

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

Cat. no. 330231 PABT-074Z

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™



Sample & Assay Technologies

Description

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 cycler (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	BTLA	CBLB	CCL3	CCR4	CD27	CD274	CD28	CD40	CD40LG	CD70	CDK2	CDK4
B	CSF1	CSF2	CTLA4	DGKA	DGKZ	EGR2	EGR3	EOMES	FAS	FASLG	FOS	FOXP1
C	FOXP2	FOXP3	GATA3	GZMK	HDAC9	ICAM1	ICOS	IFNG	IL10	IL10RA	IL13	IL15
D	IL17A	IL1A	IL2	IL2RA	IL2RB	IL31	IL4	IL5	IL6	IL7R	ING4	IRF4
E	ITCH	ITGA1	JAK1	JAK3	JUN	LAT	LEP	LGALS3	LOC1049684 44	LTA	MEF2A	NFATC1
F	NFATC2	NFATC3	NFKB1	NHLH2	NOTCH1	PDCD1	PDCD1LG2	PRF1	PRKCG	PTGER2	PTGS2	RNF128
G	SELL	STAT3	STAT6	TBX21	TGFB1	TNFRSF18	TNFRSF4	TNFRSF8	TNFRSF9	TNFSF10	TNFSF14	TNFSF8
H	ACTB	GAPDH	HPRT1	TBP	YWHAZ	BGDC	RTC	RTC	RTC	PPC	PPC	PPC

Gene table: RT² Profiler PCR Array

Position	UniGene	GenBank	Symbol	Description	Assay
A01	N/A	XM_005201353	BTLA	B and T lymphocyte associated	PPB20426A
A02	Bt.53081	NM_001205923	CBLB	Cas-Br-M (murine) ecotropic retroviral transforming sequence b	PPB08294A
A03	Bt.9974	NM_174511	CCL3	Chemokine (C-C motif) ligand 3	PPB00922A
A04	Bt.29981	NM_001100293	CCR4	Chemokine (C-C motif) receptor 4	PPB01847A
A05	Bt.16237	NM_001082434	CD27	CD27 molecule	PPB05261A
A06	Bt.101480	NM_001163412	CD274	CD274 molecule	PPB09730A
A07	Bt.48	NM_181004	CD28	CD28 molecule	PPB00212A
A08	Bt.42498	NM_001105611	CD40	CD40 molecule, TNF receptor superfamily member 5	PPB01298A
A09	Bt.49	NM_174624	CD40LG	CD40 ligand	PPB01062A
A10	N/A	XM_002688908	CD70	CD70 molecule	PPB07687A
A11	Bt.21444	NM_001014934	CDK2	Cyclin-dependent kinase 2	PPB07231A
A12	Bt.4661	NM_001037594	CDK4	Cyclin-dependent kinase 4	PPB04527A
B01	Bt.366	NM_174026	CSF1	Colony stimulating factor 1 (macrophage)	PPB00240A
B02	Bt.509	NM_174027	CSF2	Colony stimulating factor 2 (granulocyte-macrophage)	PPB00241A
B03	Bt.19143	NM_174297	CTLA4	Cytotoxic T-lymphocyte-associated protein 4	PPB00628A
B04	Bt.103018	NM_001077860	DGKA	Diacylglycerol kinase, alpha 80kDa	PPB02884A
B05	Bt.62093	NM_001278652	DGKZ	Diacylglycerol kinase, zeta	PPB05036A
B06	N/A	XM_002698852	EGR2	Early growth response 2 protein-like	PPB18815A
B07	N/A	NM_001289818	EGR3	Early growth response 3	PPB08340A
B08	Bt.56198	NM_001191188	EOMES	Eomesodermin	PPB05063A
B09	Bt.4345	NM_174662	FAS	Fas (TNF receptor superfamily, member 6)	PPB01111A
B10	Bt.28024	NM_001098859	FASLG	Fas ligand	PPB01735A
B11	Bt.52605	NM_182786	FOS	FBJ murine osteosarcoma viral oncogene homolog	PPB00062A
B12	Bt.17953	NM_001083689	FOXP1	Forkhead box P1	PPB06623A
C01	Bt.27586	NM_001205569	FOXP2	Forkhead box P2	PPB02529A
C02	Bt.59537	NM_001045933	FOXP3	Forkhead box P3	PPB02762A
C03	Bt.31666	NM_001076804	GATA3	GATA binding protein 3	PPB02400A
C04	Bt.101478	NM_001205959	GZMK	Granzyme K (granzyme 3; tryptase II)	PPB08764A
C05	N/A	XM_005198016	HDAC9	Histone deacetylase 9	PPB10265A
C06	Bt.5372	NM_174348	ICAM1	Intercellular adhesion molecule 1	PPB00701A
C07	Bt.24712	NM_001034275	ICOS	Inducible T-cell co-stimulator	PPB03133A
C08	Bt.188	NM_174086	IFNG	Interferon, gamma	PPB00336A
C09	Bt.4723	NM_174088	IL10	Interleukin 10	PPB00339A
C10	Bt.24247	NM_001205757	IL10RA	Interleukin 10 receptor, alpha	PPB05630A
C11	Bt.12928	NM_174089	IL13	Interleukin 13	PPB00340A
C12	Bt.522	NM_174090	IL15	Interleukin 15	PPB00341A
D01	Bt.12772	NM_001008412	IL17A	Interleukin 17A	PPB01218A
D02	Bt.191	NM_174092	IL1A	Interleukin 1, alpha	PPB00343A
D03	Bt.341	NM_180997	IL2	Interleukin 2	PPB00080A
D04	Bt.3941	NM_174358	IL2RA	Interleukin 2 receptor, alpha	PPB00712A
D05	N/A	XM_015463408	IL2RB	Interleukin 2 receptor subunit beta	PPB20427A
D06	N/A	XM_015467109	IL31	Interleukin 31	PPB20428A
D07	Bt.423	NM_173921	IL4	Interleukin 4	PPB00082A

Position	UniGene	GenBank	Symbol	Description	Assay
D08	Bt.5	NM_173922	IL5	Interleukin 5 (colony-stimulating factor, eosinophil)	PPB00083A
D09	Bt.3686	NM_173923	IL6	Interleukin 6 (interferon, beta 2)	PPB00084A
D10	Bt.88409	NM_001205887	IL7R	Interleukin 7 receptor	PPB07604A
D11	Bt.48844	NM_001035389	ING4	Inhibitor of growth family, member 4	PPB09316A
D12	Bt.60671	NM_001206162	IRF4	Interferon regulatory factor 4	PPB02798A
E01	Bt.8905	NM_001082428	ITCH	Itchy E3 ubiquitin protein ligase homolog (mouse)	PPB03688A
E02	N/A	XM_616068	ITGA1	Integrin, alpha 1	PPB10375A
E03	Bt.40750	NM_001206534	JAK1	Janus kinase 1	PPB10576A
E04	N/A	XM_010798159	JAK3	Tyrosine-protein kinase JAK3-like	PPB16956A
E05	Bt.11159	NM_001077827	JUN	Jun proto-oncogene	PPB00089A
E06	Bt.26847	NM_001104978	LAT	Linker for activation of T cells	PPB06145A
E07	Bt.1939	NM_173928	LEP	Leptin	PPB00093A
E08	Bt.1416	NM_001102341	LGALS3	Lectin, galactoside-binding, soluble, 3	PPB15336A
E09	N/A	XM_010808051	LOC104968444	Tumor necrosis factor receptor superfamily member 10B-like	PPB20429A
E10	Bt.37345	NM_001013401	LTA	Lymphotoxin alpha (TNF superfamily, member 1)	PPB00100A
E11	Bt.25066	NM_001083638	MEF2A	Myocyte enhancer factor 2A	PPB01814A
E12	Bt.45162	NM_001166615	NFATC1	Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1	PPB04778A
F01	Bt.88008	XM_002692357	NFATC2	Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2	PPB09001A
F02	Bt.54864	NM_001192831	NFATC3	Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3	PPB12320A
F03	Bt.60919	NM_001076409	NFKB1	Nuclear factor of kappa light polypeptide gene enhancer in B-cells 1	PPB13498A
F04	Bt.46270	NM_001110003	NHLH2	Nescient helix loop helix 2	PPB08263A
F05	Bt.53527	XM_010810569	NOTCH1	Notch homolog 1, translocation-associated (Drosophila)	PPB14501A
F06	Bt.3373	NM_001083506	PDCD1	Programmed cell death 1	PPB12656A
F07	N/A	NM_001292036	PDCD1LG2	Programmed cell death 1 ligand 2	PPB11361A
F08	Bt.21975	NM_001143735	PRF1	Perforin 1 (pore forming protein)	PPB01614A
F09	Bt.12762	NM_001166502	PRKCG	Protein kinase C, gamma	PPB00810A
F10	Bt.12301	NM_174588	PTGER2	Prostaglandin E receptor 2 (subtype EP2), 53kDa	PPB01019A
F11	Bt.15758	NM_174445	PTGS2	Prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)	PPB00826A
F12	Bt.29416	NM_001076071	RNF128	Ring finger protein 128	PPB10361A
G01	Bt.2314	NM_174182	SELL	Selectin L	PPB00465A
G02	Bt.15334	NM_001012671	STAT3	Signal transducer and activator of transcription 3 (acute-phase response factor)	PPB03726A
G03	Bt.106674	NM_001205501	STAT6	Signal transducer and activator of transcription 6, interleukin-4 induced	PPB01565A
G04	Bt.44725	NM_001192140	TBX21	T-box 21	PPB11103A
G05	Bt.469	NM_001166068	TGFB1	Transforming growth factor, beta 1	PPB00861A
G06	Bt.20012	NM_001184950	TNFRSF18	Tumor necrosis factor receptor superfamily, member 18	PPB06725A
G07	Bt.62153	NM_001099043	TNFRSF4	Tumor necrosis factor receptor superfamily, member 4	PPB08747A
G08	N/A	XM_002694054	TNFRSF8	Tumor necrosis factor receptor superfamily, member 8	PPB13005A
G09	Bt.49346	NM_001035336	TNFRSF9	Tumor necrosis factor receptor superfamily, member 9	PPB07429A
G10	N/A	XM_002684917	TNFSF10	Tumor necrosis factor (ligand) superfamily, member 10	PPB03218A
G11	Bt.64160	NM_001101855	TNFSF14	Tumor necrosis factor (ligand) superfamily, member 14	PPB02541A
G12	Bt.44261	NM_001025207	TNFSF8	Tumor necrosis factor (ligand) superfamily, member 8	PPB12431A
H01	Bt.14186	NM_173979	ACTB	Actin, beta	PPB00173A
H02	Bt.87389	NM_001034034	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase	PPB00298A
H03	Bt.49238	NM_001034035	HPRT1	Hypoxanthine phosphoribosyltransferase 1	PPB00330A
H04	Bt.22662	NM_001075742	TBP	TATA box binding protein	PPB06797A
H05	Bt.111451	NM_174814	YWHAZ	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide	PPB01343A
H06	N/A	SA_00137	BGDC	Cow Genomic DNA Contamination	PPB71596A
H07	N/A	SA_00104	RTC	Reverse Transcription Control	PPX63340A
H08	N/A	SA_00104	RTC	Reverse Transcription Control	PPX63340A
H09	N/A	SA_00104	RTC	Reverse Transcription Control	PPX63340A
H10	N/A	SA_00103	PPC	Positive PCR Control	PPX63339A
H11	N/A	SA_00103	PPC	Positive PCR Control	PPX63339A
H12	N/A	SA_00103	PPC	Positive PCR Control	PPX63339A

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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