

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

Human miR-153 Targets

Cat. no. 330231 PAHS-6013ZA

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-153 Targets RT² Profiler PCR Array profiles the expression of 84 hsa-miR-153-3p target genes. This panel of 84 genes includes currently known experimentally verified plus bioinformatically predicted target genes regulated by hsa-miR-153-3p. 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-153-3p. miRNA target gene expression analysis provides further insight into the function of these specific miRNAs. A set of controls present on each array enables data analysis using the $\Delta\Delta\text{CT}$ method of relative quantification as well as assessment of reverse transcription performance, genomic DNA contamination, and PCR performance. 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-153 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	ACTN4	APLP2	ARF1	ARPP19	AUTS2	BCL2	C16orf52	C2orf84	C9orf40	CBFB	CDK13	CELF2
B	CITED2	CNN3	CREBBP	CUX1	DMD	EXT1	FAM168B	FAM171A1	FAM190B	GLCC1	HEY2	IPO5
C	ITSN2	JAG1	KDSR	KIAA1370	KLF13	KLF5	LAMP1	MAP4K5	MCL1	MDN1	ME1	MORC3
D	MOV10	MPPED2	MTF2	NAV2	NEK9	NFE2L2	NOVA1	NPTN	NUDT4	OPRK1	PAIP1	PALM2
E	PAPD7	PAX2	PCDHGA12	PCDHGA2	PCDHGA3	PPM1D	PPM1H	PPPDE1	PRDM2	PTPN3	RASA1	RBM26
F	ROBO2	ROCK1	RTTN	RYR3	SERTAD2	SGK3	SIGMAR1	SLC36A2	SLC4A4	SMARCA5	SNCA	SUN1
G	SUN2	SYDE2	TBC1D19	TCEB1	TCERG1L	TESK2	TJP1	TMSB4X	TTC28	UBE2W	YBX1	YIPF2
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.270291	NM_004924	ACTN4	Actinin, alpha 4
A02	Hs.709184	NM_001642	APLP2	Amyloid beta (A4) precursor-like protein 2
A03	Hs.286221	NM_001658	ARF1	ADP-ribosylation factor 1
A04	Hs.512908	NM_006628	ARPP19	CAMP-regulated phosphoprotein, 19kDa
A05	Hs.654801	NM_015570	AUTS2	Autism susceptibility candidate 2
A06	Hs.150749	NM_000633	BCL2	B-cell CLL/lymphoma 2
A07	Hs.498890	NM_001164579	C16orf52	Chromosome 16 open reading frame 52
A08	Hs.467868	NM_001040710	C2orf84	Chromosome 2 open reading frame 84
A09	Hs.532296	NM_017998	C9orf40	Chromosome 9 open reading frame 40
A10	Hs.460988	NM_001755	CBFB	Core-binding factor, beta subunit
A11	Hs.233552	NM_003718	CDK13	Cyclin-dependent kinase 13
A12	Hs.309288	NM_006561	CELF2	CLUGBP, Elav-like family member 2
B01	Hs.82071	NM_006079	CITED2	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2
B02	Hs.706617	NM_001839	CNN3	Calponin 3, acidic
B03	Hs.459759	NM_004380	CREBBP	CREB binding protein
B04	Hs.654389	NM_181552	CUX1	Cut-like homeobox 1
B05	Hs.495912	NM_000109	DMD	Dystrophin
B06	Hs.492618	NM_000127	EXT1	Exostosin 1
B07	Hs.534679	NM_001009993	FAM168B	Family with sequence similarity 168, member B
B08	Hs.66762	NM_001010924	FAM171A1	Family with sequence similarity 171, member A1
B09	Hs.461988	NM_018999	FAM190B	Family with sequence similarity 190, member B
B10	Hs.131673	NM_138426	GLCC1	Glucocorticoid induced transcript 1
B11	Hs.144287	NM_012259	HEY2	Hairy/enhancer-of-split related with YRPW motif 2
B12	Hs.712598	NM_002271	IPO5	Importin 5
C01	Hs.432562	NM_006277	ITSN2	Intersectin 2
C02	Hs.728907	NM_000214	JAG1	Jagged 1
C03	Hs.74050	NM_002035	KDSR	3-ketodihydroshingosine reductase
C04	Hs.152385	NM_019600	KIAA1370	KIAA1370
C05	Hs.525752	NM_015995	KLF13	Kruppel-like factor 13
C06	Hs.508234	NM_001730	KLF5	Kruppel-like factor 5 (intestinal)
C07	Hs.494419	NM_005561	LAMP1	Lysosomal-associated membrane protein 1
C08	Hs.130491	NM_006575	MAP4K5	Mitogen-activated protein kinase kinase kinase kinase 5
C09	Hs.632486	NM_021960	MCL1	Myeloid cell leukemia sequence 1 (BCL2-related)
C10	Hs.529948	NM_014611	MDN1	MDN1, midasin homolog (yeast)
C11	Hs.21160	NM_002395	ME1	Malic enzyme 1, NADP(+)-dependent, cytosolic
C12	Hs.421150	NM_015358	MORC3	MORC family CW-type zinc finger 3
D01	Hs.514941	NM_020963	MOV10	Mov10, Moloney leukemia virus 10, homolog (mouse)
D02	Hs.289795	NM_001584	MPPED2	Metallophosphoesterase domain containing 2
D03	Hs.31016	NM_007358	MTF2	Metal response element binding transcription factor 2
D04	Hs.502116	NM_182964	NAV2	Neuron navigator 2
D05	Hs.696132	NM_033116	NEK9	NIMA (never in mitosis gene a)-related kinase 9
D06	Hs.155396	NM_006164	NFE2L2	Nuclear factor (erythroid-derived 2)-like 2
D07	Hs.31588	NM_002515	NOVA1	Neuro-oncological ventral antigen 1
D08	Hs.187866	NM_017455	NPTN	Neuroplastin

Position	UniGene	GenBank	Symbol	Description
D09	Hs.506325	NM_199040	NUDT4	Nudix (nucleoside diphosphate linked moiety X)-type motif 4
D10	Hs.106795	NM_000912	OPRK1	Opioid receptor, kappa 1
D11	Hs.482038	NM_182789	PAIP1	Poly(A) binding protein interacting protein 1
D12	Hs.591908	NM_001037293	PALM2	Paralemmin 2
E01	Hs.481542	NM_006999	PAPD7	PAP associated domain containing 7
E02	Hs.155644	NM_000278	PAX2	Paired box 2
E03	Hs.368160	NM_003735	PCDHGA12	Protocadherin gamma subfamily A, 12
E04	Hs.368160	NM_018915	PCDHGA2	Protocadherin gamma subfamily A, 2
E05	Hs.368160	NM_018916	PCDHGA3	Protocadherin gamma subfamily A, 3
E06	Hs.591184	NM_003620	PPM1D	Protein phosphatase, Mg2+/Mn2+ dependent, 1D
E07	Hs.435479	NM_020700	PPM1H	Protein phosphatase, Mg2+/Mn2+ dependent, 1H
E08	Hs.498317	NM_016076	PPPDE1	PPPDE peptidase domain containing 1
E09	Hs.371823	NM_015866	PRDM2	PR domain containing 2, with ZNF domain
E10	Hs.436429	NM_002829	PTPN3	Protein tyrosine phosphatase, non-receptor type 3
E11	Hs.664080	NM_002890	RASA1	RAS p21 protein activator (GTPase activating protein) 1
E12	Hs.558528	NM_022118	RBM26	RNA binding motif protein 26
F01	Hs.13305	NM_002942	ROBO2	Roundabout, axon guidance receptor, homolog 2 (Drosophila)
F02	Hs.306307	NM_005406	ROCK1	Rho-associated, coiled-coil containing protein kinase 1
F03	Hs.654809	NM_173630	RTTN	Rotatin
F04	Hs.709373	NM_001036	RYR3	Ryanodine receptor 3
F05	Hs.591569	NM_014755	SERTAD2	SERTA domain containing 2
F06	Hs.613417	NM_013257	SGK3	Serum/glucocorticoid regulated kinase family, member 3
F07	Hs.522087	NM_005866	SIGMAR1	Sigma non-opioid intracellular receptor 1
F08	Hs.483877	NM_181776	SLC36A2	Solute carrier family 36 (proton/amino acid symporter), member 2
F09	Hs.5462	NM_003759	SLC4A4	Solute carrier family 4, sodium bicarbonate cotransporter, member 4
F10	Hs.558422	NM_003601	SMARCA5	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 5
F11	Hs.271771	NM_000345	SNCA	Synuclein, alpha (non A4 component of amyloid precursor)
F12	Hs.438072	NM_025154	SUN1	Sad1 and UNC84 domain containing 1
G01	Hs.517622	NM_015374	SUN2	Sad1 and UNC84 domain containing 2
G02	Hs.670497	NM_032184	SYDE2	Synapse defective 1, Rho GTPase, homolog 2 (C. elegans)
G03	Hs.479403	NM_018317	TBC1D19	TBC1 domain family, member 19
G04	Hs.554594	NM_005648	TCEB1	Transcription elongation factor B (SIII), polypeptide 1 (15kDa, elongin C)
G05	Hs.126575	NM_174937	TCERG1L	Transcription elongation regulator 1-like
G06	Hs.591499	NM_007170	TESK2	Testis-specific kinase 2
G07	Hs.510833	NM_175610	TJP1	Tight junction protein 1 (zona occludens 1)
G08	Hs.522584	NM_021109	TMSB4X	Thymosin beta 4, X-linked
G09	Hs.387856	NM_001145418	TTC28	Tetratricopeptide repeat domain 28
G10	Hs.728774	NM_018299	UBE2W	Ubiquitin-conjugating enzyme E2W (putative)
G11	Hs.473583	NM_004559	YBX1	Y box binding protein 1
G12	Hs.323213	NM_024029	YIPF2	Yip1 domain family, member 2
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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