

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

Mouse miR-17 & miR-20a Targets

Cat. no. 330231 PAMM-6003ZA

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-17 & miR-20a Targets RT² Profiler PCR Array profiles the expression of 84 mmu-miR-17-5p and mmu-miR-20a-5p target genes. This panel of 84 genes includes currently known experimentally verified plus bioinformatically predicted target genes regulated by mmu-miR-17-5p and mmu-miR-20a-5p. This array also includes target genes regulated by other miRNAs that have the same seed sequence as mmu-miR-17-5p and mmu-20a-5p including mmu-miR-20b-5p, mmu-miR-93-5p, mmu-miR-106a-5p, and mmu-miR-106b-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 miR-17 and miR-20a 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	Aicda	Alx4	Ankrd9	App	Arhgap1	Arid4b	Bahd1	Bambi	Bcl2	Bcl2l1	Bmpr2	Bnip2
B	Cald1	Caprin2	Ccl1	Ccnd1	Ccnd2	Ccng2	Cdkn1a	Crim1	Crot	Dnajc27	Dock4	E2f1
C	Elk3	Esr1	Fbxo31	Gpr137b	Hif1a	Hipk3	Hspa8	Icam1	Il10	Itgb8	Jak1	Kat2b
D	Map3k12	Map3k2	Map3k5	Map3k8	Mapk14	Mef2d	Mterfd2	Mylip	Ncoa3	Npat	Obfc2a	Pak7
E	Pbx3	Pde3b	Pkd2	Polq	Ppara	Pparg	Pten	Ptpro	Rab12	Rb1	Rbl1	Rbl2
F	Rps6ka5	Runx1	Sele	Smad4	Smurf1	St6galnac3	Stat3	Tcf7l1	Tgfb2	Tnfrsf12	Tnks2	Trip10
G	Trp53inp1	Tusc2	Usp3	Vegfa	Vldlr	Wee1	Yes1	Zbtb7a	Zfp148	Zfp1m2	Zfyve26	Znfx1
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.391503	NM_009645	Aicda	Activation-induced cytidine deaminase
A02	Mm.389389	NM_007442	Alx4	Aristaless-like homeobox 4
A03	Mm.250989	NM_175207	Ankrd9	Ankyrin repeat domain 9
A04	Mm.277585	NM_007471	App	Amyloid beta (A4) precursor protein
A05	Mm.22413	NM_146124	Arhgap1	Rho GTPase activating protein 1
A06	Mm.439784	NM_194262	Arid4b	AT rich interactive domain 4B (RBP1-like)
A07	Mm.330487	NM_001045523	Bahd1	Bromo adjacent homology domain containing 1
A08	Mm.284863	NM_026505	Bambi	BMP and activin membrane-bound inhibitor, homolog (Xenopus laevis)
A09	Mm.257460	NM_009741	Bcl2	B-cell leukemia/lymphoma 2
A10	Mm.141083	NM_009754	Bcl2l1	BCL2-like 11 (apoptosis facilitator)
A11	Mm.7106	NM_007561	Bmpr2	Bone morphogenic protein receptor, type II (serine/threonine kinase)
A12	Mm.440262	NM_016787	Bnip2	BCL2/adenovirus E1B interacting protein 2
B01	Mm.308134	NM_145575	Cald1	Caldesmon 1
B02	Mm.150568	NM_181541	Caprin2	Caprin family member 2
B03	Mm.1283	NM_011329	Ccl1	Chemokine (C-C motif) ligand 1
B04	Mm.273049	NM_007631	Ccnd1	Cyclin D1
B05	Mm.333406	NM_009829	Ccnd2	Cyclin D2
B06	Mm.3527	NM_007635	Ccng2	Cyclin G2
B07	Mm.195663	NM_007669	Cdkn1a	Cyclin-dependent kinase inhibitor 1A (P21)
B08	Mm.311912	NM_015800	Crim1	Cysteine rich transmembrane BMP regulator 1 (chordin like)
B09	Mm.28197	NM_023733	Crot	Carnitine O-octanoyltransferase
B10	Mm.271656	NM_153082	Dnajc27	DnaJ (Hsp40) homolog, subfamily C, member 27
B11	Mm.341423	NM_172803	Dock4	Dedicator of cytokinesis 4
B12	Mm.18036	NM_007891	E2f1	E2F transcription factor 1
C01	Mm.4454	NM_013508	Elk3	ELK3, member of ETS oncogene family
C02	Mm.9213	NM_007956	Esr1	Estrogen receptor 1 (alpha)
C03	Mm.467749	NM_133765	Fbxo31	F-box protein 31
C04	Mm.379269	NM_031999	Gpr137b	G protein-coupled receptor 137B
C05	Mm.3879	NM_010431	Hif1a	Hypoxia inducible factor 1, alpha subunit
C06	Mm.257925	NM_010434	Hipk3	Homeodomain interacting protein kinase 3
C07	Mm.336743	NM_031165	Hspa8	Heat shock protein 8
C08	Mm.435508	NM_010493	Icam1	Intercellular adhesion molecule 1
C09	Mm.874	NM_010548	Il10	Interleukin 10
C10	Mm.217000	NM_177290	Itgb8	Integrin beta 8
C11	Mm.289657	NM_146145	Jak1	Janus kinase 1
C12	Mm.255025	NM_020005	Kat2b	K(lysine) acetyltransferase 2B
D01	Mm.172897	NM_009582	Map3k12	Mitogen-activated protein kinase kinase kinase 12
D02	Mm.211762	NM_011946	Map3k2	Mitogen-activated protein kinase kinase kinase 2
D03	Mm.6595	NM_008580	Map3k5	Mitogen-activated protein kinase kinase kinase 5
D04	Mm.3275	NM_007746	Map3k8	Mitogen-activated protein kinase kinase kinase 8
D05	Mm.311337	NM_011951	Mapk14	Mitogen-activated protein kinase 14
D06	Mm.485397	NM_133665	Mef2d	Myocyte enhancer factor 2D
D07	Mm.52809	NM_178051	Mterfd2	MTERF domain containing 2
D08	Mm.212855	NM_153789	Mylip	Myosin regulatory light chain interacting protein
D09	Mm.476883	NM_008679	Ncoa3	Nuclear receptor coactivator 3

Position	UniGene	GenBank	Symbol	Description
D10	Mm.116713	NM_001081152	Npat	Nuclear protein in the AT region
D11	Mm.196290	NM_028696	Obfc2a	Oligonucleotide/oligosaccharide-binding fold containing 2A
D12	Mm.131572	NM_172858	Pak7	P21 protein (Cdc42/Rac)-activated kinase 7
E01	Mm.239941	NM_016768	Pbx3	Pre B-cell leukemia transcription factor 3
E02	Mm.430730	NM_011055	Pde3b	Phosphodiesterase 3B, cGMP-inhibited
E03	Mm.6442	NM_008861	Pkd2	Polycystic kidney disease 2
E04	Mm.259114	NM_029977	Polq	Polymerase (DNA directed), theta
E05	Mm.212789	NM_011144	Ppara	Peroxisome proliferator activated receptor alpha
E06	Mm.3020	NM_011146	Pparg	Peroxisome proliferator activated receptor gamma
E07	Mm.245395	NM_008960	Pten	Phosphatase and tensin homolog
E08	Mm.186361	NM_011216	Ptpro	Protein tyrosine phosphatase, receptor type, O
E09	Mm.248313	NM_024448	Rab12	RAB12, member RAS oncogene family
E10	Mm.273862	NM_009029	Rb1	Retinoblastoma 1
E11	Mm.244671	NM_011249	Rbl1	Retinoblastoma-like 1 (p107)
E12	Mm.235580	NM_011250	Rbl2	Retinoblastoma-like 2
F01	Mm.220417	NM_153587	Rps6ka5	Ribosomal protein S6 kinase, polypeptide 5
F02	Mm.4081	NM_009821	Runx1	Runt related transcription factor 1
F03	Mm.5245	NM_011345	Sele	Selectin, endothelial cell
F04	Mm.100399	NM_008540	Smad4	MAD homolog 4 (Drosophila)
F05	Mm.27735	NM_029438	Smurf1	SMAD specific E3 ubiquitin protein ligase 1
F06	Mm.440929	NM_011372	St6galnac3	ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1, 3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 3
F07	Mm.249934	NM_011486	Stat3	Signal transducer and activator of transcription 3
F08	Mm.440067	NM_009332	Tcf7l1	Transcription factor 7-like 1 (T-cell specific, HMG box)
F09	Mm.172346	NM_009371	Tgfbr2	Transforming growth factor, beta receptor II
F10	Mm.344820	NM_011614	Tnfrsf12	Tumor necrosis factor (ligand) superfamily, member 12
F11	Mm.249310	NM_001163635	Tnks2	Tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase 2
F12	Mm.37368	NM_134125	Trip10	Thyroid hormone receptor interactor 10
G01	Mm.393018	NM_021897	Trp53inp1	Transformation related protein 53 inducible nuclear protein 1
G02	Mm.21739	NM_019742	Tusc2	Tumor suppressor candidate 2
G03	Mm.38976	NM_144937	Usp3	Ubiquitin specific peptidase 3
G04	Mm.282184	NM_009505	Vegfa	Vascular endothelial growth factor A
G05	Mm.4141	NM_013703	Vldlr	Very low density lipoprotein receptor
G06	Mm.287173	NM_009516	Wee1	WEE 1 homolog 1 (S. pombe)
G07	Mm.4558	NM_009535	Yes1	Yamaguchi sarcoma viral (v-yes) oncogene homolog 1
G08	Mm.20920	NM_010731	Zbtb7a	Zinc finger and BTB domain containing 7a
G09	Mm.392667	NM_011749	Zfp148	Zinc finger protein 148
G10	Mm.39496	NM_011766	Zfp148	Zinc finger protein, multitype 2
G11	Mm.297919	NM_001008550	Zfyve26	Zinc finger, FYVE domain containing 26
G12	Mm.297074	NM_001033196	Znfx1	Zinc finger, NFX1-type containing 1
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.

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® (QIAGEN Group); Applied Biosystems®, ViiA™, StepOnePlus™, ROX™ (Applied Biosystems Corporation or its subsidiaries); Bio-Rad®, iCycler®, iQ™, MyiQ™, Chromo4™, CFX96™, DNA Engine Opticon®, CFX384™ (Bio-Rad Laboratories, Inc.); Stratagene®, Mx3005P®, Mx3000P®, Mx4000® (Stratagene); Eppendorf®, Mastercycler® (Eppendorf AG); Roche®, LightCycler® (Roche Group); Fluidigm® BioMark™ (Fluidigm Corporation); SYBR® (Molecular Probes, Inc.).

1066029 03/2011 © 2011 QIAGEN, all rights reserved.

www.qiagen.com

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

Australia ■ 1-800-243-800

Austria ■ 0800/281010

Belgium ■ 0800-79612

Brazil ■ 0800-557779



Sample & Assay Technologies