

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

Human miR-146a Targets

Cat. no. 330231 PAHS-6004ZA

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-146a Targets RT² Profiler PCR Array profiles the expression of 84 hsa-miR-146a-5p target genes. This panel of 84 genes includes currently known experimentally verified plus bioinformatically predicted target genes regulated by hsa-miR-146a-5p. This array also includes target genes regulated by other miRNAs that have the same seed sequence as hsa-miR-146a-5p, including hsa-miR-146b-5p. 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-146a 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	ADAMTS3	ADARB1	ARL5B	ARL8A	ATG12	BCL11A	BCORL1	BRCA1	BRCA2	BTG2	C8orf84	CASK
B	CD40LG	CD80	CDC42BPA	CELF3	CFH	CLCN4	CNTFR	CSF1R	CUX1	DLST	DNPEP	DOT1L
C	EIF4G2	ELAVL1	ERBB4	ESYT2	FADD	FAS	FBXO28	FBXW2	FLOT2	FRYL	GAS7	GOSR1
D	HNRNP	IGF2BP1	IRAK1	IRAK2	ITGAV	KDM2B	KIAA0141	KIAA0284	KLF7	KPN46	LIN7A	LRRC15
E	MED1	MMP16	MYT1	NOTCH2	NOVA1	NUMB	PHOX2B	PM20D2	PPP2R3A	PSMD3	RABGAP1	ROBO1
F	RUNX1T1	SEMA3G	SH3GL2	SLC10A3	SLC2A3	SLC38A1	SMAD4	SORT1	STAT1	STC1	STRBP	STX3
G	TAF9B	TANC2	TDRKH	TLN2	TRAF6	USP3	USP47	VAT1	VBP1	ZFYVE1	ZNF512B	ZNRF3
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.590919	NM_014243	ADAMTS3	ADAM metalloproteinase with thrombospondin type 1 motif, 3
A02	Hs.474018	NM_001112	ADARB1	Adenosine deaminase, RNA-specific, B1
A03	Hs.25362	NM_178815	ARL5B	ADP-ribosylation factor-like 5B
A04	Hs.497399	NM_138795	ARL8A	ADP-ribosylation factor-like 8A
A05	Hs.264482	NM_004707	ATG12	ATG12 autophagy related 12 homolog (S. cerevisiae)
A06	Hs.370549	NM_018014	BCL11A	B-cell CLL/lymphoma 11A (zinc finger protein)
A07	Hs.496748	NM_021946	BCORL1	BCL6 corepressor-like 1
A08	Hs.194143	NM_007294	BRCA1	Breast cancer 1, early onset
A09	Hs.34012	NM_000059	BRCA2	Breast cancer 2, early onset
A10	Hs.519162	NM_006763	BTG2	BTG family, member 2
A11	Hs.439040	NM_153225	C8orf84	Chromosome 8 open reading frame 84
A12	Hs.495984	NM_003688	CASK	Calcium/calmodulin-dependent serine protein kinase (MAGUK family)
B01	Hs.592244	NM_000074	CD40LG	CD40 ligand
B02	Hs.838	NM_005191	CD80	CD80 molecule
B03	Hs.35433	NM_003607	CDC42BPA	CDC42 binding protein kinase alpha (DMPK-like)
B04	Hs.26047	NM_007185	CELF3	CUGBP, Elav-like family member 3
B05	Hs.363396	NM_000186	CFH	Complement factor H
B06	Hs.495674	NM_001830	CLCN4	Chloride channel 4
B07	Hs.129966	NM_001842	CNTFR	Ciliary neurotrophic factor receptor
B08	Hs.654394	NM_005211	CSF1R	Colony stimulating factor 1 receptor
B09	Hs.654389	NM_181552	CUX1	Cut-like homeobox 1
B10	Hs.525459	NM_001933	DLST	Dihydrolipoamide S-succinyltransferase (E2 component of 2-oxo-glutarate complex)
B11	Hs.258551	NM_012100	DNPEP	Aspartyl aminopeptidase
B12	Hs.713641	NM_032482	DOT1L	DOT1-like, histone H3 methyltransferase (S. cerevisiae)
C01	Hs.183684	NM_001418	EIF4G2	Eukaryotic translation initiation factor 4 gamma, 2
C02	Hs.184492	NM_001419	ELAVL1	ELAV (embryonic lethal, abnormal vision, Drosophila)-like 1 (Hu antigen R)
C03	Hs.390729	NM_005235	ERBB4	V-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian)
C04	Hs.490795	NM_020728	ESYT2	Extended synaptotagmin-like protein 2
C05	Hs.86131	NM_003824	FADD	Fas (TNFRSF6)-associated via death domain
C06	Hs.244139	NM_000043	FAS	Fas (TNF receptor superfamily, member 6)
C07	Hs.64691	NM_015176	FBXO28	F-box protein 28
C08	Hs.494985	NM_012164	FBXW2	F-box and WD repeat domain containing 2
C09	Hs.514038	NM_004475	FLOT2	Flotillin 2
C10	Hs.631525	NM_015030	FRYL	FRY-like
C11	Hs.462214	NM_003644	GAS7	Growth arrest-specific 7
C12	Hs.462680	NM_004871	GOSR1	Golgi SNAP receptor complex member 1
D01	Hs.480073	NM_002138	HNRNP	Heterogeneous nuclear ribonucleoprotein D (AU-rich element RNA binding protein 1, 37kDa)
D02	Hs.144936	NM_006546	IGF2BP1	Insulin-like growth factor 2 mRNA binding protein 1
D03	Hs.522819	NM_001569	IRAK1	Interleukin-1 receptor-associated kinase 1
D04	Hs.449207	NM_001570	IRAK2	Interleukin-1 receptor-associated kinase 2
D05	Hs.436873	NM_002210	ITGAV	Integrin, alpha V (vitronectin receptor, alpha polypeptide, antigen CD51)
D06	Hs.524800	NM_032590	KDM2B	Lysine (K)-specific demethylase 2B
D07	Hs.210532	NM_014773	KIAA0141	KIAA0141

Position	UniGene	GenBank	Symbol	Description
D08	Hs.533721	NM_015005	KIAA0284	KIAA0284
D09	Hs.471221	NM_003709	KLF7	Kruppel-like factor 7 (ubiquitous)
D10	Hs.470588	NM_012316	KPNA6	Karyopherin alpha 6 (importin alpha 7)
D11	Hs.144333	NM_004664	LIN7A	Lin-7 homolog A (C. elegans)
D12	Hs.288467	NM_130830	LRRC15	Leucine rich repeat containing 15
E01	Hs.643754	NM_004774	MED1	Mediator complex subunit 1
E02	Hs.546267	NM_005941	MMP16	Matrix metalloproteinase 16 (membrane-inserted)
E03	Hs.279562	NM_004535	MYT1	Myelin transcription factor 1
E04	Hs.487360	NM_024408	NOTCH2	Notch 2
E05	Hs.31588	NM_002515	NOVA1	Neuro-oncological ventral antigen 1
E06	Hs.654609	NM_003744	NUMB	Numb homolog (Drosophila)
E07	Hs.87202	NM_003924	PHOX2B	Paired-like homeobox 2b
E08	Hs.709364	NM_001010853	PM20D2	Peptidase M20 domain containing 2
E09	Hs.518155	NM_181897	PPP2R3A	Protein phosphatase 2, regulatory subunit B', alpha
E10	Hs.12970	NM_002809	PSMD3	Proteasome (prosome, macropain) 26S subunit, non-ATPase, 3
E11	Hs.271341	NM_012197	RABGAP1	RAB GTPase activating protein 1
E12	Hs.13640	NM_002941	ROBO1	Roundabout, axon guidance receptor, homolog 1 (Drosophila)
F01	Hs.368431	NM_175636	RUNX1T1	Runt-related transcription factor 1; translocated to, 1 (cyclin D-related)
F02	Hs.59729	NM_020163	SEMA3G	Sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3G
F03	Hs.715611	NM_003026	SH3GL2	SH3-domain GRB2-like 2
F04	Hs.522826	NM_019848	SLC10A3	Solute carrier family 10 (sodium/bile acid cotransporter family), member 3
F05	Hs.419240	NM_006931	SLC2A3	Solute carrier family 2 (facilitated glucose transporter), member 3
F06	Hs.533770	NM_030674	SLC38A1	Solute carrier family 38, member 1
F07	Hs.75862	NM_005359	SMAD4	SMAD family member 4
F08	Hs.485195	NM_002959	SORT1	Sortilin 1
F09	Hs.642990	NM_007315	STAT1	Signal transducer and activator of transcription 1, 91kDa
F10	Hs.25590	NM_003155	STC1	Stanniocalcin 1
F11	Hs.708072	NM_018387	STRBP	Spermatid perinuclear RNA binding protein
F12	Hs.180711	NM_004177	STX3	Syntaxin 3
G01	Hs.592248	NM_015975	TAF9B	TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31kDa
G02	Hs.410889	NM_025185	TANC2	Tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 2
G03	Hs.144439	NM_006862	TDRKH	Tudor and KH domain containing
G04	Hs.569438	NM_015059	TLN2	Talin 2
G05	Hs.591983	NM_004620	TRAF6	TNF receptor-associated factor 6
G06	Hs.458499	NM_006537	USP3	Ubiquitin specific peptidase 3
G07	Hs.577256	NM_017944	USP47	Ubiquitin specific peptidase 47
G08	Hs.514199	NM_006373	VAT1	Vesicle amine transport protein 1 homolog (T. californica)
G09	Hs.436803	NM_003372	VBP1	Von Hippel-Lindau binding protein 1
G10	Hs.335106	NM_178441	ZFYVE1	Zinc finger, FYVE domain containing 1
G11	Hs.729072	NM_020713	ZNF512B	Zinc finger protein 512B
G12	Hs.655242	NM_032173	ZNRF3	Zinc and ring finger 3
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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