RT² Profiler PCR Array (Rotor-Gene® Format) Mouse Common Cytokines

Cat. no. 330231 PAMM-021ZR

For pathway expression analysis

Format	For use with the following real-time cyclers		
RT ² Profiler PCR Array,	Rotor-Gene Q, other Rotor-Gene cyclers		
Format R			

Description

The Mouse Common Cytokines RT² Profiler PCR Array profiles the expression of 84 important cytokine genes. This array includes interferons and interleukins as well as the bone morphogenetic proteins (BMP) and members of the TGF-B family. Also represented are platelet-derived and vascular endothelial growth factors. Tumor necrosis factors are included as well as other cytokine-related genes. Using real-time PCR, you can easily and reliably analyze expression of a focused panel of genes related to cytokines 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.3969	NM_009605	Adipoq	Adiponectin, C1Q and collagen domain containing	
A02	Mm.235137	NM_007926	Aimp1	Aminoacyl tRNA synthetase complex-interacting multifunctional protein 1	
A03	Mm.27757	NM_009755	Bmp1	Bone morphogenetic protein 1	
A04	Mm.103205	NM 007553	Bmp2	Bone morphogenetic protein 2	
A05	Mm.209571	NM_173404	Bmp3	Bone morphogenetic protein 3	
A06	Mm.6813	NM 007554	Bmp4	Bone morphogenetic protein 4	
A07	Mm.428950	NM 007555	Bmp5	Bone morphogenetic protein 5	
A08	Mm.385759	NM 007556	Bmp6	Bone morphogenetic protein 6	
A09	Mm.595	NM 007557	Bmp7	Bone morphogenetic protein 7	
A10	Mm.4861	NM 011616	Cd40lg	CD40 ligand	
A11	Mm.42228	NM 011617	Cd70	CD70 antigen	
A12	Mm.290924	NM 170786	Cntf	Ciliary neurotrophic factor	
B01	Mm.795	NM 007778	Csf1	Colony stimulating factor 1 (macrophage)	
B01	Mm.4922	NM 009969	Csf2	, , , , , , ,	
B02	Mm.1238	NM 009971	Csf2	Colony stimulating factor 2 (granulocyte-macrophage)	
B03	Mm.1236 Mm.389954		Csf3	Colony stimulating factor 3 (granulocyte)	
		NM_007795		Cardiotrophin 1	
B05	Mm.3355	NM_010177	Fasl	Fas ligand (TNF superfamily, member 6)	
B06	Mm.317323	NM_008002	Fgf10	Fibroblast growth factor 10	
B07	Mm.31325	NM_011819	Gdf15	Growth differentiation factor 15	
B08	Mm.422844	NM_019506	Gdf2	Growth differentiation factor 2	
B09	Mm.4744	NM_008109	Gdf5	Growth differentiation factor 5	
B10	Mm.9714	NM_008110	Gdf9	Growth differentiation factor 9	
B11	Mm.14091	NM_010503	Ifna2	Interferon alpha 2	
B12	Mm.377088	NM_010504	Ifna4	Interferon alpha 4	
C01	Mm.1245	NM_010510	lfnb1	Interferon beta 1, fibroblast	
C02	Mm.240327	NM_008337	lfng	Interferon gamma	
C03	Mm.874	NM_010548	II10	Interleukin 10	
C04	Mm.35814	NM_008350	II11	Interleukin 11	
C05	Mm.239707	NM_008352	II12b	Interleukin 12B	
C06	Mm.1284	NM 008355	II13	Interleukin 13	
C07	Mm.4392	NM 008357	II15	Interleukin 15	
C08	Mm.10137	NM 010551	II16	Interleukin 16	
C09	Mm.5419	NM 010552	II17a	Interleukin 17A	
C10	Mm.59313	NM 019508	II17b	Interleukin 17B	
C11	Mm.222808	NM 145834	II17c	Interleukin 17C	
C12	Mm.222807	NM 145856	II17f	Interleukin 17F	
D01	Mm.1410	NM 008360	II18	Interleukin 18	
D02	Mm.131480	NM 001009940	1119	Interleukin 19	
D03	Mm.15534	NM 010554	II1a	Interleukin 1 alpha	
D04	Mm.222830	NM 008361	II1b	Interleukin 1 beta	
D04	Mm.882	NM 031167	II1b	Interleukin 1 receptor antagonist	
D05	Mm.14190	NM 008366	II2	Interleukin 1 receptor antagonisi	
D06	Mm.14190 Mm.103794	NM 021380	1120	Interleukin 20	
D07	Mm.103/94 Mm.157689	NM_021380 NM 021782	1120		
D08			1121 1123a	Interleukin 21	
	Mm.125482	NM_031252		Interleukin 23, alpha subunit p19	
D10	Mm.196691	NM_053095	1124	Interleukin 24	
D11	Mm.90154	NM_080729	II25	Interleukin 25	
D12	Mm.222632	NM_145636	II27	Interleukin 27	
E01	Mm.983	NM_010556	II3	Interleukin 3	
E02	Mm.276360	NM_021283	114	Interleukin 4	
E03	Mm.4461	NM_010558	II5	Interleukin 5	
E04	Mm.1019	NM_031168	116	Interleukin 6	
E05	Mm.3825	NM_008371	117	Interleukin 7	
E06	Mm.3006	NM_008373	II9	Interleukin 9	
E07	Mm.1100	NM_010564	Inha	Inhibin alpha	
E08	Mm.8042	NM_008380	Inhba	Inhibin beta-A	
		NM 010094	Lefty1	Left right determination factor 1	

Position	UniGene	GenBank	Symbol	Description	
E10	Mm.4964	NM_008501	Lif	Leukemia inhibitory factor	
E11	Mm.87787	NM_010735	Lta	Lymphotoxin A	
E12	Mm.1715	NM_008518	Ltb	Lymphotoxin B	
F01	Mm.2326	NM_010798	Mif	Macrophage migration inhibitory factor	
F02	Mm.3514	NM_010834	Mstn	Myostatin	
F03	Mm.202727	NM_021524	Nampt	Nicotinamide phosphoribosyltransferase	
F04	Mm.131422	NM_001013365	Osm	Oncostatin M	
F05	Mm.22802	NM_170727	Scgb3a1	Secretoglobin, family 3A, member 1	
F06	Mm.288474	NM_009263	Spp1	Secreted phosphoprotein 1	
F07	Mm.248380	NM_011577	Tgfb1	Transforming growth factor, beta 1	
F08	Mm.18213	NM_009367	Tgfb2	Transforming growth factor, beta 2	
F09	Mm.3943	NM_009379	Thpo	Thrombopoietin	
F10	Mm.1293	NM_013693	Tnf	Tumor necrosis factor	
F11	Mm.15383	NM_008764	Tnfrsf11b	Tumor necrosis factor receptor superfamily, member 11b (osteoprotegerin)	
F12	Mm.1062	NM_009425	Tnfsf10	Tumor necrosis factor (ligand) superfamily, member 10	
G01	Mm.249221	NM_011613	Tnfsf11	Tumor necrosis factor (ligand) superfamily, member 11	
G02	Mm.344820	NM_011614	Tnfsf12	Tumor necrosis factor (ligand) superfamily, member 12	
G03	Mm.8983	NM_023517	Tnfsf13	Tumor necrosis factor (ligand) superfamily, member 13	
G04	Mm.28835	NM_033622	Tnfsf13b	Tumor necrosis factor (ligand) superfamily, member 13b	
G05	Mm.483369	NM_019418	Tnfsf14	Tumor necrosis factor (ligand) superfamily, member 14	
G06	Mm.208152	NM_177371	Tnfsf15	Tumor necrosis factor (ligand) superfamily, member 15	
G07	Mm.276823	NM_183391	Tnfsf18	Tumor necrosis factor (ligand) superfamily, member 18	
G08	Mm.4994	NM_009452	Tnfsf4	Tumor necrosis factor (ligand) superfamily, member 4	
G09	Mm.4664	NM_009403	Tnfsf8	Tumor necrosis factor (ligand) superfamily, member 8	
G10	Mm.41171	NM_009404	Tnfsf9	Tumor necrosis factor (ligand) superfamily, member 9	
G11	Mm.268863	NM_001005506	Txlna	Taxilin alpha	
G12	Mm.282184	NM_009505	Vegfa	Vascular endothelial growth factor A	
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.giagen. com or can be requested from QIAGEN Technical Services or your local distributor.

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