

RT² Profiler PCR Array (Rotor-Gene® Format)

Rat Cell Surface Markers

Cat. no. 330231 PARN-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 Rat 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	Rn.5789	NM_031753	Alcam	Activated leukocyte cell adhesion molecule
A02	Rn.10680	NM_053619	C5ar1	Complement component 5a receptor 1
A03	Rn.221900	NM_001107887	Cd163	CD163 molecule
A04	Rn.105569	NM_001013237	Cd19	CD19 molecule
A05	Rn.11120	NM_017079	Cd1d1	CD1d1 molecule
A06	Rn.10328	NM_012830	Cd2	Cd2 molecule
A07	Rn.124439	NM_023953	Cd200r1	CD200 receptor 1
A08	Rn.25921	NM_001107503	Cd22	CD22 molecule
A09	Rn.6007	NM_012752	Cd24	CD24 molecule
A10	Rn.53994	NM_022259	Cd244	Cd244 molecule, natural killer cell receptor 2B4
A11	Rn.9997	NM_170789	Cd247	Cd247 molecule
A12	Rn.10327	NM_013121	Cd28	Cd28 molecule
B01	Rn.219720	NM_001107202	Cd34	CD34 molecule
B02	Rn.102418	NM_031561	Cd36	CD36 molecule (thrombospondin receptor)
B03	Rn.2357	NM_017124	Cd37	CD37 molecule
B04	Rn.11414	NM_013127	Cd38	CD38 molecule
B05	Rn.10329	NM_013169	Cd3d	CD3 molecule, delta
B06	Rn.96221	NM_001108140	Cd3e	CD3 molecule, epsilon
B07	Rn.202653	NM_001077646	Cd3g	CD3 molecule, gamma
B08	Rn.10748	NM_012705	Cd4	Cd4 molecule
B09	Rn.25180	NM_134360	Cd40	CD40 molecule, TNF receptor superfamily member 5
B10	Rn.44218	NM_053353	Cd40lg	CD40 ligand
B11	Rn.1120	NM_012924	Cd44	Cd44 molecule
B12	Rn.3705	NM_139103	Cd48	Cd48 molecule
C01	Rn.11337	NM_019295	Cd5	Cd5 molecule
C02	Rn.57361	NM_175577	Cd6	Cd6 molecule
C03	Rn.11068	NM_017125	Cd63	Cd63 molecule
C04	Rn.23779	NM_134327	Cd69	Cd69 molecule
C05	Rn.8175	NM_001107074	Cd7	Cd7 molecule
C06	Rn.103013	NM_001106878	Cd70	Cd70 molecule
C07	Rn.162392	NM_001015016	Cd72	Cd72 molecule
C08	Rn.33804	NM_013069	Cd74	Cd74 molecule, major histocompatibility complex, class II invariant chain
C09	Rn.178258	XM_001060872	Cd79a	Cd79a molecule, immunoglobulin-associated alpha
C10	Rn.62607	NM_133533	Cd79b	Cd79b molecule, immunoglobulin-associated beta
C11	Rn.10138	NM_012926	Cd80	Cd80 molecule
C12	Rn.20096	NM_001108410	Cd83	CD83 molecule
D01	Rn.6734	NM_020081	Cd86	CD86 molecule
D02	Rn.10306	NM_031538	Cd8a	CD8a molecule
D03	Rn.10330	NM_031539	Cd8b	CD8b molecule
D04	Rn.55482	NM_001025032	Cd96	CD96 molecule
D05	Rn.11224	NM_080397	Chst10	Carbohydrate sulfotransferase 10
D06	Rn.2953	NM_053304	Col1a1	Collagen, type I, alpha 1
D07	Rn.107239	NM_053356	Col1a2	Collagen, type I, alpha 2
D08	Rn.23490	NM_001105989	Cr2	Complement receptor 2
D09	Rn.72599	NM_001029901	Csf1r	Colony stimulating factor 1 receptor
D10	Rn.10259	NM_031674	Ctla4	Cytotoxic T-lymphocyte-associated protein 4
D11	Rn.91364	NM_012789	Dpp4	Dipeptidylpeptidase 4
D12	Rn.187025	NM_001010968	Eng	Endoglin
E01	Rn.106481	NM_138541	Epcam	Epithelial cell adhesion molecule
E02	Rn.162521	NM_139194	Fas	Fas (TNF receptor superfamily, member 6)
E03	Rn.9677	NM_012724	Fcgr1a	Fc fragment of IgE, high affinity I, receptor for; alpha polypeptide
E04	Rn.10326	NM_133550	Fcer2	Fc fragment of IgE, low affinity II, receptor for (CD23)
E05	Rn.16643	NM_001100836	Fcgr1a	Fc fragment of IgG, high affinity Ia, receptor (CD64)
E06	Rn.162206	NM_001007725	Icam2	Intercellular adhesion molecule 2
E07	Rn.162266	XM_344493	Il12rb1	Interleukin 12 receptor, beta 1
E08	Rn.10758	NM_053953	Il1r2	Interleukin 1 receptor, type II
E09	Rn.9872	NM_013163	Il2ra	Interleukin 2 receptor, alpha

Position	UniGene	GenBank	Symbol	Description
E10	Rn.91044	NM_030994	Itga1	Integrin, alpha 1
E11	Rn.83597	XM_345156	Itga2	Integrin, alpha 2
E12	Rn.154664	NM_001108292	Itga3	Integrin, alpha 3
F01	Rn.9895	NM_001037441	Klrc1	Killer cell lectin-like receptor subfamily C, member 1
F02	Rn.6025	NM_012745	Klrd1	Killer cell lectin-like receptor, subfamily D, member 1
F03	Rn.103924	NM_053976	Krt18	Keratin 18
F04	Rn.120205	NM_183333	Krt5	Keratin 5
F05	Rn.11083	NM_199370	Krt8	Keratin 8
F06	Rn.16385	NM_001107578	Ms4a1	Membrane-spanning 4-domains, subfamily A, member 1
F07	Rn.98166	NM_031520	Myh10	Myosin, heavy chain 10, non-muscle
F08	Rn.11385	NM_013194	Myh9	Myosin, heavy chain 9, non-muscle
F09	Rn.163103	NM_182667	Myocd	Myocardin
F10	Rn.11283	NM_031521	Ncam1	Neural cell adhesion molecule 1
F11	Rn.44265	NM_021838	Nos3	Nitric oxide synthase 3, endothelial cell
F12	Rn.40132	NM_021576	Nt5e	5' nucleotidase, ecto
G01	Rn.1878	NM_031591	Pecam1	Platelet/endothelial cell adhesion molecule 1
G02	Rn.16746	NM_144741	Retn	Resistin
G03	Rn.103146	NM_001008847	RT1-Da	RT1 class II, locus Da
G04	Rn.31839	NM_053822	S100a8	S100 calcium binding protein A8
G05	Rn.10012	NM_013114	Selp	Selectin P
G06	Rn.54567	NM_147205	St6gal1	ST6 beta-galactosamide alpha-2,6-sialyltransferase 1
G07	Rn.9159	NM_001105737	Tek	TEK tyrosine kinase, endothelial
G08	Rn.48883	NM_013049	Tnfrsf4	Tumor necrosis factor receptor superfamily, member 4
G09	Rn.11322	NM_019135	Tnfrsf8	Tumor necrosis factor receptor superfamily, member 8
G10	Rn.10699	NM_019322	Tpsab1	Tryptase alpha/beta 1
G11	Rn.11267	NM_012889	Vcam1	Vascular cell adhesion molecule 1
G12	Rn.35561	XM_342759	Vwf	Von Willebrand factor
H01	Rn.94978	NM_031144	Actb	Actin, beta
H02	Rn.1868	NM_012512	B2m	Beta-2 microglobulin
H03	Rn.47	NM_012583	Hprt1	Hypoxanthine phosphoribosyltransferase 1
H04	Rn.107896	NM_017025	Ldha	Lactate dehydrogenase A
H05	Rn.973	NM_001007604	Rplp1	Ribosomal protein, large, P1
H06	N/A	U26919	RGDC	Rat 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.

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