

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

Rat miR-210 Targets

Cat. no. 330231 PARN-6009ZA

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 Rat miR-210 Targets RT² Profiler PCR Array profiles the expression of 84 rno-miR-210-3p target genes. This panel of 84 genes includes currently known experimentally verified plus bioinformatically predicted target genes regulated by rno-miR-210-3p. 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-210 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	Acvr1b	Adamts5	Adcy1	Adcy9	Aifm3	Aldh5a1	Ankrd34a	Apobec3f	Armc1	Atg7	B4gal5	Bdnf
B	Casp8ap2	Ccbp2	Ccdc97	Chn1	Chrnbl	Coro2b	Cpeb2	Ddah1	Dimt1l	Dnajc15	Drd5	Dsc3
C	Dyl1	E2f3	Efna1	Efna3	Enpp5	Fam116a	Fam73b	Fgfr1l	Foxa1	Gpd1l	Gsr	Hhip
D	Hif3a	Hoxa1	Hoxa9	Htr7	Iscu	Kcmf1	Kctd11	Klf12	Lair1	Lamp1	LOC691853	Mef2a
E	Mid1ip1	Mnt	Ncam1	Ndufa4	Necab1	Neurod2	Nfkbl	Nptx1	Nr1d2	Pptc7	Ptpn1	Rab3b
F	Rad52	Rcan2	Rgma	Rtn1	Scrt1	Sema3g	Sept8	Slc25a26	Smg5	Spred2	Syngap1	Tcf7l2
G	Thsd7a	Tmem151b	Tppp	Txndc9	Txnip	Xpnp3	Zadhl2	Zfand3	Zfp148	Zhye28	Zmat3	Zmiz1
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.214018	NM_199230	Acvr1b	Activin A receptor, type IB
A02	Rn.107051	NM_198761	Adamts5	ADAM metalloproteinase with thrombospondin type 1 motif, 5
A03	Rn.214145	NM_001107239	Adcy1	Adenylate cyclase 1 (brain)
A04	Rn.216683	NM_001106980	Adcy9	Adenylate cyclase 9
A05	Rn.138718	NM_001013977	Aifm3	Apoptosis-inducing factor, mitochondrion-associated 3
A06	Rn.10070	XM_214478	Aldh5a1	Aldehyde dehydrogenase 5 family, member A1
A07	Rn.42835	NM_001024980	Ankrd34a	Ankyrin repeat domain 34A
A08	Rn.29180	NM_001033703	Apobec3f	Apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F
A09	Rn.17507	NM_001106425	Armc1	Armado repeat containing 1
A10	Rn.162765	NM_001012097	Atg7	ATG7 autophagy related 7 homolog (S. cerevisiae)
A11	Rn.107246	NM_001108608	B4gal5	UDP-Gal:beta-GlcNAc beta 1,4-galactosyltransferase, polypeptide 5
A12	Rn.11266	NM_012513	Bdnf	Brain-derived neurotrophic factor
B01	Rn.198715	NM_001107921	Casp8ap2	Caspase 8 associated protein 2
B02	Rn.10771	NM_078621	Ccbp2	Chemokine binding protein 2
B03	Rn.44186	NM_001106235	Ccdc97	Coiled-coil domain containing 97
B04	Rn.11166	NM_032083	Chn1	Chimerin (chimaerin) 1
B05	Rn.44611	NM_012528	Chrnbl	Cholinergic receptor, nicotinic, beta 1 (muscle)
B06	Rn.8477	XM_217183	Coro2b	Coronin, actin binding protein, 2B
B07	Rn.162283	NM_001108361	Cpeb2	Cytoplasmic polyadenylation element binding protein 2
B08	Rn.7398	NM_022297	Ddah1	Dimethylarginine dimethylaminohydrolase 1
B09	Rn.25178	NM_001106408	Dimt1l	DIM1 dimethyladenosine transferase 1-like (S. cerevisiae)
B10	Rn.8092	NM_001106050	Dnajc15	DnaJ (Hsp40) homolog, subfamily C, member 15
B11	Rn.138110	NM_012768	Drd5	Dopamine receptor D5
B12	Rn.99931	NM_001107402	Dsc3	Desmocollin 3
C01	Rn.20041	NM_153303	Dyl1	Dystonia 1
C02	Rn.73967	NM_001137626	E2f3	E2F transcription factor 3
C03	Rn.8427	NM_053599	Efna1	Ephrin A1
C04	Rn.214210	XM_574979	Efna3	Ephrin A3
C05	Rn.198838	NM_001012744	Enpp5	Ectonucleotide pyrophosphatase/phosphodiesterase 5
C06	Rn.4177	NM_001134467	Fam116a	Family with sequence similarity 116, member A
C07	Rn.17259	NM_001106566	Fam73b	Family with sequence similarity 73, member B
C08	Rn.44953	NM_199114	Fgfr1l	Fibroblast growth factor receptor-like 1
C09	Rn.10470	NM_012742	Foxa1	Forkhead box A1
C10	Rn.163036	XM_343498	Gpd1l	Glycerol-3-phosphate dehydrogenase 1-like
C11	Rn.19721	NM_053906	Gsr	Glutathione reductase
C12	Rn.204425	XM_238042	Hhip	Hedgehog-interacting protein
D01	Rn.161814	NM_022528	Hif3a	Hypoxia inducible factor 3, alpha subunit
D02	Rn.9780	NM_013075	Hoxa1	Homeo box A1
D03	Rn.85723	NM_001109233	Hoxa9	Homeobox A9
D04	Rn.87132	NM_022938	Htr7	5-hydroxytryptamine (serotonin) receptor 7
D05	Rn.121	NM_001105936	Iscu	Iron-sulfur cluster scaffold homolog (E. coli)
D06	Rn.100904	XM_001069861	Kcmf1	Potassium channel modulatory factor 1
D07	Rn.27301	NM_001108831	Kctd11	Potassium channel tetramerisation domain containing 11
D08	Rn.61602	NM_001107281	Klf12	Kruppel-like factor 12
D09	Rn.149608	XM_001070337	Lair1	Leukocyte-associated immunoglobulin-like receptor 1

Position	UniGene	GenBank	Symbol	Description
D10	Rn.40177	NM_012857	Lamp1	Lysosomal-associated membrane protein 1
D11	Rn.76594	XM_001079869	LOC691853	Similar to COX10 homolog, cytochrome c oxidase assembly protein, heme A: farnesyltransferase
D12	Rn.162435	NM_001014035	Mef2a	Myocyte enhancer factor 2a
E01	Rn.8267	NM_206950	Mid1ip1	MID1 interacting protein 1 (gastrulation specific G12 homolog (zebrafish))
E02	Rn.30696	NM_001105807	Mnt	Max binding protein
E03	Rn.11283	NM_031521	Ncam1	Neural cell adhesion molecule 1
E04	Rn.793	NM_001127684	Ndufa4	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4
E05	Rn.64485	NM_022302	Necab1	N-terminal EF-hand calcium binding protein 1
E06	Rn.10724	NM_019326	Neurod2	Neurogenic differentiation 2
E07	Rn.2411	XM_342346	Nfkb1	Nuclear factor of kappa light polypeptide gene enhancer in B-cells 1
E08	Rn.54707	NM_153735	Nptx1	Neuronal pentraxin 1
E09	Rn.10055	NM_147210	Nr1d2	Nuclear receptor subfamily 1, group D, member 2
E10	Rn.7549	NM_001107141	Pptc7	PTC7 protein phosphatase homolog (S. cerevisiae)
E11	Rn.11317	NM_012637	Ptpn1	Protein tyrosine phosphatase, non-receptor type 1
E12	Rn.3788	NM_031091	Rab3b	RAB3B, member RAS oncogene family
F01	Rn.8154	NM_001106617	Rad52	RAD52 homolog (S. cerevisiae)
F02	Rn.24428	NM_175578	Rcan2	Regulator of calcineurin 2
F03	Rn.22326	NM_001107524	Rgma	RGM domain family, member A
F04	Rn.55126	NM_053865	Rtn1	Reticulon 1
F05	Rn.220523	NM_001130570	Scr1	Scratch homolog 1, zinc finger protein (Drosophila)
F06	Rn.32183	NM_001100882	Sema3g	Sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3G
F07	Rn.23507	NM_001107002	Sept8	Septin 8
F08	Rn.96303	NM_001108638	Slc25a26	Solute carrier family 25, member 26
F09	Rn.203043	XM_001059906	Smg5	Smg-5 homolog, nonsense mediated mRNA decay factor (C. elegans)
F10	Rn.7582	NM_001047094	Spred2	Sprouty-related, EVH1 domain containing 2
F11	Rn.9908	NM_181092	Syngap1	Synaptic Ras GTPase activating protein 1 homolog (rat)
F12	Rn.105849	XM_001054844	Tcf7l2	Transcription factor 7-like 2 (T-cell specific, HMG-box)
G01	Rn.208326	XM_001055908	Thsd7a	Thrombospondin, type I, domain containing 7A
G02	Rn.214112	NM_001191804	Tmem151b	Transmembrane protein 151B
G03	Rn.138388	NM_001108461	Tppp	Tubulin polymerization promoting protein
G04	Rn.4272	NM_172032	Txndc9	Thioredoxin domain containing 9
G05	Rn.2758	NM_001008767	Txnip	Thioredoxin interacting protein
G06	Rn.19478	NM_001130582	Xpnpep3	X-prolyl aminopeptidase (aminopeptidase P) 3, putative
G07	Rn.12321	NM_001106129	Zadh2	Zinc binding alcohol dehydrogenase, domain containing 2
G08	Rn.136939	NM_001012175	Zfand3	Zinc finger, AN1-type domain 3
G09	Rn.64671	NM_031615	Zfp148	Zinc finger protein 148
G10	Rn.91545	NM_001107227	Zfyve28	Zinc finger, FYVE domain containing 28
G11	Rn.2925	NM_022548	Zmat3	Zinc finger, matrin type 3
G12	Rn.1712	NM_001108393	Zmiz1	Zinc finger, MIZ-type containing 1
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.
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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