

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

Human miR-155 Targets

Cat. no. 330231 PAHS-6002ZA

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-155 Targets RT² Profiler PCR Array profiles the expression of 84 hsa-miR-155-5p target genes. This panel of 84 genes includes currently known experimentally verified plus bioinformatically predicted target genes regulated by hsa-miR-155-5p. 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-155 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	AAK1	AGTR1	AICDA	APC	ARID2	ASTN2	BACH1	BCORL1	CARD11	CEBPB	CHD9	CSNK1G2
B	CYR61	DET1	DHX40	DYNC111	EDN1	ETS1	FADD	FGF7	FOXO3	G3BP2	GDF6	H3F3A
C	HIVEP2	HNRNPA3	IFNGR1	IKBKE	ILF3	INPP5D	IRAK3	JARID2	KAT2A	KRAS	LDOC1	LPAR6
D	MAFB	MATR3	MECP2	MEF2A	MEIS1	MLH1	MSH2	MSH6	MYB	MYO10	NDFP1	NFATC2IP
E	NOVA1	PAM	PEL1	PHF17	PLD5	RAP1B	RHOA	RIPK1	RREB1	RUNX2	SEC14L5	SEPT11
F	SKI	SKIV2L2	SMAD1	SMAD2	SMAD5	SOCS1	SOX1	SPI1	STX16	STXB5L	TAB2	TCEB1
G	TLE4	TM6SF1	TOMM20	TP53INP1	TSHZ3	TTL	UQCR11	USP14	ZIC3	ZMYM2	ZNF236	ZNF652
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.468878	NM_014911	AAK1	AP2 associated kinase 1
A02	Hs.728754	NM_031850	AGTR1	Angiotensin II receptor, type 1
A03	Hs.149342	NM_020661	AICDA	Activation-induced cytidine deaminase
A04	Hs.158932	NM_000038	APC	Adenomatous polyposis coli
A05	Hs.317304	NM_152641	ARID2	AT rich interactive domain 2 (ARID, RFX-like)
A06	Hs.601562	NM_198187	ASTN2	Astrotactin 2
A07	Hs.154276	NM_001186	BACH1	BTB and CNC homology 1, basic leucine zipper transcription factor 1
A08	Hs.496748	NM_021946	BCORL1	BCL6 corepressor-like 1
A09	Hs.648101	NM_032415	CARD11	Caspase recruitment domain family, member 11
A10	Hs.517106	NM_005194	CEBPB	CCAAT/enhancer binding protein (C/EBP), beta
A11	Hs.59159	NM_025134	CHD9	Chromodomain helicase DNA binding protein 9
A12	Hs.651905	NM_001319	CSNK1G2	Casein kinase 1, gamma 2
B01	Hs.8867	NM_001554	CYR61	Cysteine-rich, angiogenic inducer, 61
B02	Hs.567523	NM_017996	DET1	De-etiolated homolog 1 (Arabidopsis)
B03	Hs.29403	NM_024612	DHX40	DEAH (Asp-Glu-Ala-His) box polypeptide 40
B04	Hs.440364	NM_004411	DYNC111	Dynein, cytoplasmic 1, intermediate chain 1
B05	Hs.511899	NM_001955	EDN1	Endothelin 1
B06	Hs.369438	NM_005238	ETS1	V-ets erythroblastosis virus E26 oncogene homolog 1 (avian)
B07	Hs.86131	NM_003824	FADD	Fas (TNFRSF6)-associated with death domain
B08	Hs.567268	NM_002009	FGF7	Fibroblast growth factor 7
B09	Hs.220950	NM_001455	FOXO3	Forkhead box O3
B10	Hs.303676	NM_203505	G3BP2	GTPase activating protein (SH3 domain) binding protein 2
B11	Hs.492277	NM_001001557	GDF6	Growth differentiation factor 6
B12	Hs.546259	NM_002107	H3F3A	H3 histone, family 3A
C01	Hs.510172	NM_006734	HIVEP2	Human immunodeficiency virus type I enhancer binding protein 2
C02	Hs.516539	NM_194247	HNRNPA3	Heterogeneous nuclear ribonucleoprotein A3
C03	Hs.520414	NM_000416	IFNGR1	Interferon gamma receptor 1
C04	Hs.321045	NM_014002	IKBKE	Inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase epsilon
C05	Hs.465885	NM_004516	ILF3	Interleukin enhancer binding factor 3, 90kDa
C06	Hs.262886	NM_005541	INPP5D	Inositol polyphosphate-5-phosphatase, 145kDa
C07	Hs.369265	NM_007199	IRAK3	Interleukin-1 receptor-associated kinase 3
C08	Hs.630189	NM_004973	JARID2	Jumonji, AT rich interactive domain 2
C09	Hs.463045	NM_021078	KAT2A	K(lysine) acetyltransferase 2A
C10	Hs.505033	NM_004985	KRAS	V-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog
C11	Hs.45231	NM_012317	LDOC1	Leucine zipper, down-regulated in cancer 1
C12	Hs.123464	NM_005767	LPAR6	Lysophosphatidic acid receptor 6
D01	Hs.169487	NM_005461	MAFB	V-maf musculoaponeurotic fibrosarcoma oncogene homolog B (avian)
D02	Hs.268939	NM_018834	MATR3	Matrin 3
D03	Hs.200716	NM_004992	MECP2	Methyl CpG binding protein 2 (Rett syndrome)
D04	Hs.268675	NM_005587	MEF2A	Myocyte enhancer factor 2A
D05	Hs.526754	NM_002398	MEIS1	Meis homeobox 1
D06	Hs.195364	NM_000249	MLH1	MutL homolog 1, colon cancer, nonpolyposis type 2 (E. coli)
D07	Hs.597656	NM_000251	MSH2	MutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli)
D08	Hs.445052	NM_000179	MSH6	MutS homolog 6 (E. coli)
D09	Hs.654446	NM_005375	MYB	V-myb myeloblastosis viral oncogene homolog (avian)

Position	UniGene	GenBank	Symbol	Description
D10	Hs.481720	NM_012334	MYO10	Myosin X
D11	Hs.9788	NM_030571	NDFIP1	Nedd4 family interacting protein 1
D12	Hs.513470	NM_032815	NFATC2IP	Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 interacting protein
E01	Hs.31588	NM_002515	NOVA1	Neuro-oncological ventral antigen 1
E02	Hs.369430	NM_000919	PAM	Peptidylglycine alpha-amidating monooxygenase
E03	Hs.7886	NM_020651	PELL1	Pellino homolog 1 (Drosophila)
E04	Hs.12420	NM_199320	PHF17	PHD finger protein 17
E05	Hs.672452	NM_152666	PLD5	Phospholipase D family, member 5
E06	Hs.369920	NM_015646	RAP1B	RAP1B, member of RAS oncogene family
E07	Hs.247077	NM_001664	RHOA	Ras homolog gene family, member A
E08	Hs.519842	NM_003804	RIPK1	Receptor (TNFRSF)-interacting serine-threonine kinase 1
E09	Hs.298248	NM_001003698	RREB1	Ras responsive element binding protein 1
E10	Hs.535845	NM_004348	RUNX2	Runt-related transcription factor 2
E11	Hs.512856	NM_014692	SEC14L5	SEC14-like 5 (S. cerevisiae)
E12	Hs.128199	NM_018243	SEPT11	Septin 11
F01	Hs.705384	NM_003036	SKI	V-ski sarcoma viral oncogene homolog (avian)
F02	Hs.274531	NM_015360	SKIV2L2	Superkiller viralicidic activity 2-like 2 (S. cerevisiae)
F03	Hs.604588	NM_005900	SMAD1	SMAD family member 1
F04	Hs.12253	NM_005901	SMAD2	SMAD family member 2
F05	Hs.167700	NM_005903	SMAD5	SMAD family member 5
F06	Hs.50640	NM_003745	SOCS1	Suppressor of cytokine signaling 1
F07	Hs.202526	NM_005986	SOX1	SRY (sex determining region Y)-box 1
F08	Hs.502511	NM_003120	SPI1	Spleen focus forming virus (SFFV) proviral integration oncogene spi1
F09	Hs.307913	NM_003763	STX16	Syntaxin 16
F10	Hs.477315	NM_014980	STXBPSL	Syntaxin binding protein 5-like
F11	Hs.269775	NM_015093	TAB2	TGF-beta activated kinase 1/MAP3K7 binding protein 2
F12	Hs.554594	NM_005648	TCEB1	Transcription elongation factor B (SIII), polypeptide 1 (15kDa, elongin C)
G01	Hs.444213	NM_007005	TLE4	Transducin-like enhancer of split 4 (E[sp1] homolog, Drosophila)
G02	Hs.513094	NM_023003	TM6SF1	Transmembrane 6 superfamily member 1
G03	Hs.533192	NM_014765	TOMM20	Translocase of outer mitochondrial membrane 20 homolog (yeast)
G04	Hs.700624	NM_033285	TP53INP1	Tumor protein p53 inducible nuclear protein 1
G05	Hs.278436	NM_020856	TSHZ3	Teashirt zinc finger homeobox 3
G06	Hs.358997	NM_153712	TTL	Tubulin tyrosine ligase
G07	Hs.8372	NM_006830	UQCRC1	Ubiquinol-cytochrome c reductase, complex III subunit XI
G08	Hs.464416	NM_005151	USP14	Ubiquitin specific peptidase 14 (tRNA-guanine transglycosylase)
G09	Hs.111227	NM_003413	ZIC3	Zic family member 3
G10	Hs.644041	NM_197968	ZMYM2	Zinc finger, MYM-type 2
G11	Hs.189826	NM_007345	ZNF236	Zinc finger protein 236
G12	Hs.463375	NM_014897	ZNF652	Zinc finger protein 652
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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