RT² Profiler PCR Array (Rotor-Gene® Format)

Human miR-17 & miR-20a Targets

Cat. no. 330231 PAHS-6003ZR

For pathway expression analysis

Format	For use with the following real-time cyclers
RT² Profiler PCR Array, Format R	Rotor-Gene Q, other Rotor-Gene cyclers

Description

The Human miR-17 & miR-20a Targets RT² Profiler PCR Array profiles the expression of 84 hsa-miR-17-5p and hsa-miR-20a-5p target genes. This panel of 84 genes includes currently known experimentally verified plus bioinformatically predicted target genes regulated by hsa-miR-17-5p and hsa-miR-20a-5p. This array also includes target genes regulated by other miRNAs that have the same seed sequence as hsa-miR-17-5p and hsa-miR-20a, including hsa-miR-20b-5p, hsa-miR-93-5p, hsa-miR-106a-5p, hsa-miR-106b-5p, and hsa-miR-519d. 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-17 and miR-20a with this array.

For further details, consult the *RT² Profiler PCR Array Handbook*.

Shipping and storage

RT² Profiler PCR Arrays in the Rotor-Gene format are shipped at ambient temperature, on dry ice, or blue ice packs depending on destination and accompanying products.

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

The 96 real-time assays in the Rotor-Gene format are located in wells 1–96 of the Rotor-Disc™ (plate A1–A12=Rotor-Disc 1–12, plate B1–B12=Rotor-Disc 13–24, etc.). To maintain data analysis compatibility, wells 97–100 do not contain real-time assays but will contain master mix to account for weight balance.

Gene table: RT² Profiler PCR Array

Position	UniGene	GenBank	Symbol	Description
A01	Hs.149342	NM_020661	AICDA	Activation-induced cytidine deaminase
A02	Hs.436055	NM_021926	ALX4	ALX homeobox 4
A03	Hs.432945	NM_152326	ANKRD9	Ankyrin repeat domain 9
A04	Hs.434980	NM_000484	APP	Amyloid beta (A4) precursor protein
A05	Hs.138860	NM_004308	ARHGAP1	Rho GTPase activating protein 1
A06	Hs.533633	NM_016374	ARID4B	AT rich interactive domain 4B (RBP1-like)
A07	Hs.22109	NM_014952	BAHD1	Bromo adjacent homology domain containing 1
A08	Hs.533336	NM_012342	BAMBI	BMP and activin membrane-bound inhibitor homolog (Xenopus laevis)
A09	Hs.150749	NM_000633	BCL2	B-cell CLL/lymphoma 2
A10	Hs.469658	NM_006538	BCL2L11	BCL2-like 11 (apoptosis facilitator)
A11	Hs.471119	NM_001204	BMPR2	Bone morphogenetic protein receptor, type II (serine/threonine kinase)
A12	Hs.646490	NM_004330	BNIP2	BCL2/adenovirus E1B 19kDa interacting protein 2
B01	Hs.490203	NM_004342	CALD1	Caldesmon 1
B02	Hs.234355	NM_023925	CAPRIN2	Caprin family member 2
B03	Hs.72918	NM_002981	CCL1	Chemokine (C-C motif) ligand 1
B04	Hs.523852	NM_053056	CCND1	Cyclin D1
B05	Hs.376071	NM_001759	CCND2	Cyclin D2
B06	Hs.13291	NM_004354	CCNG2	Cyclin G2
B07	Hs.370771	NM_000389	CDKN1A	Cyclin-dependent kinase inhibitor 1A (p21, Cip1)
B08	Hs.699247	NM_016441	CRIM1	Cysteine rich transmembrane BMP regulator 1 (chordin-like)
B09	Hs.125039	NM_021151	CROT	Carnitine O-octanoyltransferase
B10	Hs.434993	NM_016544	DNAJC27	DnaJ (Hsp40) homolog, subfamily C, member 27
B11	Hs.654652	NM_014705	DOCK4	Dedicator of cytokinesis 4
B12	Hs.654393	NM_005225	E2F1	E2F transcription factor 1
C01	Hs.46523	NM_005230	ELK3	ELK3, ETS-domain protein (SRF accessory protein 2)
C02	Hs.208124	NM_000125	ESR1	Estrogen receptor 1
C03	Hs.567582	NM_024735	FBXO31	F-box protein 31
C04	Hs.498160	NM_003272	GPR137B	G protein-coupled receptor 137B
C05	Hs.597216	NM_001530	HIF1A	Hypoxia inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor)
C06	Hs.201918	NM_005734	HIPK3	Homeodomain interacting protein kinase 3
C07	Hs.702021	NM_006597	HSPA8	Heat shock 70kDa protein 8
C08	Hs.643447	NM_000201	ICAM1	Intercellular adhesion molecule 1
C09	Hs.193717	NM_000572	IL10	Interleukin 10
C10	Hs.592171	NM_002214	ITGB8	Integrin, beta 8
C11	Hs.207538	NM_002227	JAK1	Janus kinase 1
C12	Hs.533055	NM_003884	KAT2B	K(lysine) acetyltransferase 2B
D01	Hs.594238	NM_002266	KPNA2	Karyopherin alpha 2 (RAG cohort 1, importin alpha 1)
D02	Hs.713539	NM_006301	MAP3K12	Mitogen-activated protein kinase kinase kinase 12
D03	Hs.145605	NM_006609	MAP3K2	Mitogen-activated protein kinase kinase kinase 2
D04	Hs.186486	NM_005923	MAP3K5	Mitogen-activated protein kinase kinase kinase 5
D05	Hs.432453	NM_005204	MAP3K8	Mitogen-activated protein kinase kinase kinase 8
D06	Hs.485233	NM_001315	MAPK14	Mitogen-activated protein kinase 14
D07	Hs.314327	NM_005920	MEF2D	Myocyte enhancer factor 2D
D08	Hs.484738	NM_013262	MYLIP	Myosin regulatory light chain interacting protein
D09	Hs.592142	NM_181659	NCOA3	Nuclear receptor coactivator 3
D10	Hs.171061	NM_002519	NPAT	Nuclear protein, ataxia-telangiectasia locus
D11	Hs.591610	NM_001031716	OBFC2A	Oligonucleotide/oligosaccharide-binding fold containing 2A
D12	Hs.32539	NM_177990	PAK7	P21 protein (Cdc42/Rac)-activated kinase 7
E01	Hs.428027	NM_006195	PBX3	Pre-B-cell leukemia homeobox 3
E02	Hs.445711	NM_000922	PDE3B	Phosphodiesterase 3B, cGMP-inhibited
E03	Hs.181272	NM_000297	PKD2	Polycystic kidney disease 2 (autosomal dominant)
E04	Hs.241517	NM_199420	POLQ	Polymerase (DNA directed), theta
E05	Hs.103110	NM_005036	PPARA	Peroxisome proliferator-activated receptor alpha
E06	Hs.162646	NM_015869	PPARG	Peroxisome proliferator-activated receptor gamma
E07	Hs.500466	NM_000314	PTEN	Phosphatase and tensin homolog
E08	Hs.160871	NM_002848	PTPRO	Protein tyrosine phosphatase, receptor type, O

Position	UniGene	GenBank	Symbol	Description
E09	Hs.270074	NM_001025300	RAB12	RAB12, member RAS oncogene family
E10	Hs.408528	NM_000321	RB1	Retinoblastoma 1
E11	Hs.207745	NM_002895	RBL1	Retinoblastoma-like 1 (p107)
E12	Hs.513609	NM_005611	RBL2	Retinoblastoma-like 2 (p130)
F01	Hs.510225	NM_004755	RPS6KA5	Ribosomal protein S6 kinase, 90kDa, polypeptide 5
F02	Hs.149261	NM_001754	RUNX1	Runt-related transcription factor 1
F03	Hs.89546	NM_000450	SELE	Selectin E
F04	Hs.75862	NM_005359	SMAD4	SMAD family member 4
F05	Hs.189329	NM_020429	SMURF1	SMAD specific E3 ubiquitin protein ligase 1
F06	Hs.337040	NM_152996	ST6GALNAC 3	ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1, 3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 3
F07	Hs.463059	NM_003150	STAT3	Signal transducer and activator of transcription 3 (acute-phase response factor)
F08	Hs.516297	NM_031283	TCF7L1	Transcription factor 7-like 1 (T-cell specific, HMG-box)
F09	Hs.604277	NM_003242	TGFBR2	Transforming growth factor, beta receptor II (70/80kDa)
F10	Hs.415839	NM_003809	TNFSF12	Tumor necrosis factor (ligand) superfamily, member 12
F11	Hs.329327	NM_025235	TNKS2	Tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase 2
F12	Hs.700624	NM_033285	TP53INP1	Tumor protein p53 inducible nuclear protein 1
G01	Hs.515094	NM_004240	TRIP10	Thyroid hormone receptor interactor 10
G02	Hs.517981	NM_007275	TUSC2	Tumor suppressor candidate 2
G03	Hs.458499	NM_006537	USP3	Ubiquitin specific peptidase 3
G04	Hs.73793	NM_003376	VEGFA	Vascular endothelial growth factor A
G05	Hs.370422	NM_003383	VLDLR	Very low density lipoprotein receptor
G06	Hs.249441	NM_003390	WEE1	WEE1 homolog (S. pombe)
G07	Hs.194148	NM_005433	YES1	V-yes-1 Yamaguchi sarcoma viral oncogene homolog 1
G08	Hs.591384	NM_015898	ZBTB7A	Zinc finger and BTB domain containing 7A
G09	Hs.431009	NM_012082	ZFPM2	Zinc finger protein, multitype 2
G10	Hs.98041	NM_015346	ZFYVE26	Zinc finger, FYVE domain containing 26
G11	Hs.592591	NM_021964	ZNF148	Zinc finger protein 148
G12	Hs.371794	NM_021035	ZNFX1	Zinc finger, NFX1-type containing 1
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.
RT² First Strand Kit (12)	Enzymes and reagents for cDNA synthesis	330401
RT² SYBR Green ROX™ FAST Mastermix (2)*	For 2 x 96 assays in 96-well plates; suitable for use with the Rotor-Gene Q and other Rotor-Gene cyclers	330620

* 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.

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual. QIAGEN kit handbooks and user manuals are available at www.qiagen.com or can be requested from QIAGEN Technical Services or your local distributor.

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