RT² Profiler PCR Array (Rotor-Gene® Format)

Mouse Transcription Factors

Cat. no. 330231 PAMM-075ZR

For pathway expression analysis

Format	For use with the following real-time cyclers
RT² Profiler PCR Array, Format R	Rotor-Gene Q, other Rotor-Gene cyclers

Description

The Mouse Transcription Factors RT² Profiler PCR Array profiles the expression of 84 genes that directly control when, where, and the extent to which genes are expressed. The array includes transcription factors downstream of signaling from cytokines and chemokines and growth factors like BMP, EGF, EPO, IGF, insulin, PDGF, TGFß, TPO, and VEGF. Signaling from androgen, B-cell, G-protein coupled, T-cell, and Toll-Like receptors activate transcription factors represented on this array. Target transcription factors in signal transduction pathways like JAK / STAT, JNK and other MAP Kinases, NF?B, Notch, and WNT are also included in this array. Using real-time PCR, you can easily and reliably analyze the expression of a focused panel of transcription factors 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.39005	NM_013476	Ar	Androgen receptor
A02	Mm.250265	NM_009709	Arnt	Aryl hydrocarbon receptor nuclear translocator
A03	Mm.473546	NM_007497	Atf1	Activating transcription factor 1
A04	Mm.209903	NM_009715	Atf2	Activating transcription factor 2
A05	Mm.2706	NM_007498	Atf3	Activating transcription factor 3
A06	Mm.641	NM_009716	Atf4	Activating transcription factor 4
A07	Mm.349667	NM_007678	Cebpa	CCAAT/enhancer binding protein (C/EBP), alpha
A08	Mm.439656	NM_009883	Cebpb	CCAAT/enhancer binding protein (C/EBP), beta
A09	Mm.273090	NM_009884	Cebpg	CCAAT/enhancer binding protein (C/EBP), gamma
A10	Mm.20913	NM_016680	Clasrp	CLK4-associating serine/arginine rich protein
A11	Mm.453295	NM_133828	Creb1	CAMP responsive element binding protein 1
A12	Mm.132238	NM_001025432	Crebbp	CREB binding protein
B01	Mm.291928	NM_007614	Ctnnb1	Catenin (cadherin associated protein), beta 1
B02	Mm.303534	NM_026106	Dr1	Down-regulator of transcription 1
B03	Mm.18036	NM_007891	E2f1	E2F transcription factor 1
B04	Mm.23296	NM_033270	E2f6	E2F transcription factor 6
B05	Mm.181959	NM_007913	Egr1	Early growth response 1
B06	Mm.9213	NM_007956	Esr1	Estrogen receptor 1 (alpha)
B07	Mm.292415	NM_011808	Ets1	E26 avian leukemia oncogene 1, 5' domain
B08	Mm.290207	NM_011809	Ets2	E26 avian leukemia oncogene 2, 3' domain
B09	Mm.246513	NM_010234	Fos	FBJ osteosarcoma oncogene
B10	Mm.938	NM_010446	Foxa2	Forkhead box A2
B11	Mm.4704	NM_008241	Foxg1	Forkhead box G1
B12	Mm.335973	NM_008089	Gata1	GATA binding protein 1
C01	Mm.272747	NM_008090	Gata2	GATA binding protein 2
C02	Mm.313866	NM_008091	Gata3	GATA binding protein 3
C03	Mm.391450	NM_010296	Gli1	GLI-Kruppel family member GLI1
C04	Mm.271756	NM_145546	Gtf2b	General transcription factor IIB
C05	Mm.24632	NM_133801	Gtf2f1	General transcription factor IIF, polypeptide 1
C06	Mm.4746	NM_008213	Hand1	Heart and neural crest derivatives expressed transcript 1
C07	Mm.430844	NM_010402	Hand2	Heart and neural crest derivatives expressed transcript 2
C08	Mm.202504	NM_008228	Hdac1	Histone deacetylase 1
C09	Mm.3879	NM_010431	Hif1a	Hypoxia inducible factor 1, alpha subunit
C10	Mm.332607	NM_009327	Hnf1a	HNF1 homeobox A
C11	Mm.202383	NM_008261	Hnf4a	Hepatic nuclear factor 4, alpha
C12	Mm.173	NM_010453	Hoxa5	Homeobox A5
D01	Mm.347444	NM_008296	Hsf1	Heat shock factor 1
D02	Mm.444	NM_010495	Id1	Inhibitor of DNA binding 1
D03	Mm.105218	NM_008390	Irf1	Interferon regulatory factor 1
D04	Mm.275071	NM_010591	Jun	Jun oncogene
D05	Mm.1167	NM_008416	Junb	Jun-B oncogene
D06	Mm.419851	NM_010592	Jund	Jun proto-oncogene related gene d
D07	Mm.399068	NM_001031811	Kcnh8	Potassium voltage-gated channel, subfamily H (eag-related), member 8
D08	Mm.268548	NM_008558	Max	Max protein
D09	Mm.132788	NM_001033713	Mef2a	Myocyte enhancer factor 2A
D10	Mm.432505	NM_008578	Mef2b	Myocyte enhancer factor 2B
D11	Mm.24001	NM_025282	Mef2c	Myocyte enhancer factor 2C
D12	Mm.2444	NM_010849	Myc	Myelocytomatosis oncogene
E01	Mm.4984	NM_008656	Myf5	Myogenic factor 5
E02	Mm.1526	NM_010866	Myod1	Myogenic differentiation 1
E03	Mm.277153	NM_194064	Nanos2	Nanos homolog 2 (Drosophila)
E04	Mm.390057	NM_018823	Nfat5	Nuclear factor of activated T-cells 5
E05	Mm.116802	NM_010899	Nfatc2	Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2
E06	Mm.383185	NM_010901	Nfatc3	Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3
E07	Mm.27908	NM_023699	Nfatc4	Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 4
E08	Mm.256765	NM_008689	Nfkb1	Nuclear factor of kappa light polypeptide gene enhancer in B-cells 1, p105
E09	Mm.245998	NM_010914	Nfyb	Nuclear transcription factor-Y beta

Position	UniGene	GenBank	Symbol	Description
E10	Mm.129481	NM_008173	Nr3c1	Nuclear receptor subfamily 3, group C, member 1
E11	Mm.3608	NM_013627	Pax6	Paired box gene 6
E12	Mm.897	NM_011136	Pou2af1	POU domain, class 2, associating factor 1
F01	Mm.212789	NM_011144	Ppara	Peroxisome proliferator activated receptor alpha
F02	Mm.3020	NM_011146	Pparg	Peroxisome proliferator activated receptor gamma
F03	Mm.273862	NM_009029	Rb1	Retinoblastoma 1
F04	Mm.4869	NM_009044	Rel	Reticuloendotheliosis oncogene
F05	Mm.249966	NM_009045	Rela	V-rel reticuloendotheliosis viral oncogene homolog A (avian)
F06	Mm.223717	NM_008539	Smad1	MAD homolog 1 (Drosophila)
F07	Mm.100399	NM_008540	Smad4	MAD homolog 4 (Drosophila)
F08	Mm.272920	NM_008541	Smad5	MAD homolog 5 (Drosophila)
F09	Mm.244353	NM_019483	Smad9	MAD homolog 9 (Drosophila)
F10	Mm.4618	NM_013672	Sp1	Trans-acting transcription factor 1
F11	Mm.124328	NM_001018042	Sp3	Trans-acting transcription factor 3
F12	Mm.277406	NM_009283	Stat1	Signal transducer and activator of transcription 1
G01	Mm.293120	NM_019963	Stat2	Signal transducer and activator of transcription 2
G02	Mm.249934	NM_011486	Stat3	Signal transducer and activator of transcription 3
G03	Mm.1550	NM_011487	Stat4	Signal transducer and activator of transcription 4
G04	Mm.277403	NM_011488	Stat5a	Signal transducer and activator of transcription 5A
G05	Mm.34064	NM_011489	Stat5b	Signal transducer and activator of transcription 5B
G06	Mm.121721	NM_009284	Stat6	Signal transducer and activator of transcription 6
G07	Mm.244820	NM_013684	Tbp	TATA box binding protein
G08	Mm.139815	NM_009333	Tcf7l2	Transcription factor 7-like 2, T-cell specific, HMG-box
G09	Mm.85544	NM_011547	Tcfap2a	Transcription factor AP-2, alpha
G10	Mm.101034	NM_009372	Tgif1	TGFB-induced factor homeobox 1
G11	Mm.222	NM_011640	Trp53	Transformation related protein 53
G12	Mm.3868	NM_009537	Yy1	YY1 transcription factor
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.
RT² First Strand Kit (12)	Enzymes and reagents for cDNA synthesis	330401
RT² 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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