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

Rat miR-221 & miR-222 Targets

Cat. no. 330231 PARN-6007ZA

For pathway expression analysis

Format	For use with the following real-time cyclers
RT² 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
RT² Profiler PCR Array, Format C	Applied Biosystems models 7500 (Fast block), 7900HT (Fast block), StepOnePlus™, ViiA 7 (Fast block)
RT² Profiler PCR Array, Format D	Bio-Rad CFX96™; Bio-Rad/MJ Research models DNA Engine Opticon®, DNA Engine Opticon 2; Stratagene Mx4000®
RT² Profiler PCR Array, Format E	Applied Biosystems models 7900HT (384-well block), ViiA 7 (384-well block); Bio-Rad CFX384™
RT² Profiler PCR Array, Format F	Roche® LightCycler® 480 (96-well block)
RT² Profiler PCR Array, Format G	Roche LightCycler 480 (384-well block)
RT² Profiler PCR Array, Format H	Fluidigm® BioMark™

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Description

The Rat miR-221 & miR-222 Targets RT² Profiler PCR Array profiles the expression of 84 rno-miR-221-3p and rno-miR-222-3p target genes. This panel of 84 genes includes currently known experimentally verified plus bioinformatically predicted target genes regulated by rno-miR-221-3p and rno-miR-222-3p. 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-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	Ankrd10	Arf4	Arl6ip1	Bbc3	Bcl2l11	Bmf	Bmi1	Bmp2k
B	Bnip3	Cbfb	Cd47	Cdkn1b	Cdkn1c	Chsy1	Crebzf	Cyr61	Dcaf7	Dcun1d1	Ddit4	Dkk2
C	Dpp8	Eif3j	Esr1	Ets2	Fmr1	Fos	Foxo3	Gal3st4	Gnai2	Grb10	Hectd2	Icam1
D	Kif16b	Kit	Mapk6	Megf9	MGC112883	Midn	Mllt6	Mmp1a	Mprip	Mybl1	Nfyb	Nlk
E	Ntf3	Paip1	Pcdha12	Pdik1l	Phf2	Pik3r1	Plcl2	Plxnc1	Ppp2r2a	Ppp2r5e	Pten	Rab1
F	Rnf4	Rnf44	Rsbn1l	Sec62	Sim1	Skp1	Slc25a37	Slc38a1	Slco1a4	Smarca5	Snx4	Sod2
G	Stk24	Tbk1	Tcf12	Tlk1	Tmcc1	Tox	Tsc22d3	Ube2g1	Unc84b	Vezf1	Wdr47	Wsb2
H	Actb	B2m	Hprt1	Ldha	Rplp1	RGDC	RTC	RTC	RTC	PPC	PPC	PPC

Gene table: RT² Profiler PCR Array

Position	UniGene	GenBank	Symbol	Description
A01	Rn.3734	NM_001135596	Agfg1	ArfGAP with FG repeats 1
A02	Rn.162660	NM_133569	Angptl2	Angiopoietin-like 2
A03	Rn.11853	NM_001204053	Ankhd1	Ankyrin repeat and KH domain containing 1
A04	Rn.2999	NM_001134781	Ankib1	Ankyrin repeat and IBR domain containing 1
A05	Rn.30154	XM_341466	Ankrd10	Ankyrin repeat domain 10
A06	Rn.35935	NM_024151	Arf4	ADP-ribosylation factor 4
A07	Rn.3366	NM_198737	Arl6ip1	ADP-ribosylation factor-like 6 interacting protein 1
A08	Rn.25176	NM_173837	Bbc3	Bcl-2 binding component 3
A09	Rn.82709	NM_022612	Bcl2l11	BCL2-like 11 (apoptosis facilitator)
A10	Rn.213264	NM_139258	Bmf	Bcl2 modifying factor
A11	Rn.220522	NM_001107368	Bmi1	Bmi1 polycomb ring finger oncogene
A12	Rn.103861	XM_573559	Bmp2k	BMP-2 inducible kinase
B01	Rn.2060	NM_053420	Bnip3	BCL2/adenovirus E1B interacting protein 3
B02	Rn.7308	NM_001013191	Cbfb	Core-binding factor, beta subunit
B03	Rn.7409	NM_019195	Cd47	Cd47 molecule
B04	Rn.29897	NM_031762	Cdkn1b	Cyclin-dependent kinase inhibitor 1B
B05	Rn.162507	NM_182735	Cdkn1c	Cyclin-dependent kinase inhibitor 1C
B06	Rn.13788	NM_001106268	Chsy1	Chondroitin sulfate synthase 1
B07	Rn.35776	NM_001106279	Crebzf	CREB/ATF bZIP transcription factor
B08	Rn.22129	NM_031327	Cyr61	Cysteine-rich, angiogenic inducer, 61
B09	Rn.220265	NM_001107057	Dcaf7	DDB1 and CUL4 associated factor 7
B10	Rn.116073	NM_001107668	Dcun1d1	DCN1, defective in cullin neddylation 1, domain containing 1 (S. cerevisiae)
B11	Rn.9775	NM_080906	Ddit4	DNA-damage-inducible transcript 4
B12	Rn.44861	NM_001106472	Dkk2	Dickkopf homolog 2 (Xenopus laevis)
C01	Rn.17532	NM_001108159	Dpp8	Dipeptidylpeptidase 8
C02	Rn.162681	NM_001077670	Eif3j	Eukaryotic translation initiation factor 3, subunit J
C03	Rn.10595	NM_012689	Esr1	Estrogen receptor 1
C04	Rn.164554	NM_001107107	Ets2	V-ets erythroblastosis virus E26 oncogene homolog 2 (avian)
C05	Rn.40595	NM_052804	Fmr1	Fragile X mental retardation 1
C06	Rn.103750	NM_022197	Fos	FBJ osteosarcoma oncogene
C07	Rn.24593	NM_001106395	Foxo3	Forkhead box O3
C08	Rn.48145	XM_001067249	Gal3st4	Galactose-3-O-sulfotransferase 4
C09	Rn.3036	NM_031035	Gnai2	Guanine nucleotide binding protein (G protein), alpha inhibiting 2
C10	Rn.63942	NM_001109093	Grb10	Growth factor receptor bound protein 10
C11	Rn.219294	NM_001107608	Hectd2	HECT domain containing 2
C12	Rn.12	NM_012967	Icam1	Intercellular adhesion molecule 1
D01	Rn.7029	NM_001107783	Kif16b	Kinesin family member 16B
D02	Rn.54004	NM_022264	Kit	V-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog
D03	Rn.88457	NM_031622	Mapk6	Mitogen-activated protein kinase 6
D04	Rn.141485	NM_001107940	Megf9	Multiple EGF-like-domains 9
D05	Rn.203250	NM_001047743	MGC112883	LOC500651
D06	Rn.45925	NM_001191577	Midn	Midnolin
D07	Rn.25100	XM_239329	Mllt6	Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 6
D08	Rn.79007	NM_001134530	Mmp1a	Matrix metallopeptidase 1a (interstitial collagenase)

Position	UniGene	GenBank	Symbol	Description
D09	Rn.2641	NM_053814	Mprip	Myosin phosphatase Rho interacting protein
D10	Rn.218701	NM_001106632	Mybl1	Myeloblastosis oncogene-like 1
D11	Rn.90077	NM_031553	Nfyb	Nuclear transcription factor-Y beta
D12	Rn.113514	NM_001191924	Nlk	Nemo like kinase
E01	Rn.9715	NM_031073	Ntf3	Neurotrophin 3
E02	Rn.9450	NM_001108937	Paip1	Poly(A) binding protein interacting protein 1
E03	Rn.22308	NM_053940	Pcdha12	Protocadherin alpha 12
E04	Rn.41405	NM_001107984	Pdik1l	PDLIM1 interacting kinase 1 like
E05	Rn.166379	NM_001107342	Phf2	PHD finger protein 2
E06	Rn.10599	NM_013005	Pik3r1	Phosphoinositide-3-kinase, regulatory subunit 1 (alpha)
E07	Rn.204118	NM_001106880	Plcl2	Phospholipase C-like 2
E08	Rn.7829	NM_001108744	Plxnc1	Plexin C1
E09	Rn.81155	NM_053999	Ppp2r2a	Protein phosphatase 2 (formerly 2A), regulatory subunit B, alpha isoform
E10	Rn.24394	NM_001106740	Ppp2r5e	Protein phosphatase 2, regulatory subunit B', epsilon isoform
E11	Rn.22158	NM_031606	Pten	Phosphatase and tensin homolog
E12	Rn.106743	NM_031090	Rab1	RAB1, member RAS oncogene family
F01	Rn.205059	NM_019182	Rnf4	Ring finger protein 4
F02	Rn.21345	NM_001024795	Rnf44	Ring finger protein 44
F03	Rn.139850	NM_001135872	Rsbn1l	Round spermatid basic protein 1-like
F04	Rn.98327	NM_001034129	Sec62	SEC62 homolog (S. cerevisiae)
F05	Rn.165946	NM_001107641	Sim1	Single-minded homolog 1 (Drosophila)
F06	Rn.3477	NM_001007608	Skp1	S-phase kinase-associated protein 1
F07	Rn.102664	NM_001013996	Slc25a37	Solute carrier family 25, member 37
F08	Rn.162022	NM_138832	Slc38a1	Solute carrier family 38, member 1
F09	Rn.5641	NM_131906	Slco1a4	Solute carrier organic anion transporter family, member 1a4
F10	Rn.221918	NM_001107419	Smarca5	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 5
F11	Rn.2645	NM_001127550	Snx4	Sorting nexin 4
F12	Rn.10488	NM_017051	Sod2	Superoxide dismutase 2, mitochondrial
G01	Rn.105397	NM_001127494	Stk24	Serine/threonine kinase 24 (STE20 homolog, yeast)
G02	Rn.30683	NM_001106786	Tbk1	TANK-binding kinase 1
G03	Rn.9916	NM_013176	Tcf12	Transcription factor 12
G04	Rn.6114	NM_001107734	Tlk1	Tousled-like kinase 1
G05	Rn.198698	XM_232287	Tmcc1	Transmembrane and coiled-coil domain family 1
G06	Rn.161967	NM_001108654	Tox	Thymocyte selection-associated high mobility group box
G07	Rn.21970	NM_031345	Tsc22d3	TSC22 domain family, member 3
G08	Rn.163149	NM_022690	Ube2g1	Ubiquitin-conjugating enzyme E2G 1 (UBC7 homolog, yeast)
G09	Rn.2240	XM_235483	Unc84b	Unc-84 homolog B (C. elegans)
G10	Rn.198892	XM_213421	Vezf1	Vascular endothelial zinc finger 1
G11	Rn.18637	NM_001100702	Wdr47	WD repeat domain 47
G12	Rn.4063	NM_001007616	Wsb2	WD repeat and SOCS box-containing 2
H01	Rn.94978	NM_031144	Actb	Actin, beta
H02	Rn.1868	NM_012512	B2m	Beta-2 microglobulin
H03	Rn.47	NM_012583	Hprt1	Hypoxanthine phosphoribosyltransferase 1
H04	Rn.107896	NM_017025	Ldha	Lactate dehydrogenase A
H05	Rn.973	NM_001007604	Rplp1	Ribosomal protein, large, P1
H06	N/A	U26919	RGDC	Rat 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 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
RT² 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
RT² 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.

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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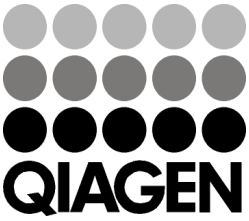

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