

RT² Profiler PCR Array (Rotor-Gene® Format)

Human miR-9 Targets

Cat. no. 330231 PAHS-6014ZR

For pathway expression analysis

Format	For use with the following real-time cyclers
RT ² Profiler PCR Array, Format R	Rotor-Gene Q, other Rotor-Gene cyclers

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 the Rotor-Gene format are shipped at ambient temperature, on dry ice, or blue ice packs depending on destination and accompanying products.

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.



Sample & Assay Technologies

Array layout

The 96 real-time assays in the Rotor-Gene format are located in wells 1–96 of the Rotor-Disc™ (plate A1–A12=Rotor-Disc 1–12, plate B1–B12=Rotor-Disc 13–24, etc.). To maintain data analysis compatibility, wells 97–100 do not contain real-time assays but will contain master mix to account for weight balance.

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	CTNNA1	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-acetylgalactosaminyltransferase 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	HCLS	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
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)

Position	UniGene	GenBank	Symbol	Description
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	TGFB1	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 ROX [™] FAST Mastermix (2)*	For 2 x 96 assays in 96-well plates; suitable for use with the Rotor-Gene Q and other Rotor-Gene cyclers	330620

* 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.

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual. QIAGEN kit handbooks and user manuals are available at www.qiagen.com or can be requested from QIAGEN Technical Services or your local distributor.

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