

RT² Profiler PCR Array (96-Well Format and 384-Well [4 x 96] Format)

Mouse let-7a Targets PCR Array

Cat. no. 330231 PAMM-6008YA

For pathway expression analysis

Format	For use with the following real-time cyclers
RT ² Profiler PCR Array, Format A	Applied Biosystems® models 5700, 7000, 7300, 7500, 7700, 7900HT, ViiA™ 7 (96-well block); Bio-Rad® models iCycler®, iQ™ 5, MyiQ™, MyiQ2; Bio-Rad/MJ Research Chromo4™; Eppendorf® Mastercycler® ep realplex models 2, 2s, 4, 4s; Stratagene® models Mx3005P®, Mx3000P®; Takara TP-800
RT ² Profiler PCR Array, Format C	Applied Biosystems models 7500 (Fast block), 7900HT (Fast block), StepOnePlus™, ViiA 7 (Fast block)
RT ² Profiler PCR Array, Format D	Bio-Rad CFX96™; Bio-Rad/MJ Research models DNA Engine Opticon®, DNA Engine Opticon 2; Stratagene Mx4000®
RT ² Profiler PCR Array, Format E	Applied Biosystems models 7900HT (384-well block), ViiA 7 (384-well block); Bio-Rad CFX384™
RT ² Profiler PCR Array, Format F	Roche® LightCycler® 480 (96-well block)
RT ² Profiler PCR Array, Format G	Roche LightCycler 480 (384-well block)
RT ² Profiler PCR Array, Format H	Fluidigm® BioMark™



Sample & Assay Technologies

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 formats A, C, D, E, F, and G are shipped at ambient temperature, on dry ice, or blue ice packs depending on destination and accompanying products. RT² Profiler PCR Arrays in format H are shipped on dry ice or blue ice packs.

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 (96-well)

For 384-well 4 x 96 PCR arrays, genes are present in a staggered format. Refer to the *RT² Profiler PCR Array Handbook* for layout.

	1	2	3	4	5	6	7	8	9	10	11	12
A	Adams8	Atp2a2	Bcl2l1	Bsg	Bzw1	Casp3	Ccna2	Ccnd1	Ccnd2	Cdc25a	Cdc34	Cdk6
B	Cep110	Cep135	Chd4	Clock	Col1a2	Col3a1	Ddx19b	Dicer1	Dusp1	E2f1	E2f2	Ago4
C	Frm4b	Gatm	Gdf6	Gnptab	Hif1an	Hip1	Hoxa9	Ifnb1	Igf2bp1	Igf2bp3	Ikbkap	Il13
D	Il6	Iqcb1	Itgb3	Klk10	Klk6	Kras	Lin28a	Lrig2	Lrig3	Map4k3	Mapk14	Mapk6
E	Mapk8	Mtpn	Myc	Mycn	Ncoa3	Nf2	Nkiras2	Nphp3	Nr2e1	Nras	Parm1	Pbx3
F	Pdpr	Pla2g3	Plxnc1	Prdm1	Ranbp2	Rasgrf2	Raver2	Rcn1	Sall4	Slc11a2	Slc25a27	Smc1a
G	Socs4	Tgfb1	Tir4	Trim71	Tusc2	Uhrf2	Usp12	Usp32	Wdr37	Wnt1	Zbtb5	Zfyve26
H	Actb	B2m	Gapdh	Gusb	Hsp90ab1	MGDC	RTC	RTC	RTC	PPC	PPC	PPC

Gene table: RT² Profiler PCR Array

Position	UniGene	GenBank	Symbol	Description
A01	Mm.100582	NM_013906	Adams8	A disintegrin-like and metalloproteinase (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	Frm4b	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)

Position	UniGene	GenBank	Symbol	Description
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
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	Tgfb1	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.
RT ² First Strand Kit (12)	Enzymes and reagents for cDNA synthesis	330401
RT ² SYBR Green qPCR Mastermix (2)*	For 2 x 96 assays in 96-well plates; suitable for use with real-time cyclers that do not require a reference dye, including: Bio-Rad models CFX96, CFX384, DNA Engine Opticon 2; Bio-Rad/MJ Research Chromo4; Roche LightCycler 480 (96-well and 384-well); all other cyclers	330500
RT ² SYBR Green ROX [™] qPCR Mastermix (2)*	For 2 x 96 assays in 96-well plates; suitable for use with the following real-time cyclers: Applied Biosystems models 5700, 7000, 7300, 7500 [Standard and FAST], 7700, 7900HT 96-well block [Standard and FAST] and 384-well block, StepOnePlus; Eppendorf Mastercycler ep realplex models 2, 2S, 4, 4S; Stratagene models Mx3000P, Mx3005P, Mx4000; Takara TP-800	330520
RT ² SYBR Green Fluor qPCR Mastermix (2)*	For 2 x 96 assays in 96-well plates; suitable for use with the following real-time cyclers: Bio-Rad models iCycler, iQ5, MyiQ, MyiQ2	330510

* 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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