

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

Rat miR-29 Targets

Cat. no. 330231 PARN-6012ZA

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 Rat miR-29 Targets RT² Profiler PCR Array profiles the expression of 84 rno-miR-29a-3p target genes. This panel of 84 genes includes currently known experimentally verified plus bioinformatically predicted target genes regulated by rno-miR-29a-3p. This array also includes target genes regulated by other miRNAs that have the same seed sequence as rno-miR-29a-3p, including rno-miR-29b-3p and rno-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 $\Delta\Delta$ CT 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	<i>Acvr2a</i>	<i>Adam12</i>	<i>Adams9</i>	<i>Ak3</i>	<i>Bace1</i>	<i>Bak1</i>	<i>Bbc3</i>	<i>Bcl2</i>	<i>Bcl2l11</i>	<i>Bmf</i>	<i>Cd276</i>	<i>Cdc42</i>
B	<i>Cdk6</i>	<i>Col15a1</i>	<i>Col1a1</i>	<i>Col1a2</i>	<i>Col2a1</i>	<i>Col3a1</i>	<i>Col4a1</i>	<i>Col4a2</i>	<i>Col5a2</i>	<i>Col5a3</i>	<i>Col7a1</i>	<i>Ctnnbip1</i>
C	<i>Dgkd</i>	<i>Dicer1</i>	<i>Dnajb11</i>	<i>Dnmt1</i>	<i>Dnmt3a</i>	<i>Dnmt3b</i>	<i>Dusp2</i>	<i>Elf2</i>	<i>Eln</i>	<i>Eomes</i>	<i>Fbn1</i>	<i>Fem1b</i>
D	<i>Fga</i>	<i>Fgb</i>	<i>Fgg</i>	<i>Foxj2</i>	<i>Glul</i>	<i>Grrn</i>	<i>Hdac4</i>	<i>Hrk</i>	<i>Ifi30</i>	<i>Ireb2</i>	<i>Irga11</i>	<i>Lamc1</i>
E	<i>Lpl</i>	<i>Mark3</i>	<i>Mcl1</i>	<i>Mest</i>	<i>Mmp15</i>	<i>Mmp24</i>	<i>Mycn</i>	<i>Nav3</i>	<i>Nid1</i>	<i>Nrep</i>	<i>Pcdha12</i>	<i>Pik3r1</i>
F	<i>Pmp22</i>	<i>Ppm1d</i>	<i>Ppp1r13b</i>	<i>Pten</i>	<i>Pxdn</i>	<i>Rab30</i>	<i>Rlf</i>	<i>S100b</i>	<i>Serpib9</i>	<i>Sest1</i>	<i>Sfpq</i>	<i>Sp1</i>
G	<i>Sparc</i>	<i>Spry1</i>	<i>Srsf10</i>	<i>Tbx21</i>	<i>Tcl1a</i>	<i>Tdg</i>	<i>Ter1</i>	<i>Tfap2c</i>	<i>Tgfb3</i>	<i>Vegfa</i>	<i>Zfp36</i>	<i>Zfp36l1</i>
H	<i>Actb</i>	<i>B2m</i>	<i>Hprt1</i>	<i>Ldha</i>	<i>Rplp1</i>	<i>RGDC</i>	<i>RTC</i>	<i>RTC</i>	<i>RTC</i>	<i>PPC</i>	<i>PPC</i>	<i>PPC</i>

Gene table: RT² Profiler PCR Array

Position	UniGene	GenBank	Symbol	Description
A01	Rn.161783	NM_031571	<i>Acvr2a</i>	Activin A receptor, type IIA
A02	Rn.161136	XM_001054670	<i>Adam12</i>	ADAM metalloproteinase domain 12
A03	Rn.162758	NM_001107877	<i>Adams9</i>	A disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type 1 motif, 9
A04	Rn.60	NM_013218	<i>Ak3</i>	Adenylate kinase 3
A05	Rn.207201	NM_019204	<i>Bace1</i>	Beta-site APP cleaving enzyme 1
A06	Rn.14598	NM_053812	<i>Bak1</i>	BCL2-antagonist/killer 1
A07	Rn.25176	NM_173837	<i>Bbc3</i>	Bcl-2 binding component 3
A08	Rn.9996	NM_016993	<i>Bcl2</i>	B-cell CLL/lymphoma 2
A09	Rn.82709	NM_022612	<i>Bcl2l11</i>	BCL2-like 11 (apoptosis facilitator)
A10	Rn.213264	NM_139258	<i>Bmf</i>	Bcl2 modifying factor
A11	Rn.76129	NM_182824	<i>Cd276</i>	Cd276 molecule
A12	Rn.60067	NM_171994	<i>Cdc42</i>	Cell division cycle 42 (GTP binding protein)
B01	Rn.162731	XM_342638	<i>Cdk6</i>	Cyclin-dependent kinase 6
B02	Rn.31832	XM_216399	<i>Col15a1</i>	Collagen, type XV, alpha 1
B03	Rn.2953	NM_053304	<i>Col1a1</i>	Collagen, type I, alpha 1
B04	Rn.107239	NM_053356	<i>Col1a2</i>	Collagen, type I, alpha 2
B05	Rn.10124	NM_012929	<i>Col2a1</i>	Collagen, type II, alpha 1
B06	Rn.3247	NM_032085	<i>Col3a1</i>	Collagen, type III, alpha 1
B07	Rn.53801	NM_001135009	<i>Col4a1</i>	Collagen, type IV, alpha 1
B08	Rn.2237	XM_225043	<i>Col4a2</i>	Collagen, type IV, alpha 2
B09	Rn.2875	NM_053488	<i>Col5a2</i>	Collagen, type V, alpha 2
B10	Rn.38654	NM_021760	<i>Col5a3</i>	Collagen, type V, alpha 3
B11	Rn.24307	NM_001106858	<i>Col7a1</i>	Procollagen, type VII, alpha 1
B12	Rn.36076	XM_001075213	<i>Ctnnbip1</i>	Catenin, beta-interacting protein 1
C01	Rn.17832	XM_347258	<i>Dgkd</i>	Diacylglycerol kinase, delta
C02	Rn.205881	XM_001068155	<i>Dicer1</i>	Dicer 1, ribonuclease type III
C03	Rn.14603	NM_001015021	<i>Dnajb11</i>	DnaJ (Hsp40) homolog, subfamily B, member 11
C04	Rn.6955	NM_053354	<i>Dnmt1</i>	DNA (cytosine-5-)-methyltransferase 1
C05	Rn.92659	NM_001003958	<i>Dnmt3a</i>	DNA (cytosine-5-)-methyltransferase 3 alpha
C06	Rn.117353	NM_001003959	<i>Dnmt3b</i>	DNA (cytosine-5-)-methyltransferase 3 beta
C07	Rn.136933	NM_001012089	<i>Dusp2</i>	Dual specificity phosphatase 2
C08	Rn.107459	NM_001012181	<i>Elf2</i>	E74-like factor 2
C09	Rn.54384	NM_012722	<i>Eln</i>	Elastin
C10	Rn.208436	XM_001061749	<i>Eomes</i>	Eomesodermin homolog (<i>Xenopus laevis</i>)
C11	Rn.12759	NM_031825	<i>Fbn1</i>	Fibrillin 1
C12	Rn.219320	NM_001108157	<i>Fem1b</i>	Fem-1 homolog b (<i>C. elegans</i>)
D01	Rn.98846	NM_001008724	<i>Fga</i>	Fibrinogen alpha chain
D02	Rn.11416	NM_020071	<i>Fgb</i>	Fibrinogen beta chain
D03	Rn.1702	NM_012559	<i>Fgg</i>	Fibrinogen gamma chain
D04	Rn.63642	XM_001060923	<i>Foxj2</i>	Forkhead box J2
D05	Rn.2204	NM_017073	<i>Glul</i>	Glutamate-ammonia ligase (glutamine synthetase)
D06	Rn.5820	NM_017113	<i>Grrn</i>	Granulin
D07	Rn.23483	XM_343629	<i>Hdac4</i>	Histone deacetylase 4
D08	Rn.89639	NM_057130	<i>Hrk</i>	Harakiri, BCL2 interacting protein (contains only BH3 domain)

Position	UniGene	GenBank	Symbol	Description
D09	Rn.3370	NM_001030026	Ifi30	Interferon gamma inducible protein 30
D10	Rn.10132	NM_022863	Ireb2	Iron responsive element binding protein 2
D11	Rn.64478	NM_001108156	Itga11	Integrin, alpha 11
D12	Rn.7145	NM_053966	Lamc1	Laminin, gamma 1
E01	Rn.3834	NM_012598	Lpl	Lipoprotein lipase
E02	Rn.23232	NM_130749	Mark3	MAP/microtubule affinity-regulating kinase 3
E03	Rn.129914	NM_021846	Mcl1	Myeloid cell leukemia sequence 1
E04	Rn.59431	NM_001009617	Mest	Mesoderm specific transcript homolog (mouse)
E05	Rn.165433	NM_001106168	Mmp15	Matrix metalloproteinase 15
E06	Rn.3117	NM_031757	Mmp24	Matrix metalloproteinase 24
E07	Rn.81116	NM_001013096	Mycn	V-myc myelocytomatosis viral related oncogene, neuroblastoma derived (avian)
E08	Rn.91711	NM_001191782	Nav3	Neuron navigator 3
E09	Rn.105658	XM_213954	Nid1	Nidogen 1
E10	Rn.221910	NM_178096	Nrep	Neuronal regeneration related protein
E11	Rn.22308	NM_053940	Pcdha12	Protocadherin alpha 12
E12	Rn.10599	NM_013005	Pik3r1	Phosphoinositide-3-kinase, regulatory subunit 1 (alpha)
F01	Rn.1476	NM_017037	Pmp22	Peripheral myelin protein 22
F02	Rn.15540	NM_001105825	Ppm1d	Protein phosphatase 1D magnesium-dependent, delta isoform
F03	Rn.30183	NM_001108062	Ppp1r13b	Protein phosphatase 1, regulatory (inhibitor) subunit 13B
F04	Rn.22158	NM_031606	Pten	Phosphatase and tensin homolog
F05	Rn.40541	XM_001053103	Pxdn	Peroxidasin homolog (Drosophila)
F06	Rn.161854	NM_001015012	Rab30	RAB30, member RAS oncogene family
F07	Rn.50631	XM_233485	Rlf	Rearranged L-myc fusion
F08	Rn.8937	NM_013191	S100b	S100 calcium binding protein B
F09	Rn.95177	NM_001007732	Serpib9	Serpin peptidase inhibitor, clade B (ovalbumin), member 9
F10	Rn.18006	NM_001134514	Sestd1	SEC14 and spectrin domains 1
F11	Rn.54645	NM_001025271	Sfpq	Splicing factor proline/glutamine rich (polypyrimidine tract binding protein associated)
F12	Rn.44609	NM_012655	Sp1	Sp1 transcription factor
G01	Rn.98989	NM_012656	Sparc	Secreted protein, acidic, cysteine-rich (osteonectin)
G02	Rn.221903	NM_001106427	Spry1	Sprouty homolog 1, antagonist of FGF signaling (Drosophila)
G03	Rn.162118	NM_001025738	Srsf10	Serine/arginine-rich splicing factor 10
G04	Rn.144930	NM_001107043	Tbx21	T-box 21
G05	Rn.218634	NM_001109601	Tcl1a	T-cell leukemia/lymphoma 1A
G06	Rn.98685	NM_053729	Tdg	Thymine-DNA glycosylase
G07	Rn.219960	NM_001107643	Tet1	Tet oncogene 1
G08	Rn.16142	NM_201420	Tfap2c	Transcription factor AP-2 gamma
G09	Rn.7018	NM_013174	Tgfb3	Transforming growth factor, beta 3
G10	Rn.1923	NM_031836	Vegfa	Vascular endothelial growth factor A
G11	Rn.82737	NM_133290	Zfp36	Zinc finger protein 36
G12	Rn.6142	NM_017172	Zfp361l	Zinc finger protein 36, C3H type-like 1
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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