RT² Profiler PCR Array (Rotor-Gene® Format)

Mouse Nuclear Receptors & Coregulators PCR Array

Cat. no. 330231 PAMM-056YR

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 Nuclear Receptors & Coregulators RT² Profiler™ PCR Array profiles the expression of 84 genes encoding nuclear receptors and their coregulators. The array includes receptors for thyroid and steroid hormones, receptors for retinoids and vitamin D, as well as orphan receptors. Coactivators and corepressors of nuclear receptor activity are also included on this array as well as chromatin modifying enzymes. Using real-time PCR, you can easily and reliably analyze expression of a focused panel of nuclear receptors and coregulators 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.341377	NM_013464	Ahr	Aryl-hydrocarbon receptor
A02	Mm.394224	NM_013476	Ar	Androgen receptor
A03	Mm.250265	NM_009709	Arnt	Aryl hydrocarbon receptor nuclear translocator
A04	Mm.45602	NM_030147	Brd8	Bromodomain containing 8
A05	Mm.3596	NM_009939	Cops2	COP9 (constitutive photomorphogenic) homolog, subunit 2 (Arabidopsis thaliana)
A06	Mm.392384	NM_001025432	Crebbp	CREB binding protein
A07	Mm.491096	NM_007840	Ddx5	DEAD (Asp-Glu-Ala-Asp) box polypeptide 5
A08	Mm.463262	NM_007956	Esr1	Estrogen receptor 1 (alpha)
A09	Mm.2561	NM_010157	Esr2	Estrogen receptor 2 (beta)
A10	Mm.386776	NM_007953	Esrra	Estrogen related receptor, alpha
A11	Mm.235550	NM_011934	Esrrb	Estrogen related receptor, beta
A12	Mm.388156	NM_011935	Esrrg	Estrogen-related receptor gamma
B01	Mm.391033	NM_008228	Hdac1	Histone deacetylase 1
B02	Mm.19806	NM_008229	Hdac2	Histone deacetylase 2
B03	Mm.20521	NM_010411	Hdac3	Histone deacetylase 3
B04	Mm.318567	NM_207225	Hdac4	Histone deacetylase 4
B05	Mm.22665	NM_010412	Hdac5	Histone deacetylase 5
B06	Mm.29854	NM_010413	Hdac6	Histone deacetylase 6
B07	Mm.384027	NM_019572	Hdac7	Histone deacetylase 7
B08	Mm.202383	NM_008261	Hnf4a	Hepatic nuclear factor 4, alpha
B09	Mm.257094	NM_026348	Itgb3bp	Integrin beta 3 binding protein (beta3-endonexin)
B10	Mm.255025	NM_020005	Kat2b	K(lysine) acetyltransferase 2B
B11	Mm.228930	NM_178637	Kat5	K(lysine) acetyltransferase 5
B12	Mm.12926	NM_013634	Med1	Mediator complex subunit 1
C01	Mm.490933	NM_021521	Med12	Mediator of RNA polymerase II transcription, subunit 12 homolog (yeast)
C02	Mm.341886	NM_001080931	Med13	Mediator complex subunit 13
C03	Mm.17616	NM_012005	Med14	Mediator complex subunit 14
C04	Mm.260089	NM_198107	Med16	Mediator complex subunit 16
C05	Mm.44151	NM_144933	Med17	Mediator complex subunit 17
C06	Mm.246493	NM_011869	Med24	Mediator complex subunit 24
C07	Mm.282888	NM_026119	Med4	Mediator of RNA polymerase II transcription, subunit 4 homolog (yeast)
C08	Mm.212577	NM_054081	Mta1	Metastasis associated 1
C09	Mm.301039	NM_010881	Ncoa1	Nuclear receptor coactivator 1
C10	Mm.2537	NM_008678	Ncoa2	Nuclear receptor coactivator 2
C11	Mm.469663	NM_008679	Ncoa3	Nuclear receptor coactivator 3
C12	Mm.477186	NM_019744	Ncoa4	Nuclear receptor coactivator 4
D01	Mm.27592	NM_019825	Ncoa6	Nuclear receptor coactivator 6
D02	Mm.460227	NM_011308	Ncor1	Nuclear receptor co-repressor 1
D03	Mm.278646	NM_011424	Ncor2	Nuclear receptor co-repressor 2
D04	Mm.102365	NM_019408	Nfkb2	Nuclear factor of kappa light polypeptide gene enhancer in B-cells 2, p49/p100
D05	Mm.475350	NM_023144	Nono	Non-POU-domain-containing, octamer binding protein
D06	Mm.485843	NM_010928	Notch2	Notch gene homolog 2 (Drosophila)
D07	Mm.5180	NM_007430	Nr0b1	Nuclear receptor subfamily 0, group B, member 1
D08	Mm.346759	NM_011850	Nr0b2	Nuclear receptor subfamily 0, group B, member 2
D09	Mm.390397	NM_145434	Nr1d1	Nuclear receptor subfamily 1, group D, member 1
D10	Mm.26587	NM_011584	Nr1d2	Nuclear receptor subfamily 1, group D, member 2
D11	Mm.968	NM_009473	Nr1h2	Nuclear receptor subfamily 1, group H, member 2
D12	Mm.22690	NM_013839	Nr1h3	Nuclear receptor subfamily 1, group H, member 3
E01	Mm.3095	NM_009108	Nr1h4	Nuclear receptor subfamily 1, group H, member 4
E02	Mm.8509	NM_010936	Nr1i2	Nuclear receptor subfamily 1, group I, member 2
E03	Mm.486506	NM_009803	Nr1i3	Nuclear receptor subfamily 1, group I, member 3
E04	Mm.107483	NM_011629	Nr2c1	Nuclear receptor subfamily 2, group C, member 1
E05	Mm.87062	NM_011630	Nr2c2	Nuclear receptor subfamily 2, group C, member 2
E06	Mm.103641	NM_013708	Nr2e3	Nuclear receptor subfamily 2, group E, member 3
E07	Mm.439653	NM_010151	Nr2f1	Nuclear receptor subfamily 2, group F, member 1
E08	Mm.158143	NM_009697	Nr2f2	Nuclear receptor subfamily 2, group F, member 2

Position	UniGene	GenBank	Symbol	Description
E09	Mm.440170	NM_010150	Nr2f6	Nuclear receptor subfamily 2, group F, member 6
E10	Mm.129481	NM_008173	Nr3c1	Nuclear receptor subfamily 3, group C, member 1
E11	Mm.324393	NM_001083906	Nr3c2	Nuclear receptor subfamily 3, group C, member 2
E12	Mm.119	NM_010444	Nr4a1	Nuclear receptor subfamily 4, group A, member 1
F01	Mm.31387	NM_139051	Nr5a1	Nuclear receptor subfamily 5, group A, member 1
F02	Mm.439703	NM_010264	Nr6a1	Nuclear receptor subfamily 6, group A, member 1
F03	Mm.455873	NM_173440	Nrip1	Nuclear receptor interacting protein 1
F04	Mm.437703	NM_008829	Pgr	Progesterone receptor
F05	Mm.212789	NM_011144	Ppara	Peroxisome proliferator activated receptor alpha
F06	Mm.328914	NM_011145	Ppard	Peroxisome proliferator activator receptor delta
F07	Mm.3020	NM_011146	Pparg	Peroxisome proliferator activated receptor gamma
F08	Mm.259072	NM_008904	Ppargc1a	Peroxisome proliferative activated receptor, gamma, coactivator 1 alpha
F09	Mm.415302	NM_133249	Ppargc1b	Peroxisome proliferative activated receptor, gamma, coactivator 1 beta
F10	Mm.289832	NM_008948	Psmc3	Proteasome (prosome, macropain) 26S subunit, ATPase 3
F11	Mm.272361	NM_008950	Psmc5	Protease (prosome, macropain) 26S subunit, ATPase 5
F12	Mm.439744	NM_009024	Rara	Retinoic acid receptor, alpha
G01	Mm.259318	NM_011243	Rarb	Retinoic acid receptor, beta
G02	Mm.1273	NM_011244	Rarg	Retinoic acid receptor, gamma
G03	Mm.488709	NM_009035	Rbpj	Recombination signal binding protein for immunoglobulin kappa J region
G04	Mm.391890	NM_013646	Rora	RAR-related orphan receptor alpha
G05	Mm.24624	NM_011305	Rxra	Retinoid X receptor alpha
G06	Mm.1243	NM_011306	Rxrb	Retinoid X receptor beta
G07	Mm.3475	NM_009107	Rxrg	Retinoid X receptor gamma
G08	Mm.171323	NM_054089	Tgs1	Trimethylguanosine synthase homolog (S. cerevisiae)
G09	Mm.442648	NM_178060	Thra	Thyroid hormone receptor alpha
G10	Mm.491616	NM_009380	Thrb	Thyroid hormone receptor beta
G11	Mm.208379	NM_019797	Trip4	Thyroid hormone receptor interactor 4
G12	Mm.245084	NM_009504	Vdr	Vitamin D receptor
H01	Mm.391967	NM_007393	Actb	Actin, beta
H02	Mm.163	NM_009735	B2m	Beta-2 microglobulin
H03	Mm.304088	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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