

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

Human miR-9 Targets

Cat. no. 330231 PAHS-6014ZA

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-9 Targets RT² Profiler PCR Array profiles the expression of 84 hsa-miR-9-5p target genes. This panel of 84 genes includes currently known experimentally verified plus bioinformatically predicted target genes regulated by hsa-miR-9-5p. The target genes would also be predicted to be regulated by any other yet to be discovered miRNAs that would have the same seed sequence as hsa-miR-9-5p. 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-9 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	ADAMTS3	ANKRD52	AP1S2	AP3B1	AP4E1	ARID1A	ATP1B1	BACE1	CALB2	CC2D1B	CCDC43	CCNDBP1
B	CCNG1	CDH1	CDX2	Cep63	CNTN3	COL15A1	CRIM1	YBX3	CSNK1A1	CTNNA1	DNAJC14	EMB
C	ETS1	FAM107B	FBN1	FNBP4	FOXG1	FOXO1	FOXO3	FREM2	GALNT3	GCH1	GMEB2	GNPNAT1
D	HES1	HLCS	IGF2BP3	INSIG1	IPO4	ITPKC	KCNJ2	KCNK4	KCTD2	KLHL18	LAMP1	LEPRE1
E	LMNA	MESDC1	MYO1C	MYO1D	MYOCD	NR2E1	TENM1	ONECUT2	OPN3	PCGF6	PDGFC	PMP22
F	PRDM1	PXDN	RAB34	REST	RNF150	SHC1	SIN3A	SIRT1	SNX25	SNX7	SOC55	SRGN
G	STK3	STMN1	TBPL1	TESK2	TGFB1	TOMM20	TSC22D2	UBE3C	ULK2	VAV3	ZKSCAN1	ZNF395
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.590919	NM_014243	ADAMTS3	ADAM metalloproteinase with thrombospondin type 1 motif, 3
A02	Hs.524506	NM_173595	ANKRD52	Ankyrin repeat domain 52
A03	Hs.121592	NM_003916	AP1S2	Adaptor-related protein complex 1, sigma 2 subunit
A04	Hs.532091	NM_003664	AP3B1	Adaptor-related protein complex 3, beta 1 subunit
A05	Hs.413366	NM_007347	AP4E1	Adaptor-related protein complex 4, epsilon 1 subunit
A06	Hs.468972	NM_006015	ARID1A	AT rich interactive domain 1A (SWI-like)
A07	Hs.291196	NM_001677	ATP1B1	ATPase, Na ⁺ /K ⁺ transporting, beta 1 polypeptide
A08	Hs.504003	NM_138973	BACE1	Beta-site APP-cleaving enzyme 1
A09	Hs.106857	NM_001740	CALB2	Calbindin 2
A10	Hs.591451	NM_032449	CC2D1B	Coiled-coil and C2 domain containing 1B
A11	Hs.579115	NM_144609	CCDC43	Coiled-coil domain containing 43
A12	Hs.36794	NM_012142	CCNDBP1	Cyclin D-type binding-protein 1
B01	Hs.79101	NM_004060	CCNG1	Cyclin G1
B02	Hs.461086	NM_004360	CDH1	Cadherin 1, type 1, E-cadherin (epithelial)
B03	Hs.740844	NM_001265	CDX2	Caudal type homeobox 2
B04	Hs.443301	NM_025180	Cep63	Centrosomal protein 63kDa
B05	Hs.12723	NM_020872	CNTN3	Contactin 3 (plasmacytoma associated)
B06	Hs.409034	NM_001855	COL15A1	Collagen, type XV, alpha 1
B07	Hs.699247	NM_016441	CRIM1	Cysteine rich transmembrane BMP regulator 1 (chordin-like)
B08	Hs.221889	NM_003651	YBX3	Cold shock domain protein A
B09	Hs.712555	NM_001892	CSNK1A1	Casein kinase 1, alpha 1
B10	Hs.656653	NM_001903	CTNNA1	Catenin (cadherin-associated protein), alpha 1, 102kDa
B11	Hs.709320	NM_032364	DNAJC14	DnaJ (Hsp40) homolog, subfamily C, member 14
B12	Hs.561411	NM_198449	EMB	Embiggin
C01	Hs.369438	NM_005238	ETS1	V-ets erythroblastosis virus E26 oncogene homolog 1 (avian)
C02	Hs.446315	NM_031453	FAM107B	Family with sequence similarity 107, member B
C03	Hs.591133	NM_000138	FBN1	Fibrillin 1
C04	Hs.6834	NM_015308	FNBP4	Formin binding protein 4
C05	Hs.741222	NM_005249	FOXG1	Forkhead box G1
C06	Hs.370666	NM_002015	FOXO1	Forkhead box O1
C07	Hs.220950	NM_001455	FOXO3	Forkhead box O3
C08	Hs.253994	NM_207361	FREM2	FRAS1 related extracellular matrix protein 2
C09	Hs.170986	NM_004482	GALNT3	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylglucosaminyltransferase 3 (GalNAc-T3)
C10	Hs.86724	NM_000161	GCH1	GTP cyclohydrolase 1
C11	Hs.473286	NM_012384	GMEB2	Glucocorticoid modulatory element binding protein 2
C12	Hs.478025	NM_198066	GNPNAT1	Glucosamine-phosphate N-acetyltransferase 1
D01	Hs.250666	NM_005524	HES1	Hairy and enhancer of split 1, (Drosophila)
D02	Hs.732538	NM_000411	HLCS	Holocarboxylase synthetase (biotin-(propionyl-CoA-carboxylase (ATP-hydrolysing)) ligase)
D03	Hs.700696	NM_006547	IGF2BP3	Insulin-like growth factor 2 mRNA binding protein 3
D04	Hs.520819	NM_005542	INSIG1	Insulin induced gene 1
D05	Hs.411865	NM_024658	IPO4	Importin 4
D06	Hs.515415	NM_025194	ITPKC	Inositol-trisphosphate 3-kinase C
D07	Hs.1547	NM_000891	KCNJ2	Potassium inwardly-rectifying channel, subfamily J, member 2

Position	UniGene	GenBank	Symbol	Description
D08	Hs.647233	NM_033310	KCNK4	Potassium channel, subfamily K, member 4
D09	Hs.514468	NM_015353	KCTD2	Potassium channel tetramerisation domain containing 2
D10	Hs.517946	NM_025010	KLHL18	Kelch-like 18 (Drosophila)
D11	Hs.494419	NM_005561	LAMP1	Lysosomal-associated membrane protein 1
D12	Hs.720014	NM_022356	LEPRE1	Leucine proline-enriched proteoglycan (leprecan) 1
E01	Hs.706897	NM_005572	LMNA	Lamin A/C
E02	Hs.513071	NM_022566	MESDC1	Mesoderm development candidate 1
E03	Hs.286226	NM_033375	MYO1C	Myosin IC
E04	Hs.602063	NM_015194	MYO1D	Myosin ID
E05	Hs.462257	NM_153604	MYOCD	Myocardin
E06	Hs.157688	NM_003269	NR2E1	Nuclear receptor subfamily 2, group E, member 1
E07	Hs.744536	NM_014253	TENM1	Odz, odd Oz/ten-m homolog 1 (Drosophila)
E08	Hs.194725	NM_004852	ONECUT2	One cut homeobox 2
E09	Hs.409081	NM_014322	OPN3	Opsin 3
E10	Hs.335808	NM_032154	PCGF6	Polycomb group ring finger 6
E11	Hs.570855	NM_016205	PDGFC	Platelet derived growth factor C
E12	Hs.658306	NM_000304	PMP22	Peripheral myelin protein 22
F01	Hs.436023	NM_182907	PRDM1	PR domain containing 1, with ZNF domain
F02	Hs.332197	NM_012293	PXDN	Peroxidasin homolog (Drosophila)
F03	Hs.301853	NM_031934	RAB34	RAB34, member RAS oncogene family
F04	Hs.307836	NM_005612	REST	RE1-silencing transcription factor
F05	Hs.659104	NM_020724	RNF150	Ring finger protein 150
F06	Hs.433795	NM_003029	SHC1	SHC (Src homology 2 domain containing) transforming protein 1
F07	Hs.513039	NM_015477	SIN3A	SIN3 homolog A, transcription regulator (yeast)
F08	Hs.369779	NM_012238	SIRT1	Sirtuin 1
F09	Hs.369091	NM_031953	SNX25	Sorting nexin 25
F10	Hs.197015	NM_015976	SNX7	Sorting nexin 7
F11	Hs.468426	NM_144949	SOCS5	Suppressor of cytokine signaling 5
F12	Hs.1908	NM_002727	SRGN	Serglycin
G01	Hs.492333	NM_006281	STK3	Serine/threonine kinase 3
G02	Hs.209983	NM_005563	STMN1	Stathmin 1
G03	Hs.486507	NM_004865	TBPL1	TBP-like 1
G04	Hs.591499	NM_007170	TESK2	Testis-specific kinase 2
G05	Hs.369397	NM_000358	TGFBI	Transforming growth factor, beta-induced, 68kDa
G06	Hs.533192	NM_014765	TOMM20	Translocase of outer mitochondrial membrane 20 homolog (yeast)
G07	Hs.730710	NM_014779	TSC22D2	TSC22 domain family, member 2
G08	Hs.118351	NM_014671	UBE3C	Ubiquitin protein ligase E3C
G09	Hs.168762	NM_014683	ULK2	Unc-51-like kinase 2 (C. elegans)
G10	Hs.267659	NM_006113	VAV3	Vav 3 guanine nucleotide exchange factor
G11	Hs.633338	NM_003439	ZKSCAN1	Zinc finger with KRAB and SCAN domains 1
G12	Hs.435535	NM_018660	ZNF395	Zinc finger protein 395
H01	Hs.520640	NM_001101	ACTB	Actin, beta
H02	Hs.534255	NM_004048	B2M	Beta-2-microglobulin
H03	Hs.544577	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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