RT² Profiler PCR Array (Rotor-Gene® Format)

Human miR-210 Targets

Cat. no. 330231 PAHS-6009ZR

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-210 Targets RT² Profiler PCR Array profiles the expression of 84 hsa-miR-210 target genes. This panel of 84 genes includes currently known experimentally verified plus bioinformatically predicted target genes regulated by hsa-miR-210. 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-210 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.438918	NM_004302	ACVR1B	Activin A receptor, type IB
A02	Hs.58324	NM_007038	ADAMTS5	ADAM metallopeptidase with thrombospondin type 1 motif, 5
A03	Hs.192215	NM_021116	ADCY1	Adenylate cyclase 1 (brain)
A04	Hs.391860	NM_001116	ADCY9	Adenylate cyclase 9
A05	Hs.163543	NM_144704	AIFM3	Apoptosis-inducing factor, mitochondrion-associated, 3
A06	Hs.371723	NM_001080	ALDH5A1	Aldehyde dehydrogenase 5 family, member A1
A07	Hs.620591	NM_001039888	ANKRD34A	Ankyrin repeat domain 34A
A08	Hs.269542	NM_018120	ARMC1	Armadillo repeat containing 1
A09	Hs.716466	NM_006395	ATG7	ATG7 autophagy related 7 homolog (S. cerevisiae)
A10	Hs.370487	NM_004776	B4GALT5	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 5
A11	Hs.502182	NM_001709	BDNF	Brain-derived neurotrophic factor
A12	Hs.661785	NM_032829	C12orf34	Chromosome 12 open reading frame 34
B01	Hs.32433	NM_207380	C15orf52	Chromosome 15 open reading frame 52
B02	Hs.27160	NM_138428	C1orf212	Chromosome 1 open reading frame 212
B03	Hs.591787	NM_145029	C6orf136	Chromosome 6 open reading frame 136
B04	Hs.558218	NM_012115	CASP8AP2	Caspase 8 associated protein 2
B05	Hs.146346	NM_001296	CCBP2	Chemokine binding protein 2
B06	Hs.437497	NM_052848	CCDC97	Coiled-coil domain containing 97
B07	Hs.654534	NM_001822	CHN1	Chimerin (chimaerin) 1
B08	Hs.330386	NM_000747	CHRNB1	Cholinergic receptor, nicotinic, beta 1 (muscle)
B09	Hs.551213	NM_006091	CORO2B	Coronin, actin binding protein, 2B
B10	Hs.462278	NM_001303	COX10	COX10 homolog, cytochrome c oxidase assembly protein, heme A: farnesyltransferase (yeast)
B11	Hs.656937	NM_182646	CPEB2	Cytoplasmic polyadenylation element binding protein 2
B12	Hs.379858	NM_012137	DDAH1	Dimethylarginine dimethylaminohydrolase 1
C01	Hs.533222	NM_014473	DIMT1L	DIM1 dimethyladenosine transferase 1-like (S. cerevisiae)
C02	Hs.438830	NM_013238	DNAJC15	DnaJ (Hsp40) homolog, subfamily C, member 15
C03	Hs.380681	NM_000798	DRD5	Dopamine receptor D5
C04	Hs.41690	NM_001941	DSC3	Desmocollin 3
C05	Hs.372152	NM_004416	DTX1	Deltex homolog 1 (Drosophila)
C06	Hs.269408	NM_001949	E2F3	E2F transcription factor 3
C07	Hs.516664	NM_182685	EFNA1	Ephrin-A1
C08	Hs.516656	NM_004952	EFNA3	Ephrin-A3
C09	Hs.660812	NM_052906	ELFN2	Extracellular leucine-rich repeat and fibronectin type III domain containing 2
C10	Hs.35198	NM_021572	ENPP5	Ectonucleotide pyrophosphatase/phosphodiesterase 5 (putative)
C11	Hs.91085	NM_152678	FAM116A	Family with sequence similarity 116, member A
C12	Hs.632693	NM_032809	FAM73B	Family with sequence similarity 73, member B
D01	Hs.193326	NM_021923	FGFRL1	Fibroblast growth factor receptor-like 1
D02	Hs.163484	NM_004496	FOXA1	Forkhead box A1
D03	Hs.82432	NM_015141	GPD1L	Glycerol-3-phosphate dehydrogenase 1-like
D04	Hs.271510	NM_000637	GSR	Glutathione reductase
D05	Hs.420830	NM_152794	HIF3A	Hypoxia inducible factor 3, alpha subunit
D06	Hs.67397	NM_005522	HOXA1	Homeobox A1
D07	Hs.659350	NM_152739	HOXA9	Homeobox A9
D08	Hs.615131	NM_014301	ISCU	Iron-sulfur cluster scaffold homolog (E. coli)
D09	Hs.654968	NM_020122	KCMF1	Potassium channel modulatory factor 1
D10	Hs.592112	NM_001002914	KCTD11	Potassium channel tetramerisation domain containing 11
D11	Hs.22616	NM_015229	KIAA0664	KIAA0664
D12	Hs.729350	NM_007249	KLF12	Kruppel-like factor 12
E01	Hs.572535	NM_002287	LAIR1	Leukocyte-associated immunoglobulin-like receptor 1
E02	Hs.494419	NM_005561	LAMP1	Lysosomal-associated membrane protein 1
E03	Hs.268675	NM_005587	MEF2A	Myocyte enhancer factor 2A
E04	Hs.522605	NM_021242	MID1IP1	MID1 interacting protein 1 (gastrulation specific G12 homolog (zebrafish))
E05	Hs.120228	NM_003482	MLL2	Myeloid/lymphoid or mixed-lineage leukemia 2
E06	Hs.626579	NM_020310	MNT	MAX binding protein
E07	Hs.503878	NM_000615	NCAM1	Neural cell adhesion molecule 1
E08	Hs.50098	NM_002489	NDUFA4	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4, 9kDa

Position	UniGene	GenBank	Symbol	Description
E09	Hs.322431	NM_006160	NEUROD2	Neurogenic differentiation 2
E10	Hs.514556	NM_002522	NPTX1	Neuronal pentraxin I
E11	Hs.37288	NM_005126	NR1D2	Nuclear receptor subfamily 1, group D, member 2
E12	Hs.13854	NM_139283	PPTC7	PTC7 protein phosphatase homolog (S. cerevisiae)
F01	Hs.417549	NM_002827	PTPN1	Protein tyrosine phosphatase, non-receptor type 1
F02	Hs.709202	NM_134424	RAD52	RAD52 homolog (S. cerevisiae)
F03	Hs.440168	NM_005822	RCAN2	Regulator of calcineurin 2
F04	Hs.271277	NM_020211	RGMA	RGM domain family, member A
F05	Hs.368626	NM_021136	RTN1	Reticulon 1
F06	Hs.31746	NM_031309	SCRT1	Scratch homolog 1, zinc finger protein (Drosophila)
F07	Hs.59729	NM_020163	SEMA3G	Sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3G
F08	Hs.533017	NM_001098811	SEPT8	Septin 8
F09	Hs.379386	NM_173471	SLC25A26	Solute carrier family 25, member 26
F10	Hs.516837	NM_015327	SMG5	Smg-5 homolog, nonsense mediated mRNA decay factor (C. elegans)
F11	Hs.59332	NM_181784	SPRED2	Sprouty-related, EVH1 domain containing 2
F12	Hs.586264	NM_006772	SYNGAP1	Synaptic Ras GTPase activating protein 1
G01	Hs.593995	NM_030756	TCF7L2	Transcription factor 7-like 2 (T-cell specific, HMG-box)
G02	Hs.120855	NM_015204	THSD7A	Thrombospondin, type I, domain containing 7A
G03	Hs.632851	XM_001723534	TMEM151B	Transmembrane protein 151B
G04	Hs.534312	NM_000113	TOR1A	Torsin family 1, member A (torsin A)
G05	Hs.536122	NM_005783	TXNDC9	Thioredoxin domain containing 9
G06	Hs.529901	NR_001564	XIST	X (inactive)-specific transcript (non-protein coding)
G07	Hs.591065	NM_175907	ZADH2	Zinc binding alcohol dehydrogenase domain containing 2
G08	Hs.36959	NM_021943	ZFAND3	Zinc finger, AN1-type domain 3
G09	Hs.292056	NM_020972	ZFYVE28	Zinc finger, FYVE domain containing 28
G10	Hs.386299	NM_022470	ZMAT3	Zinc finger, matrin-type 3
G11	Hs.592591	NM_021964	ZNF148	Zinc finger protein 148
G12	Hs.370379	NM_021224	ZNF462	Zinc finger protein 462
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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