

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

Mouse miR-155 Targets

Cat. no. 330231 PAMM-6002ZA

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 miR-155 Targets RT² Profiler PCR Array profiles the expression of 84 mmu-miR-155-5p target genes. This panel of 84 genes includes experimentally verified plus bioinformatically predicted target genes regulated by mmu-miR-155-5p. 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 regulated by miR-155 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	Aak1	Agtr1a	Aicda	Apc	Arid2	Astn2	Bach1	Bcor1	Card11	Cebpb	Chd9	Csnk1g2
B	Cyr61	Det1	Dhx40	Dync1i1	Edn1	Ets1	Fadd	Fgf7	Foxo3	G3bp2	Gdf6	Hivep2
C	Hnrnpa3	lfngr1	lkbke	ilf3	Inpp5d	Irak3	Jarid2	Kras	Ldoc1	Lpar6	Mafb	Matr3
D	Mecp2	Mef2a	Meis1	Mlh1	Msh2	Msh6	Myb	Myo10	Ndfip1	Nfatc2ip	Nova1	Pam
E	Pea15a	Peli1	Phf17	Pld5	Rap1b	Rhoa	Ripk1	Rreb1	Runx2	Sec14l5	Sept11	Sfp1
F	Ski	Skiv2l2	Smad1	Smad2	Smad5	Socs1	Sox1	Stx16	Shbp5l	Tab2	Tceb1	Tie4
G	Tm6sf1	Tomm20	Trp53inp1	Tshz3	Tif	Uqcr11	Usp14	Zfp236	Zfp407	Zfp652	Zic3	Zmym2
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.221038	NM_177762	Aak1	AP2 associated kinase 1
A02	Mm.35062	NM_177322	Agtr1a	Angiotensin II receptor, type 1a
A03	Mm.391503	NM_009645	Aicda	Activation-induced cytidine deaminase
A04	Mm.384171	NM_007462	Apc	Adenomatosis polyposis coli
A05	Mm.17166	NM_175251	Arid2	AT rich interactive domain 2 (ARID, RFX-like)
A06	Mm.445312	NM_019514	Astn2	Astrotactin 2
A07	Mm.26147	NM_007520	Bach1	BTB and CNC homology 1
A08	Mm.210146	NM_178782	Bcor1	BCL6 co-repressor-like 1
A09	Mm.46187	NM_175362	Card11	Caspase recruitment domain family, member 11
A10	Mm.439656	NM_009883	Cebpb	CCAAT/enhancer binding protein (C/EBP), beta
A11	Mm.100615	NM_177224	Chd9	Chromodomain helicase DNA binding protein 9
A12	Mm.29873	NM_134002	Csnk1g2	Casein kinase 1, gamma 2
B01	Mm.1231	NM_010516	Cyr61	Cysteine rich protein 61
B02	Mm.250541	NM_029585	Det1	De-etiolated homolog 1 (Arabidopsis)
B03	Mm.260627	NM_026191	Dhx40	DEAH (Asp-Glu-Ala-His) box polypeptide 40
B04	Mm.20893	NM_010063	Dync1i1	Dynein cytoplasmic 1 intermediate chain 1
B05	Mm.14543	NM_010104	Edn1	Endothelin 1
B06	Mm.292415	NM_011808	Ets1	E26 avian leukemia oncogene 1, 5' domain
B07	Mm.5126	NM_010175	Fadd	Fas (TNFRSF6)-associated via death domain
B08	Mm.330557	NM_008008	Fgf7	Fibroblast growth factor 7
B09	Mm.338613	NM_019740	Foxo3	Forkhead box O3
B10	Mm.290530	NM_011816	G3bp2	GTPase activating protein (SH3 domain) binding protein 2
B11	Mm.302555	NM_013526	Gdf6	Growth differentiation factor 6
B12	Mm.42157	NM_010437	Hivep2	Human immunodeficiency virus type 1 enhancer binding protein 2
C01	Mm.316306	NM_198090	Hnrnpa3	Heterogeneous nuclear ribonucleoprotein A3
C02	Mm.549	NM_010511	lfngr1	Interferon gamma receptor 1
C03	Mm.386783	NM_019777	lkbke	Inhibitor of kappaB kinase epsilon
C04	Mm.440026	NM_010561	ilf3	Interleukin enhancer binding factor 3
C05	Mm.15105	NM_010566	Inpp5d	Inositol polyphosphate-5-phosphatase D
C06	Mm.146194	NM_028679	Irak3	Interleukin-1 receptor-associated kinase 3
C07	Mm.25059	NM_021878	Jarid2	Jumonji, AT rich interactive domain 2
C08	Mm.383182	NM_021284	Kras	V-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog
C09	Mm.23468	NM_001018087	Ldoc1	Leucine zipper, down-regulated in cancer 1
C10	Mm.390681	NM_175116	Lpar6	Lysophosphatidic acid receptor 6
C11	Mm.330745	NM_010658	Mafb	V-maf musculoaponeurotic fibrosarcoma oncogene family, protein B (avian)
C12	Mm.215034	NM_010771	Matr3	Matrin 3
D01	Mm.131408	NM_010788	Mecp2	Methyl CpG binding protein 2
D02	Mm.132788	NM_001033713	Mef2a	Myocyte enhancer factor 2A
D03	Mm.356578	NM_010789	Meis1	Meis homeobox 1
D04	Mm.196006	NM_026810	Mlh1	MutL homolog 1 (E. coli)
D05	Mm.4619	NM_008628	Msh2	MutS homolog 2 (E. coli)
D06	Mm.18210	NM_010830	Msh6	MutS homolog 6 (E. coli)
D07	Mm.52109	NM_010848	Myb	Myeloblastosis oncogene
D08	Mm.60590	NM_019472	Myo10	Myosin X
D09	Mm.102496	NM_022996	Ndfip1	Nedd4 family interacting protein 1

Position	UniGene	GenBank	Symbol	Description
D10	Mm.1389	NM_010900	Nfatc2ip	Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 interacting protein
D11	Mm.247195	NM_021361	Nova1	Neuro-oncological ventral antigen 1
D12	Mm.5121	NM_013626	Pam	Peptidylglycine alpha-amidating monooxygenase
E01	Mm.544	NM_011063	Pea15a	Phosphoprotein enriched in astrocytes 15A
E02	Mm.28957	NM_023324	Peli1	Pellino 1
E03	Mm.286285	NM_172303	Phf17	PHD finger protein 17
E04	Mm.338001	NM_176916	Pld5	Phospholipase D family, member 5
E05	Mm.233009	NM_024457	Rap1b	RAS related protein 1b
E06	Mm.757	NM_016802	Rhoa	Ras homolog gene family, member A
E07	Mm.374799	NM_009068	Ripk1	Receptor (TNFRSF)-interacting serine-threonine kinase 1
E08	Mm.132634	NM_001177869	Rreb1	Ras responsive element binding protein 1
E09	Mm.391013	NM_009820	Runx2	Runt related transcription factor 2
E10	Mm.102072	NM_001127725	Sec14i5	SEC14-like 5 (<i>S. cerevisiae</i>)
E11	Mm.428571	NM_001009818	Sept11	Septin 11
E12	Mm.1302	NM_011355	Sfpi1	SFFV proviral integration 1
F01	Mm.28520	NM_011385	Ski	Ski sarcoma viral oncogene homolog (avian)
F02	Mm.291029	NM_028151	Skiv2l2	Superkiller virulicidic activity 2-like 2 (<i>S. cerevisiae</i>)
F03	Mm.223717	NM_008539	Smad1	MAD homolog 1 (<i>Drosophila</i>)
F04	Mm.391091	NM_010754	Smad2	MAD homolog 2 (<i>Drosophila</i>)
F05	Mm.272920	NM_008541	Smad5	MAD homolog 5 (<i>Drosophila</i>)
F06	Mm.130	NM_009896	Socs1	Suppressor of cytokine signaling 1
F07	Mm.39088	NM_009233	Sox1	SRY-box containing gene 1
F08	Mm.277977	NM_172675	Stx16	Syntaxin 16
F09	Mm.403226	NM_172440	Stxbp5l	Syntaxin binding protein 5-like
F10	Mm.193041	NM_138667	Tab2	TGF-beta activated kinase 1/MAP3K7 binding protein 2
F11	Mm.289248	NM_026456	Tceb1	Transcription elongation factor B (SIII), polypeptide 1
F12	Mm.103638	NM_011600	Tle4	Transducin-like enhancer of split 4, homolog of <i>Drosophila</i> E(spl)
G01	Mm.221412	NM_145375	Tm6sf1	Transmembrane 6 superfamily member 1
G02	Mm.6932	NM_024214	Tomm20	Translocase of outer mitochondrial membrane 20 homolog (yeast)
G03	Mm.393018	NM_021897	Trp53inp1	Transformation related protein 53 inducible nuclear protein 1
G04	Mm.44141	NM_172298	Tshz3	Teashirt zinc finger family member 3
G05	Mm.33909	NM_027192	Ttl	Tubulin tyrosine ligase
G06	Mm.379119	NM_025650	Uqcr11	Ubiquinol-cytochrome c reductase, complex III subunit XI
G07	Mm.329277	NM_021522	Usp14	Ubiquitin specific peptidase 14
G08	Mm.34438	NM_177832	Zfp236	Zinc finger protein 236
G09	Mm.329575	NM_001033341	Zfp407	Zinc finger protein 407
G10	Mm.389038	NM_201609	Zfp652	Zinc finger protein 652
G11	Mm.255890	NM_009575	Zic3	Zinc finger protein of the cerebellum 3
G12	Mm.31417	NM_029498	Zmyx2	Zinc finger, MYM-type 2
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 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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