

RT² Profiler PCR Array (96-Well Format and 384-Well [4 x 96] Format)

Mouse miR-153 Targets

Cat. no. 330231 PAMM-6013ZA

For pathway expression analysis

Format	For use with the following real-time cyclers
RT ² Profiler PCR Array, Format A	Applied Biosystems® models 5700, 7000, 7300, 7500, 7700, 7900HT, ViiA™ 7 (96-well block); Bio-Rad® models iCycler®, iQ™ 5, MyiQ™, MyiQ2; Bio-Rad/MJ Research Chromo4™; Eppendorf® Mastercycler® ep realplex models 2, 2s, 4, 4s; Stratagene® models Mx3005P®, Mx3000P®; Takara TP-800
RT ² Profiler PCR Array, Format C	Applied Biosystems models 7500 (Fast block), 7900HT (Fast block), StepOnePlus™, ViiA 7 (Fast block)
RT ² Profiler PCR Array, Format D	Bio-Rad CFX96™; Bio-Rad/MJ Research models DNA Engine Opticon®, DNA Engine Opticon 2; Stratagene Mx4000®
RT ² Profiler PCR Array, Format E	Applied Biosystems models 7900HT (384-well block), ViiA 7 (384-well block); Bio-Rad CFX384™
RT ² Profiler PCR Array, Format F	Roche® LightCycler® 480 (96-well block)
RT ² Profiler PCR Array, Format G	Roche LightCycler 480 (384-well block)
RT ² Profiler PCR Array, Format H	Fluidigm® BioMark™



Sample & Assay Technologies

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 $\Delta\Delta\text{CT}$ 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-153 with this array.

For further details, consult the *RT² Profiler PCR Array Handbook*.

Shipping and storage

RT² Profiler PCR Arrays in formats A, C, D, E, F, and G are shipped at ambient temperature, on dry ice, or blue ice packs depending on destination and accompanying products. RT² Profiler PCR Arrays in format H are shipped on dry ice or blue ice packs.

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 (96-well)

For 384-well 4 x 96 PCR arrays, genes are present in a staggered format. Refer to the *RT² Profiler PCR Array Handbook* for layout.

	1	2	3	4	5	6	7	8	9	10	11	12
A	4930417G10 Rik	Actn4	Aplp2	Arf1	Arpp19	Auts2	BC024659	BC030336	BC031353	Bcl2	Cbfb	Cdk13
B	Cellf2	Cited2	Cnn3	Crebbp	Cux1	D030056L22R ik	Dmd	Ext1	Fam168b	Fam171a1	Gcap14	Glccl
C	Hey2	Ipo5	Itsn2	Jag1	Kdsr	Klf13	Klf5	Lamp1	Map4k5	Mcl1	Mdn1	Me1
D	Morc3	Mov10	Mppd2	Mtf2	Nav2	Nek9	Nfe2l2	Nova1	Nptn	Nudt4	Oprk1	Paip1
E	Palm2	Papd7	Pax2	Pcdhga12	Pcdhga2	Ppm1d	Ppm1h	Pppde1	Prdm2	Ptpn3	Rasa1	Rbm26
F	Robo2	Rock1	Rtn	Ryr3	Sertad2	Sgk3	Sigmar1	Slc36a2	Slc4a4	Smarca5	Snca	Sun1
G	Sun2	Syde2	Tbc1d19	Tceb1	Tcerg1l	Teskl	Tjp1	Tmsb4x	Ttc28	Ube2w	Ybx1	Yip2
H	Actb	B2m	Gapdh	Gusb	Hsp90ab1	MGDC	RTC	RTC	RTC	PPC	PPC	PPC

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	Cellf2	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	Glccl	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

Position	UniGene	GenBank	Symbol	Description
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
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	Pltn3	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	Rtnn	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 (SII), 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.
RT ² First Strand Kit (12)	Enzymes and reagents for cDNA synthesis	330401
RT ² SYBR Green qPCR Mastermix (2)*	For 2 x 96 assays in 96-well plates; suitable for use with real-time cyclers that do not require a reference dye, including: Bio-Rad models CFX96, CFX384, DNA Engine Opticon 2; Bio-Rad/MJ Research Chromo4; Roche LightCycler 480 (96-well and 384-well); all other cyclers	330500
RT ² SYBR Green ROX [™] qPCR Mastermix (2)*	For 2 x 96 assays in 96-well plates; suitable for use with the following real-time cyclers: Applied Biosystems models 5700, 7000, 7300, 7500 [Standard and FAST], 7700, 7900HT 96-well block [Standard and FAST] and 384-well block, StepOnePlus; Eppendorf Mastercycler ep realplex models 2, 2S, 4, 4S; Stratagene models Mx3000P, Mx3005P, Mx4000; Takara TP-800	330520
RT ² SYBR Green Fluor qPCR Mastermix (2)*	For 2 x 96 assays in 96-well plates; suitable for use with the following real-time cyclers: Bio-Rad models iCycler, iQ5, MyiQ, MyiQ2	330510

* 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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