

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

Human miR-221 & miR-222 Targets

Cat. no. 330231 PAHS-6007ZA

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-221 & miR-222 Targets RT² Profiler PCR Array profiles the expression of 84 hsa-miR-221-3p and hsa-miR-222-3p target genes. This panel of 84 genes includes currently known experimentally verified plus bioinformatically predicted target genes regulated by hsa-miR-221-3p and hsa-miR-222-3p. 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-221 and 222 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	AGFG1	ANGPTL2	ANKRD10	ARF4	BBC3	BCL2L11	BMF	BM1	BMP2K	BNIP3	CASZ1	CBFB
B	CD47	CDKN1B	CDKN1C	CHSY1	CREBZF	CYR61	DCAF7	DCUN1D1	DDIT4	DKK2	DPP8	EIF3J
C	ESR1	ETS2	FMR1	FNDC3A	FOS	FOXN2	FOXO3	GAL3ST4	GNAI2	GRB10	H3F3A	HECTD2
D	ICAM1	IPO7	KIF16B	KIT	MAPK6	MEGF9	MIDN	MLLT6	MMP1	MPRIIP	MYBL1	NFYB
E	NLK	NTF3	PAIP1	PCDHA12	PIK3R1	PLCL2	PLXNC1	PPP2R2A	PPP2R5E	PTEN	RAB1A	RNF4
F	RNF44	R5BN1L	SEC62	SIM1	SKP1	SLC25A37	SLC38A1	SLCO1A2	SMARCA5	SNX4	SOD2	STK24
G	SUN2	TBK1	TCF12	TLK1	TMCC1	TOX	TSC22D3	UBE2G1	USP27X	VEZF1	WDR47	WSB2
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.352962	NM_004504	AGFG1	ArfGAP with FG repeats 1
A02	Hs.653262	NM_012098	ANGPTL2	Angiopoietin-like 2
A03	Hs.525163	NM_017664	ANKRD10	Ankyrin repeat domain 10
A04	Hs.695943	NM_001660	ARF4	ADP-ribosylation factor 4
A05	Hs.467020	NM_014417	BBC3	BCL2 binding component 3
A06	Hs.469658	NM_006538	BCL2L11	BCL2-like 11 (apoptosis facilitator)
A07	Hs.591104	NM_033503	BMF	Bcl2 modifying factor
A08	Hs.380403	NM_005180	BM1	BM1 polycomb ring finger oncogene
A09	Hs.146551	NM_198892	BMP2K	BMP2 inducible kinase
A10	Hs.144873	NM_004052	BNIP3	BCL2/adenovirus E1B 19kDa interacting protein 3
A11	Hs.439894	NM_017766	CASZ1	Castor zinc finger 1
A12	Hs.460988	NM_001755	CBFB	Core-binding factor, beta subunit
B01	Hs.446414	NM_001777	CD47	CD47 molecule
B02	Hs.238990	NM_004064	CDKN1B	Cyclin-dependent kinase inhibitor 1B (p27, Kip1)
B03	Hs.106070	NM_000076	CDKN1C	Cyclin-dependent kinase inhibitor 1C (p57, Kip2)
B04	Hs.110488	NM_014918	CHSY1	Chondroitin sulfate synthase 1
B05	Hs.535319	NM_001039618	CREBZF	CREB/ATF bZIP transcription factor
B06	Hs.8867	NM_001554	CYR61	Cysteine-rich, angiogenic inducer, 61
B07	Hs.410596	NM_005828	DCAF7	DDB1 and CUL4 associated factor 7
B08	Hs.715661	NM_020640	DCUN1D1	DCN1, defective in cullin neddylation 1, domain containing 1 (S. cerevisiae)
B09	Hs.523012	NM_019058	DDIT4	DNA-damage-inducible transcript 4
B10	Hs.211869	NM_014421	DKK2	Dickkopf homolog 2 (Xenopus laevis)
B11	Hs.591106	NM_197961	DPP8	Dipeptidyl-peptidase 8
B12	Hs.404056	NM_003758	EIF3J	Eukaryotic translation initiation factor 3, subunit J
C01	Hs.208124	NM_000125	ESR1	Estrogen receptor 1
C02	Hs.644231	NM_005239	ETS2	V-Ets erythroblastosis virus E26 oncogene homolog 2 (avian)
C03	Hs.103183	NM_002024	FMR1	Fragile X mental retardation 1
C04	Hs.508010	NM_014923	FNDC3A	Fibronectin type III domain containing 3A
C05	Hs.728789	NM_005252	FOS	FBJ murine osteosarcoma viral oncogene homolog
C06	Hs.468478	NM_002158	FOXN2	Forkhead box N2
C07	Hs.220950	NM_001455	FOXO3	Forkhead box O3
C08	Hs.44856	NM_024637	GAL3ST4	Galactose-3-O-sulfotransferase 4
C09	Hs.77269	NM_002070	GNAI2	Guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 2
C10	Hs.164060	NM_005311	GRB10	Growth factor receptor-bound protein 10
C11	Hs.546259	NM_002107	H3F3A	H3 histone, family 3A
C12	Hs.656960	NM_173497	HECTD2	HECT domain containing 2
D01	Hs.643447	NM_000201	ICAM1	Intercellular adhesion molecule 1
D02	Hs.718440	NM_006391	IPO7	Importin 7
D03	Hs.101774	NM_024704	KIF16B	Kinesin family member 16B
D04	Hs.479754	NM_000222	KIT	V-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog
D05	Hs.411847	NM_002748	MAPK6	Mitogen-activated protein kinase 6
D06	Hs.715550	NM_001080497	MEGF9	Multiple EGF-like-domains 9
D07	Hs.465529	NM_177401	MIDN	Midnolin
				Myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila);

Position	UniGene	GenBank	Symbol	Description
D08	Hs.91531	NM_005937	MLLT6	translocated to, 6
D09	Hs.83169	NM_002421	MMP1	Matrix metalloproteinase 1 (interstitial collagenase)
D10	Hs.462341	NM_015134	MPRI	Myosin phosphatase Rho interacting protein
D11	Hs.445898	NM_001080416	MYBL1	V-myb myeloblastosis viral oncogene homolog (avian)-like 1
D12	Hs.84928	NM_006166	NFYB	Nuclear transcription factor Y, beta
E01	Hs.208759	NM_016231	NLK	Nemo-like kinase
E02	Hs.99171	NM_002527	NTF3	Neurotrophin 3
E03	Hs.482038	NM_182789	PAIP1	Poly(A) binding protein interacting protein 1
E04	N/A	NM_018903	PCDHA12	Protocadherin alpha 12
E05	Hs.132225	NM_181504	PIK3R1	Phosphoinositide-3-kinase, regulatory subunit 1 (alpha)
E06	Hs.202010	NM_015184	PLCL2	Phospholipase C-like 2
E07	Hs.584845	NM_005761	PLXNC1	Plexin C1
E08	Hs.146339	NM_002717	PPP2R2A	Protein phosphatase 2, regulatory subunit B, alpha
E09	Hs.334868	NM_006246	PPP2R5E	Protein phosphatase 2, regulatory subunit B, epsilon isoform
E10	Hs.500466	NM_000314	PTEN	Phosphatase and tensin homolog
E11	Hs.310645	NM_004161	RAB1A	RAB1A, member RAS oncogene family
E12	Hs.66394	NM_002938	RNF4	Ring finger protein 4
F01	Hs.434888	NM_014901	RNF44	Ring finger protein 44
F02	Hs.592289	NM_198467	RSBN1L	Round spermatid basic protein 1-like
F03	Hs.622596	NM_003262	SEC62	SEC62 homolog (S. cerevisiae)
F04	Hs.520293	NM_005068	SIM1	Single-minded homolog 1 (Drosophila)
F05	Hs.171626	NM_006930	SKP1	S-phase kinase-associated protein 1
F06	Hs.596025	NM_016612	SLC25A37	Solute carrier family 25, member 37
F07	Hs.533770	NM_030674	SLC38A1	Solute carrier family 38, member 1
F08	Hs.46440	NM_021094	SLCO1A2	Solute carrier organic anion transporter family, member 1A2
F09	Hs.558422	NM_003601	SMARCA5	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 5
F10	Hs.507243	NM_003794	SNX4	Sorting nexin 4
F11	Hs.487046	NM_000636	SOD2	Superoxide dismutase 2, mitochondrial
F12	Hs.508514	NM_003576	STK24	Serine/threonine kinase 24
G01	Hs.517622	NM_015374	SUN2	Sad1 and UNC84 domain containing 2
G02	Hs.505874	NM_013254	TBK1	TANK-binding kinase 1
G03	Hs.511504	NM_003205	TCF12	Transcription factor 12
G04	Hs.596942	NM_012290	TLK1	Tousled-like kinase 1
G05	Hs.477547	NM_001017395	TMCC1	Transmembrane and coiled-coil domain family 1
G06	Hs.491805	NM_014729	TOX	Thymocyte selection-associated high mobility group box
G07	Hs.716410	NM_004089	TSC22D3	TSC22 domain family, member 3
G08	Hs.714345	NM_003342	UBE2G1	Ubiquitin-conjugating enzyme E2G 1
G09	Hs.143587	NM_001145073	USP27X	Ubiquitin specific peptidase 27, X-linked
G10	Hs.463569	NM_007146	VEZF1	Vascular endothelial zinc finger 1
G11	Hs.654760	NM_014969	WDR47	WD repeat domain 47
G12	Hs.506985	NM_018639	WSB2	WD repeat and SOCS box containing 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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