

RT² Profiler PCR Array (Rotor-Gene® Format)

Rabbit Cell Surface Markers

Cat. no. 330231 PANZ-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 Rabbit 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 cyclers (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
1	Ocu.2195	XM_002716725	ALCAM	Activated leukocyte cell adhesion molecule
2	N/A	XM_002722868	C5AR1	C5a anaphylatoxin chemotactic receptor-like
3	N/A	XM_002723866	CCR6	Chemokine (C-C motif) receptor 6-like
4	N/A	XM_008259780	CD163	Scavenger receptor cysteine-rich type 1 protein M130-like
5	N/A	XM_002711879	CD19	Uncharacterized LOC100345233
6	Ocu.2515	NM_001089311	CD1A	CD1a molecule
7	Ocu.2516	NM_001082689	CD1C	CD1c molecule
8	Ocu.7541	NM_001160282	CD1D	CD1d molecule
9	N/A	XM_002715405	CD2	T-cell surface antigen CD2-like
10	N/A	XM_008266943	CD200R1	CD200 receptor 1-like
11	N/A	XM_002722022	CD209	CD209 antigen-like protein 2
12	N/A	XM_002722236	CD22	CD22 molecule
13	N/A	XM_008264210	CD244	CD244 natural killer cell receptor 2B4-like
14	Ocu.2398	NM_001082002	CD247	CD247 molecule
15	N/A	XM_008250266	CD276	CD276 molecule
16	Ocu.3056	NM_001082207	CD28	CD28 molecule
17	N/A	XM_008268471	CD34	CD34 antigen
18	Ocu.2565	XM_002712016	CD36	CD36 molecule (thrombospondin receptor)
19	N/A	XM_002724016	CD37	CD37 antigen
20	Ocu.1561	NM_001082683	CD38	CD38 molecule
21	N/A	XM_002722195	CD3D	T-cell surface glycoprotein CD3 delta chain-like
22	Ocu.2397	NM_001082001	CD3E	CD3e molecule, epsilon (CD3-TCR complex)
23	Ocu.1843	NM_001082313	CD4	CD4 molecule
24	N/A	XM_002721199	CD40	CD40 antigen
25	Ocu.8512	NM_001256781	CD40LG	CD40 ligand
26	Ocu.7518	XM_002709048	CD44	CD44 molecule (Indian blood group)
27	N/A	XM_002715223	CD48	CD48 molecule-like
28	Ocu.3185	NM_001082177	CD5	CD5 molecule
29	N/A	XM_008272070	CD6	CD6 molecule
30	Ocu.6241	NM_001082199	CD63	CD63 molecule
31	N/A	XM_002723968	CD70	Tumor necrosis factor ligand superfamily, member 7
32	N/A	XM_008269670	CD72	CD72 molecule
33	N/A	XM_008255262	CD74	CD74 antigen-like
34	N/A	XM_002719479	CD79B	CD79B antigen-like
35	Ocu.3057	NM_001082663	CD80	CD80 molecule
36	N/A	XM_008262521	CD83	CD83 antigen-like
37	Ocu.3058	NM_001082208	CD86	CD86 molecule
38	N/A	XM_002709594	CD8A	CD8 alpha chain-like

Position	UniGene	GenBank	Symbol	Description
39	N/A	XM_008254148	CD8B	CD8b molecule
40	N/A	XM_008266965	CD96	CD96 molecule
41	N/A	XM_002709929	CHST10	Carbohydrate sulfotransferase 10-like
42	N/A	XM_008271783	COL1A1	Collagen, type I, alpha 1
43	Ocu.6518	NM_001195668	COL1A2	Collagen, type I, alpha 2
44	N/A	XM_017347821	CR2	Complement C3d receptor 2
45	N/A	XM_008255253	CSF1R	Colony stimulating factor 1 receptor
46	Ocu.3059	NM_001082685	CTLA4	Cytotoxic T-lymphocyte-associated protein 4
47	Ocu.7379	XM_002722702	CXCR5	Chemokine (C-X-C motif) receptor 5
48	N/A	XM_008258668	DPP4	Dipeptidyl-peptidase 4
49	N/A	XM_008251029	ENG	Endoglin
50	N/A	XM_002709724	EPCAM	Tumor-associated calcium signal transducer 1-like
51	Ocu.2354	NM_001081995	FAS	Fas (TNF receptor superfamily, member 6)
52	N/A	XM_002715280	FCER1A	Fc fragment of IgE, high affinity I, receptor for; alpha polypeptide-like
53	N/A	XM_002722026	FCER2	Fc fragment of IgE, low affinity II, receptor for (CD23A)
54	N/A	XM_008255315	HAVCR1	Hepatitis A virus cellular receptor 1
55	N/A	XM_002719203	ICAM2	Intercellular adhesion molecule 2
56	N/A	XM_008265080	IL12RB2	Interleukin 12 receptor, beta 2
57	N/A	XM_002709884	IL1R1	Interleukin 1 receptor, type I
58	N/A	XM_008253249	IL1R2	Soluble type II IL-1 receptor-like
59	N/A	XM_008257908	IL4R	Interleukin 4 receptor
60	N/A	XM_008262192	ITGA1	Integrin, alpha 1
61	Ocu.7187	XM_008262193	ITGA2	Alpha 2 integrin
62	N/A	XM_008271311	ITGA3	Integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor)
63	N/A	XM_002721749	ITGAM	Integrin, alpha M (complement component 3 receptor 3 subunit)
64	N/A	XM_017343624	KLRB1	Killer cell lectin like receptor B1
65	N/A	XM_008256498	KRT18	Keratin 18-like
66	N/A	XM_002711001	KRT5	Keratin, type II cytoskeletal 5
67	N/A	XM_008256496	KRT8	Keratin 8
68	N/A	XM_002712771	LOC100348315	CD69 antigen (p60, early T-cell activation antigen)-like
69	N/A	XM_002709189	MS4A1	Membrane-spanning 4-domains, subfamily A, member 1
70	Ocu.2545	XM_008270736	MYH10	Myosin, heavy chain 10, non-muscle
71	Ocu.2544	XM_008257087	MYH9	Myosin, heavy chain 9, non-muscle
72	N/A	XM_008270708	MYOCD	Myocardin-like
73	N/A	XM_008261250	NCAM1	Neural cell adhesion molecule 1
74	Ocu.2500	NM_001082733	NOS3	Nitric oxide synthase 3 (endothelial cell)
75	N/A	XM_002714557	NT5E	5'-nucleotidase, ecto (CD73)
76	N/A	XM_008271715	PECAM1	Platelet/endothelial cell adhesion molecule 1
77	N/A	XM_008272471	PTPRJ	Protein tyrosine phosphatase, receptor type, J
78	Ocu.7998	NM_001199229	RETN	Resistin

Position	UniGene	GenBank	Symbol	Description
79	Ocu.2143	XM_002715343	S100A8	Macrophage migration inhibitory factor-related protein-8
80	N/A	XM_002716497	ST6GAL1	ST6 beta-galactosamide alpha-2,6-sialyltransferase 1
81	N/A	XM_008251051	TEK	TEK tyrosine kinase, endothelial
82	N/A	XM_008275378	TNFRSF8	Tumor necrosis factor receptor superfamily member 8-like
83	Ocu.3113	NM_001082152	VCAM1	Adhesion molecule VCAM-1
84	Ocu.3316	XM_008259716	VWF	Von Willebrand factor
85	Ocu.2090	NM_001101682	ACTA2	Actin, alpha 2, smooth muscle, aorta
86	Ocu.734	NM_001101683	ACTB	Actin, beta
87	Ocu.87	NM_001082253	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase
88	Ocu.1108	NM_001082277	LDHA	Lactate dehydrogenase A
89	N/A	XM_002723383	LOC100346936	Non-POU domain containing, octamer-binding-like
90	N/A	SA_00511	NGDC	Rabbit Genomic DNA Contamination
91	N/A	SA_00104	RTC	Reverse Transcription Control
92	N/A	SA_00104	RTC	Reverse Transcription Control
93	N/A	SA_00104	RTC	Reverse Transcription Control
94	N/A	SA_00103	PPC	Positive PCR Control
95	N/A	SA_00103	PPC	Positive PCR Control
96	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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