

RT² Profiler PCR Array (Rotor-Gene® Format)

Mouse miR-17 & miR-20a Targets

Cat. no. 330231 PAMM-6003ZR

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 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-miR-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 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.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	Myli1	Myosin regulatory light chain interacting protein
D09	Mm.476883	NM_008679	Ncoa3	Nuclear receptor coactivator 3
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

Position	UniGene	GenBank	Symbol	Description
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	Tgfb2	Transforming growth factor, beta receptor II
F10	Mm.344820	NM_011614	Tnfsf12	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	Zfp2	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 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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