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

Rat mir-1 & miR-206 Targets

Cat. no. 330231 PARN-6005ZA

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 Rat miR-1 & miR-206 Targets RT² Profiler PCR Array profiles the expression of 84 rno-miR-1-3p and rno-miR-206-3p target genes. This panel of 84 genes includes currently known experimentally verified plus bioinformatically predicted target genes regulated by rno-miR-1-3p and rno-miR-206-3p. 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-1 and miR-206 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	Adar	Anxa2	Anxa4	Arcn1	Ash2l	Atp6v1b2	Azin1	Bcl2	Bdnf	Calm1	Calm2	Calm3
B	Clcn3	Cltc	Cnn3	Edn1	Eif1ay	Esr1	Fbxl14	Fn1	Frs2	Fstl1	G6pd	Gata4
C	Gch1	Gja1	Hcn2	Hcn4	Hdac4	Hhip	Hiat1	Hnrnpu	Hoxb4	Hs3st3b1	Hspa1b	Hspa4
D	Hspd1	Id1	Id2	Id3	Igf1	Igf1r	Irx5	Kcne1	Kcnj2	Kif2a	Klf4	LOC304000
E	Matr3	Mef2a	Met	Mll5	Mmd	Mon2	Ncl	Ndrg3	Notch3	Osbpl7	Pax3	Pax7
F	Pim1	Pogk	Pola1	Ppp2r5a	Rasa1	Rit2	Rsbn1	Sept2	Setbp1	Sfrp1	Smarcb1	Sox6
G	Sri	Stc2	Tac1	Tacr1	Tagln2	Thoc2	Tmsb4x	Tns3	Tppp	Trank1	Ube4a	Utrn
H	Actb	B2m	Hprt1	Ldha	Rplp1	RGDC	RTC	RTC	RTC	PPC	PPC	PPC

Gene table: RT² Profiler PCR Array

Position	UniGene	GenBank	Symbol	Description
A01	Rn.10056	NM_031006	Adar	Adenosine deaminase, RNA-specific
A02	Rn.90546	NM_019905	Anxa2	Annexin A2
A03	Rn.19270	NM_024155	Anxa4	Annexin A4
A04	Rn.2185	NM_001007662	Arcn1	Archain 1
A05	Rn.219095	NM_001106089	Ash2l	Ash2 (absent, small, or homeotic)-like (Drosophila)
A06	Rn.8109	NM_057213	Atp6v1b2	ATPase, H transporting, lysosomal V1 subunit B2
A07	Rn.6290	NM_022585	Azin1	Antizyme inhibitor 1
A08	Rn.9996	NM_016993	Bcl2	B-cell CLL/lymphoma 2
A09	Rn.11266	NM_012513	Bdnf	Brain-derived neurotrophic factor
A10	Rn.4166	NM_031969	Calm1	Calmodulin 1
A11	Rn.5968	NM_017326	Calm2	Calmodulin 2
A12	Rn.2892	NM_012518	Calm3	Calmodulin 3
B01	Rn.4175	NM_053363	Clcn3	Chloride channel 3
B02	Rn.3589	NM_019299	Cltc	Clathrin, heavy chain (Hc)
B03	Rn.57635	NM_019359	Cnn3	Calponin 3, acidic
B04	Rn.10918	NM_012548	Edn1	Endothelin 1
B05	Rn.106940	NM_001106963	Eif1ay	Eukaryotic translation initiation factor 1A, Y-linked
B06	Rn.10595	NM_012689	Esr1	Estrogen receptor 1
B07	Rn.18972	XM_232330	Fbxl14	F-box and leucine-rich repeat protein 14
B08	Rn.1604	NM_019143	Fn1	Fibronectin 1
B09	Rn.22182	NM_001108097	Frs2	Fibroblast growth factor receptor substrate 2
B10	Rn.95652	NM_024369	Fstl1	Follistatin-like 1
B11	Rn.11040	NM_017006	G6pd	Glucose-6-phosphate dehydrogenase
B12	Rn.26251	NM_144730	Gata4	GATA binding protein 4
C01	Rn.28195	NM_024356	Gch1	GTP cyclohydrolase 1
C02	Rn.10346	NM_012567	Gja1	Gap junction protein, alpha 1
C03	Rn.162907	NM_053684	Hcn2	Hyperpolarization activated cyclic nucleotide-gated potassium channel 2
C04	Rn.41082	NM_021658	Hcn4	Hyperpolarization activated cyclic nucleotide-gated potassium channel 4
C05	Rn.23483	XM_343629	Hdac4	Histone deacetylase 4
C06	Rn.204425	XM_238042	Hhip	Hedgehog-interacting protein
C07	Rn.128804	NM_001106467	Hiat1	Hippocampus abundant gene transcript 1
C08	Rn.4328	NM_057139	Hnrnpu	Heterogeneous nuclear ribonucleoprotein U
C09	Rn.209614	NM_001100787	Hoxb4	Homeo box B4
C10	Rn.213614	XM_220557	Hs3st3b1	Heparan sulfate (glucosamine) 3-O-sulfotransferase 3B1
C11	Rn.1950	NM_212504	Hspa1b	Heat shock 70kD protein 1B (mapped)
C12	Rn.163092	NM_153629	Hspa4	Heat shock protein 4
D01	Rn.102058	NM_022229	Hspd1	Heat shock protein 1 (chaperonin)
D02	Rn.2113	NM_012797	Id1	Inhibitor of DNA binding 1
D03	Rn.3272	NM_013060	Id2	Inhibitor of DNA binding 2
D04	Rn.2760	NM_013058	Id3	Inhibitor of DNA binding 3
D05	Rn.6282	NM_178866	Igf1	Insulin-like growth factor 1
D06	Rn.10957	NM_052807	Igf1r	Insulin-like growth factor 1 receptor
D07	Rn.141335	NM_001030044	Irx5	Iroquois homeobox 5
D08	Rn.9734	NM_012973	Kcne1	Potassium voltage-gated channel, Isk-related family, member 1
D09	Rn.44415	NM_017296	Kcnj2	Potassium inwardly-rectifying channel, subfamily J, member 2

Position	UniGene	GenBank	Symbol	Description
D10	Rn.218992	XM_345150	Kif2a	Kinesin family member 2A
D11	Rn.7719	NM_053713	Klf4	Kruppel-like factor 4 (gut)
D12	Rn.61796	NM_001006990	LOC304000	Cell adhesion molecule JCAM
E01	Rn.29774	NM_019149	Matr3	Matrin 3
E02	Rn.162435	NM_001014035	Mef2a	Myocyte enhancer factor 2a
E03	Rn.10617	NM_031517	Met	Met proto-oncogene
E04	Rn.106040	XM_231287	Mll5	Myeloid/lymphoid or mixed-lineage leukemia 5 (trithorax homolog, Drosophila)
E05	Rn.163163	NM_001007673	Mmd	Monocyte to macrophage differentiation-associated
E06	Rn.154642	XM_001053843	Mon2	MON2 homolog (S. cerevisiae)
E07	Rn.144561	NM_012749	Ncl	Nucleolin
E08	Rn.93910	NM_001013923	Ndrg3	N-myc downstream regulated gene 3
E09	Rn.53876	NM_020087	Notch3	Notch homolog 3 (Drosophila)
E10	Rn.205144	NM_001107044	Osbpl7	Oxysterol binding protein-like 7
E11	Rn.214198	NM_053710	Pax3	Paired box 3
E12	Rn.134931	XM_001071787	Pax7	Paired box 7
F01	Rn.34888	NM_017034	Pim1	Pim-1 oncogene
F02	Rn.18738	NM_001107194	Pogk	Pogo transposable element with KRAB domain
F03	Rn.92345	XM_242396	Pola1	Polymerase (DNA directed), alpha 1
F04	Rn.104461	NM_001107891	Ppp2r5a	Protein phosphatase 2, regulatory subunit B', alpha isoform
F05	Rn.12223	NM_013135	Rasa1	RAS p21 protein activator (GTPase activating protein) 1
F06	Rn.106719	NM_001013060	Rit2	Ras-like without CAAX 2
F07	Rn.38954	XM_227540	Rsbn1	Round spermatid basic protein 1
F08	Rn.98570	NM_057148	Sept2	Septin 2
F09	Rn.52458	XM_225744	Setbp1	SET binding protein 1
F10	Rn.163333	XM_224987	Sfrp1	Secreted frizzled-related protein 1
F11	Rn.73954	NM_001025728	Smarcb1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily b, member 1
F12	Rn.76073	NM_001024751	Sox6	SRY (sex determining region Y)-box 6
G01	Rn.216447	NM_001128190	Sri	Sorcin
G02	Rn.44823	NM_022230	Stc2	Stanniocalcin 2
G03	Rn.1920	NM_012666	Tac1	Tachykinin 1
G04	Rn.89609	NM_012667	Tacr1	Tachykinin receptor 1
G05	Rn.104497	NM_001013127	Tagln2	Transgelin 2
G06	Rn.35526	XM_233081	Thoc2	THO complex 2
G07	Rn.212208	NM_031136	Tmsb4x	Thymosin beta 4, X-linked
G08	Rn.198975	XM_341256	Tns3	Tensin 3
G09	Rn.138388	NM_001108461	Tppp	Tubulin polymerization promoting protein
G10	Rn.74459	XM_001076394	Trank1	Tetratricopeptide repeat and ankyrin repeat containing 1
G11	Rn.102204	NM_207610	Ube4a	Ubiquitination factor E4A (UFD2 homolog, yeast)
G12	Rn.9901	NM_013070	Utrn	Utrophin
H01	Rn.94978	NM_031144	Actb	Actin, beta
H02	Rn.1868	NM_012512	B2m	Beta-2 microglobulin
H03	Rn.47	NM_012583	Hprt1	Hypoxanthine phosphoribosyltransferase 1
H04	Rn.107896	NM_017025	Ldha	Lactate dehydrogenase A
H05	Rn.973	NM_001007604	Rplp1	Ribosomal protein, large, P1
H06	N/A	U26919	RGDC	Rat 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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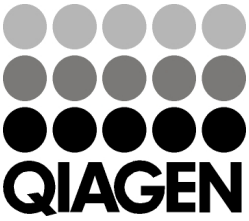

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