

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

Mouse miR-146a Targets

Cat. no. 330231 PAMM-6004ZA

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-146a Targets RT² Profiler PCR Array profiles the expression of 84 mmu-miR-146a-5p target genes. This panel of 84 genes includes currently known experimentally verified plus bioinformatically predicted target genes regulated by mmu-miR-146a-5p. This array also includes target genes regulated by other miRNAs that have the same seed sequence as mmu-miR-146a-5p, including mmu-miR-146b-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-146a 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	Adarb1	Arl5b	Arl8a	Atg12	AW555464	Bcl11a	Bcor1	Brca1	Brca2	Blg2	Cask
B	Cd40lg	Cd80	Cdc42bpa	Celf3	Cfh	Clcn4-2	Cnfr	Csf1r	Cux1	Dlst	Dnpep	Dot1l
C	Eif4g2	Elavl1	ErbB4	Esy2	Fadd	Fas	Fbxo28	Fbxw2	Flot2	Fryl	Gas7	Gm106
D	Gosr1	Hnmpd	Igf2bp1	Irak1	Irak2	Itgav	Kdm2b	Klf7	Kpna6	Lin7a	Lrrc15	Med1
E	Mmp16	Myt1	Notch2	Nova1	Numb	Phox2b	Pm20d2	Ppp2r3a	Psmc3	Rabgap1	Robo1	Rux11
F	Sema3g	Sh3gl2	Slc10a3	Slc2a3	Slc38a1	Smad4	Sort1	Sphk2	Stat1	Stc1	Strbp	Stx3
G	Taf9b	Tanc2	Tdrkh	Tln2	Traf6	Usp3	Usp47	Var1	Vbp1	Zfyve1	Znf512b	Znf3
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.276815	NM_130895	Adarb1	Adenosine deaminase, RNA-specific, B1
A03	Mm.174068	NM_029466	Arl5b	ADP-ribosylation factor-like 5B
A04	Mm.174998	NM_026823	Arl8a	ADP-ribosylation factor-like 8A
A05	Mm.9852	NM_026217	Atg12	Autophagy-related 12 (yeast)
A06	Mm.23689	NM_001024602	AW555464	Expressed sequence AW555464
A07	Mm.53687	NM_016707	Bcl11a	B-cell CLL/lymphoma 11A (zinc finger protein)
A08	Mm.210146	NM_178782	Bcor1	BCL6 co-repressor-like 1
A09	Mm.244975	NM_009764	Brca1	Breast cancer 1
A10	Mm.236256	NM_009765	Brca2	Breast cancer 2
A11	Mm.392646	NM_007570	Blg2	B-cell translocation gene 2, anti-proliferative
A12	Mm.327591	NM_009806	Cask	Calcium/calmodulin-dependent serine protein kinase (MAGUK family)
B01	Mm.4861	NM_011616	Cd40lg	CD40 ligand
B02	Mm.89474	NM_009855	Cd80	CD80 antigen
B03	Mm.259655	NM_001033285	Cdc42bpa	Cdc42 binding protein kinase alpha
B04	Mm.44292	NM_172434	Celf3	VCUGBP, Elav-like family member 3
B05	Mm.8655	NM_009888	Cfh	Complement component factor h
B06	Mm.297883	NM_011334	Clcn4-2	Chloride channel 4-2
B07	Mm.425178	NM_016673	Cnfr	Ciliary neurotrophic factor receptor
B08	Mm.22574	NM_001037859	Csf1r	Colony stimulating factor 1 receptor
B09	Mm.320317	NM_009986	Cux1	Cut-like homeobox 1
B10	Mm.296221	NM_030225	Dlst	Dihydrolipoamide S-succinyltransferase (E2 component of 2-oxo-glutarate complex)
B11	Mm.24680	NM_016878	Dnpep	Aspartyl aminopeptidase
B12	Mm.152371	NM_199322	Dot1l	DOT1-like, histone H3 methyltransferase (S. cerevisiae)
C01	Mm.185453	NM_013507	Eif4g2	Eukaryotic translation initiation factor 4, gamma 2
C02	Mm.119162	NM_010485	Elavl1	ELAV (embryonic lethal, abnormal vision, Drosophila)-like 1 (Hu antigen R)
C03	Mm.442420	NM_010154	ErbB4	V-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian)
C04	Mm.273755	NM_028731	Esy2	Extended synaptotagmin-like protein 2
C05	Mm.5126	NM_010175	Fadd	Fas (TNFRSF6)-associated via death domain
C06	Mm.1626	NM_007987	Fas	Fas (TNF receptor superfamily member 6)
C07	Mm.30737	NM_175127	Fbxo28	F-box protein 28
C08	Mm.4465	NM_013890	Fbxw2	F-box and WD-40 domain protein 2
C09	Mm.130227	NM_008028	Flot2	Flotillin 2
C10	Mm.260594	NM_028194	Fryl	Furry homolog-like (Drosophila)
C11	Mm.40338	NM_008088	Gas7	Growth arrest specific 7
C12	Mm.131665	NM_001033288	Gm106	Predicted gene 106
D01	Mm.20931	NM_016810	Gosr1	Golgi SNAP receptor complex member 1
D02	Mm.150231	NM_007516	Hnmpd	Heterogeneous nuclear ribonucleoprotein D
D03	Mm.294769	NM_009951	Igf2bp1	Insulin-like growth factor 2 mRNA binding protein 1
D04	Mm.38241	NM_008363	Irak1	Interleukin-1 receptor-associated kinase 1
D05	Mm.152142	NM_172161	Irak2	Interleukin-1 receptor-associated kinase 2
D06	Mm.227	NM_008402	Itgav	Integrin alpha V
D07	Mm.86406	NM_013910	Kdm2b	Lysine (K)-specific demethylase 2B

Position	UniGene	GenBank	Symbol	Description
D08	Mm.29466	NM_033563	Klf7	Kruppel-like factor 7 (ubiquitous)
D09	Mm.202358	NM_008468	Kpna6	Karyopherin (importin) alpha 6
D10	Mm.268025	NM_001033223	Lin7a	Lin-7 homolog A (C. elegans)
D11	Mm.290677	NM_028973	Lrrc15	Leucine rich repeat containing 15
D12	Mm.12926	NM_013634	Med1	Mediator complex subunit 1
E01	Mm.187315	NM_019724	Mmp16	Matrix metalloproteinase 16
E02	Mm.458718	NM_008665	Myt1	Myelin transcription factor 1
E03	Mm.254017	NM_010928	Notch2	Notch gene homolog 2 (Drosophila)
E04	Mm.247195	NM_021361	Nova1	Neuro-oncological ventral antigen 1
E05	Mm.4390	NM_010949	Numb	Numb gene homolog (Drosophila)
E06	Mm.62505	NM_008888	Phox2b	Paired-like homeobox 2b
E07	Mm.372465	NM_001034867	Pm20d2	Peptidase M20 domain containing 2
E08	Mm.271249	NM_001161362	Ppp2r3a	Protein phosphatase 2, regulatory subunit B", alpha
E09	Mm.12194	NM_009439	Psmc3	Proteasome (prosome, macropain) 26S subunit, non-ATPase, 3
E10	Mm.383192	NM_146121	Rabgap1	RAB GTPase activating protein 1
E11	Mm.310772	NM_019413	Robo1	Roundabout homolog 1 (Drosophila)
E12	Mm.470961	NM_009822	Runx1l1	Runt-related transcription factor 1; translocated to, 1 (cyclin D-related)
F01	Mm.27812	NM_001025379	Sema3g	Sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3G
F02	Mm.143603	NM_019535	Sh3gl2	SH3-domain GRB2-like 2
F03	Mm.19931	NM_145406	Slc10a3	Solute carrier family 10 (sodium/bile acid cotransporter family), member 3
F04	Mm.395108	NM_011401	Slc2a3	Solute carrier family 2 (facilitated glucose transporter), member 3
F05	Mm.103568	NM_134086	Slc38a1	Solute carrier family 38, member 1
F06	Mm.100399	NM_008540	Smad4	MAD homolog 4 (Drosophila)
F07	Mm.157119	NM_019972	Sort1	Sortilin 1
F08	Mm.24222	NM_020011	Sphk2	Sphingosine kinase 2
F09	Mm.277406	NM_009283	Stat1	Signal transducer and activator of transcription 1
F10	Mm.20911	NM_009285	Stc1	Stanniocalcin 1
F11	Mm.237095	NM_009261	Strbp	Spermatid perinuclear RNA binding protein
F12	Mm.272264	NM_011502	Stx3	Syntaxin 3
G01	Mm.19440	NM_001001176	Taf9b	TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor
G02	Mm.22501	NM_181071	Tanc2	Tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 2
G03	Mm.331198	NM_028307	Tdrkh	Tudor and KH domain containing protein
G04	Mm.33645	NM_001081242	Tln2	Talin 2
G05	Mm.292729	NM_009424	Traf6	Tnf receptor-associated factor 6
G06	Mm.38976	NM_144937	Usp3	Ubiquitin specific peptidase 3
G07	Mm.16974	NM_133758	Usp47	Ubiquitin specific peptidase 47
G08	Mm.29210	NM_012037	Vat1	Vesicle amine transport protein 1 homolog (T californica)
G09	Mm.8294	NM_011692	Vbp1	Von Hippel-Lindau binding protein 1
G10	Mm.59257	NM_183154	Zfyve1	Zinc finger, FYVE domain containing 1
G11	Mm.386888	NM_001164597	Znf512b	Zinc finger protein 512B
G12	Mm.216313	NM_001080924	Znrf3	Zinc and ring finger 3
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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