

RT² Profiler PCR Array (Rotor-Gene[®] Format)

Human Cell Surface Markers

Cat. no. 330231 PAHS-055ZR

For pathway expression analysis

Format	For use with the following real-time cyclers
RT ² Profiler PCR Array, Format R	Rotor-Gene Q, other Rotor-Gene cyclers

Description

The Human Cell Surface Markers RT² Profiler PCR Array profiles the expression of 84 genes relevant to research at the cell surface marker level. These markers have been used in studies including: 1) determination of the extent of leukocyte infiltration among cancer tissues; 2) characterization of cell populations isolated from patients with chronic inflammatory diseases such as atherosclerosis, asthma, inflammatory bowel disease, and arthritis; 3) determination of T- and B-cell lineage and clonality; 4) characterization of leukocyte populations for use in the prognosis of disease stage and progression; and 5) analysis of the composition of immune infiltrates and their association with organ rejection. Using real-time PCR, you can easily and reliably analyze expression of a focused panel of genes related to cell surface markers 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.591293	NM_001627	ALCAM	Activated leukocyte cell adhesion molecule
A02	Hs.2161	NM_001736	C5AR1	Complement component 5a receptor 1
A03	Hs.488237	NM_007053	CD160	CD160 molecule
A04	Hs.504641	NM_004244	CD163	CD163 molecule
A05	Hs.652262	NM_001770	CD19	CD19 molecule
A06	Hs.1309	NM_001763	CD1A	CD1a molecule
A07	Hs.132448	NM_001765	CD1C	CD1c molecule
A08	Hs.1799	NM_001766	CD1D	CD1d molecule
A09	Hs.523500	NM_001767	CD2	CD2 molecule
A10	Hs.278694	NM_021155	CD209	CD209 molecule
A11	Hs.579691	NM_001771	CD22	CD22 molecule
A12	Hs.644105	NM_013230	CD24	CD24 molecule
B01	Hs.157872	NM_016382	CD244	CD244 molecule, natural killer cell receptor 2B4
B02	Hs.156445	NM_000734	CD247	CD247 molecule
B03	Hs.591629	NM_006139	CD28	CD28 molecule
B04	Hs.166556	NM_001774	CD37	CD37 molecule
B05	Hs.479214	NM_001775	CD38	CD38 molecule
B06	Hs.504048	NM_000732	CD3D	CD3d molecule, delta (CD3-TCR complex)
B07	Hs.2259	NM_000073	CD3G	CD3g molecule, gamma (CD3-TCR complex)
B08	Hs.631659	NM_000616	CD4	CD4 molecule
B09	Hs.472860	NM_001250	CD40	CD40 molecule, TNF receptor superfamily member 5
B10	Hs.592244	NM_000074	CD40LG	CD40 ligand
B11	Hs.58685	NM_014207	CD5	CD5 molecule
B12	Hs.729486	NM_006725	CD6	CD6 molecule
C01	Hs.445570	NM_001780	CD63	CD63 molecule
C02	Hs.208854	NM_001781	CD69	CD69 molecule
C03	Hs.36972	NM_006137	CD7	CD7 molecule
C04	Hs.501497	NM_001252	CD70	CD70 molecule
C05	Hs.116481	NM_001782	CD72	CD72 molecule
C06	Hs.436568	NM_004355	CD74	CD74 molecule, major histocompatibility complex, class II invariant chain
C07	Hs.631567	NM_001783	CD79A	CD79a molecule, immunoglobulin-associated alpha
C08	Hs.89575	NM_000626	CD79B	CD79b molecule, immunoglobulin-associated beta
C09	Hs.838	NM_005191	CD80	CD80 molecule
C10	Hs.595133	NM_004233	CD83	CD83 molecule
C11	Hs.171182	NM_006889	CD86	CD86 molecule
C12	Hs.85258	NM_001768	CD8A	CD8a molecule
D01	Hs.405667	NM_004931	CD8B	CD8b molecule
D02	Hs.142023	NM_005816	CD96	CD96 molecule
D03	Hs.516370	NM_004854	CHST10	Carbohydrate sulfotransferase 10
D04	Hs.172928	NM_000088	COL1A1	Collagen, type I, alpha 1
D05	Hs.489142	NM_000089	COL1A2	Collagen, type I, alpha 2
D06	Hs.445757	NM_001877	CR2	Complement component (3d/Epstein Barr virus) receptor 2
D07	Hs.654394	NM_005211	CSF1R	Colony stimulating factor 1 receptor
D08	Hs.247824	NM_005214	CTLA4	Cytotoxic T-lymphocyte-associated protein 4
D09	Hs.368912	NM_001935	DPP4	Dipeptidyl-peptidase 4
D10	Hs.76753	NM_000118	ENG	Endoglin
D11	Hs.542050	NM_002354	EPCAM	Epithelial cell adhesion molecule
D12	Hs.244139	NM_000043	FAS	Fas (TNF receptor superfamily, member 6)
E01	Hs.897	NM_002001	FCER1A	Fc fragment of IgE, high affinity I, receptor for; alpha polypeptide
E02	Hs.465778	NM_002002	FCER2	Fc fragment of IgE, low affinity II, receptor for (CD23)
E03	Hs.77424	NM_000566	FCGR1A	Fc fragment of IgG, high affinity Ia, receptor (CD64)
E04	Hs.181244	NM_002116	HLA-A	Major histocompatibility complex, class I, A
E05	Hs.520048	NM_019111	HLA-DRA	Major histocompatibility complex, class II, DR alpha
E06	Hs.431460	NM_000873	ICAM2	Intercellular adhesion molecule 2
E07	Hs.567294	NM_005535	IL12RB1	Interleukin 12 receptor, beta 1
E08	Hs.25333	NM_004633	IL1R2	Interleukin 1 receptor, type II
E09	Hs.231367	NM_000417	IL2RA	Interleukin 2 receptor, alpha

Position	UniGene	GenBank	Symbol	Description
E10	Hs.644352	NM_181501	ITGA1	Integrin, alpha 1
E11	Hs.482077	NM_002203	ITGA2	Integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)
E12	Hs.265829	NM_002204	ITGA3	Integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor)
F01	Hs.169824	NM_002258	KLRB1	Killer cell lectin-like receptor subfamily B, member 1
F02	Hs.512576	NM_002259	KLRC1	Killer cell lectin-like receptor subfamily C, member 1
F03	Hs.562457	NM_002262	KLRD1	Killer cell lectin-like receptor subfamily D, member 1
F04	Hs.406013	NM_000224	KRT18	Keratin 18
F05	Hs.433845	NM_000424	KRT5	Keratin 5
F06	Hs.533782	NM_002273	KRT8	Keratin 8
F07	Hs.712553	NM_021950	MS4A1	Membrane-spanning 4-domains, subfamily A, member 1
F08	Hs.16355	NM_005964	MYH10	Myosin, heavy chain 10, non-muscle
F09	Hs.474751	NM_002473	MYH9	Myosin, heavy chain 9, non-muscle
F10	Hs.567641	NM_153604	MYOCD	Myocardin
F11	Hs.503878	NM_000615	NCAM1	Neural cell adhesion molecule 1
F12	Hs.707978	NM_000603	NOS3	Nitric oxide synthase 3 (endothelial cell)
G01	Hs.153952	NM_002526	NT5E	5'-nucleotidase, ecto (CD73)
G02	Hs.514412	NM_000442	PECAM1	Platelet/endothelial cell adhesion molecule
G03	Hs.283091	NM_020415	RETN	Resistin
G04	Hs.416073	NM_002964	S100A8	S100 calcium binding protein A8
G05	Hs.73800	NM_003005	SELP	Selectin P (granule membrane protein 140kDa, antigen CD62)
G06	Hs.207459	NM_003032	ST6GAL1	ST6 beta-galactosamide alpha-2,6-sialyltransferase 1
G07	Hs.89640	NM_000459	TEK	TEK tyrosine kinase, endothelial
G08	Hs.129780	NM_003327	TNFRSF4	Tumor necrosis factor receptor superfamily, member 4
G09	Hs.1314	NM_001243	TNFRSF8	Tumor necrosis factor receptor superfamily, member 8
G10	Hs.405479	NM_003294	TPSAB1	Tryptase alpha/beta 1
G11	Hs.109225	NM_001078	VCAM1	Vascular cell adhesion molecule 1
G12	Hs.440848	NM_000552	VWF	Von Willebrand factor
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 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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