

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

Mouse miR-221 & miR-222 Targets

Cat. no. 330231 PAMM-6007ZA

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-221 & miR-222 Targets RT² Profiler PCR Array profiles the expression of 84 mmu-miR-221-3p and mmu-miR-222-3p target genes. This panel of 84 genes includes currently known experimentally verified plus bioinformatically predicted target genes regulated by mmu-miR-221-3p and mmu-miR-222-3p. This array also includes target genes regulated by other miRNAs that have the same seed sequence as mmu-miR-221-3p and mmu-miR-222-3p, including mmu-miR-1928. 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-221 and miR-222 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	Agfg1	Angptl2	Ankhd1	Ankib1	Arf4	Bbc3	Bcl2l11	Bmf	Bmi1	Bmp2k	Bnip3	Casz1
B	Cbfb	Cd47	Cdkn1b	Cdkn1c	Chsy1	Crebzf	Cyr61	Dcaf7	Dcun1d1	Ddit4	Dkk2	Dpp8
C	Esr1	Ets2	Fmr1	Fndc3a	Fos	Foxn2	Foxo3	Gal3st4	Gnai2	Grb10	Hectd2	Icam1
D	Kif16b	Kit	Mapk6	Megf9	Midn	Mill6	Mmp1a	Mrip	Mybl1	Nfyb	Nlk	Nlf3
E	Paip1	Pcdha12	Pdik1l	Phf2	Pik3r1	Picd2	Plxnc1	Ppp2r2a	Ppp2r5e	Pten	Rab1	Rnf4
F	Rnf44	Rabn1l	Sec62	Sim1	Skp1a	Slc25a37	Slc38a1	Slco1a4	Smarca5	Srx4	Sod2	Slk24
G	Sun2	Tbk1	Tcf12	Tlk1	Tmcc1	Tox	Tsc22d3	Ube2g1	Usp27x	Vezf1	Wdr47	Wsb2
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.392569	NM_010472	Agfg1	ArfGAP with FG repeats 1
A02	Mm.208919	NM_011923	Angptl2	Angiopoietin-like 2
A03	Mm.482287	NM_175375	Ankhd1	Ankyrin repeat and KH domain containing 1
A04	Mm.130148	NM_001003909	Ankib1	Ankyrin repeat and IBR domain containing 1
A05	Mm.297768	NM_007479	Arf4	ADP-ribosylation factor 4
A06	Mm.7660	NM_133234	Bbc3	BCL2 binding component 3
A07	Mm.141083	NM_009754	Bcl2l11	BCL2-like 11 (apoptosis facilitator)
A08	Mm.210125	NM_138313	Bmf	Bcl2 modifying factor
A09	Mm.289584	NM_007552	Bmi1	Bmi1 polycomb ring finger oncogene
A10	Mm.281490	NM_080708	Bmp2k	BMP2 inducible kinase
A11	Mm.378890	NM_009760	Bnip3	BCL2/adenovirus E1B interacting protein 3
A12	Mm.233879	NM_027195	Casz1	Castor homolog 1, zinc finger (Drosophila)
B01	Mm.2018	NM_022309	Cbfb	Core binding factor beta
B02	Mm.31752	NM_010581	Cd47	CD47 antigen (Rh-related antigen, integrin-associated signal transducer)
B03	Mm.2958	NM_009875	Cdkn1b	Cyclin-dependent kinase inhibitor 1B
B04	Mm.168789	NM_009876	Cdkn1c	Cyclin-dependent kinase inhibitor 1C (P57)
B05	Mm.333916	NM_001081163	Chsy1	Chondroitin sulfate synthase 1
B06	Mm.29496	NM_145151	Crebzf	CREB/ATF bZIP transcription factor
B07	Mm.1231	NM_010516	Cyr61	Cysteine rich protein 61
B08	Mm.307455	NM_027946	Dcaf7	DDB1 and CUL4 associated factor 7
B09	Mm.379305	NM_033623	Dcun1d1	DCN1, defective in cullin neddylation 1, domain containing 1 (S. cerevisiae)
B10	Mm.21697	NM_029083	Ddit4	DNA-damage-inducible transcript 4
B11	Mm.103593	NM_020265	Dkk2	Dickkopf homolog 2 (Xenopus laevis)
B12	Mm.202749	NM_028906	Dpp8	Dipeptidylpeptidase 8
C01	Mm.9213	NM_007956	Esr1	Estrogen receptor 1 (alpha)
C02	Mm.290207	NM_011809	Ets2	E26 avian leukemia oncogene 2, 3' domain
C03	Mm.3451	NM_008031	Fmr1	Fragile X mental retardation syndrome 1 homolog
C04	Mm.205421	NM_207636	Fndc3a	Fibronectin type III domain containing 3a
C05	Mm.246513	NM_010234	Fos	FBJ osteosarcoma oncogene
C06	Mm.112824	NM_180974	Foxn2	Forkhead box N2
C07	Mm.338613	NM_019740	Foxo3	Forkhead box O3
C08	Mm.332774	NM_001033416	Gal3st4	Galactose-3-O-sulfotransferase 4
C09	Mm.196464	NM_008138	Gnai2	Guanine nucleotide binding protein (G protein), alpha inhibiting 2
C10	Mm.273117	NM_010345	Grb10	Growth factor receptor bound protein 10
C11	Mm.61107	NM_172637	Hectd2	HECT domain containing 2
C12	Mm.435508	NM_010493	Icam1	Intercellular adhesion molecule 1
D01	Mm.251934	NM_001081133	Kif16b	Kinesin family member 16B
D02	Mm.247073	NM_021099	Kit	Kit oncogene
D03	Mm.480076	NM_015806	Mapk6	Mitogen-activated protein kinase 6
D04	Mm.251188	NM_172694	Megf9	Multiple EGF-like-domains 9
D05	Mm.143813	NM_021565	Midn	Midnolin
D06	Mm.23685	NM_139311	Mill6	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 6
D07	Mm.156952	NM_032006	Mmp1a	Matrix metalloproteinase 1a (interstitial collagenase)
D08	Mm.2402	NM_012027	Mrip	Myosin phosphatase Rho interacting protein

Position	UniGene	GenBank	Symbol	Description
D09	Mm.479	NM_008651	Mybl1	Myeloblastosis oncogene-like 1
D10	Mm.245998	NM_010914	Nfyb	Nuclear transcription factor-Y beta
D11	Mm.9001	NM_008702	Nlk	Nemo like kinase
D12	Mm.267570	NM_008742	Ntf3	Neurotrophin 3
E01	Mm.132584	NM_145457	Paip1	Polyadenylate binding protein-interacting protein 1
E02	Mm.308500	NM_138663	Pcdha12	Protocadherin alpha 12
E03	Mm.22778	NM_146156	Pdik1l	PDLIM1 interacting kinase 1 like
E04	Mm.212554	NM_011078	Phf2	PHD finger protein 2
E05	Mm.259333	NM_001024955	Pik3r1	Phosphatidylinositol 3-kinase, regulatory subunit, polypeptide 1 (p85 alpha)
E06	Mm.217362	NM_013880	Plcl2	Phospholipase C-like 2
E07	Mm.256712	NM_018797	Plxnc1	Plexin C1
E08	Mm.273997	NM_028032	Ppp2r2a	Protein phosphatase 2 (formerly 2A), regulatory subunit B (PR 52), alpha isoform
E09	Mm.259626	NM_012024	Ppp2r5e	Protein phosphatase 2, regulatory subunit B (B56), epsilon isoform
E10	Mm.245395	NM_008960	Pten	Phosphatase and tensin homolog
E11	Mm.271944	NM_008996	Rab1	RAB1, member RAS oncogene family
E12	Mm.21281	NM_011278	Rnf4	Ring finger protein 4
F01	Mm.25366	NM_134064	Rnf44	Ring finger protein 44
F02	Mm.254286	NM_001080977	Rsbn1l	Round spermatid basic protein 1-like
F03	Mm.26017	NM_027016	Sec62	SEC62 homolog (S. cerevisiae)
F04	Mm.4774	NM_011376	Sim1	Single-minded homolog 1 (Drosophila)
F05	Mm.42944	NM_011543	Skp1a	S-phase kinase-associated protein 1A
F06	Mm.293635	NM_026331	Slc25a37	Solute carrier family 25, member 37
F07	Mm.103568	NM_134086	Slc38a1	Solute carrier family 38, member 1
F08	Mm.255586	NM_030687	Slco1a4	Solute carrier organic anion transporter family, member 1a4
F09	Mm.246803	NM_053124	Smarca5	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 5
F10	Mm.396285	NM_080557	Snx4	Sorting nexin 4
F11	Mm.290876	NM_013671	Sod2	Superoxide dismutase 2, mitochondrial
F12	Mm.390756	NM_145465	Stk24	Serine/threonine kinase 24 (STE20 homolog, yeast)
G01	Mm.202715	NM_194342	Sun2	Sad1 and UNC84 domain containing 2
G02	Mm.34580	NM_019786	Tbk1	TANK-binding kinase 1
G03	Mm.171615	NM_011544	Tcf12	Transcription factor 12
G04	Mm.136511	NM_172664	Tlk1	Tousled-like kinase 1
G05	Mm.425352	NM_177412	Tmcc1	Transmembrane and coiled coil domains 1
G06	Mm.435828	NM_145711	Tox	Thymocyte selection-associated high mobility group box
G07	Mm.485388	NM_010286	Tsc22d3	TSC22 domain family, member 3
G08	Mm.458052	NM_025985	Ube2g1	Ubiquitin-conjugating enzyme E2G 1 (UBC7 homolog, C. elegans)
G09	Mm.371608	NM_019461	Usp27x	Ubiquitin specific peptidase 27, X chromosome
G10	Mm.46628	NM_016686	Vezf1	Vascular endothelial zinc finger 1
G11	Mm.285968	NM_181400	Wdr47	WD repeat domain 47
G12	Mm.28489	NM_021539	Wsb2	WD repeat and SOCS box-containing 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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