

RT² Profiler PCR Array (Rotor-Gene® Format)

Rat let-7 Targets

Cat. no. 330231 PARN-6008ZR

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 let-7a Targets RT² Profiler PCR Array profiles the expression of 84 rno-let-7a-5p target genes. This panel of 84 genes includes currently known experimentally verified plus bioinformatically predicted target genes regulated by rno-let-7a-5p. This array also includes target genes regulated by other miRNAs that have the same seed sequence as rno-let-7a-5p, including rno-let-7b-5p, rno-let-7c-5p, rno-let-7d-5p, rno-let-7e-5p, rno-let-7f-5p, rno-let-7i-5p, and rno-miR-98-5p. 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 let-7a 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.100730	NM_001106811	Adams8	ADAM metallopeptidase with thrombospondin type 1 motif, 8
A02	Rn.2305	NM_001110139	Atp2a2	ATPase, Ca++ transporting, cardiac muscle, slow twitch 2
A03	Rn.10323	NM_031535	Bcl2l1	Bcl2-like 1
A04	Rn.2269	NM_012783	Bsg	Basigin
A05	Rn.96215	NM_198789	Bzw1	Basic leucine zipper and W2 domains 1
A06	Rn.10562	NM_012922	Casp3	Caspase 3
A07	Rn.13094	NM_053702	Ccna2	Cyclin A2
A08	Rn.22279	NM_171992	Ccnd1	Cyclin D1
A09	Rn.96083	NM_022267	Ccnd2	Cyclin D2
A10	Rn.11390	NM_133571	Cdc25a	Cell division cycle 25 homolog A (S. pombe)
A11	Rn.2427	NM_001013103	Cdc34	Cell division cycle 34 homolog (S. cerevisiae)
A12	Rn.162731	XM_342638	Cdk6	Cyclin-dependent kinase 6
B01	Rn.60629	NM_001107836	Cep110	Centrosomal protein 110
B02	Rn.163250	XM_223341	Cep135	Centrosomal protein 135
B03	Rn.63247	XM_232354	Chd4	Chromodomain helicase DNA binding protein 4
B04	Rn.205839	NM_021856	Clock	Clock homolog (mouse)
B05	Rn.107239	NM_053356	Col1a2	Collagen, type I, alpha 2
B06	Rn.3247	NM_032085	Col3a1	Collagen, type III, alpha 1
B07	Rn.60026	XM_001075251	Ddx19b	DEAD (Asp-Glu-Ala-As) box polypeptide 19B
B08	Rn.205881	XM_001068155	Dicer1	Dicer 1, ribonuclease type III
B09	Rn.98260	NM_053769	Dusp1	Dual specificity phosphatase 1
B10	Rn.72471	NM_001100778	E2f1	E2F transcription factor 1
B11	Rn.134659	NM_001106686	Eif2c4	Eukaryotic translation initiation factor 2C, 4
B12	Rn.162933	XM_001080375	Fgd6	FYVE, RhoGEF and PH domain containing 6
C01	Rn.41044	XM_232212	Frm4b	FERM domain containing 4B
C02	Rn.17661	NM_031031	Gatm	Glycine amidinotransferase (L-arginine:glycine amidinotransferase)
C03	Rn.49815	NM_001013038	Gdf6	Growth differentiation factor 6
C04	Rn.135561	XM_343194	Gnptab	N-acetylglucosamine-1-phosphate transferase, alpha and beta subunits
C05	Rn.83240	NM_001113749	Hif1an	Hypoxia-inducible factor 1, alpha subunit inhibitor
C06	Rn.836	NM_001100475	Hip1	Huntingtin interacting protein 1
C07	Rn.83614	NM_139327	Hmga1	High mobility group AT-hook 1
C08	Rn.85723	NM_001109233	Hoxa9	Homeobox A9
C09	Rn.138105	NM_019127	Ifnb1	Interferon beta 1, fibroblast
C10	Rn.77572	NM_175594	Igf2bp1	Insulin-like growth factor 2 mRNA binding protein 1
C11	Rn.100446	NM_001047888	Igf2bp3	Insulin-like growth factor 2 mRNA binding protein 3
C12	Rn.162816	NM_080899	Ikbkap	Inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase complex-associated protein
D01	Rn.9921	NM_053828	Il13	Interleukin 13
D02	Rn.9873	NM_012589	Il6	Interleukin 6
D03	Rn.107714	NM_001107092	Iqcb1	IQ motif containing B1
D04	Rn.162202	NM_153720	Itgb3	Integrin, beta 3
D05	Rn.78372	NM_001004100	Klk10	Kallikrein related-peptidase 10
D06	Rn.10732	NM_019175	Klk6	Kallikrein related-peptidase 6
D07	Rn.24554	NM_031515	Kras	V-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog
D08	Rn.147538	NM_001109269	Lin28	Lin-28 homolog (C. elegans)
D09	Rn.162624	NM_001107710	Lrig2	Leucine-rich repeats and immunoglobulin-like domains 2
D10	Rn.204519	XM_216905	Lrig3	Leucine-rich repeats and immunoglobulin-like domains 3
D11	Rn.93345	NM_133407	Map4k3	Mitogen-activated protein kinase kinase kinase kinase 3
D12	Rn.88085	NM_031020	Mapk14	Mitogen activated protein kinase 14
E01	Rn.88457	NM_031622	Mapk6	Mitogen-activated protein kinase 6
E02	Rn.4090	XM_341399	Mapk8	Mitogen-activated protein kinase 8
E03	Rn.3239	NM_024374	Mtpn	Myotrophin
E04	Rn.12072	NM_012603	Myc	Myelocytomatosis oncogene
E05	Rn.81116	NM_001013096	Mycn	V-myc myelocytomatosis viral related oncogene, neuroblastoma derived (avian)
E06	Rn.20691	XM_215947	Ncoa3	Nuclear receptor coactivator 3
E07	Rn.46695	NM_013193	Nf2	Neurofibromin 2 (merlin)
E08	Rn.220516	NM_001105839	Nkiras2	NFkB inhibitor interacting Ras-like 2

Position	UniGene	GenBank	Symbol	Description
E09	Rn.104126	XM_343461	Nphp3	Nephronophthisis 3 (adolescent)
E10	Rn.218964	NM_001113197	Nr2e1	Nuclear receptor subfamily 2, group E, member 1
E11	Rn.217722	NM_080766	Nras	Neuroblastoma ras oncogene
E12	Rn.127830	NM_173114	Parm1	Prostate androgen-regulated mucin-like protein 1
F01	Rn.162662	NM_001107834	Pbx3	Pre-B-cell leukemia homeobox 3
F02	Rn.21088	NM_001107430	Pdpr	Pyruvate dehydrogenase phosphatase regulatory subunit
F03	Rn.148320	NM_001106015	Pla2g3	Phospholipase A2, group III
F04	Rn.7829	NM_001108744	Plxnc1	Plexin C1
F05	Rn.81155	NM_053999	Ppp2r2a	Protein phosphatase 2 (formerly 2A), regulatory subunit B, alpha isoform
F06	Rn.8012	NM_001107639	Prdm1	PR domain containing 1, with ZNF domain
F07	Rn.101115	XM_215401	Ranbp2	RAN binding protein 2
F08	Rn.210995	NM_053721	Rasgrf2	RAS protein-specific guanine nucleotide-releasing factor 2
F09	Rn.98798	XM_342871	Raver2	Ribonucleoprotein, PTB-binding 2
F10	Rn.103345	NM_001108586	Rcn1	Reticulocalbin 1, EF-hand calcium binding domain
F11	Rn.11418	NM_013173	Slc11a2	Solute carrier family 11 (proton-coupled divalent metal ion transporters), member 2
F12	Rn.163043	NM_053500	Slc25a27	Solute carrier family 25, member 27
G01	Rn.11763	NM_031683	Smc1a	Structural maintenance of chromosomes 1A
G02	Rn.62929	NM_001107256	Socs4	Suppressor of cytokine signaling 4
G03	Rn.44402	NM_012775	Tgfb1	Transforming growth factor, beta receptor 1
G04	Rn.14534	NM_019178	Tlr4	Toll-like receptor 4
G05	Rn.105010	XM_236676	Trim71	Tripartite motif-containing 71
G06	Rn.120731	NM_001109297	Tusc2	Tumor suppressor candidate 2
G07	Rn.2173	NM_001107585	Uhrf2	Ubiquitin-like with PHD and ring finger domains 2
G08	Rn.16359	NM_001107032	Usp32	Ubiquitin specific peptidase 32
G09	Rn.163358	NM_001107362	Wdr37	WD repeat domain 37
G10	Rn.138108	NM_001105714	Wnt1	Wingless-type MMTV integration site family, member 1
G11	Rn.23809	NM_001106657	Zbtb5	Zinc finger and BTB domain containing 5
G12	Rn.16048	NM_001108038	Zfyve26	Zinc finger, FYVE domain containing 26
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