

RT² Profiler PCR Array (Rotor-Gene® Format)

Rat miR-153 Targets

Cat. no. 330231 PARN-6013ZR

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-153 Targets RT² Profiler PCR Array profiles the expression of 84 rno-miR-153-3p target genes. This panel of 84 genes includes currently known experimentally verified plus bioinformatically predicted target genes regulated by rno-miR-153-3p. 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-153-3p. 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-153 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.



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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.15777	NM_031675	Actn4	Actinin alpha 4
A02	Rn.1423	XM_343513	Aplp2	Amyloid beta (A4) precursor-like protein 2
A03	Rn.93735	NM_022518	Arl1	ADP-ribosylation factor 1
A04	Rn.9258	NM_019186	Arl4a	ADP-ribosylation factor-like 4A
A05	Rn.112577	NM_031660	Arpp19	CAMP-regulated phosphoprotein 19
A06	Rn.218575	XM_573389	Auts2	Autism susceptibility candidate 2
A07	Rn.9996	NM_016993	Bcl2	B-cell CLL/lymphoma 2
A08	Rn.7308	NM_001013191	Cbfb	Core-binding factor, beta subunit
A09	Rn.23420	XM_225404	Cdc2l5	Cell division cycle 2-like 5 (cholinesterase-related cell division controller)
A10	Rn.31765	NM_053698	Cited2	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2
A11	Rn.57635	NM_019359	Cnn3	Calponin 3, acidic
A12	Rn.108128	NM_133381	Crebbp	CREB binding protein
B01	Rn.162247	NM_017197	Cugbp2	CUG triplet repeat, RNA binding protein 2
B02	Rn.10455	XM_347163	Cux1	Cut-like homeobox 1
B03	Rn.10307	NM_012698	Dmd	Dystrophin
B04	Rn.106323	XM_216920	Ext1	Exostosins (multiple) 1
B05	Rn.9501	XM_001055714	Fam168b	Family with sequence similarity 168, member B
B06	Rn.155456	XM_001056358	Fam171a1	Family with sequence similarity 171, member A1
B07	Rn.96252	XM_224672	Gcap14	Granule cell antiserum positive 14
B08	Rn.204577	XM_001055704	Glccl	Glucocorticoid induced transcript 1
B09	Rn.58672	NM_130417	Hey2	Hairy/enhancer-of-split related with YRPW motif 2
B10	Rn.79893	XM_224534	Ipo5	Importin 5
B11	Rn.37673	XM_233945	Itn2	Intersectin 2
B12	Rn.88804	NM_019147	Jag1	Jagged 1
C01	Rn.22924	NM_001108342	Kdsr	3-ketodihydrosphingosine reductase
C02	Rn.22229	NM_001109147	Klf13	Kruppel-like factor 13
C03	Rn.8954	NM_053394	Klf5	Kruppel-like factor 5
C04	Rn.40177	NM_012857	Lamp1	Lysosomal-associated membrane protein 1
C05	Rn.213335	NM_001134543	Lats1	LATS, large tumor suppressor, homolog 1 (Drosophila)
C06	N/A	XM_003749946	100910655,	Paralemmin-2-like
C07	Rn.137233	XM_222260	LOC304558	Similar to TPR repeat-containing protein KIAA1043
C08	Rn.140455	NM_001014074	LOC313936	Hypothetical LOC313936
C09	Rn.145556	NM_001024293	LOC499331	Similar to hypothetical protein D030056L22
C10	Rn.201352	XM_001069727	LOC689145	Hypothetical protein LOC689145
C11	Rn.212028	XM_001076790	Map4k5	Mitogen-activated protein kinase kinase kinase kinase 5
C12	Rn.129914	NM_021846	Mcl1	Myeloid cell leukemia sequence 1
D01	Rn.9052	XM_002726504	Mdn1	Midasin homolog (yeast)
D02	Rn.219137	NM_012600	Me1	Malic enzyme 1, NADP(+)-dependent, cytosolic
D03	Rn.17121	NM_001107109	Morc3	MORC family CW-type zinc finger 3
D04	Rn.3508	NM_001107711	Mov10	Moloney leukemia virus 10
D05	Rn.206970	NM_198778	Mpped2	Metallophosphoesterase domain containing 2
D06	Rn.20300	NM_001100898	Mrf2	Metal response element binding transcription factor 2
D07	Rn.203786	NM_138529	Nav2	Neuron navigator 2
D08	Rn.102369	NM_001106747	Nek9	NIMA (never in mitosis gene a)- related kinase 9
D09	Rn.10867	NM_031789	Nfe2l2	Nuclear factor, erythroid derived 2, like 2
D10	Rn.206187	XM_234098	Nova1	Neuro-oncological ventral antigen 1
D11	Rn.37476	NM_019380	Nptn	Neuroplastin
D12	Rn.8426	NM_053598	Nudt4	Nudix (nucleoside diphosphate linked moiety X)-type motif 4
E01	Rn.89571	NM_017167	Oprk1	Opioid receptor, kappa 1
E02	Rn.9450	NM_001108937	Paip1	Poly(A) binding protein interacting protein 1
E03	Rn.137112	NM_001106361	Pax2	Paired box 2
E04	Rn.8628	NM_001037337	Pcdhga12	Protocadherin gamma subfamily A, 12
E05	Rn.8628	NM_001037139	Pcdhga2	Protocadherin gamma subfamily A, 2
E06	Rn.22554	NM_001107333	Pols	Polymerase (DNA directed) sigma
E07	Rn.15540	NM_001105825	Ppm1d	Protein phosphatase 1D magnesium-dependent, delta isoform
E08	Rn.198204	XM_002726914	Ppm1h	Protein phosphatase 1H (PP2C domain containing)

Position	UniGene	GenBank	Symbol	Description
E09	Rn.9401	NM_001013873	Pppde1	PPPDE peptidase domain containing 1
E10	Rn.202632	NM_001077648	Prdm2	PR domain containing 2, with ZNF domain
E11	Rn.22271	XM_001055793	Ptpn3	Protein tyrosine phosphatase, non-receptor type 3
E12	Rn.12223	NM_013135	Rasa1	RAS p21 protein activator (GTPase activating protein) 1
F01	Rn.23973	NM_001106838	RGD131055 2	Similar to hypothetical protein MGC38960
F02	Rn.24350	NM_032106	Robo2	Roundabout homolog 2 (Drosophila)
F03	Rn.89756	NM_031098	Rock1	Rho-associated coiled-coil containing protein kinase 1
F04	Rn.139347	NM_001170436	Rttm	Rotatin
F05	Rn.20282	XM_342491	Ryr3	Ryanodine receptor 3
F06	Rn.160886	NM_001024903	Sertad2	SERTA domain containing 2
F07	Rn.195351	XM_001060531	Sgk3	Serum/glucocorticoid regulated kinase 3
F08	Rn.1129	NM_030996	Sigmar1	Sigma non-opioid intracellular receptor 1
F09	Rn.145405	NM_139339	Slc36a2	Solute carrier family 36 (proton/amino acid symporter), member 2
F10	Rn.11114	NM_053424	Slc4a4	Solute carrier family 4, sodium bicarbonate cotransporter, member 4
F11	Rn.221918	NM_001107419	Smarca5	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 5
F12	Rn.1827	NM_019169	Snca	Synuclein, alpha (non A4 component of amyloid precursor)
G01	Rn.46324	NM_001106008	Tbc1d19	TBC1 domain family, member 19
G02	Rn.5996	NM_022593	Tceb1	Transcription elongation factor B (SIII), polypeptide 1
G03	Rn.45649	NM_001130077	Tcerg1l	Transcription elongation regulator 1-like
G04	Rn.144652	NM_133396	Tesk2	Testis-specific kinase 2
G05	Rn.101871	NM_001106266	Tjp1	Tight junction protein 1
G06	Rn.212208	NM_031136	Tmsb4x	Thymosin beta 4, X-linked
G07	N/A	XM_003749911	Ube2w	Ubiquitin-conjugating enzyme E2W
G08	Rn.100642	NM_001007147	Unc84a	Unc-84 homolog A (C. elegans)
G09	Rn.2240	XM_235483	Unc84b	Unc-84 homolog B (C. elegans)
G10	Rn.110976	NM_031563	Ybx1	Y box binding protein 1
G11	Rn.94869	NM_001014208	Yipf2	Yip1 domain family, member 2
G12	Rn.225097	NM_001122677	Zcchc2	Zinc finger, CCHC domain containing 2
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.

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