RT² Profiler PCR Array (Rotor-Gene® Format)

Fruit Fly Housekeeping Genes

Cat. no. 330231 PADM-000ZR

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 Fruit Fly Housekeeping Genes RT² Profiler PCR Array profiles the expression of 8 identical sets of 12 commonly used housekeeping genes. This array can be easily used to identify genes with a constant level of expression among different experimental conditions for use in normalizing relative gene expression profiling experiment. Housekeeping genes encode proteins that are usually essential for the maintenance of cellular function. Their expression often, but not always, remains constant under most experimental conditions. Some of these genes may be regulated under certain circumstances and may vary with cell type. Using real-time PCR, research studies can easily and reliably analyze the expression of these housekeeping genes among different experimental conditions 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	Dm.7040	NM_078901	Act42A	Actin 42A
A02	Dm.2178	NM_001014535	CG15117	CG15117 gene product from transcript CG15117-RA
A03	Dm.18585	NM_136380	CG17266	CG17266 gene product from transcript CG17266-RA
A04	Dm.2854	NM_079049	cyp33	Cyclophilin-33
A05	Dm.23224	NM_001038847	Gapdh1	Glyceraldehyde 3 phosphate dehydrogenase 1
A06	Dm.6789	NM_080352	Gapdh2	Glyceraldehyde 3 phosphate dehydrogenase 2
A07	Dm.2800	NM_079175	Hsp83	Heat shock protein 83
A08	Dm.4531	NM_141303	RpL13A	Ribosomal protein L13A
A09	Dm.7621	NM_079843	RpL32	Ribosomal protein L32
A10	Dm.7933	NM_079487	RpLP0	Ribosomal protein LP0
A11	Dm.4591	NM_057862	SdhA	Succinate dehydrogenase A
A12	Dm.4490	NM_079081	Tbp	TATA binding protein
B01	Dm.7040	NM_078901	Act42A	Actin 42A
B02	Dm.2178	NM_001014535	CG15117	CG15117 gene product from transcript CG15117-RA
B03	Dm.18585	NM_136380	CG17266	CG17266 gene product from transcript CG17266-RA
B04	Dm.2854	NM_079049	cyp33	Cyclophilin-33
B05	Dm.23224	NM_001038847	Gapdh1	Glyceraldehyde 3 phosphate dehydrogenase 1
B06	Dm.6789	NM_080352	Gapdh2	Glyceraldehyde 3 phosphate dehydrogenase 2
B07	Dm.2800	NM_079175	Hsp83	Heat shock protein 83
B08	Dm.4531	NM_141303	RpL13A	Ribosomal protein L13A
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B10	Dm.7933	NM_079487	RpLP0	Ribosomal protein LP0
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B12	Dm.4490	NM_079081	Tbp	TATA binding protein
C01	Dm.7040	NM_078901	Act42A	Actin 42A
C02	Dm.2178	NM_001014535	CG15117	CG15117 gene product from transcript CG15117-RA
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C09	Dm.7621	NM_079843	RpL32	Ribosomal protein L32
C10	Dm.7933	NM_079487	RpLP0	Ribosomal protein LP0
C11	Dm.4591	NM_057862	SdhA	Succinate dehydrogenase A
C12	Dm.4490	NM_079081	Tbp	TATA binding protein
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D02	Dm.2178	NM_001014535	CG15117	CG15117 gene product from transcript CG15117-RA
D03	Dm.18585	NM_136380	CG17266	CG17266 gene product from transcript CG17266-RA
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D05	Dm.23224	NM_001038847	Gapdh1	Glyceraldehyde 3 phosphate dehydrogenase 1
D06	Dm.6789	NM_080352	Gapdh2	Glyceraldehyde 3 phosphate dehydrogenase 2
D07	Dm.2800	NM_079175	Hsp83	Heat shock protein 83
D08	Dm.4531	NM_141303	RpL13A	Ribosomal protein L13A
D09	Dm.7621	NM_079843	RpL32	Ribosomal protein L32
D10	Dm.7933	NM_079487	RpLP0	Ribosomal protein LP0
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E08	Dm.4531	NM_141303	RpL13A	Ribosomal protein L13A
E09	Dm.7621	NM_079843	RpL32	Ribosomal protein L32

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E10	Dm.7933	NM_079487	RpLP0	Ribosomal protein LP0
E11	Dm.4591	NM_057862	SdhA	Succinate dehydrogenase A
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H10	Dm.7933	NM_079487	RpLP0	Ribosomal protein LP0
H11	Dm.4591	NM_057862	SdhA	Succinate dehydrogenase A
H12	Dm.4490	NM_079081	Tbp	TATA binding protein

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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