Ndufc2	NADH dehydrogenase (ubiquinone) 1, subcomplex unknown, 2
E02	Mm.329578	NM_144946	Neto1	Neuropilin (NRP) and tolloid (TLL)-like 1
E03	Mm.290610	NM_008714	Notch1	Notch gene homolog 1 (Drosophila)
E04	Mm.254017	NM_010928	Notch2	Notch gene homolog 2 (Drosophila)
E05	Mm.232930	NM_153529	Nrn1	Neuritin 1
E06	Mm.478923	NM_028950	Nsun6	NOL1/NOP2/Sun domain family member 6
E07	Mm.234923	NM_153129	Pacs1	Phosphofurin acidic cluster sorting protein 1
E08	Mm.331630	NM_172868	Palm2	Paralemmin 2
E09	Mm.221403	NM_011058	Pdgfra	Platelet derived growth factor receptor, alpha polypeptide
E10	Mm.544	NM_011063	Pea15a	Phosphoprotein enriched in astrocytes 15A
E11	Mm.2325	NM_025700	Pgm1	Phosphoglucomutase 1
E12	Mm.260938	NM_026361	Pkp4	Plakophilin 4
F01	Mm.16347	NM_010932	Pnoc	Prepronociceptin
F02	Mm.46176	NM_029632	Ppp1r11	Protein phosphatase 1, regulatory (inhibitor) subunit 11
F03	Mm.272414	NM_016703	Preb	Prolactin regulatory element binding
F04	Mm.265744	NM_019466	Rcan1	Regulator of calcineurin 1
F05	Mm.391794	NM_009120	Sar1a	SAR1 gene homolog A (S. cerevisiae)
F06	Mm.145599	NM_139146	Satb2	Special AT-rich sequence binding protein 2
F07	Mm.351459	NM_019812	Sirt1	Sirtuin 1 (silent mating type information regulation 2, homolog) 1 (S. cerevisiae)
F08	Mm.288697	NM_028711	Slc25a27	Solute carrier family 25, member 27
F09	Mm.148425	NM_152808	Slc44a2	Solute carrier family 44, member 2
F10	Mm.329629	NM_026912	Snx15	Sorting nexin 15
F11	Mm.65979	NM_052973	Strn3	Striatin, calmodulin binding protein 3
F12	Mm.441431	NM_013681	Syn2	Synapsin II
G01	Mm.289702	NM_009306	Syt1	Synaptotagmin I
G02	Mm.422769	NM_198632	Trim67	Tripartite motif-containing 67
G03	Mm.184012	NM_053167	Trim9	Tripartite motif-containing 9
G04	Mm.426637	NM_011650	Tsn	Translin
G05	Mm.69739	NM_028360	Ttc19	Tetratricopeptide repeat domain 19
G06	Mm.28052	NM_013699	Ubp1	Upstream binding protein 1
G07	Mm.388865	NM_145077	Ucn2	Urocortin 2
G08	Mm.29210	NM_012037	Vat1	Vesicle amine transport protein 1 homolog (T californica)
G09	Mm.282184	NM_009505	Vegfa	Vascular endothelial growth factor A
G10	Mm.1123	NM_021279	Wnt1	Wingless-related MMTV integration site 1
G11	Mm.3868	NM_009537	Yy1	YY1 transcription factor
G12	Mm.339281	NM_172554	Zdhc17	Zinc finger, DHHC domain containing 17
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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