

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

Mouse Cell Surface Markers

Cat. no. 330231 PAMM-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 Mouse 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	Mm.288282	NM_009655	Alcam	Activated leukocyte cell adhesion molecule
A02	Mm.247623	NM_007577	C5ar1	Complement component 5a receptor 1
A03	Mm.34693	NM_018767	Cd160	CD160 antigen
A04	Mm.37426	NM_053094	Cd163	CD163 antigen
A05	Mm.4360	NM_009844	Cd19	CD19 antigen
A06	Mm.1894	NM_007639	Cd1d1	CD1d1 antigen
A07	Mm.389465	NM_007640	Cd1d2	CD1d2 antigen
A08	Mm.22842	NM_013486	Cd2	CD2 antigen
A09	Mm.416152	NM_021325	Cd200r1	CD200 receptor 1
A10	Mm.32510	NM_133238	Cd209a	CD209a antigen
A11	Mm.260994	NM_009845	Cd22	CD22 antigen
A12	Mm.2299	NM_018729	Cd244	CD244 natural killer cell receptor 2B4
B01	Mm.217308	NM_031162	Cd247	CD247 antigen
B02	Mm.29742	NM_009846	Cd24a	CD24a antigen
B03	Mm.5356	NM_133983	Cd276	CD276 antigen
B04	Mm.255003	NM_007642	Cd28	CD28 antigen
B05	Mm.29798	NM_133654	Cd34	CD34 antigen
B06	Mm.3689	NM_007645	Cd37	CD37 antigen
B07	Mm.249873	NM_007646	Cd38	CD38 antigen
B08	Mm.4527	NM_013487	Cd3d	CD3 antigen, delta polypeptide
B09	Mm.335106	NM_009850	Cd3g	CD3 antigen, gamma polypeptide
B10	Mm.2209	NM_013488	Cd4	CD4 antigen
B11	Mm.271833	NM_011611	Cd40	CD40 antigen
B12	Mm.4861	NM_011616	Cd40lg	CD40 ligand
C01	Mm.779	NM_007650	Cd5	CD5 antigen
C02	Mm.290897	NM_009852	Cd6	CD6 antigen
C03	Mm.371552	NM_007653	Cd63	CD63 antigen
C04	Mm.74745	NM_001033122	Cd69	CD69 antigen
C05	Mm.4100	NM_009854	Cd7	CD7 antigen
C06	Mm.42228	NM_011617	Cd70	CD70 antigen
C07	Mm.188157	NM_007654	Cd72	CD72 antigen
C08	Mm.439737	NM_010545	Cd74	CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated)
C09	Mm.1355	NM_007655	Cd79a	CD79A antigen (immunoglobulin-associated alpha)
C10	Mm.2987	NM_008339	Cd79b	CD79B antigen
C11	Mm.89474	NM_009855	Cd80	CD80 antigen
C12	Mm.57175	NM_009856	Cd83	CD83 antigen
D01	Mm.1452	NM_019388	Cd86	CD86 antigen
D02	Mm.1858	NM_001081110	Cd8a	CD8 antigen, alpha chain
D03	Mm.333148	NM_009858	Cd8b1	CD8 antigen, beta chain 1
D04	Mm.29204	NM_032465	Cd96	CD96 antigen
D05	Mm.260054	NM_145142	Chst10	Carbohydrate sulfotransferase 10
D06	Mm.277735	NM_007742	Col1a1	Collagen, type I, alpha 1
D07	Mm.277792	NM_007743	Col1a2	Collagen, type I, alpha 2
D08	Mm.235387	NM_007758	Cr2	Complement receptor 2
D09	Mm.22574	NM_001037859	Csf1r	Colony stimulating factor 1 receptor
D10	Mm.390	NM_009843	Ctla4	Cytotoxic T-lymphocyte-associated protein 4
D11	Mm.1151	NM_010074	Dpp4	Dipeptidylpeptidase 4
D12	Mm.225297	NM_007932	Eng	Endoglin
E01	Mm.4259	NM_008532	Epcam	Epithelial cell adhesion molecule
E02	Mm.1626	NM_007987	Fas	Fas (TNF receptor superfamily member 6)
E03	Mm.5266	NM_010184	Fcer1a	Fc receptor, IgE, high affinity I, alpha polypeptide
E04	Mm.1233	NM_013517	Fcer2a	Fc receptor, IgE, low affinity II, alpha polypeptide
E05	Mm.150	NM_010186	Fcgr1	Fc receptor, IgG, high affinity I
E06	Mm.88795	NM_010391	H2-Q10	Histocompatibility 2, Q region locus 10
E07	Mm.394	NM_010494	Icam2	Intercellular adhesion molecule 2
E08	Mm.731	NM_008353	Il12rb1	Interleukin 12 receptor, beta 1

Position	UniGene	GenBank	Symbol	Description
E09	Mm.1349	NM_010555	Il1r2	Interleukin 1 receptor, type II
E10	Mm.915	NM_008367	Il2ra	Interleukin 2 receptor, alpha chain
E11	Mm.482186	NM_001033228	Itga1	Integrin alpha 1
E12	Mm.5007	NM_008396	Itga2	Integrin alpha 2
F01	Mm.57035	NM_013565	Itga3	Integrin alpha 3
F02	Mm.56899	NM_010652	Klrc1	Killer cell lectin-like receptor subfamily C, member 1
F03	Mm.391515	NM_010654	Klrd1	Killer cell lectin-like receptor, subfamily D, member 1
F04	Mm.22479	NM_010664	Krt18	Keratin 18
F05	Mm.451847	NM_027011	Krt5	Keratin 5
F06	Mm.358618	NM_031170	Krt8	Keratin 8
F07	Mm.4046	NM_007641	Ms4a1	Membrane-spanning 4-domains, subfamily A, member 1
F08	Mm.218233	NM_175260	Myh10	Myosin, heavy polypeptide 10, non-muscle
F09	Mm.29677	NM_022410	Myh9	Myosin, heavy polypeptide 9, non-muscle
F10	Mm.32257	NM_145136	Myocd	Myocardin
F11	Mm.4974	NM_010875	Ncam1	Neural cell adhesion molecule 1
F12	Mm.258415	NM_008713	Nos3	Nitric oxide synthase 3, endothelial cell
G01	Mm.244235	NM_011851	Nt5e	5' nucleotidase, ecto
G02	Mm.343951	NM_008816	Pecam1	Platelet/endothelial cell adhesion molecule 1
G03	Mm.1181	NM_022984	Refn	Resistin
G04	Mm.21567	NM_013650	S100a8	S100 calcium binding protein A8 (calgranulin A)
G05	Mm.3337	NM_011347	Selp	Selectin, platelet
G06	Mm.149029	NM_145933	St6gal1	Beta galactoside alpha 2,6 sialyltransferase 1
G07	Mm.14313	NM_013690	Tek	Endothelial-specific receptor tyrosine kinase
G08	Mm.13885	NM_011659	Tnfrsf4	Tumor necrosis factor receptor superfamily, member 4
G09	Mm.12810	NM_009401	Tnfrsf8	Tumor necrosis factor receptor superfamily, member 8
G10	Mm.3301	NM_031187	Tpsab1	Tryptase alpha/beta 1
G11	Mm.76649	NM_011693	Vcam1	Vascular cell adhesion molecule 1
G12	Mm.22339	NM_011708	Vwf	Von Willebrand factor homolog
H01	Mm.328431	NM_007393	Actb	Actin, beta
H02	Mm.163	NM_009735	B2m	Beta-2 microglobulin
H03	Mm.343110	NM_008084	Gapdh	Glyceraldehyde-3-phosphate dehydrogenase
H04	Mm.3317	NM_010368	Gusb	Glucuronidase, beta
H05	Mm.2180	NM_008302	Hsp90ab1	Heat shock protein 90 alpha (cytosolic), class B member 1
H06	N/A	SA_00106	MGDC	Mouse 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.

Trademarks: QIAGEN[®], Rotor-Gene[®], Rotor-Disc[™] (QIAGEN Group); ROX[™] (Applied Biosystems or its subsidiaries); SYBR[®] (Molecular Probes, Inc.).

1067688 03/2011 © 2011 QIAGEN, all rights reserved.

www.qiagen.com

Australia ■ 1-800-243-800

Austria ■ 0800/281010

Belgium ■ 0800-79612

Brazil ■ 0800-557779

Canada ■ 800-572-9613

China ■ 8621-3865-3865

Denmark ■ 80-885945

Finland ■ 0800-914416

France ■ 01-60-920-930

Germany ■ 02103-29-12000

Hong Kong ■ 800 933 965

Ireland ■ 1800 555 049

Italy ■ 800-787980

Japan ■ 03-6890-7300

Korea (South) ■ 080-000-7145

Luxembourg ■ 8002 2076

Mexico ■ 01-800-7742-436

The Netherlands ■ 0800 0229592

Norway ■ 800-18859

Singapore ■ 1800-742-4368

Spain ■ 91-630-7050

Sweden ■ 020-790282

Switzerland ■ 055-254-22-11

UK ■ 01293-422-911

USA ■ 800-426-8157



Sample & Assay Technologies