RT² Profiler PCR Array (Rotor-Gene® Format)

Mouse miR-153 Targets

Cat. no. 330231 PAMM-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 Mouse miR-153 Targets RT² Profiler PCR Array profiles the expression of 84 mmu-miR-153-3p target genes. This panel of 84 genes includes currently known experimentally verified plus bioinformatically predicted target genes regulated by mmu-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 mmu-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 ΔΔCT 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	Mm.269534	NM_029107	4930417G10 Rik	RIKEN cDNA 4930417G10 gene
A02	Mm.81144	NM_021895	Actn4	Actinin alpha 4
A03	Mm.19133	NM_009691	Aplp2	Amyloid beta (A4) precursor-like protein 2
A04	Mm.371546	NM_007476	Arf1	ADP-ribosylation factor 1
A05	Mm.247837	NM_021548	Arpp19	CAMP-regulated phosphoprotein 19
A06	Mm.389695	NM_177047	Auts2	Autism susceptibility candidate 2
A07	Mm.38578	NM_001135577	BC024659	CDNA sequence BC024659
A08	Mm.276479	NM_001164580	BC030336	CDNA sequence BC030336
A09	Mm.208955	NM_153584	BC031353	CDNA sequence BC031353
A10	Mm.257460	NM_009741	Bcl2	B-cell leukemia/lymphoma 2
A11	Mm.2018	NM_022309	Cbfb	Core binding factor beta
A12	Mm.193924	NM_001081058	Cdk13	Cyclin-dependent kinase 13
B01	Mm.398543	NM_010160	Celf2	CUGBP, Elav-like family member 2
B02	Mm.272321	NM_010828	Cited2	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2
B03	Mm.275555	NM_028044	Cnn3	Calponin 3, acidic
B04	Mm.132238	NM_001025432	Crebbp	CREB binding protein
B05	Mm.320317	NM_009986	Cux1	Cut-like homeobox 1
B06	Mm.28101	NM_177640	D030056L22 Rik	RIKEN cDNA D030056L22 gene
B07	Mm.275608	NM_007868	Dmd	Dystrophin, muscular dystrophy
B08	Mm.309395	NM_010162	Ext1	Exostoses (multiple) 1
B09	Mm.120151	NM_174997	Fam168b	Family with sequence similarity 168, member B
B10	Mm.478311	NM_001081161	Fam171a1	Family with sequence similarity 171, member A1
B11	Mm.27621	NM_028407	Gcap14	Granule cell antiserum positive 14
B12	Mm.210787	NM_133236	Glcci1	Glucocorticoid induced transcript 1
C01	Mm.103573	NM_013904	Hey2	Hairy/enhancer-of-split related with YRPW motif 2
C02	Mm.221452	NM_023579	Ipo5	Importin 5
C03	Mm.341204	NM_011365	Itsn2	Intersectin 2
C04	Mm.22398	NM_013822	Jag1	Jagged 1
C05	Mm.458911	NM_027534	Kdsr	3-ketodihydrosphingosine reductase
C06	Mm.240473	NM_021366	Klf13	Kruppel-like factor 13
C07	Mm.30262	NM_009769	Klf5	Kruppel-like factor 5
C08	Mm.16716	NM_010684	Lamp1	Lysosomal-associated membrane protein 1
C09	Mm.291936	NM_201519	Map4k5	Mitogen-activated protein kinase kinase kinase kinase 5
C10	Mm.1639	NM_008562	Mcl1	Myeloid cell leukemia sequence 1
C11	Mm.24627	NM_001081392	Mdn1	Midasin homolog (yeast)
C12	Mm.148155	NM_008615	Me1	Malic enzyme 1, NADP(+)-dependent, cytosolic
D01	Mm.287329	NM_001045529	Morc3	Microrchidia 3
D02	Mm.1597	NM_008619	Mov10	Moloney leukemia virus 10
D03	Mm.45628	NM_001143683	Mpped2	Metallophosphoesterase domain containing 2
D04	Mm.257149	NM_013827	Mtf2	Metal response element binding transcription factor 2
D05	Mm.333881	NM_175272	Nav2	Neuron navigator 2
D06	Mm.29071	NM_145138	Nek9	NIMA (never in mitosis gene a)-related expressed kinase 9
D07	Mm.1025	NM_010902	Nfe2l2	Nuclear factor, erythroid derived 2, like 2
D08	Mm.247195	NM_021361	Nova1	Neuro-oncological ventral antigen 1
D09	Mm.15125	NM_009145	Nptn	Neuroplastin
D10	Mm.24397	NM_027722	Nudt4	Nudix (nucleoside diphosphate linked moiety X)-type motif 4
D11	Mm.7977	NM_011011	Oprk1	Opioid receptor, kappa 1
D12	Mm.132584	NM_145457	Paip1	Polyadenylate binding protein-interacting protein 1
E01	Mm.331630	NM_172868	Palm2	Paralemmin 2
E02	Mm.315959	NM_198600	Papd7	PAP associated domain containing 7
E03	Mm.192158	NM_011037	Pax2	Paired box gene 2
E04	Mm.247203	NM_033595	Pcdhga12	Protocadherin gamma subfamily A, 12
E05	Mm.463074	NM_033585	Pcdhga2	Protocadherin gamma subfamily A, 2
E06	Mm.45609	NM_016910	Ppm1d	Protein phosphatase 1D magnesium-dependent, delta isoform

Position	UniGene	GenBank	Symbol	Description
E07	Mm.232916	NM_176919	Ppm1h	Protein phosphatase 1H (PP2C domain containing)
E08	Mm.440132	NM_024282	Pppde1	PPPDE peptidase domain containing 1
E09	Mm.332020	NM_001081355	Prdm2	PR domain containing 2, with ZNF domain
E10	Mm.246552	NM_011207	Ptpn3	Protein tyrosine phosphatase, non-receptor type 3
E11	Mm.259653	NM_145452	Rasa1	RAS p21 protein activator 1
E12	Mm.291542	NM_134077	Rbm26	RNA binding motif protein 26
F01	Mm.171736	NM_175549	Robo2	Roundabout homolog 2 (Drosophila)
F02	Mm.6710	NM_009071	Rock1	Rho-associated coiled-coil containing protein kinase 1
F03	Mm.772	NM_175542	Rttn	Rotatin
F04	Mm.436657	NM_177652	Ryr3	Ryanodine receptor 3
F05	Mm.339676	NM_021372	Sertad2	SERTA domain containing 2
F06	Mm.336410	NM_177547	Sgk3	Serum/glucocorticoid regulated kinase 3
F07	Mm.425181	NM_011014	Sigmar1	Sigma non-opioid intracellular receptor 1
F08	Mm.291280	NM_153170	Slc36a2	Solute carrier family 36 (proton/amino acid symporter), member 2
F09	Mm.41044	NM_018760	Slc4a4	Solute carrier family 4 (anion exchanger), member 4
F10	Mm.246803	NM_053124	Smarca5	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 5
F11	Mm.17484	NM_009221	Snca	Synuclein, alpha
F12	Mm.210845	NM_024451	Sun1	Sad1 and UNC84 domain containing 1
G01	Mm.202715	NM_194342	Sun2	Sad1 and UNC84 domain containing 2
G02	Mm.268854	NM_001166064	Syde2	Synapse defective 1, Rho GTPase, homolog 2 (C. elegans)
G03	Mm.28823	NM_144517	Tbc1d19	TBC1 domain family, member 19
G04	Mm.289248	NM_026456	Tceb1	Transcription elongation factor B (SIII), polypeptide 1
G05	Mm.334297	NM_183289	Tcerg1l	Transcription elongation regulator 1-like
G06	Mm.482431	NM_146151	Tesk2	Testis-specific kinase 2
G07	Mm.4342	NM_009386	Tjp1	Tight junction protein 1
G08	Mm.142729	NM_021278	Tmsb4x	Thymosin, beta 4, X chromosome
G09	Mm.295660	NM_024477	Ttc28	Tetratricopeptide repeat domain 28
G10	Mm.122430	NM_025773	Ube2w	Ubiquitin-conjugating enzyme E2W (putative)
G11	Mm.258204	NM_011732	Ybx1	Y box protein 1
G12	Mm.475712	NM_138303	Yipf2	Yip1 domain family, member 2
H01	Mm.328431	NM_007393	Actb	Actin, beta
H02	Mm.163	NM_009735	B2m	Beta-2 microglobulin
H03	Mm.343110	NM_008084	Gapdh	Glyceraldehyde-3-phosphate dehydrogenase
H04	Mm.3317	NM_010368	Gusb	Glucuronidase, beta
H05	Mm.2180	NM_008302	Hsp90ab1	Heat shock protein 90 alpha (cytosolic), class B member 1
H06	N/A	SA_00106	MGDC	Mouse 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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