RT² Profiler PCR Array (Rotor-Gene® Format)

Mouse miR-146a Targets

Cat. no. 330231 PAMM-6004ZR

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-146a Targets RT² Profiler PCR Array profiles the expression of 84 mmu-miR-146a-5p target genes. This panel of 84 genes includes currently known experimentally verified plus bioinformatically predicted target genes regulated by mmu-miR-146a-5p. This array also includes target genes regulated by other miRNAs that have the same seed sequence as mmu-miR-146a-5p, including mmu-miR-146b-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-146a 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.133062	NM_001081401	Adamts3	A disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 3
A02	Mm.276815	NM_130895	Adarb1	Adenosine deaminase, RNA-specific, B1
A03	Mm.174068	NM_029466	Arl5b	ADP-ribosylation factor-like 5B
A04	Mm.174998	NM_026823	Arl8a	ADP-ribosylation factor-like 8A
A05	Mm.9852	NM_026217	Atg12	Autophagy-related 12 (yeast)
A06	Mm.23689	NM_001024602	AW555464	Expressed sequence AW555464
A07	Mm.53687	NM_016707	Bcl11a	B-cell CLL/lymphoma 11A (zinc finger protein)
A08	Mm.210146	NM_178782	Bcorl1	BCL6 co-repressor-like 1
A09	Mm.244975	NM_009764	Brca1	Breast cancer 1
A10	Mm.236256	NM_009765	Brca2	Breast cancer 2
A11	Mm.392646	NM_007570	Btg2	B-cell translocation gene 2, anti-proliferative
A12	Mm.327591	NM_009806	Cask	Calcium/calmodulin-dependent serine protein kinase (MAGUK family)
B01	Mm.4861	NM_011616	Cd40lg	CD40 ligand
B02	Mm.89474	NM_009855	Cd80	CD80 antigen
B03	Mm.259655	NM_001033285	Cdc42bpa	Cdc42 binding protein kinase alpha
B04	Mm.44292	NM_172434	Celf3	VCUGBP, Elav-like family member 3
B05	Mm.8655	NM_009888	Cfh	Complement component factor h
B06	Mm.297883	NM_011334	Clcn4-2	Chloride channel 4-2
B07	Mm.425178	NM_016673	Cntfr	Ciliary neurotrophic factor receptor
B08	Mm.22574	NM_001037859	Csf1r	Colony stimulating factor 1 receptor
B09	Mm.320317	NM_009986	Cux1	Cut-like homeobox 1
B10	Mm.296221	NM_030225	Dlst	Dihydrolipoamide S-succinyltransferase (E2 component of 2-oxo-glutarate complex)
B11	Mm.24680	NM_016878	Dnpep	Aspartyl aminopeptidase
B12	Mm.152371	NM_199322	Dot1l	DOT1-like, histone H3 methyltransferase (S. cerevisiae)
C01	Mm.185453	NM_013507	Eif4g2	Eukaryotic translation initiation factor 4, gamma 2
C02	Mm.119162	NM_010485	Elavl1	ELAV (embryonic lethal, abnormal vision, Drosophila)-like 1 (Hu antigen R)
C03	Mm.442420	NM_010154	Erbb4	V-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian)
C04	Mm.273755	NM_028731	Esyt2	Extended synaptotagmin-like protein 2
C05	Mm.5126	NM_010175	Fadd	Fas (TNFRSF6)-associated via death domain
C06	Mm.1626	NM_007987	Fas	Fas (TNF receptor superfamily member 6)
C07	Mm.30737	NM_175127	Fbxo28	F-box protein 28
C08	Mm.4465	NM_013890	Fbxw2	F-box and WD-40 domain protein 2
C09	Mm.130227	NM_008028	Flot2	Flotillin 2
C10	Mm.260594	NM_028194	Fryl	Furry homolog-like (Drosophila)
C11	Mm.40338	NM_008088	Gas7	Growth arrest specific 7
C12	Mm.131665	NM_001033288	Gm106	Predicted gene 106
D01	Mm.20931	NM_016810	Gosr1	Golgi SNAP receptor complex member 1
D02	Mm.150231	NM_007516	Hnrnpd	Heterogeneous nuclear ribonucleoprotein D
D03	Mm.294769	NM_009951	Igf2bp1	Insulin-like growth factor 2 mRNA binding protein 1
D04	Mm.38241	NM_008363	Irak1	Interleukin-1 receptor-associated kinase 1
D05	Mm.152142	NM_172161	Irak2	Interleukin-1 receptor-associated kinase 2
D06	Mm.227	NM_008402	Itgav	Integrin alpha V
D07	Mm.86406	NM_013910	Kdm2b	Lysine (K)-specific demethylase 2B
D08	Mm.29466	NM_033563	Klf7	Kruppel-like factor 7 (ubiquitous)
D09	Mm.202358	NM_008468	Kpna6	Karyopherin (importin) alpha 6
D10	Mm.268025	NM_001033223	Lin7a	Lin-7 homolog A (C. elegans)
D11	Mm.290677	NM_028973	Lrrc15	Leucine rich repeat containing 15
D12	Mm.12926	NM_013634	Med1	Mediator complex subunit 1
E01	Mm.187315	NM_019724	Mmp16	Matrix metallopeptidase 16
E02	Mm.458718	NM_008665	Myt1	Myelin transcription factor 1
E03	Mm.254017	NM_010928	Notch2	Notch gene homolog 2 (Drosophila)
E04	Mm.247195	NM_021361	Nova1	Neuro-oncological ventral antigen 1
E05	Mm.4390	NM_010949	Numb	Numb gene homolog (Drosophila)
E06	Mm.62505	NM_008888	Phox2b	Paired-like homeobox 2b
E07	Mm.372465	NM_001034867	Pm20d2	Peptidase M20 domain containing 2

Position	UniGene	GenBank	Symbol	Description
E08	Mm.271249	NM_001161362	Ppp2r3a	Protein phosphatase 2, regulatory subunit B", alpha
E09	Mm.12194	NM_009439	Psmd3	Proteasome (prosome, macropain) 26S subunit, non-ATPase, 3
E10	Mm.383192	NM_146121	Rabgap1	RAB GTPase activating protein 1
E11	Mm.310772	NM_019413	Robo1	Roundabout homolog 1 (Drosophila)
E12	Mm.470961	NM_009822	Runx1t1	Runt-related transcription factor 1; translocated to, 1 (cyclin D-related)
F01	Mm.27812	NM_001025379	Sema3g	Sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3G
F02	Mm.143603	NM_019535	Sh3gl2	SH3-domain GRB2-like 2
F03	Mm.19931	NM_145406	Slc10a3	Solute carrier family 10 (sodium/bile acid cotransporter family), member 3
F04	Mm.395108	NM_011401	Slc2a3	Solute carrier family 2 (facilitated glucose transporter), member 3
F05	Mm.103568	NM_134086	Slc38a1	Solute carrier family 38, member 1
F06	Mm.100399	NM_008540	Smad4	MAD homolog 4 (Drosophila)
F07	Mm.157119	NM_019972	Sort1	Sortilin 1
F08	Mm.24222	NM_020011	Sphk2	Sphingosine kinase 2
F09	Mm.277406	NM_009283	Stat1	Signal transducer and activator of transcription 1
F10	Mm.20911	NM_009285	Stc1	Stanniocalcin 1
F11	Mm.237095	NM_009261	Strbp	Spermatid perinuclear RNA binding protein
F12	Mm.272264	NM_011502	Stx3	Syntaxin 3
G01	Mm.19440	NM_001001176	Taf9b	TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor
G02	Mm.22501	NM_181071	Tanc2	Tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 2
G03	Mm.331198	NM_028307	Tdrkh	Tudor and KH domain containing protein
G04	Mm.33645	NM_001081242	Tln2	Talin 2
G05	Mm.292729	NM_009424	Traf6	Tnf receptor-associated factor 6
G06	Mm.38976	NM_144937	Usp3	Ubiquitin specific peptidase 3
G07	Mm.16974	NM_133758	Usp47	Ubiquitin specific peptidase 47
G08	Mm.29210	NM_012037	Vat1	Vesicle amine transport protein 1 homolog (T californica)
G09	Mm.8294	NM_011692	Vbp1	Von Hippel-Lindau binding protein 1
G10	Mm.59257	NM_183154	Zfyve1	Zinc finger, FYVE domain containing 1
G11	Mm.386888	NM_001164597	Znf512b	Zinc finger protein 512B
G12	Mm.216313	NM_001080924	Znrf3	Zinc and ring finger 3
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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