RT² Profiler PCR Array (Rotor-Gene® Format)

Mouse mir-1 & miR-206 Targets

Cat. no. 330231 PAMM-6005ZR

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-1 & miR-206 Targets RT² Profiler PCR Array profiles the expression of 84 mmu-miR-1a-3p and mmu-miR-206-3p target genes. This panel of 84 genes includes currently known experimentally verified plus bioinformatically predicted target genes regulated by mmu-miR-1a-3p and mmu-miR-206-3p. 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-1 and miR-206 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.316628	NM_019655	Adar	Adenosine deaminase, RNA-specific
A02	Mm.238343	NM_007585	Anxa2	Annexin A2
A03	Mm.259702	NM_013471	Anxa4	Annexin A4
A04	Mm.371682	NM_145985	Arcn1	Archain 1
A05	Mm.27706	NM_011791	Ash2l	Ash2 (absent, small, or homeotic)-like (Drosophila)
A06	Mm.249096	NM_007509	Atp6v1b2	ATPase, H+ transporting, lysosomal V1 subunit B2
A07	Mm.250214	NM_018745	Azin1	Antizyme inhibitor 1
A08	Mm.257460	NM_009741	Bcl2	B-cell leukemia/lymphoma 2
A09	Mm.1442	NM_007540	Bdnf	Brain derived neurotrophic factor
A10	Mm.285993	NM_009790	Calm1	Calmodulin 1
A11	Mm.329243	NM_007589	Calm2	Calmodulin 2
A12	Mm.288630	NM_007590	Calm3	Calmodulin 3
B01	Mm.479526	NM_001003908	Cltc	Clathrin, heavy polypeptide (Hc)
B02	Mm.275555	NM_028044	Cnn3	Calponin 3, acidic
B03	Mm.14543	NM_010104	Edn1	Endothelin 1
B04	Mm.294623	NM_025437	Eif1aX	Eukaryotic translation initiation factor 1A, X-linked
B05	Mm.9213	NM_007956	Esr1	Estrogen receptor 1 (alpha)
B06	Mm.125477	NM_133940	Fbxl14	F-box and leucine-rich repeat protein 14
B07	Mm.193099	NM_010233	Fn1	Fibronectin 1
B08	Mm.135965	NM_177798	Frs2	Fibroblast growth factor receptor substrate 2
B09	Mm.182434	NM_008047	Fstl1	Follistatin-like 1
B10	Mm.27210	NM_008062	G6pdx	Glucose-6-phosphate dehydrogenase X-linked
B11	Mm.247669	NM_008092	Gata4	GATA binding protein 4
B12	Mm.10651	NM_008102	Gch1	GTP cyclohydrolase 1
C01	Mm.378921	NM_010288	Gja1	Gap junction protein, alpha 1
C02	Mm.12956	NM_008226	Hcn2	Hyperpolarization-activated, cyclic nucleotide-gated K+ 2
C03	Mm.151967	NM_001081192	Hcn4	Hyperpolarization-activated, cyclic nucleotide-gated K+ 4
C04	Mm.318567	NM_207225	Hdac4	Histone deacetylase 4
C05	Mm.254493	NM_020259	Hhip	Hedgehog-interacting protein
C06	Mm.280077	NM_008246	Hiat1	Hippocampus abundant gene transcript 1
C07	Mm.426956	NM_016805	Hnrnpu	Heterogeneous nuclear ribonucleoprotein U
C08	Mm.3546	NM_010459	Hoxb4	Homeobox B4
C09	Mm.274426	NM_018805	Hs3st3b1	Heparan sulfate (glucosamine) 3-O-sulfotransferase 3B1
C10	Mm.372314	NM_010478	Hspa1b	Heat shock protein 1B
C11	Mm.239865	NM_008300	Hspa4	Heat shock protein 4
C12	Mm.1777	NM_010477	Hspd1	Heat shock protein 1 (chaperonin)
D01	Mm.444	NM_010495	Id1	Inhibitor of DNA binding 1
D02	Mm.34871	NM_010496	Id2	Inhibitor of DNA binding 2
D03	Mm.110	NM_008321	Id3	Inhibitor of DNA binding 3
D04	Mm.268521	NM_010512	Igf1	Insulin-like growth factor 1
D05	Mm.275742	NM_010513	Igf1r	Insulin-like growth factor I receptor
D06	Mm.119714	NM_028078	Igsf5	Immunoglobulin superfamily, member 5
D07	Mm.101153	NM_018826	Irx5	Iroquois related homeobox 5 (Drosophila)
D08	Mm.299425	NM_008424	Kcne1	Potassium voltage-gated channel, Isk-related subfamily, member 1
D09	Mm.4951	NM_008425	Kcnj2	Potassium inwardly-rectifying channel, subfamily J, member 2
D10	Mm.355686	NM_008442	Kif2a	Kinesin family member 2A
D11	Mm.4325	NM_010637	Klf4	Kruppel-like factor 4 (gut)
D12	Mm.28811	NM_001024526	Larp4	La ribonucleoprotein domain family, member 4
E01	Mm.132788	NM_001033713	Mef2a	Myocyte enhancer factor 2A
E02	Mm.86844	NM_008591	Met	Met proto-oncogene
E03	Mm.205190	NM_026984	Mll5	Myeloid/lymphoid or mixed-lineage leukemia 5
E04	Mm.277518	NM_026178	Mmd	Monocyte to macrophage differentiation-associated
E05	Mm.169924	NM_153395	Mon2	MON2 homolog (yeast)
E06	Mm.154378	NM_010880	Ncl	Nucleolin
E07	Mm.279256	NM_013865	Ndrg3	N-myc downstream regulated gene 3
E08	Mm.439741	NM_008716	Notch3	Notch gene homolog 3 (Drosophila)
E09	Mm.190450	NM_001081434	Osbpl7	Oxysterol binding protein-like 7

Position	UniGene	GenBank	Symbol	Description
E10	Mm.1371	NM_008781	Pax3	Paired box gene 3
E11	Mm.218760	NM_011039	Pax7	Paired box gene 7
E12	Mm.405293	NM_008842	Pim1	Proviral integration site 1
F01	Mm.192094	NM_175170	Pogk	Pogo transposable element with KRAB domain
F02	Mm.1923	NM_008892	Pola1	Polymerase (DNA directed), alpha 1
F03	Mm.205569	NM_144880	Ppp2r5a	Protein phosphatase 2, regulatory subunit B (B56), alpha isoform
F04	Mm.478475	NM_021345	Ptplad1	Protein tyrosine phosphatase-like A domain containing 1
F05	Mm.259653	NM_145452	Rasa1	RAS p21 protein activator 1
F06	Mm.5163	NM_009065	Rit2	Ras-like without CAAX 2
F07	Mm.29366	NM_172684	Rsbn1	Rosbin, round spermatid basic protein 1
F08	Mm.428652	NM_010891	Sept2	Septin 2
F09	Mm.281691	NM_013834	Sfrp1	Secreted frizzled-related protein 1
F10	Mm.279751	NM_011418	Smarcb1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily b, member 1
F11	Mm.323365	NM_011445	Sox6	SRY-box containing gene 6
F12	Mm.96211	NM_025618	Sri	Sorcin
G01	Mm.32506	NM_011491	Stc2	Stanniocalcin 2
G02	Mm.1440	NM_009311	Tac1	Tachykinin 1
G03	Mm.8055	NM_009313	Tacr1	Tachykinin receptor 1
G04	Mm.271711	NM_178598	Tagln2	Transgelin 2
G05	Mm.259498	NM_001033422	Thoc2	THO complex 2
G06	Mm.142729	NM_021278	Tmsb4x	Thymosin, beta 4, X chromosome
G07	Mm.337820	NM_001083587	Tns3	Tensin 3
G08	Mm.39752	NM_182839	Tppp	Tubulin polymerization promoting protein
G09	Mm.270754	NM_001164659	Trank1	Tetratricopeptide repeat and ankyrin repeat containing 1
G10	Mm.480625	NM_011876	Twf2	Twinfilin, actin-binding protein, homolog 2 (Drosophila)
G11	Mm.215069	NM_145400	Ube4a	Ubiquitination factor E4A, UFD2 homolog (S. cerevisiae)
G12	Mm.331784	NM_011682	Utrn	Utrophin
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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