

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

Human miR-34a Targets

Cat. no. 330231 PAHS-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™



Sample & Assay Technologies

Description

The Human miR-34a Targets RT² Profiler PCR Array profiles the expression of 84 hsa-miR-34a-5p target genes. This panel of 84 genes includes currently known experimentally verified plus bioinformatically predicted target genes regulated by hsa-miR-34a-5p. This array also includes target genes regulated by other miRNAs that have the same seed sequence as hsa-miR-34a-5p, including hsa-miR-34c-5p and hsa-miR-449a. 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	ACSL1	AKAP6	ANK3	ANKRD52	ARID4B	ARPP19	AXIN2	BCL11B	BCL2	BTBD11	CACNA1E	CCNE2
B	CD44	CDC25A	CDK4	CDK6	COL12A1	CORO1C	DDX17	DLL1	DMWD	DNAJB1	DNAJC24	E2F3
C	FLOT2	FOXP1	GMFB	HDAC1	HNF4A	IFNB1	ING5	JAG1	KLHDC3	LDHA	LEF1	LETMD1
D	LRRC40	MAGEA12	MAP2K1	MET	MGAT5B	MLLT3	MTMR9	MYC	MYCN	MYH9	NAV1	NAV3
E	NDUFC2	NETO1	NOTCH1	NOTCH2	NRN1	NSUN6	PACS1	PALM2-AKAP2	PDGFRA	PEA15	PGM1	PKP4
F	PNOC	PPP1R11	PREB	RCAN1	SAR1A	SATB2	SGSM2	SIRT1	SLC25A27	SNX15	STRN3	SYN2
G	SYT1	TRIM67	TRIM9	TSN	TTC19	UBP1	UCN2	VAT1	VEGFA	WNT1	YY1	ZDHHC17
H	ACTB	B2M	GAPDH	HPRT1	RPLP0	HGDC	RTC	RTC	RTC	PPC	PPC	PPC

Gene table: RT² Profiler PCR Array

Position	UniGene	GenBank	Symbol	Description
A01	Hs.406678	NM_001995	ACSL1	Acyl-CoA synthetase long-chain family member 1
A02	Hs.509083	NM_004274	AKAP6	A kinase (PRKA) anchor protein 6
A03	Hs.499725	NM_001149	ANK3	Ankyrin 3, node of Ranvier (ankyrin G)
A04	Hs.524506	NM_173595	ANKRD52	Ankyrin repeat domain 52
A05	Hs.533633	NM_016374	ARID4B	AT rich interactive domain 4B (RBP1-like)
A06	Hs.512908	NM_006628	ARPP19	CAMP-regulated phosphoprotein, 19kDa
A07	Hs.156527	NM_004655	AXIN2	Axin 2
A08	Hs.709690	NM_022898	BCL11B	B-cell CLL/lymphoma 11B (zinc finger protein)
A09	Hs.150749	NM_000633	BCL2	B-cell CLL/lymphoma 2
A10	Hs.271272	NM_001017523	BTBD11	BTB (POZ) domain containing 11
A11	Hs.437444	NM_000721	CACNA1E	Calcium channel, voltage-dependent, R type, alpha 1E subunit
A12	Hs.567387	NM_057749	CCNE2	Cyclin E2
B01	Hs.502328	NM_000610	CD44	CD44 molecule (Indian blood group)
B02	Hs.437705	NM_001789	CDC25A	Cell division cycle 25 homolog A (S. pombe)
B03	Hs.95577	NM_000075	CDK4	Cyclin-dependent kinase 4
B04	Hs.119882	NM_001259	CDK6	Cyclin-dependent kinase 6
B05	Hs.101302	NM_004370	COL12A1	Collagen, type XII, alpha 1
B06	Hs.330384	NM_014325	CORO1C	Coronin, actin binding protein, 1C
B07	Hs.728775	NM_006386	DDX17	DEAD (Asp-Glu-Ala-Asp) box polypeptide 17
B08	Hs.379912	NM_005618	DLL1	Delta-like 1 (Drosophila)
B09	Hs.515474	NM_004943	DMWD	Dystrophia myotonica, WD repeat containing
B10	Hs.515210	NM_006145	DNAJB1	DnaJ (Hsp40) homolog, subfamily B, member 1
B11	Hs.187269	NM_181706	DNAJC24	DnaJ (Hsp40) homolog, subfamily C, member 24
B12	Hs.269408	NM_001949	E2F3	E2F transcription factor 3
C01	Hs.514038	NM_004475	FLOT2	Flotillin 2
C02	Hs.431498	NM_032682	FOXP1	Forkhead box P1
C03	Hs.151413	NM_004124	GMFB	Glia maturation factor, beta
C04	Hs.88556	NM_004964	HDAC1	Histone deacetylase 1
C05	Hs.116462	NM_178849	HNF4A	Hepatocyte nuclear factor 4, alpha
C06	Hs.93177	NM_002176	IFNB1	Interferon, beta 1, fibroblast
C07	Hs.645460	NM_032329	ING5	Inhibitor of growth family, member 5
C08	Hs.728907	NM_000214	JAG1	Jagged 1
C09	Hs.412468	NM_057161	KLHDC3	Kelch domain containing 3
C10	Hs.2795	NM_005566	LDHA	Lactate dehydrogenase A
C11	Hs.555947	NM_016269	LEF1	Lymphoid enhancer-binding factor 1
C12	Hs.655272	NM_015416	LETMD1	LETM1 domain containing 1
D01	Hs.147836	NM_017768	LRRC40	Leucine rich repeat containing 40
D02	Hs.169246	NM_005367	MAGEA12	Melanoma antigen family A, 12
D03	Hs.145442	NM_002755	MAP2K1	Mitogen-activated protein kinase kinase 1
D04	Hs.132966	NM_000245	MET	Met proto-oncogene (hepatocyte growth factor receptor)
D05	Hs.144531	NM_144677	MGAT5B	Mannosyl (alpha-1,6-)-glycoprotein beta-1,6-N-acetyl-glucosaminyltransferase, isozyme B
D06	Hs.591085	NM_004529	MLLT3	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 3
D07	Hs.591395	NM_015458	MTMR9	Myotubularin related protein 9

Position	UniGene	GenBank	Symbol	Description
D08	Hs.202453	NM_002467	MYC	V-myc myelocytomatosis viral oncogene homolog (avian)
D09	Hs.25960	NM_005378	MYCN	V-myc myelocytomatosis viral related oncogene, neuroblastoma derived (avian)
D10	Hs.474751	NM_002473	MYH9	Myosin, heavy chain 9, non-muscle
D11	Hs.585374	NM_020443	NAV1	Neuron navigator 1
D12	Hs.655301	NM_014903	NAV3	Neuron navigator 3
E01	Hs.407860	NM_004549	NDUFC2	NADH dehydrogenase (ubiquinone) 1, subcomplex unknown, 2, 14.5kDa
E02	Hs.465407	NM_138999	NETO1	Neuropilin (NRP) and tolloid (TLL)-like 1
E03	Hs.495473	NM_017617	NOTCH1	Notch 1
E04	Hs.487360	NM_024408	NOTCH2	Notch 2
E05	Hs.103291	NM_016588	NRN1	Neuritin 1
E06	Hs.396175	NM_182543	NSUN6	NOP2/Sun domain family, member 6
E07	Hs.644326	NM_018026	PACS1	Phosphofurin acidic cluster sorting protein 1
E08	Hs.591908	NM_007203	PALM2-AKAP2 2	PALM2-AKAP2 readthrough
E09	Hs.74615	NM_006206	PDGFRA	Platelet-derived growth factor receptor, alpha polypeptide
E10	Hs.517216	NM_003768	PEA15	Phosphoprotein enriched in astrocytes 15
E11	Hs.1869	NM_002633	PGM1	Phosphoglucomutase 1
E12	Hs.407580	NM_003628	PKP4	Plakophilin 4
F01	Hs.88218	NM_006228	PNOC	Prepronociceptin
F02	Hs.82887	NM_021959	PPP1R11	Protein phosphatase 1, regulatory (inhibitor) subunit 11
F03	Hs.279784	NM_013388	PREB	Prolactin regulatory element binding
F04	Hs.282326	NM_004414	RCAN1	Regulator of calcineurin 1
F05	Hs.499960	NM_020150	SAR1A	SAR1 homolog A (S. cerevisiae)
F06	Hs.516617	NM_015265	SATB2	SATB homeobox 2
F07	Hs.513861	NM_014853	SGSM2	Small G protein signaling modulator 2
F08	Hs.369779	NM_012238	SIRT1	Sirtuin 1
F09	Hs.40510	NM_004277	SLC25A27	Solute carrier family 25, member 27
F10	Hs.80132	NM_013306	SNX15	Sorting nexin 15
F11	Hs.401843	NM_014574	STRN3	Striatin, calmodulin binding protein 3
F12	Hs.445503	NM_003178	SYN2	Synapsin II
G01	Hs.310545	NM_005639	SYT1	Synaptotagmin I
G02	Hs.655089	NM_001004342	TRIM67	Tripartite motif containing 67
G03	Hs.654750	NM_015163	TRIM9	Tripartite motif containing 9
G04	Hs.75066	NM_004622	TSN	Translin
G05	Hs.462316	NM_017775	TTC19	Tetratricopeptide repeat domain 19
G06	Hs.729120	NM_014517	UBP1	Upstream binding protein 1 (LBP-1a)
G07	Hs.631914	NM_033199	UCN2	Urocortin 2
G08	Hs.514199	NM_006373	VAT1	Vesicle amine transport protein 1 homolog (T. californica)
G09	Hs.73793	NM_003376	VEGFA	Vascular endothelial growth factor A
G10	Hs.248164	NM_005430	WNT1	Wingless-type MMTV integration site family, member 1
G11	Hs.388927	NM_003403	YY1	YY1 transcription factor
G12	Hs.4014	NM_015336	ZDHHC17	Zinc finger, DHHC-type containing 17
H01	Hs.520640	NM_001101	ACTB	Actin, beta
H02	Hs.534255	NM_004048	B2M	Beta-2-microglobulin
H03	Hs.592355	NM_002046	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase
H04	Hs.412707	NM_000194	HPRT1	Hypoxanthine phosphoribosyltransferase 1
H05	Hs.546285	NM_001002	RPLP0	Ribosomal protein, large, P0
H06	N/A	SA_00105	HGDC	Human 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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