

RT² Profiler PCR Array (Rotor-Gene® Format)

Horse Angiogenic Growth Factors

Cat. no. 330231 PAEC-072ZR

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 Horse Angiogenic Growth Factors RT² Profiler™ PCR Array profiles the expression of 84 growth factors and inhibitors related to angiogenesis. This array contains the growth factors, cytokines, and chemokines that promote the biogenesis of new blood vessels and the genes that encode inhibitors of this process. Using real-time PCR, you can easily and reliably analyze expression of a focused panel of genes related to the promotion and inhibition of angiogenesis 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 cyclers (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
1	Eca.21634	XM_005606111	ADAMTS1	ADAM metalloproteinase with thrombospondin type 1 motif, 1
2	N/A	XM_014728162	ADGRB1	Adhesion G protein-coupled receptor B1
3	N/A	XM_005599734	AGGF1	Angiogenic factor with G patch and FHA domains 1
4	N/A	XM_005614426	AMOT	Angiomotin
5	Eca.12724	NM_001081899	ANG	Angiogenin, ribonuclease, RNase A family, 5
6	N/A	XM_001494946	ANGPT1	Angiopoietin 1
7	N/A	XM_001494092	ANGPT2	Angiopoietin 2
8	N/A	XM_001497777	ANGPT4	Angiopoietin-4-like
9	N/A	XM_001498660	ANGPTL1	Angiopoietin-related protein 1-like
10	N/A	XM_001493895	BMP2	Bone morphogenetic protein 2
11	N/A	XM_005614923	BTG1	B-cell translocation gene 1, anti-proliferative
12	N/A	XM_001501323	CCL15	C-C motif chemokine 15-like
13	Eca.17895	NM_001081931	CCL2	Chemokine (C-C motif) ligand 2
14	N/A	XM_005609840	CD55	CD55 molecule (Cromer blood group)
15	Eca.13001	NM_001081814	CHGA	Chromogranin A (parathyroid secretory protein 1)
16	N/A	XM_005606187	COL18A1	Collagen, type XVIII, alpha 1
17	Eca.13392	XM_001493855	COL4A3	Collagen, type IV, alpha 3 (Goodpasture antigen)
18	Eca.426	NM_001081860	CSF3	Colony stimulating factor 3 (granulocyte)
19	Eca.570	NM_001114940	CXCL10	Chemokine (C-X-C motif) ligand 10
20	N/A	NM_001278930	CXCL11	Chemokine (C-X-C motif) ligand 11
21	N/A	XM_001489644	CXCL12	Stromal cell-derived factor 1-like
22	N/A	XM_003364667	CXCL13	C-X-C motif chemokine 13-like
23	N/A	XM_005599711	CXCL14	C-X-C motif chemokine ligand 14
24	Eca.13036	NM_001143955	CXCL2	Chemokine (C-X-C motif) ligand 2
25	Eca.451	NM_001081886	CXCL6	Chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2)
26	Eca.13119	NM_001083951	CXCL8	Interleukin 8
27	Eca.579	NM_001130078	CXCL9	Chemokine (C-X-C motif) ligand 9
28	N/A	XM_001504634	EDIL3	EGF-like repeats and discoidin I-like domains 3
29	N/A	XM_001490281	EREG	Proepiregulin-like
30	Eca.12646	NM_001163886	FGF1	Fibroblast growth factor 1 (acidic)
31	N/A	XM_005614533	FGF13	Fibroblast growth factor 13
32	Eca.12651	NM_001195221	FGF2	Fibroblast growth factor 2 (basic)
33	N/A	XM_001489992	FIGF	C-fos induced growth factor (vascular endothelial growth factor D)
34	Eca.4569	XM_001489104	FN1	Fibronectin 1
35	N/A	XM_005614247	FOXO4	Forkhead box O4
36	Eca.12163	NM_001081811	FST	Follistatin
37	N/A	XM_001489741	GRN	Granulin
38	N/A	XM_001489284	GRP	Gastrin-releasing peptide

Position	UniGene	GenBank	Symbol	Description
39	N/A	XM_001487849	HGF	Hepatocyte growth factor-like
40	Eca.16087	NM_001099440	IFNB1	Interferon, beta 1, fibroblast
41	Eca.721	NM_001081949	IFNG	Interferon, gamma
42	Eca.13090	NM_001082490	IL10	Interleukin 10
43	Eca.12627	NM_001082511	IL12A	Interleukin 12A (natural killer cell stimulatory factor 1, cytotoxic lymphocyte maturation factor 1, p35)
44	Eca.12460	NM_001082516	IL12B	Interleukin 12B (natural killer cell stimulatory factor 2, cytotoxic lymphocyte maturation factor 2, p40)
45	N/A	XM_001498910	IL17F	Interleukin-17F-like
46	Eca.12956	NM_001082496	IL6	Interleukin 6 (interferon, beta 2)
47	Eca.12984	NM_001163962	KITLG	KIT ligand
48	Eca.12764	NM_001163980	LEP	Leptin
49	N/A	XM_005608876	LOC100068923	Fibroblast growth factor-binding protein 1-like
50	Eca.563	NM_001143793	MIP-2BETA	CXCL3
51	N/A	XM_005597794	MYOCD	Myocardin
52	N/A	XM_005607522	NPPB	Natriuretic peptide B
53	N/A	XM_001915921	NPR1	Natriuretic peptide receptor A/guanylate cyclase A (atrionatriuretic peptide receptor A)
54	N/A	XM_005606646	PDGFB	Platelet-derived growth factor beta polypeptide
55	N/A	XM_005611797	PDGFD	Platelet derived growth factor D
56	N/A	XM_003364674	PF4	Platelet factor 4-like
57	N/A	XM_001491442	PGF	Placenta growth factor-like
58	N/A	XM_001500502	PLG	Plasminogen
59	N/A	XM_005608719	PPBP	Pro-platelet basic protein (chemokine (C-X-C motif) ligand 7)
60	Eca.12783	NM_001081896	PRL	Prolactin
61	N/A	XM_001496367	PROK1	Prokineticin-1-like
62	N/A	XM_001499721	PTN	Pleiotrophin-like
63	N/A	XM_005600187	RHOB	Ras homolog family member B
64	N/A	XM_001488475	RNH1	Ribonuclease inhibitor-like
65	N/A	XM_005615022	RUNX1	Runt-related transcription factor 1
66	N/A	XM_001497316	SERPINC1	Serpin peptidase inhibitor, clade C (antithrombin), member 1
67	Eca.12939	XM_001492517	SERPINE1	Serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1
68	Eca.16812	NM_001143954	SERPINF1	Serpin peptidase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 1
69	Eca.13412	XM_005599698	SPINK5	Serine peptidase inhibitor, Kazal type 5
70	N/A	XM_001493227	STAB1	Stabilin 1
71	N/A	XM_005599909	TGFA	Transforming growth factor, alpha
72	Eca.6371	NM_001081849	TGFB1	Transforming growth factor, beta 1
73	Eca.678	XM_001503599	THBS1	Thrombospondin 1
74	Eca.16687	NM_001163117	THBS2	Thrombospondin 2
75	N/A	XM_001503877	THBS4	Thrombospondin-4-like
76	N/A	XM_005607436	TIE1	Tyrosine kinase with immunoglobulin-like and EGF-like domains 1
77	Eca.671	NM_001082515	TIMP1	TIMP metallopeptidase inhibitor 1

Position	UniGene	GenBank	Symbol	Description
78	Eca.5493	XM_005597879	TIMP2	TIMP metallopeptidase inhibitor 2
79	Eca.12656	NM_001081870	TIMP3	TIMP metallopeptidase inhibitor 3
80	Eca.13019	NM_001081819	TNF	Tumor necrosis factor
81	N/A	XM_005613563	TNNI2	Troponin I type 2 (skeletal, fast)
82	Eca.12723	NM_001081904	TNNI3	Troponin I type 3 (cardiac)
83	N/A	XM_005606824	TYMP	Thymidine phosphorylase
84	Eca.12648	NM_001081821	VEGFA	Vascular endothelial growth factor A
85	Eca.20971	NM_001081838	ACTB	Actin, beta
86	Eca.13489	NM_001082502	B2M	Beta-2-microglobulin
87	Eca.487	NM_001163856	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase
88	Eca.12727	XM_005614512	HPRT1	Hypoxanthine phosphoribosyltransferase 1
89	N/A	XM_001492042	LOC100056766	60S ribosomal protein L32-like
90	N/A horse	SA_00139	EGDC	Horse Genomic DNA Contamination
91	N/A	SA_00104	RTC	Reverse Transcription Control
92	N/A	SA_00104	RTC	Reverse Transcription Control
93	N/A	SA_00104	RTC	Reverse Transcription Control
94	N/A	SA_00103	PPC	Positive PCR Control
95	N/A	SA_00103	PPC	Positive PCR Control
96	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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