

RT² Profiler PCR Array (Rotor-Gene[®] Format)

Mouse miR-29 Targets

Cat. no. 330231 PAMM-6012ZR

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-29 Targets RT² Profiler PCR Array profiles the expression of 84 mmu-miR-29a-3p target genes. This panel of 84 genes includes currently known experimentally verified plus bioinformatically predicted target genes regulated by mmu-miR-29a-3p. This array also includes target genes regulated by other miRNAs that have the same seed sequence as mmu-miR-29a-3p, including mmu-miR-29b-3p and mmu-miR-29c-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-29 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.314338	NM_007396	Acvr2a	Activin receptor IIA
A02	Mm.439714	NM_007400	Adam12	A disintegrin and metallopeptidase domain 12 (meltrin alpha)
A03	Mm.158235	NM_175314	Adams9	A disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 9
A04	Mm.196067	NM_021299	Ak3	Adenylate kinase 3
A05	Mm.24044	NM_011792	Bace1	Beta-site APP cleaving enzyme 1
A06	Mm.2443	NM_007523	Bak1	BCL2-antagonist/killer 1
A07	Mm.7660	NM_133234	Bbc3	BCL2 binding component 3
A08	Mm.257460	NM_009741	Bcl2	B-cell leukemia/lymphoma 2
A09	Mm.141083	NM_009754	Bcl2l1	BCL2-like 11 (apoptosis facilitator)
A10	Mm.210125	NM_138313	Bmf	Bcl2 modifying factor
A11	Mm.5356	NM_133983	Cd276	CD276 antigen
A12	Mm.1022	NM_009861	Cdc42	Cell division cycle 42 homolog (S. cerevisiae)
B01	Mm.31672	NM_009873	Cdk6	Cyclin-dependent kinase 6
B02	Mm.233547	NM_009928	Col15a1	Collagen, type XV, alpha 1
B03	Mm.277735	NM_007742	Col1a1	Collagen, type I, alpha 1
B04	Mm.277792	NM_007743	Col1a2	Collagen, type I, alpha 2
B05	Mm.2423	NM_031163	Col2a1	Collagen, type II, alpha 1
B06	Mm.249555	NM_009930	Col3a1	Collagen, type III, alpha 1
B07	Mm.738	NM_009931	Col4a1	Collagen, type IV, alpha 1
B08	Mm.181021	NM_009932	Col4a2	Collagen, type IV, alpha 2
B09	Mm.10299	NM_007737	Col5a2	Collagen, type V, alpha 2
B10	Mm.334994	NM_016919	Col5a3	Collagen, type V, alpha 3
B11	Mm.6200	NM_007738	Col7a1	Collagen, type VII, alpha 1
B12	Mm.299735	NM_023465	Ctnnbip1	Catenin beta interacting protein 1
C01	Mm.407415	NM_053078	D0H4S114	DNA segment, human D4S114
C02	Mm.277217	NM_177646	Dgkd	Diacylglycerol kinase, delta
C03	Mm.21135	NM_148948	Dicer1	Dicer1, Dcr-1 homolog (Drosophila)
C04	Mm.37516	NM_026400	Dnajb11	DnaJ (Hsp40) homolog, subfamily B, member 11
C05	Mm.128580	NM_010066	Dnmt1	DNA methyltransferase (cytosine-5) 1
C06	Mm.5001	NM_007872	Dnmt3a	DNA methyltransferase 3A
C07	Mm.89772	NM_010068	Dnmt3b	DNA methyltransferase 3B
C08	Mm.4729	NM_010090	Dusp2	Dual specificity phosphatase 2
C09	Mm.131038	NM_023502	Elf2	E74-like factor 2
C10	Mm.275320	NM_007925	Eln	Elastin
C11	Mm.200692	NM_010136	Eomes	Eomesodermin homolog (Xenopus laevis)
C12	Mm.271644	NM_007993	Fbn1	Fibrillin 1
D01	Mm.24069	NM_010193	Fem1b	Feminization 1 homolog b (C. elegans)
D02	Mm.88793	NM_010196	Fga	Fibrinogen alpha chain
D03	Mm.30063	NM_181849	Fgb	Fibrinogen beta chain
D04	Mm.16422	NM_133862	Fgg	Fibrinogen gamma chain
D05	Mm.87142	NM_021899	Foxj2	Forkhead box J2
D06	Mm.210745	NM_008131	Glul	Glutamate-ammonia ligase (glutamine synthetase)
D07	Mm.1568	NM_008175	Grn	Granulin
D08	Mm.318567	NM_207225	Hdac4	Histone deacetylase 4
D09	Mm.384468	NM_007545	Hrk	Harakiri, BCL2 interacting protein (contains only BH3 domain)
D10	Mm.30241	NM_023065	Ifi30	Interferon gamma inducible protein 30
D11	Mm.208991	NM_022655	Ireb2	Iron responsive element binding protein 2
D12	Mm.34883	NM_176922	Irga11	Integrin alpha 11
E01	Mm.1249	NM_010683	Lamc1	Laminin, gamma 1
E02	Mm.1514	NM_008509	Lpl	Lipoprotein lipase
E03	Mm.28678	NM_021516	Mark3	MAP/microtubule affinity-regulating kinase 3
E04	Mm.210334	NM_134012	Mbt1	Mbt domain containing 1
E05	Mm.1639	NM_008562	Mcl1	Myeloid cell leukemia sequence 1
E06	Mm.217116	NM_008609	Mmp15	Matrix metallopeptidase 15
E07	Mm.330707	NM_010808	Mmp24	Matrix metallopeptidase 24
E08	Mm.16469	NM_008709	Mycn	V-myc myelocytomatosis viral related oncogene, neuroblastoma derived (avian)

Position	UniGene	GenBank	Symbol	Description
E09	Mm.225050	NM_001081035	Nav3	Neuron navigator 3
E10	Mm.4691	NM_010917	Nid1	Nidogen 1
E11	Mm.308500	NM_138663	Pcdha12	Protocadherin alpha 12
E12	Mm.259333	NM_001024955	Pik3r1	Phosphatidylinositol 3-kinase, regulatory subunit, polypeptide 1 (p85 alpha)
F01	Mm.1237	NM_008885	Pmp22	Peripheral myelin protein 22
F02	Mm.45609	NM_016910	Ppm1d	Protein phosphatase 1D magnesium-dependent, delta isoform
F03	Mm.313076	NM_011625	Ppp1r13b	Protein phosphatase 1, regulatory (inhibitor) subunit 13B
F04	Mm.245395	NM_008960	Pten	Phosphatase and tensin homolog
F05	Mm.251774	NM_181395	Pxdn	Peroxidasin homolog (Drosophila)
F06	Mm.215745	NM_001081013	Rlf	Rearranged L-myc fusion sequence
F07	Mm.235998	NM_009115	S100b	S100 protein, beta polypeptide, neural
F08	Mm.272569	NM_009256	Serpib9	Serine (or cysteine) peptidase inhibitor, clade B, member 9
F09	Mm.27120	NM_175465	Sestd1	SEC14 and spectrin domains 1
F10	Mm.257276	NM_023603	Sfpq	Splicing factor proline/glutamine rich (polypyrimidine tract binding protein associated)
F11	Mm.4618	NM_013672	Sp1	Trans-acting transcription factor 1
F12	Mm.291442	NM_009242	Sparc	Secreted acidic cysteine rich glycoprotein
G01	Mm.330986	NM_011896	Spry1	Sprouty homolog 1 (Drosophila)
G02	Mm.10229	NM_010178	Srsf10	Serine/arginine-rich splicing factor 10
G03	Mm.477879	NM_019507	Tbx21	T-box 21
G04	Mm.3629	NM_009335	Tcfap2c	Transcription factor AP-2, gamma
G05	Mm.18154	NM_009337	Tcl1	T-cell lymphoma breakpoint 1
G06	Mm.347607	NM_011561	Tdg	Thymine DNA glycosylase
G07	Mm.17774	NM_027384	Tef1	Tet oncogene 1
G08	Mm.3992	NM_009368	Tgfb3	Transforming growth factor, beta 3
G09	Mm.116683	NM_009397	Tnfaip3	Tumor necrosis factor, alpha-induced protein 3
G10	Mm.282184	NM_009505	Vegfa	Vascular endothelial growth factor A
G11	Mm.389856	NM_011756	Zfp36	Zinc finger protein 36
G12	Mm.235132	NM_007564	Zfp361l	Zinc finger protein 36, C3H type-like 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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