

RT² Profiler PCR Array (Rotor-Gene[®] Format)

Rat miR-9 Targets

Cat. no. 330231 PARN-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 Rat miR-9 Targets RT² Profiler PCR Array profiles the expression of 84 rno-miR-9a-5p target genes. This panel of 84 genes includes currently known experimentally verified plus bioinformatically predicted target genes regulated by rno-miR-9a-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 rno-miR-9a-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 $\Delta\Delta\text{CT}$ 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.



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	Rn.218557	NM_001107212	Adams3	ADAM metallopeptidase with thrombospondin type 1, motif 3
A02	Rn.229355	NM_001191875	Ankrd52	Ankyrin repeat domain 52
A03	Rn.17309	NM_001127531	Ap1s2	Adaptor-related protein complex 1, sigma 2 subunit
A04	Rn.11685	NM_001107646	Ap3b1	Adaptor-related protein complex 3, beta 1 subunit
A05	Rn.151891	NM_001191742	Ap4e1	Adaptor-related protein complex 4, epsilon 1 subunit
A06	Rn.61077	NM_001106635	Arid1a	AT rich interactive domain 1A (SWI-like)
A07	Rn.8925	NM_013113	Atp1b1	ATPase, Na ⁺ /K ⁺ transporting, beta 1 polypeptide
A08	Rn.207201	NM_019204	Bace1	Beta-site APP cleaving enzyme 1
A09	Rn.10321	NM_053988	Calb2	Calbindin 2
A10	Rn.103790	NM_001007145	Catna1	Catenin (cadherin associated protein), alpha 1
A11	Rn.3265	NM_001270984	Cc2d1b	Coiled-coil and C2 domain containing 1B
A12	Rn.13165	NM_001100728	Ccdc43	Coiled-coil domain containing 43
B01	Rn.162679	NM_001013204	Ccndbp1	Cyclin D-type binding-protein 1
B02	Rn.5834	NM_012923	Ccng1	Cyclin G1
B03	Rn.1303	NM_031334	Cdh1	Cadherin 1
B04	Rn.64495	NM_023963	Cdx2	Caudal type homeo box 2
B05	Rn.198215	NM_001037772	Cep63	Centrosomal protein 63
B06	Rn.10043	NM_019329	Cntn3	Contactin 3 (plasmacytoma associated)
B07	Rn.31832	NM_001100535	Col15a1	Collagen, type XV, alpha 1
B08	Rn.54364	NM_001169103	Crim1	Cysteine rich transmembrane BMP regulator 1 (chordin like)
B09	Rn.3306	NM_031979	Ybx3	Cold shock domain protein A
B10	Rn.23810	NM_053615	Csnk1a1	Casein kinase 1, alpha 1
B11	Rn.114340	NM_053690	Dnajc14	DnaJ (Hsp40) homolog, subfamily C, member 14
B12	Rn.16221	NM_053719	Emb	Embigin homolog (mouse)
C01	Rn.88756	NM_012555	Ets1	V-ets erythroblastosis virus E26 oncogene homolog 1 (avian)
C02	Rn.105966	NM_001025034	Fam107b	Family with sequence similarity 107, member B
C03	Rn.12759	NM_031825	Fbn1	Fibrillin 1
C04	Rn.66946	NM_001013159	Fnbp4	Formin binding protein 4
C05	Rn.9864	NM_012560	Foxg1	Forkhead box G1
C06	Rn.116108	NM_001191846	Foxo1	Forkhead box O1
C07	Rn.165338	NM_001106395	Foxo3	Forkhead box O3
C08	Rn.63994	NM_001245978	Frem2	Fras1 related extracellular matrix protein 2
C09	Rn.78014	NM_001015032	Galnt3	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 3 (GalNAc-T3)
C10	Rn.28195	NM_024356	Gch1	GTP cyclohydrolase 1
C11	Rn.40949	NM_031803	Gmeb2	Glucocorticoid modulatory element binding protein 2
C12	Rn.14702	NM_001134756	Gnpat1	Glucosamine-phosphate N-acetyltransferase 1
D01	Rn.19727	NM_024360	Hes1	Hairy and enhancer of split 1 (Drosophila)
D02	N/A	XM_221630	Hlcs	Holocarboxylase synthetase (biotin-(propionyl-Coenzyme A-carboxylase (ATP-hydrolysing)) ligase)
D03	Rn.100446	NM_001047888	Igf2bp3	Insulin-like growth factor 2 mRNA binding protein 3
D04	Rn.772	NM_022392	Insig1	Insulin induced gene 1
D05	Rn.107154	NM_001106038	Ipo4	Importin 4
D06	Rn.85907	NM_178094	Itpkc	Inositol 1,4,5-trisphosphate 3-kinase C
D07	Rn.44415	NM_017296	Kcnj2	Potassium inwardly-rectifying channel, subfamily J, member 2
D08	Rn.46453	NM_053804	Kcnk4	Potassium channel, subfamily K, member 4
D09	N/A	XM_006221035	Kctd2	Potassium channel tetramerization domain containing 2
D10	N/A	XM_236647	Klhl18	Kelch-like 18 (Drosophila)
D11	Rn.40177	NM_012857	Lamp1	Lysosomal-associated membrane protein 1
D12	Rn.13741	NM_053667	Lepre1	Leucine proline-enriched proteoglycan (leprecan) 1
E01	Rn.44161	NM_001002016	Lmna	Lamin A
E02	Rn.162446	NM_001013149	Mesdc1	Mesoderm development candidate 1
E03	Rn.55135	NM_023092	Myo1c	Myosin IC
E04	Rn.10376	NM_012983	Myo1d	Myosin ID
E05	Rn.163103	NM_182667	Myocd	Myocardin
E06	Rn.218964	NM_001113197	Nr2e1	Nuclear receptor subfamily 2, group E, member 1
E07	Rn.204549	NM_001191933	Opn3	Opsin 3

Position	UniGene	GenBank	Symbol	Description
E08	Rn.16897	NM_001013154	Pcgf6	Polycomb group ring finger 6
E09	Rn.211987	NM_031317	Pdgfc	Platelet derived growth factor C
E10	Rn.1476	NM_017037	Pmp22	Peripheral myelin protein 22
E11	Rn.8012	NM_001107639	Prdm1	PR domain containing 1, with ZNF domain
E12	Rn.40541	NM_001271261	Pxdn	Peroxidase homolog (Drosophila)
F01	Rn.98493	NM_001012140	Rab34	RAB34, member RAS oncogene family
F02	Rn.10879	NM_031788	Rest	RE1-silencing transcription factor
F03	N/A	XM_002725360	Onecut2	Similar to transcription factor ONECUT2
F04	Rn.41013	NM_001191093	Rnf150	Ring finger protein 150
F05	Rn.138818	NM_053517	Shc1	SHC (Src homology 2 domain containing) transforming protein 1
F06	Rn.63749	NM_001108761	Sin3a	SIN3 homolog A, transcription regulator (yeast)
F07	N/A	NM_001107627	Sirt1	Sirtuin (silent mating type information regulation 2 homolog) 1 (S. cerevisiae)
F08	Rn.217359	NM_017223	Slc20a2	Solute carrier family 20 (phosphate transporter), member 2
F09	Rn.16962	XM_224863	Snx25	Sorting nexin 25
F10	Rn.29845	NM_001012083	Snx7	Sorting nexin 7
F11	Rn.47568	NM_001109274	Socs5	Suppressor of cytokine signaling 5
F12	Rn.40122	NM_020074	Srgn	Serglycin
G01	Rn.89363	NM_031735	Stk3	Serine/threonine kinase 3 (STE20 homolog, yeast)
G02	Rn.555	NM_017166	Stmn1	Stathmin 1
G03	Rn.25148	NM_001127201	Tbpl1	TATA box binding protein-like 1
G04	Rn.144652	NM_133396	Tesk2	Testis-specific kinase 2
G05	Rn.1046	NM_053802	Tgfb1	Transforming growth factor, beta induced
G06	Rn.213840	NM_001106084	Tnks	Tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase
G07	Rn.2143	NM_152935	Tomm20	Translocase of outer mitochondrial membrane 20 homolog (yeast)
G08	Rn.167784	NM_001191960	Tsc22d2	TSC22 domain family, member 2
G09	N/A	XM_001055148	Ube3c	Ubiquitin protein ligase E3C
G10	Rn.17602	NM_001191645	Ulk2	Unc-51 like kinase 2 (C. elegans)
G11	Rn.27881	NM_001191714	Vav3	Vav 3 guanine nucleotide exchange factor
G12	Rn.113295	NM_001025760	Zkscan1	Zinc finger with KRAB and SCAN domains 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 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.

Trademarks: QIAGEN[®], Rotor-Gene[®], Rotor-Disc™ (QIAGEN Group); ROX™ (Applied Biosystems or its subsidiaries); SYBR[®] (Molecular Probes, Inc.).

1067688 03/2011 © 2011 QIAGEN, all rights reserved.

www.qiagen.com

Australia ■ 1-800-243-800

Austria ■ 0800/281010

Belgium ■ 0800-79612

Brazil ■ 0800-557779

Canada ■ 800-572-9613

China ■ 8621-3865-3865

Denmark ■ 80-885945

Finland ■ 0800-914416

France ■ 01-60-920-930

Germany ■ 02103-29-12000

Hong Kong ■ 800 933 965

Ireland ■ 1800 555 049

Italy ■ 800-787980

Japan ■ 03-6890-7300

Korea (South) ■ 080-000-7145

Luxembourg ■ 8002 2076

Mexico ■ 01-800-7742-436

The Netherlands ■ 0800 0229592

Norway ■ 800-18859

Singapore ■ 1800-742-4368

Spain ■ 91-630-7050

Sweden ■ 020-790282

Switzerland ■ 055-254-22-11

UK ■ 01293-422-911

USA ■ 800-426-8157



Sample & Assay Technologies