RT² Profiler PCR Array (Rotor-Gene® Format)

Mouse miR-210 Targets

Cat. no. 330231 PAMM-6009ZR

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-210 Targets RT² Profiler PCR Array profiles the expression of 84 mmu-miR-210-3p target genes. This panel of 84 genes includes currently known experimentally verified plus bioinformatically predicted target genes regulated by mmu-miR-210-3p . 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-210 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.308467	NM_007395	Acvr1b	Activin A receptor, type 1B
A02	Mm.112933	NM_011782	Adamts5	A disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 5 (aggrecanase-2)
A03	Mm.259733	NM_009622	Adcy1	Adenylate cyclase 1
A04	Mm.439750	NM_009624	Adcy9	Adenylate cyclase 9
A05	Mm.40038	NM_175178	Aifm3	Apoptosis-inducing factor, mitochondrion-associated 3
A06	Mm.393311	NM_172532	Aldh5a1	Aldhehyde dehydrogenase family 5, subfamily A1
A07	Mm.267664	NM_001024851	Ankrd34a	Ankyrin repeat domain 34A
A08	Mm.316007	NM_028840	Armc1	Armadillo repeat containing 1
A09	Mm.275332	NM_028835	Atg7	Autophagy-related 7 (yeast)
A10	Mm.200886	NM_019835	B4galt5	UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 5
A11	Mm.194212	NM_001004180	BC057022	CDNA sequence BC057022
A12	Mm.1442	NM_007540	Bdnf	Brain derived neurotrophic factor
B01	Mm.22279	NM_011997	Casp8ap2	Caspase 8 associated protein 2
B02	Mm.258105	NM_021609	Ccbp2	Chemokine binding protein 2
B03	Mm.278798	NM_028771	Ccdc97	Coiled-coil domain containing 97
B04	Mm.475464	NM_175752	Chn1	Chimerin (chimaerin) 1
B05	Mm.86425	NM_009601	Chrnb1	Cholinergic receptor, nicotinic, beta polypeptide 1 (muscle)
B06	Mm.335229	NM_175484	Coro2b	Coronin, actin binding protein, 2B
B07	Mm.340211	NM_178379	Cox10	COX10 homolog, cytochrome c oxidase assembly protein, heme A: farnesyltransferase (yeast)
B08	Mm.7233	NM_175937	Cpeb2	Cytoplasmic polyadenylation element binding protein 2
B09	Mm.234247	NM_026993	Ddah1	Dimethylarginine dimethylaminohydrolase 1
B10	Mm.9563	NM_025447	Dimt1	DIM1 dimethyladenosine transferase 1-like (S. cerevisiae)
B11	Mm.248046	NM_025384	Dnajc15	DnaJ (Hsp40) homolog, subfamily C, member 15
B12	Mm.167154	NM_013503	Drd5	Dopamine receptor D5
C01	Mm.89935	NM_007882	Dsc3	Desmocollin 3
C02	Mm.1645	NM_008052	Dtx1	Deltex 1 homolog (Drosophila)
C03	Mm.268356	NM_010093	E2f3	E2F transcription factor 3
C04	Mm.15675	NM_010107	Efna1	Ephrin A1
C05	Mm.331159	NM_010108	Efna3	Ephrin A3
C06	Mm.323188	NM_183141	Elfn2	Leucine rich repeat and fibronectin type III, extracellular 2
C07	Mm.30145	NM_032003	Enpp5	Ectonucleotide pyrophosphatase/phosphodiesterase 5
C08	Mm.260512	NM_145969	Fam116a	Family with sequence similarity 116, member A
C09	Mm.254974	NM_175392	Fam73b	Family with sequence similarity 73, member B
C10	Mm.4578	NM_008259	Foxa1	Forkhead box A1
C11	Mm.38198	NM_175380	Gpd1l	Glycerol-3-phosphate dehydrogenase 1-like
C12	Mm.283573	NM_010344	Gsr	Glutathione reductase
D01	Mm.254493	NM_020259	Hhip	Hedgehog-interacting protein
D02	Mm.135110	NM_016868	Hif3a	Hypoxia inducible factor 3, alpha subunit
D03	Mm.197	NM_010449	Hoxa1	Homeobox A1
D04	Mm.4694	NM_010456	Hoxa9	Homeobox A9
D05	Mm.254266	NM_008315	Htr7	5-hydroxytryptamine (serotonin) receptor 7
D06	Mm.29497	NM_025526	Iscu	IscU iron-sulfur cluster scaffold homolog (E. coli)
D07	Mm.29194	NM_019715	Kcmf1	Potassium channel modulatory factor 1
D08	Mm.239498	NM_153143	Kctd11	Potassium channel tetramerisation domain containing 11
D09	Mm.396499	NM_010636	Klf12	Kruppel-like factor 12
D10	Mm.290880	NM_178611	Lair1	Leukocyte-associated Ig-like receptor 1
D11	Mm.16716	NM_010684	Lamp1	Lysosomal-associated membrane protein 1
D12	Mm.132788	NM_001033713	Mef2a	Myocyte enhancer factor 2A
E01	Mm.29429	NM_026524	Mid1ip1	Mid1 interacting protein 1 (gastrulation specific G12-like (zebrafish))
E02	Mm.264889	NM_001033276	Mll2	Myeloid/lymphoid or mixed-lineage leukemia 2
E03	Mm.3759	NM_010813	Mnt	Max binding protein
E04	Mm.4974	NM_010875	Ncam1	Neural cell adhesion molecule 1
E05	Mm.415865	NM_010886	Ndufa4	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4
E06	Mm.389031	NM_178617	Necab1	N-terminal EF-hand calcium binding protein 1
E07	Mm.4814	NM_010895	Neurod2	Neurogenic differentiation 2

Position	UniGene	GenBank	Symbol	Description
E08	Mm.5142	NM_008730	Nptx1	Neuronal pentraxin 1
E09	Mm.26587	NM_011584	Nr1d2	Nuclear receptor subfamily 1, group D, member 2
E10	Mm.485447	NM_177242	Pptc7	PTC7 protein phosphatase homolog (S. cerevisiae)
E11	Mm.277916	NM_011201	Ptpn1	Protein tyrosine phosphatase, non-receptor type 1
E12	Mm.149	NM_011236	Rad52	RAD52 homolog (S. cerevisiae)
F01	Mm.251242	NM_030598	Rcan2	Regulator of calcineurin 2
F02	Mm.333943	NM_177740	Rgma	RGM domain family, member A
F03	Mm.221275	NM_153457	Rtn1	Reticulon 1
F04	Mm.218747	NM_130893	Scrt1	Scratch homolog 1, zinc finger protein (Drosophila)
F05	Mm.27812	NM_001025379	Sema3g	Sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3G
F06	Mm.274399	NM_033144	Sept8	Septin 8
F07	Mm.137966	NM_030241	Setd8	SET domain containing (lysine methyltransferase) 8
F08	Mm.280725	NM_026255	Slc25a26	Solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 26
F09	Mm.439830	NM_178246	Smg5	Smg-5 homolog, nonsense mediated mRNA decay factor (C. elegans)
F10	Mm.328888	XM_915205	Syngap1	Synaptic Ras GTPase activating protein 1 homolog (rat)
F11	Mm.139815	NM_009333	Tcf7l2	Transcription factor 7-like 2, T-cell specific, HMG-box
F12	Mm.11989	NM_001164805	Thsd7a	Thrombospondin, type I, domain containing 7A
G01	Mm.329064	NM_001013749	Tmem151b	Transmembrane protein 151B
G02	Mm.39752	NM_182839	Tppp	Tubulin polymerization promoting protein
G03	Mm.28438	NM_172054	Txndc9	Thioredoxin domain containing 9
G04	Mm.410189	NM_023719	Txnip	Thioredoxin interacting protein
G05	Mm.274770	NR_001570	Xist	Inactive X specific transcripts
G06	Mm.390833	NM_177310	Xpnpep3	X-prolyl aminopeptidase (aminopeptidase P) 3, putative
G07	Mm.147052	NM_146090	Zadh2	Zinc binding alcohol dehydrogenase, domain containing 2
G08	Mm.220972	NM_148926	Zfand3	Zinc finger, AN1-type domain 3
G09	Mm.392667	NM_011749	Zfp148	Zinc finger protein 148
G10	Mm.113388	NM_001015039	Zfyve28	Zinc finger, FYVE domain containing 28
G11	Mm.35705	NM_009517	Zmat3	Zinc finger matrin type 3
G12	Mm.227484	NM_183208	Zmiz1	Zinc finger, MIZ-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.
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.

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