

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

Human mir-1 & miR-206 Targets

Cat. no. 330231 PAHS-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 Human miR-1 & miR-206 Targets RT² Profiler PCR Array profiles the expression of 84 hsa-miR-1 and hsa-miR-206 target genes. This panel of 84 genes includes currently known experimentally verified plus bioinformatically predicted target genes regulated by hsa-miR-1 and hsa-miR-206. This array also includes target genes regulated by other miRNAs that have the same seed sequence as hsa-miR-1 and hsa-miR-206, including hsa-miR-613. 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	CLTC	CNN3	EDN1	EIF1AX	ESR1	FBXL14	FN1	FRS2	FSTL1	G6PD	GATA4	GCH1
C	GJA1	HCN2	HCN4	HDAC4	HHIP	HIAT1	HNRNPU	HS3ST3B1	HSPA1B	HSPA4	HSPD1	ID1
D	ID2	ID3	IGF1	IGF1R	IGSF5	IRX5	KCNE1	KCNJ2	KIF2A	KLF4	LARP4	LPFR4
E	MATR3	MEF2A	MET	MLL5	MMD	MON2	NCL	NDRG3	NOTCH3	OSBP1	PAX3	PAX7
F	PIM1	POGK	POLA1	PPP2R5A	PTPLAD1	RASA1	RIT2	RSBN1	SEPT2	SFRP1	SOX6	SRI
G	STC2	TAC1	TACR1	TAGLN2	TH1L	THOC2	TNS3	TPPP	TRANK1	TWF2	UBE4A	UTRN
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.12341	NM_001111	ADAR	Adenosine deaminase, RNA-specific
A02	Hs.511605	NM_004039	ANXA2	Annexin A2
A03	Hs.422986	NM_001153	ANXA4	Annexin A4
A04	Hs.33642	NM_001655	ARCN1	Archain 1
A05	Hs.521530	NM_004674	ASH2L	Ash2 (absent, small, or homeotic)-like (Drosophila)
A06	Hs.295917	NM_001693	ATP6V1B2	ATPase, H+ transporting, lysosomal 56/58kDa, V1 subunit B2
A07	Hs.459106	NM_015878	AZIN1	Antizyme inhibitor 1
A08	Hs.150749	NM_000633	BCL2	B-cell CLL/lymphoma 2
A09	Hs.502182	NM_001709	BDNF	Brain-derived neurotrophic factor
A10	Hs.282410	NM_006888	CALM1	Calmodulin 1 (phosphorylase kinase, delta)
A11	Hs.468442	NM_001743	CALM2	Calmodulin 2 (phosphorylase kinase, delta)
A12	Hs.515487	NM_005184	CALM3	Calmodulin 3 (phosphorylase kinase, delta)
B01	Hs.491351	NM_004859	CLTC	Clathrin, heavy chain (Hc)
B02	Hs.706617	NM_001839	CNN3	Calponin 3, acidic
B03	Hs.511899	NM_001955	EDN1	Endothelin 1
B04	Hs.522590	NM_001412	EIF1AX	Eukaryotic translation initiation factor 1A, X-linked
B05	Hs.208124	NM_000125	ESR1	Estrogen receptor 1
B06	Hs.367956	NM_152441	FBXL14	F-box and leucine-rich repeat protein 14
B07	Hs.203717	NM_002026	FN1	Fibronectin 1
B08	Hs.593446	NM_006654	FRS2	Fibroblast growth factor receptor substrate 2
B09	Hs.269512	NM_007085	FSTL1	Follistatin-like 1
B10	Hs.461047	NM_000402	G6PD	Glucose-6-phosphate dehydrogenase
B11	Hs.243987	NM_002052	GATA4	GATA binding protein 4
B12	Hs.86724	NM_000161	GCH1	GTP cyclohydrolase 1
C01	Hs.74471	NM_000165	GJA1	Gap junction protein, alpha 1, 43kDa
C02	Hs.124161	NM_001194	HCN2	Hyperpolarization activated cyclic nucleotide-gated potassium channel 2
C03	Hs.86941	NM_005477	HCN4	Hyperpolarization activated cyclic nucleotide-gated potassium channel 4
C04	Hs.20516	NM_006037	HDAC4	Histone deacetylase 4
C05	Hs.507991	NM_022475	HHIP	Hedgehog interacting protein
C06	Hs.124156	NM_033055	HIAT1	Hippocampus abundant transcript 1
C07	Hs.106212	NM_004501	HNRNPU	Heterogeneous nuclear ribonucleoprotein U (scaffold attachment factor A)
C08	Hs.48384	NM_006041	HS3ST3B1	Heparan sulfate (glucosamine) 3-O-sulfotransferase 3B1
C09	Hs.274402	NM_005346	HSPA1B	Heat shock 70kDa protein 1B
C10	Hs.90093	NM_002154	HSPA4	Heat shock 70kDa protein 4
C11	Hs.595053	NM_002156	HSPD1	Heat shock 60kDa protein 1 (chaperonin)
C12	Hs.504609	NM_002165	ID1	Inhibitor of DNA binding 1, dominant negative helix-loop-helix protein
D01	Hs.180919	NM_002166	ID2	Inhibitor of DNA binding 2, dominant negative helix-loop-helix protein
D02	Hs.76884	NM_002167	ID3	Inhibitor of DNA binding 3, dominant negative helix-loop-helix protein
D03	Hs.160562	NM_000618	IGF1	Insulin-like growth factor 1 (somatomedin C)
D04	Hs.643120	NM_000875	IGF1R	Insulin-like growth factor 1 receptor
D05	Hs.422120	NM_001080444	IGSF5	Immunoglobulin superfamily, member 5
D06	Hs.435730	NM_005853	IRX5	Iroquois homeobox 5
D07	Hs.121495	NM_000219	KCNE1	Potassium voltage-gated channel, Isk-related family, member 1
D08	Hs.1547	NM_000891	KCNJ2	Potassium inwardly-rectifying channel, subfamily J, member 2
D09	Hs.558351	NM_004520	KIF2A	Kinesin heavy chain member 2A

Position	UniGene	GenBank	Symbol	Description
D10	Hs.376206	NM_004235	KLF4	Kruppel-like factor 4 (gut)
D11	Hs.26613	NM_199188	LARP4	La ribonucleoprotein domain family, member 4
D12	Hs.13245	NM_014839	LPPR4	Lipid phosphate phosphatase-related protein type 4
E01	Hs.268939	NM_018834	MATR3	Matrin 3
E02	Hs.268675	NM_005587	MEF2A	Myocyte enhancer factor 2A
E03	Hs.132966	NM_000245	MET	Met proto-oncogene (hepatocyte growth factor receptor)
E04	Hs.592262	NM_182931	MLL5	Myeloid/lymphoid or mixed-lineage leukemia 5 (trithorax homolog, Drosophila)
E05	Hs.463483	NM_012329	MMD	Monocyte to macrophage differentiation-associated
E06	Hs.389378	NM_015026	MON2	MON2 homolog (S. cerevisiae)
E07	Hs.79110	NM_005381	NCL	Nucleolin
E08	Hs.437338	NM_022477	NDRG3	NDRG family member 3
E09	Hs.8546	NM_000435	NOTCH3	Notch 3
E10	Hs.463320	NM_145798	OSBPL7	Oxysterol binding protein-like 7
E11	Hs.42146	NM_181461	PAX3	Paired box 3
E12	Hs.113253	NM_002584	PAX7	Paired box 7
F01	Hs.81170	NM_002648	PIM1	Pim-1 oncogene
F02	Hs.432752	NM_017542	POGK	Pogo transposable element with KRAB domain
F03	Hs.567319	NM_016937	POLA1	Polymerase (DNA directed), alpha 1, catalytic subunit
F04	Hs.716433	NM_006243	PPP2R5A	Protein phosphatase 2, regulatory subunit B', alpha
F05	Hs.512973	NM_016395	PTPLAD1	Protein tyrosine phosphatase-like A domain containing 1
F06	Hs.664080	NM_002890	RASA1	RAS p21 protein activator (GTPase activating protein) 1
F07	Hs.464985	NM_002930	RIT2	Ras-like without CAAX 2
F08	Hs.486285	NM_018364	RSBN1	Round spermatid basic protein 1
F09	Hs.728805	NM_004404	SEPT2	Septin 2
F10	Hs.713546	NM_003012	SFRP1	Secreted frizzled-related protein 1
F11	Hs.368226	NM_033326	SOX6	SRY (sex determining region Y)-box 6
F12	Hs.489040	NM_003130	SRI	Sorcin
G01	Hs.233160	NM_003714	STC2	Stanniocalcin 2
G02	Hs.2563	NM_013998	TAC1	Tachykinin, precursor 1
G03	Hs.633301	NM_001058	TACR1	Tachykinin receptor 1
G04	Hs.517168	NM_003564	TAGLN2	Transgelin 2
G05	Hs.517148	NM_198976	TH1L	TH1-like (Drosophila)
G06	Hs.592243	NM_001081550	THOC2	THO complex 2
G07	Hs.520814	NM_022748	TNS3	Tensin 3
G08	Hs.481466	NM_007030	TPPP	Tubulin polymerization promoting protein
G09	Hs.170999	NM_014831	TRANK1	Tetratricopeptide repeat and ankyrin repeat containing 1
G10	Hs.436439	NM_007284	TWF2	Twinfilin, actin-binding protein, homolog 2 (Drosophila)
G11	Hs.75275	NM_004788	UBE4A	Ubiquitination factor E4A
G12	Hs.133135	NM_007124	UTRN	Utraphin
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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