

RT² Profiler PCR Array (Rotor-Gene® Format)

Mouse Stem Cell

Cat. no. 330231 PAMM-405ZR

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 Stem Cell RT² Profiler PCR Array profiles the expression of 84 genes related to the identification, growth and differentiation of stem cells. Stem-cell specific markers are included as well as stem cell differentiation markers. Genes in signaling pathways important for stem cells maintenance are also contained on this array. Using real-time PCR, you can easily and reliably analyze expression of a focused panel of genes related to stem cell biology 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.333096	NM_011920	Abcg2	ATP-binding cassette, sub-family G (WHITE), member 2
A02	Mm.358571	NM_007424	Acan	Aggrecan
A03	Mm.686	NM_009608	Act1	Actin, alpha, cardiac muscle 1
A04	Mm.316628	NM_019655	Adar	Adenosine deaminase, RNA-specific
A05	Mm.250866	NM_013467	Aldh1a1	Aldehyde dehydrogenase family 1, subfamily A1
A06	Mm.284446	NM_009656	Aldh2	Aldehyde dehydrogenase 2, mitochondrial
A07	Mm.384171	NM_007462	Apc	Adenomatosis polyposis coli
A08	Mm.196417	NM_008554	Ascl2	Achaete-scute complex homolog 2 (Drosophila)
A09	Mm.23684	NM_009733	Axin1	Axin 1
A10	Mm.389459	NM_007541	Bglap	Bone gamma carboxyglutamate protein
A11	Mm.27757	NM_009755	Bmp1	Bone morphogenetic protein 1
A12	Mm.103205	NM_007553	Bmp2	Bone morphogenetic protein 2
B01	Mm.209571	NM_173404	Bmp3	Bone morphogenetic protein 3
B02	Mm.119717	NM_009771	Btrc	Beta-transducin repeat containing protein
B03	Mm.4189	NM_009828	Ccna2	Cyclin A2
B04	Mm.273049	NM_007631	Ccnd1	Cyclin D1
B05	Mm.333406	NM_009829	Ccnd2	Cyclin D2
B06	Mm.16110	NM_007633	Ccne1	Cyclin E1
B07	Mm.4360	NM_009844	Cd19	CD19 antigen
B08	Mm.4527	NM_013487	Cd3d	CD3 antigen, delta polypeptide
B09	Mm.2209	NM_013488	Cd4	CD4 antigen
B10	Mm.423621	NM_009851	Cd44	CD44 antigen
B11	Mm.1858	NM_001081110	Cd8a	CD8 antigen, alpha chain
B12	Mm.333148	NM_009858	Cd8b1	CD8 antigen, beta chain 1
C01	Mm.1022	NM_009861	Cdc42	Cell division cycle 42 homolog (S. cerevisiae)
C02	Mm.35605	NM_009864	Cdh1	Cadherin 1
C03	Mm.257437	NM_007664	Cdh2	Cadherin 2
C04	Mm.281367	NM_007659	Cdk1	Cyclin-dependent kinase 1
C05	Mm.277735	NM_007742	Col1a1	Collagen, type I, alpha 1
C06	Mm.2423	NM_031163	Col2a1	Collagen, type II, alpha 1
C07	Mm.154662	NM_007740	Col9a1	Collagen, type IX, alpha 1
C08	Mm.18962	NM_009818	Ctnna1	Catenin (cadherin associated protein), alpha 1
C09	Mm.303231	NM_021704	Cxcl12	Chemokine (C-X-C motif) ligand 12
C10	Mm.324688	NM_007857	Dhh	Desert hedgehog
C11	Mm.4875	NM_007865	Dll1	Delta-like 1 (Drosophila)
C12	Mm.12896	NM_007866	Dll3	Delta-like 3 (Drosophila)
D01	Mm.1645	NM_008052	Dtx1	Deltex 1 homolog (Drosophila)
D02	Mm.275574	NM_023742	Dtx2	Deltex 2 homolog (Drosophila)
D03	Mm.3400	NM_010091	Dvl1	Dishevelled, dsh homolog 1 (Drosophila)
D04	Mm.258397	NM_177821	Ep300	E1A binding protein p300
D05	Mm.241282	NM_010197	Fgf1	Fibroblast growth factor 1
D06	Mm.473689	NM_008006	Fgf2	Fibroblast growth factor 2
D07	Mm.4947	NM_008007	Fgf3	Fibroblast growth factor 3
D08	Mm.4956	NM_010202	Fgf4	Fibroblast growth factor 4
D09	Mm.265716	NM_010206	Fgfr1	Fibroblast growth factor receptor 1
D10	Mm.938	NM_010446	Foxa2	Forkhead box A2
D11	Mm.4573	NM_008043	Frat1	Frequently rearranged in advanced T-cell lymphomas
D12	Mm.246003	NM_021457	Fzd1	Frizzled homolog 1 (Drosophila)
E01	Mm.422844	NM_019506	Gdf2	Growth differentiation factor 2
E02	Mm.299742	NM_008108	Gdf3	Growth differentiation factor 3
E03	Mm.378921	NM_010288	Gja1	Gap junction protein, alpha 1
E04	Mm.21198	NM_008124	Gjb1	Gap junction protein, beta 1
E05	Mm.202504	NM_008228	Hdac1	Histone deacetylase 1
E06	Mm.19806	NM_008229	Hdac2	Histone deacetylase 2
E07	Mm.209419	NM_010481	Hspa9	Heat shock protein 9
E08	Mm.268521	NM_010512	Igf1	Insulin-like growth factor 1
E09	Mm.42242	NM_021459	Isl1	ISL1 transcription factor, LIM/homeodomain

Position	UniGene	GenBank	Symbol	Description
E10	Mm.22398	NM_013822	Jag1	Jagged 1
E11	Mm.218837	NM_020004	Kat2a	K(lysine) acetyltransferase 2A
E12	Mm.440010	NM_008469	Krt15	Keratin 15
F01	Mm.296022	NM_008604	Mme	Membrane metallo endopeptidase
F02	Mm.256509	NM_010835	Msx1	Homeobox, msh-like 1
F03	Mm.2444	NM_010849	Myc	Myelocytomatosis oncogene
F04	Mm.1526	NM_010866	Myod1	Myogenic differentiation 1
F05	Mm.425492	NM_026370	Myst1	MYST histone acetyltransferase 1
F06	Mm.90213	NM_177619	Myst2	MYST histone acetyltransferase 2
F07	Mm.4974	NM_010875	Ncam1	Neural cell adhesion molecule 1
F08	Mm.42017	NM_009718	Neurog2	Neurogenin 2
F09	Mm.290610	NM_008714	Notch1	Notch gene homolog 1 (Drosophila)
F10	Mm.254017	NM_010928	Notch2	Notch gene homolog 2 (Drosophila)
F11	Mm.4390	NM_010949	Numb	Numb gene homolog (Drosophila)
F12	Mm.472753	NM_019695	Pard6a	Par-6 (partitioning defective 6,) homolog alpha (C. elegans)
G01	Mm.389714	NM_008814	Pdx1	Pancreatic and duodenal homeobox 1
G02	Mm.328914	NM_011145	Ppard	Peroxisome proliferator activator receptor delta
G03	Mm.3020	NM_011146	Pparg	Peroxisome proliferator activated receptor gamma
G04	Mm.273862	NM_009029	Rb1	Retinoblastoma 1
G05	Mm.235998	NM_009115	S100b	S100 protein, beta polypeptide, neural
G06	Mm.425181	NM_011014	Sigmar1	Sigma non-opioid intracellular receptor 1
G07	Mm.39088	NM_009233	Sox1	SRY-box containing gene 1
G08	Mm.65396	NM_011443	Sox2	SRY-box containing gene 2
G09	Mm.913	NM_009309	T	Brachyury
G10	Mm.10109	NM_009354	Tert	Telomerase reverse transcriptase
G11	Mm.40068	NM_023279	Tubb3	Tubulin, beta 3
G12	Mm.1123	NM_021279	Wnt1	Wingless-related MMTV integration site 1
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.

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