RT² Profiler PCR Array (Rotor-Gene® Format)

Mouse let-7a Targets PCR Array

Cat. no. 330231 PAMM-6008YR

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 let-7a Targets RT² Profiler PCR Array profiles the expression of 84 hsa-let-7a-5p target genes. This panel of 84 genes includes currently known experimentally verified plus bioinformatically predicted target genes regulated by hsa-let-7a-5p. This array also includes target genes regulated by other miRNAs that have the same seed sequence as hsa-let-7a-5p, including hsa-let-7b-5p, hsa-let-7c, hsa-let-7d-5p, hsa-let-7e-5p, hsa-let-7f-5p, hsa-let-7g-5p, hsa-let-7i-5p, hsa-miR-98-5p, hsa-miR-4458, and hsa-miR-4500. 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 let-7a 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.100582	NM_013906	Adamts8	A disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 8
A02	Mm.227583	NM_009722	Atp2a2	ATPase, Ca++ transporting, cardiac muscle, slow twitch 2
A03	Mm.238213	NM_009743	Bcl2l1	Bcl2-like 1
A04	Mm.726	NM_009768	Bsg	Basigin
A05	Mm.21848	NM_025824	Bzw1	Basic leucine zipper and W2 domains 1
A06	Mm.34405	NM_009810	Casp3	Caspase 3
A07	Mm.4189	NM_009828	Ccna2	Cyclin A2
A08	Mm.273049	NM_007631	Ccnd1	Cyclin D1
A09	Mm.333406	NM_009829	Ccnd2	Cyclin D2
A10	Mm.307103	NM_007658	Cdc25a	Cell division cycle 25 homolog A (S. pombe)
A11	Mm.21981	NM_177613	Cdc34	Cell division cycle 34 homolog (S. cerevisiae)
A12	Mm.389058	NM_009873	Cdk6	Cyclin-dependent kinase 6
B01	Mm.231332	NM_012018	Cep110	Centrosomal protein 110
B02	Mm.332452	NM_199032	Cep135	Centrosomal protein 135
B03	Mm.333388	NM_145979	Chd4	Chromodomain helicase DNA binding protein 4
B04	Mm.392894	NM_007715	Clock	Circadian locomotor output cycles kaput
B05	Mm.277792	NM_007743	Col1a2	Collagen, type I, alpha 2
B06	Mm.249555	NM_009930	Col3a1	Collagen, type III, alpha 1
B07	Mm.482176	NM_172284	Ddx19b	DEAD (Asp-Glu-Ala-Asp) box polypeptide 19b
B08	Mm.21135	NM_148948	Dicer1	Dicer1, Dcr-1 homolog (Drosophila)
B09	Mm.239041	NM_013642	Dusp1	Dual specificity phosphatase 1
B10	Mm.441323	NM_007891	E2f1	E2F transcription factor 1
B11	Mm.307932	NM_177733	E2f2	E2F transcription factor 2
B12	Mm.86705	NM_153177	Ago4	Eukaryotic translation initiation factor 2C, 4
C01	Mm.27789	NM_145148	Frmd4b	FERM domain containing 4B
C02	Mm.29975	NM_025961	Gatm	Glycine amidinotransferase (L-arginine:glycine amidinotransferase)
C03	Mm.302555	NM_013526	Gdf6	Growth differentiation factor 6
C04	Mm.335190	NM_001004164	Gnptab	N-acetylglucosamine-1-phosphate transferase, alpha and beta subunits
C05	Mm.145278	NM_176958	Hif1an	Hypoxia-inducible factor 1, alpha subunit inhibitor
C06	Mm.280805	NM_146001	Hip1	Huntingtin interacting protein 1
C07	Mm.4694	NM_010456	Hoxa9	Homeobox A9
C08	Mm.1245	NM_010510	Ifnb1	Interferon beta 1, fibroblast
C09	Mm.491157	NM_009951	Igf2bp1	Insulin-like growth factor 2 mRNA binding protein 1
C10	Mm.281018	NM_023670	Igf2bp3	Insulin-like growth factor 2 mRNA binding protein 3
C11	Mm.282743	NM_026079	Ikbkap	Inhibitor of kappa light polypeptide enhancer in B-cells, kinase complex-associated protein
C12	Mm.1284	NM_008355	Il13	Interleukin 13
D01	Mm.1019	NM_031168	Il6	Interleukin 6
D02	Mm.222934	NM_177128	Iqcb1	IQ calmodulin-binding motif containing 1
D03	Mm.87150	NM_016780	Itgb3	Integrin beta 3
D04	Mm.46421	NM_133712	Klk10	Kallikrein related-peptidase 10
D05	Mm.3944	NM_011177	Klk6	Kallikrein related-peptidase 6
D06	Mm.383182	NM_021284	Kras	V-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog
D07	Mm.302567	NM_145833	Lin28a	Lin-28 homolog A (C. elegans)
D08	Mm.34855	NM_001025067	Lrig2	Leucine-rich repeats and immunoglobulin-like domains 2
D09	Mm.275586	NM_177152	Lrig3	Leucine-rich repeats and immunoglobulin-like domains 3
D10	Mm.311948	NM_001081357	Map4k3	Mitogen-activated protein kinase kinase kinase kinase 3
D11	Mm.311337	NM_011951	Mapk14	Mitogen-activated protein kinase 14
D12	Mm.480076	NM_015806	Mapk6	Mitogen-activated protein kinase 6
E01	Mm.21495	NM_016700	Mapk8	Mitogen-activated protein kinase 8
E02	Mm.182746	NM_008098	Mtpn	Myotrophin
E03	Mm.2444	NM_010849	Myc	Myelocytomatosis oncogene
E04	Mm.16469	NM_008709	Mycn	V-myc myelocytomatosis viral related oncogene, neuroblastoma derived (avian)
E05	Mm.469663	NM_008679	Ncoa3	Nuclear receptor coactivator 3
E06	Mm.297109	NM_010898	Nf2	Neurofibromatosis 2
E07	Mm.485819	NM_028024	Nkiras2	NFKB inhibitor interacting Ras-like protein 2

Position	UniGene	GenBank	Symbol	Description
E08	Mm.479273	NM_028721	Nphp3	Nephronophthisis 3 (adolescent)
E09	Mm.287100	NM_152229	Nr2e1	Nuclear receptor subfamily 2, group E, member 1
E10	Mm.400954	NM_010937	Nras	Neuroblastoma ras oncogene
E11	Mm.5002	NM_145562	Parm1	Prostate androgen-regulated mucin-like protein 1
E12	Mm.239941	NM_016768	Pbx3	Pre B-cell leukemia transcription factor 3
F01	Mm.28350	NM_198308	Pdpr	Pyruvate dehydrogenase phosphatase regulatory subunit
F02	Mm.100476	NM_172791	Pla2g3	Phospholipase A2, group III
F03	Mm.256712	NM_018797	Plxnc1	Plexin C1
F04	Mm.4800	NM_007548	Prdm1	PR domain containing 1, with ZNF domain
F05	Mm.431695	NM_011240	Ranbp2	RAN binding protein 2
F06	Mm.248630	NM_009027	Rasgrf2	RAS protein-specific guanine nucleotide-releasing factor 2
F07	Mm.185636	NM_183024	Raver2	Ribonucleoprotein, PTB-binding 2
F08	Mm.4876	NM_009037	Rcn1	Reticulocalbin 1
F09	Mm.491245	NM_175303	Sall4	Sal-like 4 (Drosophila)
F10	Mm.234608	NM_008732	Slc11a2	Solute carrier family 11 (proton-coupled divalent metal ion transporters), member 2
F11	Mm.402902	NM_028711	Slc25a27	Solute carrier family 25, member 27
F12	Mm.482095	NM_019710	Smc1a	Structural maintenance of chromosomes 1A
G01	Mm.23957	NM_080843	Socs4	Suppressor of cytokine signaling 4
G02	Mm.197552	NM_009370	Tgfbr1	Transforming growth factor, beta receptor I
G03	Mm.38049	NM_021297	Tlr4	Toll-like receptor 4
G04	Mm.17857	NM_001042503	Trim71	Tripartite motif-containing 71
G05	Mm.21739	NM_019742	Tusc2	Tumor suppressor candidate 2
G06	Mm.313364	NM_144873	Uhrf2	Ubiquitin-like, containing PHD and RING finger domains 2
G07	Mm.167971	NM_011669	Usp12	Ubiquitin specific peptidase 12
G08	Mm.178524	NM_001029934	Usp32	Ubiquitin specific peptidase 32
G09	Mm.284654	NM_172445	Wdr37	WD repeat domain 37
G10	Mm.1123	NM_021279	Wnt1	Wingless-related MMTV integration site 1
G11	Mm.44222	NM_173399	Zbtb5	Zinc finger and BTB domain containing 5
G12	Mm.297919	NM_001008550	Zfyve26	Zinc finger, FYVE domain containing 26
H01	Mm.391967	NM_007393	Actb	Actin, beta
H02	Mm.163	NM_009735	B2m	Beta-2 microglobulin
H03	Mm.304088	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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