

RT² Profiler PCR Array (Rotor-Gene® Format)

Mouse Hematopoiesis

Cat. no. 330231 PAMM-054ZR

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 Mouse Hematopoiesis RT² Profiler PCR Array profiles the expression of 84 genes related to the development of blood-cell lineages from HSCs through progenitor stem cells. Blood cell lineage-specific molecular markers are represented on this array. The cytokines, signaling molecules, and other regulators that are important in stem cell commitment and differentiation are included as well. Using real-time PCR, you can easily and reliably analyze expression of a focused panel of genes related to hematopoietic stem cells and hematopoiesis 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.



Sample & Assay Technologies

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.423023	NM_133245	Ahsp	Alpha hemoglobin stabilizing protein
A02	Mm.309336	NM_009640	Angpt1	Angiotensinogen 1
A03	Mm.384171	NM_007462	Apc	Adenomatous polyposis coli
A04	Mm.27706	NM_011791	Ash2l	Ash2 (absent, small, or homeotic)-like (Drosophila)
A05	Mm.9749	NM_008528	Blnk	B-cell linker
A06	Mm.2018	NM_022309	Cbfb	Core binding factor beta
A07	Mm.274927	NM_009912	Ccr1	Chemokine (C-C motif) receptor 1
A08	Mm.3460	NM_009841	Cd14	CD14 antigen
A09	Mm.269815	NM_016898	Cd164	CD164 antigen
A10	Mm.1894	NM_007639	Cd1d1	CD1d1 antigen
A11	Mm.22842	NM_013486	Cd2	CD2 antigen
A12	Mm.367714	NM_001033126	Cd27	CD27 antigen
B01	Mm.29798	NM_133654	Cd34	CD34 antigen
B02	Mm.4527	NM_013487	Cd3d	CD3 antigen, delta polypeptide
B03	Mm.335106	NM_009850	Cd3g	CD3 antigen, gamma polypeptide
B04	Mm.2209	NM_013488	Cd4	CD4 antigen
B05	Mm.423621	NM_009851	Cd44	CD44 antigen
B06	Mm.89474	NM_009855	Cd80	CD80 antigen
B07	Mm.1452	NM_019388	Cd86	CD86 antigen
B08	Mm.1858	NM_001081110	Cd8a	CD8 antigen, alpha chain
B09	Mm.236223	NM_207131	Cebpe	CCAAT/enhancer binding protein (C/EBP), epsilon
B10	Mm.273090	NM_009884	Cebpg	CCAAT/enhancer binding protein (C/EBP), gamma
B11	Mm.795	NM_007778	Csf1	Colony stimulating factor 1 (macrophage)
B12	Mm.4922	NM_009969	Csf2	Colony stimulating factor 2 (granulocyte-macrophage)
C01	Mm.4875	NM_007865	Dll1	Delta-like 1 (Drosophila)
C02	Mm.292415	NM_011808	Ets1	E26 avian leukemia oncogene 1, 5' domain
C03	Mm.269995	NM_007961	Etv6	Ets variant gene 6 (TEL oncogene)
C04	Mm.1658	NM_013520	Fli3l	FMS-like tyrosine kinase 3 ligand
C05	Mm.334477	NM_134161	Fut10	Fucosyltransferase 10
C06	Mm.246003	NM_021457	Fzd1	Frizzled homolog 1 (Drosophila)
C07	Mm.335973	NM_008089	Gata1	GATA binding protein 1
C08	Mm.272747	NM_008090	Gata2	GATA binding protein 2
C09	Mm.318567	NM_207225	Hdac4	Histone deacetylase 4
C10	Mm.22665	NM_010412	Hdac5	Histone deacetylase 5
C11	Mm.384027	NM_019572	Hdac7	Histone deacetylase 7
C12	Mm.310551	NM_024124	Hdac9	Histone deacetylase 9
D01	Mm.874	NM_010548	Il10	Interleukin 10
D02	Mm.35814	NM_008350	Il11	Interleukin 11
D03	Mm.239707	NM_008352	Il12b	Interleukin 12B
D04	Mm.15534	NM_010554	Il1a	Interleukin 1 alpha
D05	Mm.14190	NM_008366	Il2	Interleukin 2
D06	Mm.103794	NM_021380	Il20	Interleukin 20
D07	Mm.90154	NM_080729	Il25	Interleukin 25
D08	Mm.380801	NM_139299	Il31ra	Interleukin 31 receptor A
D09	Mm.4364	NM_010560	Il6st	Interleukin 6 signal transducer
D10	Mm.1100	NM_010564	Inha	Inhibin alpha
D11	Mm.8042	NM_008380	Inhba	Inhibin beta-A
D12	Mm.22398	NM_013822	Jag1	Jagged 1
E01	Mm.186146	NM_010588	Jag2	Jagged 2
E02	Mm.285	NM_010612	Kdr	Kinase insert domain protein receptor
E03	Mm.247073	NM_021099	Kit	Kit oncogene
E04	Mm.45124	NM_013598	Kitl	Kit ligand
E05	Mm.255219	NM_010703	Lef1	Lymphoid enhancer binding factor 1
E06	Mm.29266	NM_008505	Lmo2	LIM domain only 2
E07	Mm.843	NM_008511	Lrmp	Lymphoid-restricted membrane protein
E08	Mm.39040	NM_010762	Mal	Myelin and lymphocyte protein, T-cell differentiation protein
E09	Mm.148278	NM_008279	Map4k1	Mitogen-activated protein kinase kinase kinase kinase 1

Position	UniGene	GenBank	Symbol	Description
E10	Mm.4406	NM_013599	Mmp9	Matrix metalloproteinase 9
E11	Mm.27592	NM_019825	Ncoa6	Nuclear receptor coactivator 6
E12	Mm.2893	NM_010927	Nos2	Nitric oxide synthase 2, inducible
F01	Mm.290610	NM_008714	Notch1	Notch gene homolog 1 (Drosophila)
F02	Mm.254017	NM_010928	Notch2	Notch gene homolog 2 (Drosophila)
F03	Mm.173813	NM_010929	Notch4	Notch gene homolog 4 (Drosophila)
F04	Mm.439659	NM_008782	Pax5	Paired box gene 5
F05	Mm.343951	NM_008816	Pecam1	Platelet/endothelial cell adhesion molecule 1
F06	Mm.332490	NM_019932	Pf4	Platelet factor 4
F07	Mm.391573	NM_011210	Plprc	Protein tyrosine phosphatase, receptor type, C
F08	Mm.209292	NM_009035	Rbpj	Recombination signal binding protein for immunoglobulin kappa J region
F09	Mm.4081	NM_009821	Runx1	Runt related transcription factor 1
F10	Mm.134191	NM_027324	Sfxn1	Sideroflexin 1
F11	Mm.126885	NM_019654	Socs5	Suppressor of cytokine signaling 5
F12	Mm.288474	NM_009263	Spp1	Secreted phosphoprotein 1
G01	Mm.277406	NM_009283	Stat1	Signal transducer and activator of transcription 1
G02	Mm.249934	NM_011486	Stat3	Signal transducer and activator of transcription 3
G03	Mm.265985	NM_001081103	Stim2	Stromal interaction molecule 2
G04	Mm.439685	NM_011527	Tal1	T-cell acute lymphocytic leukemia 1
G05	Mm.14313	NM_013690	Tek	Endothelial-specific receptor tyrosine kinase
G06	Mm.33874	NM_126166	Tlr3	Toll-like receptor 3
G07	Mm.38049	NM_021297	Tlr4	Toll-like receptor 4
G08	Mm.249221	NM_011613	Tnfrsf11	Tumor necrosis factor (ligand) superfamily, member 11
G09	Mm.299155	NM_011280	Trim10	Tripartite motif-containing 10
G10	Mm.248172	NM_011691	Vav1	Vav 1 oncogene
G11	Mm.282184	NM_009505	Vegfa	Vascular endothelial growth factor A
G12	Mm.1367	NM_009522	Wnt3a	Wingless-related MMTV integration site 3A
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.qiagen.com or can be requested from QIAGEN Technical Services or your local distributor.

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