

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

Human miR-210 Targets

Cat. no. 330231 PAHS-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 Human miR-210 Targets RT² Profiler PCR Array profiles the expression of 84 hsa-miR-210 target genes. This panel of 84 genes includes currently known experimentally verified plus bioinformatically predicted target genes regulated by hsa-miR-210. 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	ARMC1	ATG7	B4GALT5	BDNF	C12orf34
B	C15orf52	C1orf212	C6orf136	CASP8AP2	CCBP2	CCDC97	CHN1	CHRN1	CORO2B	COX10	CPEB2	DDAH1
C	DIMT1L	DNAJC15	DRD5	DSC3	DTX1	E2F3	EFNA1	EFNA3	ELFN2	ENPP5	FAM116A	FAM73B
D	FGFRL1	FOXA1	GPDL1	GSR	HIF3A	HOXA1	HOXA9	ISCU	KCMF1	KCTD11	KIAA0664	KLF12
E	LAIR1	LAMP1	MEF2A	MID1IP1	MLL2	MNT	NCAM1	NDUFA4	NEUROD2	NPTX1	NR1D2	PPTC7
F	PTPN1	RAD52	RCAN2	RGMA	RTN1	SCRT1	SEMA3G	SEPT8	SLC25A26	SMG5	SPRED2	SYNGAP1
G	TCF7L2	THSD7A	TMEM151B	TOR1A	TNND9	XIST	ZADH2	ZFAND3	ZFYVE28	ZMAT3	ZNF148	ZNF462
H	ACTB	B2M	GAPDH	HPRT1	RPLP0	HGDC	RTC	RTC	RTC	PPC	PPC	PPC

Gene table: RT² Profiler PCR Array

Position	UniGene	GenBank	Symbol	Description
A01	Hs.438918	NM_004302	ACVR1B	Activin A receptor, type IB
A02	Hs.58324	NM_007038	ADAMTS5	ADAM metalloproteinase with thrombospondin type 1 motif, 5
A03	Hs.192215	NM_021116	ADCY1	Adenylate cyclase 1 (brain)
A04	Hs.391860	NM_001116	ADCY9	Adenylate cyclase 9
A05	Hs.163543	NM_144704	AIFM3	Apoptosis-inducing factor, mitochondrion-associated, 3
A06	Hs.371723	NM_001080	ALDH5A1	Aldehyde dehydrogenase 5 family, member A1
A07	Hs.620591	NM_001039888	ANKRD34A	Ankyrin repeat domain 34A
A08	Hs.269542	NM_018120	ARMC1	Armadillo repeat containing 1
A09	Hs.716466	NM_006395	ATG7	ATG7 autophagy related 7 homolog (S. cerevisiae)
A10	Hs.370487	NM_004776	B4GALT5	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 5
A11	Hs.502182	NM_001709	BDNF	Brain-derived neurotrophic factor
A12	Hs.661785	NM_032829	C12orf34	Chromosome 12 open reading frame 34
B01	Hs.32433	NM_207380	C15orf52	Chromosome 15 open reading frame 52
B02	Hs.27160	NM_138428	C1orf212	Chromosome 1 open reading frame 212
B03	Hs.591787	NM_145029	C6orf136	Chromosome 6 open reading frame 136
B04	Hs.558218	NM_012115	CASP8AP2	Caspase 8 associated protein 2
B05	Hs.146346	NM_001296	CCBP2	Chemokine binding protein 2
B06	Hs.437497	NM_052848	CCDC97	Coiled-coil domain containing 97
B07	Hs.654534	NM_001822	CHN1	Chimerin (chimaerin) 1
B08	Hs.330386	NM_000747	CHRN1	Cholinergic receptor, nicotinic, beta 1 (muscle)
B09	Hs.551213	NM_006091	CORO2B	Coronin, actin binding protein, 2B
B10	Hs.462278	NM_001303	COX10	COX10 homolog, cytochrome c oxidase assembly protein, heme A: farnesyltransferase (yeast)
B11	Hs.656937	NM_182646	CPEB2	Cytoplasmic polyadenylation element binding protein 2
B12	Hs.379858	NM_012137	DDAH1	Dimethylarginine dimethylaminohydrolase 1
C01	Hs.533222	NM_014473	DIMT1L	DIM1 dimethyladenosine transferase 1-like (S. cerevisiae)
C02	Hs.438830	NM_013238	DNAJC15	DnaJ (Hsp40) homolog, subfamily C, member 15
C03	Hs.380681	NM_000798	DRD5	Dopamine receptor D5
C04	Hs.41690	NM_001941	DSC3	Desmocollin 3
C05	Hs.372152	NM_004416	DTX1	Deltex homolog 1 (Drosophila)
C06	Hs.269408	NM_001949	E2F3	E2F transcription factor 3
C07	Hs.516664	NM_182685	EFNA1	Ephrin-A1
C08	Hs.516656	NM_004952	EFNA3	Ephrin-A3
C09	Hs.660812	NM_052906	ELFN2	Extracellular leucine-rich repeat and fibronectin type III domain containing 2
C10	Hs.35198	NM_021572	ENPP5	Ectonucleotide pyrophosphatase/phosphodiesterase 5 (putative)
C11	Hs.91085	NM_152678	FAM116A	Family with sequence similarity 116, member A
C12	Hs.632693	NM_032809	FAM73B	Family with sequence similarity 73, member B
D01	Hs.193326	NM_021923	FGFRL1	Fibroblast growth factor receptor-like 1
D02	Hs.163484	NM_004496	FOXA1	Forkhead box A1
D03	Hs.82432	NM_015141	GPDL1	Glycerol-3-phosphate dehydrogenase 1-like
D04	Hs.271510	NM_000637	GSR	Glutathione reductase
D05	Hs.420830	NM_152794	HIF3A	Hypoxia inducible factor 3, alpha subunit
D06	Hs.67397	NM_005522	HOXA1	Homeobox A1
D07	Hs.659350	NM_152739	HOXA9	Homeobox A9
D08	Hs.615131	NM_014301	ISCU	Iron-sulfur cluster scaffold homolog (E. coli)

Position	UniGene	GenBank	Symbol	Description
D09	Hs.654968	NM_020122	KCMF1	Potassium channel modulatory factor 1
D10	Hs.592112	NM_001002914	KCTD11	Potassium channel tetramerisation domain containing 11
D11	Hs.22616	NM_015229	KIAA0664	KIAA0664
D12	Hs.729350	NM_007249	KLF12	Kruppel-like factor 12
E01	Hs.572535	NM_002287	LAIR1	Leukocyte-associated immunoglobulin-like receptor 1
E02	Hs.494419	NM_005561	LAMP1	Lysosomal-associated membrane protein 1
E03	Hs.268675	NM_005587	MEF2A	Myocyte enhancer factor 2A
E04	Hs.522605	NM_021242	MID1IP1	MID1 interacting protein 1 (gastrulation specific G12 homolog (zebrafish))
E05	Hs.120228	NM_003482	MLL2	Myeloid/lymphoid or mixed-lineage leukemia 2
E06	Hs.626579	NM_020310	MNT	MAX binding protein
E07	Hs.503878	NM_000615	NCAM1	Neural cell adhesion molecule 1
E08	Hs.50098	NM_002489	NDUFA4	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4, 9kDa
E09	Hs.322431	NM_006160	NEUROD2	Neurogenic differentiation 2
E10	Hs.514556	NM_002522	NPTX1	Neuronal pentraxin I
E11	Hs.37288	NM_005126	NR1D2	Nuclear receptor subfamily 1, group D, member 2
E12	Hs.13854	NM_139283	PPTC7	PTC7 protein phosphatase homolog (S. cerevisiae)
F01	Hs.417549	NM_002827	PTPN1	Protein tyrosine phosphatase, non-receptor type 1
F02	Hs.709202	NM_134424	RAD52	RAD52 homolog (S. cerevisiae)
F03	Hs.440168	NM_005822	RCAN2	Regulator of calcineurin 2
F04	Hs.271277	NM_020211	RGMA	RGM domain family, member A
F05	Hs.368626	NM_021136	RTN1	Reticulon 1
F06	Hs.31746	NM_031309	SCRT1	Scratch homolog 1, zinc finger protein (Drosophila)
F07	Hs.59729	NM_020163	SEMA3G	Sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3G
F08	Hs.533017	NM_001098811	SEPT8	Septin 8
F09	Hs.379386	NM_173471	SLC25A26	Solute carrier family 25, member 26
F10	Hs.516837	NM_015327	SMG5	Smg-5 homolog, nonsense mediated mRNA decay factor (C. elegans)
F11	Hs.59332	NM_181784	SPRED2	Sprouty-related, EVH1 domain containing 2
F12	Hs.586264	NM_006772	SYNGAP1	Synaptic Ras GTPase activating protein 1
G01	Hs.593995	NM_030756	TCF7L2	Transcription factor 7-like 2 (T-cell specific, HMG-box)
G02	Hs.120855	NM_015204	THSD7A	Thrombospondin, type I, domain containing 7A
G03	Hs.632851	XM_001723534	TMEM151B	Transmembrane protein 151B
G04	Hs.534312	NM_000113	TOR1A	Torsin family 1, member A (torsin A)
G05	Hs.536122	NM_005783	TXNDC9	Thioredoxin domain containing 9
G06	Hs.529901	NR_001564	XIST	X (inactive)-specific transcript (non-protein coding)
G07	Hs.591065	NM_175907	ZADH2	Zinc binding alcohol dehydrogenase domain containing 2
G08	Hs.36959	NM_021943	ZFAND3	Zinc finger, AN1-type domain 3
G09	Hs.292056	NM_020972	ZFYVE28	Zinc finger, FYVE domain containing 28
G10	Hs.386299	NM_022470	ZMAT3	Zinc finger, matrin-type 3
G11	Hs.592591	NM_021964	ZNF148	Zinc finger protein 148
G12	Hs.370379	NM_021224	ZNF462	Zinc finger protein 462
H01	Hs.520640	NM_001101	ACTB	Actin, beta
H02	Hs.534255	NM_004048	B2M	Beta-2-microglobulin
H03	Hs.592355	NM_002046	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase
H04	Hs.412707	NM_000194	HPRT1	Hypoxanthine phosphoribosyltransferase 1
H05	Hs.546285	NM_001002	RPLP0	Ribosomal protein, large, P0
H06	N/A	SA_00105	HGDC	Human 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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