

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

Human miR-4514 & miR-4692 Targets

Cat. no. 330231 PAHS-6010ZA

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-4514 & miR-4692 Targets RT² Profiler PCR Array profiles the expression of 84 hsa-miR-4514 and hsa-miR-4692 target genes. This panel includes bioinformatically predicted target genes regulated by hsa-miR-4514 and hsa-miR-4692 with the highest context scores and expressed in the widest variety of cell and tissue types. The target genes would also be predicted to be regulated by any other yet to be discovered miRNAs that would have the same seed sequence as hsa-miR-4514 and hsa-miR-4692. 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 hsa-miR-4514 and hsa-miR-4692 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	ACRV1	ACTR1B	APH1A	AQP1	ARHGDI1A	ASXL1	ATG4A	ATP1A1	ATP1B3	CALM3	CD81	CDK16
B	CFL1	CLTC	CREB1	CSDE1	CSNK1A1	CSR1P	DCAF8	DIP2B	EEF1G	EGR1	ERGIC1	EXOC7
C	FAM134A	FAM45A	GLG1	GLYR1	GTDC1	HIGD1A	HMGN2	HSBP1	IRS2	KANK1	KCMF1	LDLR
D	LMNA	LRRFIP1	MAP4	MAPK11P1L	MARCH6	MARCKSL1	MBNL1	MCAM	MOSPD1	N4BP1	NONO	OTUB1
E	PIK3R1	PPP1R11	PTP4A2	PXMP4	QKI	RAB11A	RAB1A	RAB6A	S100A16	SCAMP5	SDHC	SIPA1L2
F	SKP1	SPARC	SPCS2	SRPRB	SSR2	STAMPB	STARD3NL	STK19	TCEB2	TCF12	TIMP3	TLK1
G	TM2D3	TOMM20	TPBG	TXNDC5	TXNRD1	UBE2D3	UBE2L3	VAPA	VCL	VPS24	WASF3	ZNF207
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.169222	NM_001612	ACRV1	Acrosomal vesicle protein 1
A02	Hs.98791	NM_005735	ACTR1B	ARP1 actin-related protein 1 homolog B, contractin beta (yeast)
A03	Hs.108408	NM_016022	APH1A	Anterior pharynx defective 1 homolog A (C. elegans)
A04	Hs.76152	NM_198098	AQP1	Aquaporin 1 (Colton blood group)
A05	Hs.159161	NM_004309	ARHGDI1A	Rho GDP dissociation inhibitor (GDI) alpha
A06	Hs.374043	NM_015338	ASXL1	Additional sex combs like 1 (Drosophila)
A07	Hs.8763	NM_052936	ATG4A	ATG4 autophagy related 4 homolog A (S. cerevisiae)
A08	Hs.371889	NM_000701	ATP1A1	ATPase, Na ⁺ /K ⁺ transporting, alpha 1 polypeptide
A09	Hs.477789	NM_001679	ATP1B3	ATPase, Na ⁺ /K ⁺ transporting, beta 3 polypeptide
A10	Hs.515487	NM_005184	CALM3	Calmodulin 3 (phosphorylase kinase, delta)
A11	Hs.54457	NM_004356	CD81	CD81 molecule
A12	Hs.496068	NM_033018	CDK16	Cyclin-dependent kinase 16
B01	Hs.170622	NM_005507	CFL1	Cofilin 1 (non-muscle)
B02	Hs.491351	NM_004859	CLTC	Clathrin, heavy chain (Hc)
B03	Hs.516646	NM_004379	CREB1	CAMP responsive element binding protein 1
B04	Hs.69855	NM_007158	CSDE1	Cold shock domain containing E1, RNA-binding
B05	Hs.529862	NM_001892	CSNK1A1	Casein kinase 1, alpha 1
B06	Hs.108080	NM_004078	CSR1P	Cysteine and glycine-rich protein 1
B07	Hs.632447	NM_015726	DCAF8	DDB1 and CUL4 associated factor 8
B08	Hs.505516	NM_173602	DIP2B	DIP2 disco-interacting protein 2 homolog B (Drosophila)
B09	Hs.144835	NM_001404	EEF1G	Eukaryotic translation elongation factor 1 gamma
B10	Hs.326035	NM_001964	EGR1	Early growth response 1
B11	Hs.509163	NM_001031711	ERGIC1	Endoplasmic reticulum-golgi intermediate compartment (ERGIC) 1
B12	Hs.533985	NM_015219	EXOC7	Exocyst complex component 7
C01	Hs.516707	NM_024293	FAM134A	Family with sequence similarity 134, member A
C02	Hs.434241	NM_207009	FAM45A	Family with sequence similarity 45, member A
C03	Hs.109731	NM_012201	GLG1	Golgi glycoprotein 1
C04	Hs.387255	NM_032569	GLYR1	Glyoxylate reductase 1 homolog (Arabidopsis)
C05	Hs.44780	NM_001006636	GTDC1	Glycosyltransferase-like domain containing 1
C06	Hs.728813	NM_014056	HIGD1A	HIG1 hypoxia inducible domain family, member 1A
C07	Hs.181163	NM_005517	HMGN2	High mobility group nucleosomal binding domain 2
C08	Hs.250899	NM_001537	HSBP1	Heat shock factor binding protein 1
C09	Hs.442344	NM_003749	IRS2	Insulin receptor substrate 2
C10	Hs.306764	NM_153186	KANK1	KN motif and ankyrin repeat domains 1
C11	Hs.654968	NM_020122	KCMF1	Potassium channel modulatory factor 1
C12	Hs.213289	NM_000527	LDLR	Low density lipoprotein receptor
D01	Hs.594444	NM_005572	LMNA	Lamin A/C
D02	Hs.471779	NM_004735	LRRFIP1	Leucine rich repeat (in FliII) interacting protein 1
D03	Hs.517949	NM_002375	MAP4	Microtubule-associated protein 4
D04	Hs.594338	NM_144578	MAPK11P1L	Mitogen-activated protein kinase 1 interacting protein 1-like
D05	Hs.432862	NM_005885	MARCH6	Membrane-associated ring finger (C3HC4) 6
D06	Hs.75061	NM_023009	MARCKSL1	MARCKS-like 1
D07	Hs.478000	NM_021038	MBNL1	Muscleblind-like (Drosophila)
D08	Hs.599039	NM_006500	MCAM	Melanoma cell adhesion molecule
D09	Hs.590789	NM_019556	MOSPD1	Motile sperm domain containing 1

Position	UniGene	GenBank	Symbol	Description
D10	Hs.511839	NM_153029	N4BP1	Nedd4 binding protein 1
D11	Hs.533282	NM_007363	NONO	Non-POU domain containing, octamer-binding
D12	Hs.473788	NM_017670	OTUB1	OTU domain, ubiquitin aldehyde binding 1
E01	Hs.132225	NM_181504	PIK3R1	Phosphoinositide-3-kinase, regulatory subunit 1 (alpha)
E02	Hs.82887	NM_021959	PPP1R11	Protein phosphatase 1, regulatory (inhibitor) subunit 11
E03	Hs.470477	NM_080391	PTP4A2	Protein tyrosine phosphatase type IVA, member 2
E04	Hs.654857	NM_183397	PXMP4	Peroxisomal membrane protein 4, 24kDa
E05	Hs.510324	NM_206855	QKI	Quaking homolog, KH domain RNA binding (mouse)
E06	Hs.321541	NM_004663	RAB11A	RAB11A, member RAS oncogene family
E07	Hs.310645	NM_004161	RAB1A	RAB1A, member RAS oncogene family
E08	Hs.503222	NM_002869	RAB6A	RAB6A, member RAS oncogene family
E09	Hs.515714	NM_080388	S100A16	S100 calcium binding protein A16
E10	Hs.374180	NM_138967	SCAMP5	Secretory carrier membrane protein 5
E11	Hs.444472	NM_003001	SDHC	Succinate dehydrogenase complex, subunit C, integral membrane protein, 15kDa
E12	Hs.715656	NM_020808	SIPA1L2	Signal-induced proliferation-associated 1 like 2
F01	Hs.171626	NM_006930	SKP1	S-phase kinase-associated protein 1
F02	Hs.111779	NM_003118	SPARC	Secreted protein, acidic, cysteine-rich (osteonectin)
F03	Hs.728943	NM_014752	SPCS2	Signal peptidase complex subunit 2 homolog (S. cerevisiae)
F04	Hs.584950	NM_021203	SRPRB	Signal recognition particle receptor, B subunit
F05	Hs.74564	NM_003145	SSR2	Signal sequence receptor, beta (translocon-associated protein beta)
F06	Hs.657598	NM_006463	STAMPB	STAM binding protein
F07	Hs.728820	NM_032016	STARD3NL	STARD3 N-terminal like
F08	Hs.654371	NM_004197	STK19	Serine/threonine kinase 19
F09	Hs.172772	NM_007108	TCEB2	Transcription elongation factor B (SIII), polypeptide 2 (18kDa, elongin B)
F10	Hs.511504	NM_003205	TCF12	Transcription factor 12
F11	Hs.644633	NM_000362	TIMP3	TIMP metalloproteinase inhibitor 3
F12	Hs.596942	NM_012290	TLK1	Tousled-like kinase 1
G01	Hs.288912	NM_025141	TM2D3	TM2 domain containing 3
G02	Hs.533192	NM_014765	TOMM20	Translocase of outer mitochondrial membrane 20 homolog (yeast)
G03	Hs.82128	NM_006670	TPBG	Trophoblast glycoprotein
G04	Hs.150837	NM_001145549	TXNDC5	Thioredoxin domain containing 5 (endoplasmic reticulum)
G05	Hs.728817	NM_003330	TXNRD1	Thioredoxin reductase 1
G06	Hs.518773	NM_181893	UBE2D3	Ubiquitin-conjugating enzyme E2D 3
G07	Hs.108104	NM_003347	UBE2L3	Ubiquitin-conjugating enzyme E2L 3
G08	Hs.699980	NM_194434	VAPA	VAMP (vesicle-associated membrane protein)-associated protein A, 33kDa
G09	Hs.643896	NM_003373	VCL	Vinculin
G10	Hs.591582	NM_016079	VPS24	Vacuolar protein sorting 24 homolog (S. cerevisiae)
G11	Hs.635221	NM_006646	WASF3	WAS protein family, member 3
G12	Hs.500775	NM_003457	ZNF207	Zinc finger protein 207
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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