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
RT² 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 ΔΔ 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.

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	Arf1	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	Exostoses (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	Glcci1	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	Itsn2	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	Mtf2	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	RGD1310552	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	Rttn	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.
RT² First Strand Kit (12)	Enzymes and reagents for cDNA synthesis	330401
RT² 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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