RT² Profiler PCR Array (Rotor-Gene® Format)

Zebrafish Housekeeping Genes

Cat. no. 330231 PAZF-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 Zebrafish 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	Dr.47173	NM_214784	acta1b	Actin, alpha 1b, skeletal muscle
A02	Dr.51646	NM_001159768	b2m	Beta-2-microglobulin
A03	Dr.35640	NM_001115114	gapdh	Glyceraldehyde-3-phosphate dehydrogenase
A04	Dr.158112	XM_695030	gusb	Glucuronidase, beta
A05	Dr.77915	NM_212986	hprt1	Hypoxanthine phosphoribosyltransferase 1
A06	Dr.35688	NM_131310	hsp90ab1	Heat shock protein 90, alpha (cytosolic), class B member 1
A07	Dr.4212	NM_131246	ldha	Lactate dehydrogenase A4
A08	Dr.150274	NM_201579	nono	Non-POU domain containing, octamer-binding
A09	Dr.76033	NM_213387	pgk1	Phosphoglycerate kinase 1
A10	Dr.32450	NM_212784	rpl13a	Ribosomal protein L13a
A11	Dr.117556	NM_200096	tbp	TATA box binding protein
A12	Dr.79613	NM_001009918	tfr1b	Transferrin receptor 1b
B01	Dr.47173	NM_214784	acta1b	Actin, alpha 1b, skeletal muscle
B02	Dr.51646	NM_001159768	b2m	Beta-2-microglobulin
B03	Dr.35640	NM_001115114	gapdh	Glyceraldehyde-3-phosphate dehydrogenase
B04	Dr.158112	XM_695030	gusb	Glucuronidase, beta
B05	Dr.77915	NM_212986	hprt1	Hypoxanthine phosphoribosyltransferase 1
B06	Dr.35688	NM_131310	hsp90ab1	Heat shock protein 90, alpha (cytosolic), class B member 1
B07	Dr.4212	NM_131246	ldha	Lactate dehydrogenase A4
B08	Dr.150274	NM_201579	nono	Non-POU domain containing, octamer-binding
B09	Dr.76033	NM_213387	pgk1	Phosphoglycerate kinase 1
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B12	Dr.79613	NM_001009918	tfr1b	Transferrin receptor 1b
C01	Dr.47173	NM_214784	acta1b	Actin, alpha 1b, skeletal muscle
C02	Dr.51646	NM_001159768	b2m	Beta-2-microglobulin
C03	Dr.35640	NM_001115114	gapdh	Glyceraldehyde-3-phosphate dehydrogenase
C04	Dr.158112	XM_695030	gusb	Glucuronidase, beta
C05	Dr.77915	NM_212986	hprt1	Hypoxanthine phosphoribosyltransferase 1
C06	Dr.35688	NM_131310	hsp90ab1	Heat shock protein 90, alpha (cytosolic), class B member 1
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C08	Dr.150274	NM_201579	nono	Non-POU domain containing, octamer-binding
C09	Dr.76033	NM_213387	pgk1	Phosphoglycerate kinase 1
C10	Dr.32450	NM_212784	rpl13a	Ribosomal protein L13a
C11	Dr.117556	NM_200096	tbp	TATA box binding protein
C12	Dr.79613	NM_001009918	tfr1b	Transferrin receptor 1b
D01	Dr.47173	NM_214784	acta1b	Actin, alpha 1b, skeletal muscle
D02	Dr.51646	NM_001159768	b2m	Beta-2-microglobulin
D03	Dr.35640	NM_001115114	gapdh	Glyceraldehyde-3-phosphate dehydrogenase
D04	Dr.158112	XM_695030	gusb	Glucuronidase, beta
D05	Dr.77915	NM_212986	hprt1	Hypoxanthine phosphoribosyltransferase 1
D06	Dr.35688	NM_131310	hsp90ab1	Heat shock protein 90, alpha (cytosolic), class B member 1
D07	Dr.4212	NM_131246	ldha	Lactate dehydrogenase A4
D08	Dr.150274	NM_201579	nono	Non-POU domain containing, octamer-binding
D09	Dr.76033	NM_213387	pgk1	Phosphoglycerate kinase 1
D10	Dr.32450	NM_212784	rpl13a	Ribosomal protein L13a
D11	Dr.117556	NM_200096	tbp	TATA box binding protein
D12	Dr.79613	NM_001009918	tfr1b	Transferrin receptor 1b
E01	Dr.47173	NM_214784	acta1b	Actin, alpha 1b, skeletal muscle
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E06	Dr.35688	NM_131310	hsp90ab1	Heat shock protein 90, alpha (cytosolic), class B member 1
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F12	Dr.79613	NM_001009918	tfr1b	Transferrin receptor 1b
G01	Dr.47173	NM_214784	acta1b	Actin, alpha 1b, skeletal muscle
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G03	Dr.35640	NM_001115114	gapdh	Glyceraldehyde-3-phosphate dehydrogenase
G04	Dr.158112	XM_695030	gusb	Glucuronidase, beta
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H03	Dr.35640	NM_001115114	gapdh	Glyceraldehyde-3-phosphate dehydrogenase
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H05	Dr.77915	NM_212986	hprt1	Hypoxanthine phosphoribosyltransferase 1
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H09	Dr.76033	NM_213387	pgk1	Phosphoglycerate kinase 1
H10	Dr.32450	NM_212784	rpl13a	Ribosomal protein L13a
H11	Dr.117556	NM_200096	tbp	TATA box binding protein
H12	Dr.79613	NM_001009918	tfr1b	Transferrin receptor 1b

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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