

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
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 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	Mil5	Mmd	Mon2	Ncl	Ndrp3	Notch3	Osbpl7	Pax3	Pax7
F	Pim1	Pogk	Polr1	Ppp2r5a	Rasa1	Rit2	Rsb1	Sept2	Seip1	Sfrp1	Smadcb1	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	Ndr3	N-myc downstream regulated gene 3
E09	Rn.53876	NM_020087	Notch3	Notch homolog 3 (Drosophila)
E10	Rn.205144	NM_001107044	Osblp7	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 CAAAX 2
F07	Rn.38954	XM_227540	Rsb1	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	Smadcb1	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.
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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