

RT² Profiler PCR Array (96-Well Format and 384-Well [4 x 96] Format)

Rabbit Cell Surface Markers

Cat. no. 330231 PANZ-055ZA

For pathway expression analysis

Format	For use with the following real-time cyclers
RT ² Profiler PCR Array, Format A	Applied Biosystems® models 5700, 7000, 7300, 7500, 7700, 7900HT, ViiA™ 7 (96-well block); Bio-Rad® models iCycler®, iQ™5, MyiQ™, MyiQ2; Bio-Rad/MJ Research Chromo4™; Eppendorf® Mastercycler® ep realplex models 2, 2s, 4, 4s; Stratagene® models Mx3005P®, Mx3000P®; Takara TP-800
RT ² Profiler PCR Array, Format C	Applied Biosystems models 7500 (Fast block), 7900HT (Fast block), StepOnePlus™, ViiA 7 (Fast block)
RT ² Profiler PCR Array, Format D	Bio-Rad CFX96™; Bio-Rad/MJ Research models DNA Engine Opticon®, DNA Engine Opticon 2; Stratagene Mx4000®
RT ² Profiler PCR Array, Format E	Applied Biosystems models 7900HT (384-well block), ViiA 7 (384-well block); Bio-Rad CFX384™
RT ² Profiler PCR Array, Format F	Roche® LightCycler® 480 (96-well block)
RT ² Profiler PCR Array, Format G	Roche LightCycler 480 (384-well block)
RT ² Profiler PCR Array, Format H	Fluidigm® BioMark™



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 formats A, C, D, E, F, and G are shipped at ambient temperature, on dry ice, or blue ice packs depending on destination and accompanying products. RT² Profiler PCR Arrays in format H are shipped on dry ice or blue ice packs.

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 (96-well)

For 384-well 4 x 96 PCR arrays, genes are present in a staggered format. Refer to the *RT² Profiler PCR Array Handbook* for layout.

	1	2	3	4	5	6	7	8	9	10	11	12
A	ALCAM	C5AR1	CCR6	CD163	CD19	CD1A	CD1C	CD1D	CD2	CD200R1	CD209	CD22
B	CD244	CD247	CD276	CD28	CD34	CD36	CD37	CD38	CD3D	CD3E	CD4	CD40
C	CD40LG	CD44	CD48	CD5	CD6	CD63	CD70	CD72	CD74	CD79B	CD80	CD83
D	CD86	CD8A	CD8B	CD96	CHST10	COL1A1	COL1A2	CR2	C5F1R	CTLA4	CXCR5	DPP4
E	ENG	EPCAM	FAS	FCER1A	FCER2	HAVCR1	ICAM2	IL12RB2	IL1R1	IL1R2	IL4R	ITGA1
F	ITGA2	ITGA3	ITGAM	KLRB1	KRT18	KRT5	KRT8	LOC100348315	MS4A1	MYH10	MYH9	MYOCD
G	NCAM1	NOS3	NT5E	PECAM1	PTPRJ	RETN	S100A8	ST6GAL1	TEK	TNFRSF8	VCAM1	VWF
H	ACTA2	ACTB	GAPDH	LDHA	LOC100346936	NGDC	RTC	RTC	RTC	PPC	PPC	PPC

Gene table: RT² Profiler PCR Array

Position	UniGene	GenBank	Symbol	Description
A01	Ocu.2195	XM_002716725	ALCAM	Activated leukocyte cell adhesion molecule
A02	N/A	XM_002722868	C5AR1	C5a anaphylatoxin chemotactic receptor-like
A03	N/A	XM_002723866	CCR6	Chemokine (C-C motif) receptor 6-like
A04	N/A	XM_008259780	CD163	Scavenger receptor cysteine-rich type 1 protein M130-like
A05	N/A	XM_002711879	CD19	Uncharacterized LOC100345233
A06	Ocu.2515	NM_001089311	CD1A	CD1a molecule
A07	Ocu.2516	NM_001082689	CD1C	CD1c molecule
A08	Ocu.7541	NM_001160282	CD1D	CD1d molecule
A09	N/A	XM_002715405	CD2	T-cell surface antigen CD2-like
A10	N/A	XM_008266943	CD200R1	CD200 receptor 1-like
A11	N/A	XM_002722022	CD209	CD209 antigen-like protein 2
A12	N/A	XM_002722236	CD22	CD22 molecule
B01	N/A	XM_008264210	CD244	CD244 natural killer cell receptor 2B4-like
B02	Ocu.2398	NM_001082002	CD247	CD247 molecule
B03	N/A	XM_008250266	CD276	CD276 molecule
B04	Ocu.3056	NM_001082207	CD28	CD28 molecule
B05	N/A	XM_008268471	CD34	CD34 antigen
B06	Ocu.2565	XM_002712016	CD36	CD36 molecule (thrombospondin receptor)
B07	N/A	XM_002724016	CD37	CD37 antigen
B08	Ocu.1561	NM_001082683	CD38	CD38 molecule
B09	N/A	XM_002722195	CD3D	T-cell surface glycoprotein CD3 delta chain-like
B10	Ocu.2397	NM_001082001	CD3E	CD3e molecule, epsilon (CD3-TCR complex)
B11	Ocu.1843	NM_001082313	CD4	CD4 molecule
B12	N/A	XM_002721199	CD40	CD40 antigen

Position	UniGene	GenBank	Symbol	Description
C01	Ocu.8512	NM_001256781	CD40LG	CD40 ligand
C02	Ocu.7518	XM_002709048	CD44	CD44 molecule (Indian blood group)
C03	N/A	XM_002715223	CD48	CD48 molecule-like
C04	Ocu.3185	NM_001082177	CD5	CD5 molecule
C05	N/A	XM_008272070	CD6	CD6 molecule
C06	Ocu.6241	NM_001082199	CD63	CD63 molecule
C07	N/A	XM_002723968	CD70	Tumor necrosis factor ligand superfamily, member 7
C08	N/A	XM_008269670	CD72	CD72 molecule
C09	N/A	XM_008255262	CD74	CD74 antigen-like
C10	N/A	XM_002719479	CD79B	CD79B antigen-like
C11	Ocu.3057	NM_001082663	CD80	CD80 molecule
C12	N/A	XM_008262521	CD83	CD83 antigen-like
D01	Ocu.3058	NM_001082208	CD86	CD86 molecule
D02	N/A	XM_002709594	CD8A	CD8 alpha chain-like
D03	N/A	XM_008254148	CD8B	CD8b molecule
D04	N/A	XM_008266965	CD96	CD96 molecule
D05	N/A	XM_002709929	CHST10	Carbohydrate sulfotransferase 10-like
D06	N/A	XM_008271783	COL1A1	Collagen, type I, alpha 1
D07	Ocu.6518	NM_001195668	COL1A2	Collagen, type I, alpha 2
D08	N/A	XM_017347821	CR2	Complement C3d receptor 2
D09	N/A	XM_008255253	CSF1R	Colony stimulating factor 1 receptor
D10	Ocu.3059	NM_001082685	CTLA4	Cytotoxic T-lymphocyte-associated protein 4
D11	Ocu.7379	XM_002722702	CXCR5	Chemokine (C-X-C motif) receptor 5
D12	N/A	XM_008258668	DPP4	Dipeptidyl-peptidase 4
E01	N/A	XM_008251029	ENG	Endoglin
E02	N/A	XM_002709724	EPCAM	Tumor-associated calcium signal transducer 1-like
E03	Ocu.2354	NM_001081995	FAS	Fas (TNF receptor superfamily, member 6)
E04	N/A	XM_002715280	FCER1A	Fc fragment of IgE, high affinity I, receptor for; alpha polypeptide-like
E05	N/A	XM_002722026	FCER2	Fc fragment of IgE, low affinity II, receptor for (CD23A)
E06	N/A	XM_008255315	HAVCR1	Hepatitis A virus cellular receptor 1
E07	N/A	XM_002719203	ICAM2	Intercellular adhesion molecule 2
E08	N/A	XM_008265080	IL12RB2	Interleukin 12 receptor, beta 2
E09	N/A	XM_002709884	IL1R1	Interleukin 1 receptor, type I
E10	N/A	XM_008253249	IL1R2	Soluble type II IL-1 receptor-like
E11	N/A	XM_008257908	IL4R	Interleukin 4 receptor
E12	N/A	XM_008262192	ITGA1	Integrin, alpha 1
F01	Ocu.7187	XM_008262193	ITGA2	Alpha 2 integrin
F02	N/A	XM_008271311	ITGA3	Integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor)
F03	N/A	XM_002721749	ITGAM	Integrin, alpha M (complement component 3 receptor 3 subunit)
F04	N/A	XM_017343624	KLRB1	Killer cell lectin like receptor B1

Position	UniGene	GenBank	Symbol	Description
F05	N/A	XM_008256498	KRT18	Keratin 18-like
F06	N/A	XM_002711001	KRT5	Keratin, type II cytoskeletal 5
F07	N/A	XM_008256496	KRT8	Keratin 8
F08	N/A	XM_002712771	LOC100348315	CD69 antigen (p60, early T-cell activation antigen)-like
F09	N/A	XM_002709189	MS4A1	Membrane-spanning 4-domains, subfamily A, member 1
F10	Ocu.2545	XM_008270736	MYH10	Myosin, heavy chain 10, non-muscle
F11	Ocu.2544	XM_008257087	MYH9	Myosin, heavy chain 9, non-muscle
F12	N/A	XM_008270708	MYOCD	Myocardin-like
G01	N/A	XM_008261250	NCAM1	Neural cell adhesion molecule 1
G02	Ocu.2500	NM_001082733	NOS3	Nitric oxide synthase 3 (endothelial cell)
G03	N/A	XM_002714557	NT5E	5'-nucleotidase, ecto (CD73)
G04	N/A	XM_008271715	PECAM1	Platelet/endothelial cell adhesion molecule 1
G05	N/A	XM_008272471	PTPRJ	Protein tyrosine phosphatase, receptor type, J
G06	Ocu.7998	NM_001199229	RETN	Resistin
G07	Ocu.2143	XM_002715343	S100A8	Macrophage migration inhibitory factor-related protein-8
G08	N/A	XM_002716497	ST6GAL1	ST6 beta-galactosamide alpha-2,6-sialyltransferase 1
G09	N/A	XM_008251051	TEK	TEK tyrosine kinase, endothelial
G10	N/A	XM_008275378	TNFRSF8	Tumor necrosis factor receptor superfamily member 8-like
G11	Ocu.3113	NM_001082152	VCAM1	Adhesion molecule VCAM-1
G12	Ocu.3316	XM_008259716	VWF	Von Willebrand factor
H01	Ocu.2090	NM_001101682	ACTA2	Actin, alpha 2, smooth muscle, aorta
H02	Ocu.734	NM_001101683	ACTB	Actin, beta
H03	Ocu.87	NM_001082253	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase
H04	Ocu.1108	NM_001082277	LDHA	Lactate dehydrogenase A
H05	N/A	XM_002723383	LOC100346936	Non-POU domain containing, octamer-binding-like
H06	N/A	SA_00511	NGDC	Rabbit 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 qPCR Mastermix (2)*	For 2 x 96 assays in 96-well plates; suitable for use with real-time cyclers that do not require a reference dye, including: Bio-Rad models CFX96, CFX384, DNA Engine Opticon 2; Bio-Rad/MJ Research Chromo4; Roche LightCycler 480 (96-well and 384-well); all other cyclers	330500
RT ² SYBR Green ROX [™] qPCR Mastermix (2)*	For 2 x 96 assays in 96-well plates; suitable for use with the following real-time cyclers: Applied Biosystems models 5700, 7000, 7300, 7500 [Standard and FAST], 7700, 7900HT 96-well block [Standard and FAST] and 384-well block, StepOnePlus; Eppendorf Mastercycler ep realplex models 2, 2S, 4, 4S; Stratagene models Mx3000P, Mx3005P, Mx4000; Takara TP-800	330520
RT ² SYBR Green Fluor qPCR Mastermix (2)*	For 2 x 96 assays in 96-well plates; suitable for use with the following real-time cyclers: Bio-Rad models iCycler, iQ5, MyiQ, MyiQ2	330510

* 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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