

RT² Profiler PCR Array (96-Well Format and 384-Well [4 x 96] Format)

Horse Angiogenic Growth Factors

Cat. no. 330231 PAEC-072ZA

For pathway expression analysis

Format	For use with the following real-time cyclers
RT ² Profiler PCR Array, Format A	Applied Biosystems® models 5700, 7000, 7300, 7500, 7700, 7900HT, ViiA™ 7 (96-well block); Bio-Rad® models iCycler®, iQ™ 5, MyiQ™, MyiQ2; Bio-Rad/MJ Research Chromo4™; Eppendorf® Mastercycler® ep realplex models 2, 2s, 4, 4s; Stratagene® models Mx3005P®, Mx3000P®; Takara TP-800
RT ² Profiler PCR Array, Format C	Applied Biosystems models 7500 (Fast block), 7900HT (Fast block), StepOnePlus™, ViiA 7 (Fast block)
RT ² Profiler PCR Array, Format D	Bio-Rad CFX96™; Bio-Rad/MJ Research models DNA Engine Opticon®, DNA Engine Opticon 2; Stratagene Mx4000®
RT ² Profiler PCR Array, Format E	Applied Biosystems models 7900HT (384-well block), ViiA 7 (384-well block); Bio-Rad CFX384™
RT ² Profiler PCR Array, Format F	Roche® LightCycler® 480 (96-well block)
RT ² Profiler PCR Array, Format G	Roche LightCycler 480 (384-well block)
RT ² Profiler PCR Array, Format H	Fluidigm® BioMark™



Sample & Assay Technologies

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 formats A, C, D, E, F, and G are shipped at ambient temperature, on dry ice, or blue ice packs depending on destination and accompanying products. RT² Profiler PCR Arrays in format H are shipped on dry ice or blue ice packs.

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 (96-well)

For 384-well 4 x 96 PCR arrays, genes are present in a staggered format. Refer to the *RT² Profiler PCR Array Handbook* for layout.

	1	2	3	4	5	6	7	8	9	10	11	12
A	ADAMTS1	ADGRB1	AGGF1	AMOT	ANG	ANGPT1	ANGPT2	ANGPT4	ANGPTL1	BMP2	BTG1	CCL15
B	CCL2	CD55	CHGA	COL18A1	COL4A3	CSF3	CXCL10	CXCL11	CXCL12	CXCL13	CXCL14	CXCL2
C	CXCL6	CXCL8	CXCL9	EDIL3	EREG	FGF1	FGF13	FGF2	FIGF	FN1	FOXO4	FST
D	GRN	GRP	HGF	IFNB1	IFNG	IL10	IL12A	IL12B	IL17F	IL6	KITLG	LEP
E	LOC100068923	MIP-2BETA	MYOCD	NPPB	NPR1	PDGFB	PDGFD	PF4	PGF	PLG	PPBP	PRL
F	PROK1	PTN	RHOB	RNH1	RUNX1	SERPINC1	SERPINE1	SERPINF1	SPINK5	STAB1	TGFA	TGFB1
G	THBS1	THBS2	THBS4	TIE1	TIMP1	TIMP2	TIMP3	TNF	TNNI2	TNNI3	TYMP	VEGFA
H	ACTB	B2M	GAPDH	HPRT1	LOC100056766	EGDC	RTC	RTC	RTC	PPC	PPC	PPC

Gene table: RT² Profiler PCR Array

Position	UniGene	GenBank	Symbol	Description	Assay
A01	Eca.21634	XM_005606111	ADAMTS1	ADAM metalloproteinase with thrombospondin type 1 motif, 1	PPE00019A
A02	N/A	XM_014728162	ADGRB1	Adhesion G protein-coupled receptor B1	PPE16590A
A03	N/A	XM_005599734	AGGF1	Angiogenic factor with G patch and FHA domains 1	PPE06968A
A04	N/A	XM_005614426	AMOT	Angiomotin	PPE01974A
A05	Eca.12724	NM_001081899	ANG	Angiogenin, ribonuclease, RNase A family, 5	PPE00237A
A06	N/A	XM_001494946	ANGPT1	Angiopoietin 1	PPE02699A
A07	N/A	XM_001494092	ANGPT2	Angiopoietin 2	PPE01249A
A08	N/A	XM_001497777	ANGPT4	Angiopoietin-4-like	PPE13526A
A09	N/A	XM_001498660	ANGPTL1	Angiopoietin-related protein 1-like	PPE08454A
A10	N/A	XM_001493895	BMP2	Bone morphogenetic protein 2	PPE01174A
A11	N/A	XM_005614923	BTG1	B-cell translocation gene 1, anti-proliferative	PPE15794A
A12	N/A	XM_001501323	CCL15	C-C motif chemokine 15-like	PPE14709A
B01	Eca.17895	NM_001081931	CCL2	Chemokine (C-C motif) ligand 2	PPE00321A
B02	N/A	XM_005609840	CD55	CD55 molecule (Cromer blood group)	PPE10155A
B03	Eca.13001	NM_001081814	CHGA	Chromogranin A (parathyroid secretory protein 1)	PPE00065A
B04	N/A	XM_005606187	COL18A1	Collagen, type XVIII, alpha 1	PPE09488A
B05	Eca.13392	XM_001493855	COL4A3	Collagen, type IV, alpha 3 (Goodpasture antigen)	PPE00417A
B06	Eca.426	NM_001081860	CSF3	Colony stimulating factor 3 (granulocyte)	PPE00141B
B07	Eca.570	NM_001114940	CXCL10	Chemokine (C-X-C motif) ligand 10	PPE00914A
B08	N/A	NM_001278930	CXCL11	Chemokine (C-X-C motif) ligand 11	PPE16069A
B09	N/A	XM_001489644	CXCL12	Stromal cell-derived factor 1-like	PPE07254A
B10	N/A	XM_003364667	CXCL13	C-X-C motif chemokine 13-like	PPE16150B
B11	N/A	XM_005599711	CXCL14	C-X-C motif chemokine ligand 14	PPE15035A
B12	Eca.13036	NM_001143955	CXCL2	Chemokine (C-X-C motif) ligand 2	PPE07121A
C01	Eca.451	NM_001081886	CXCL6	Chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2)	PPE00196B
C02	Eca.13119	NM_001083951	CXCL8	Interleukin 8	PPE00415B
C03	Eca.579	NM_001130078	CXCL9	Chemokine (C-X-C motif) ligand 9	PPE03123A
C04	N/A	XM_001504634	EDIL3	EGF-like repeats and discoidin I-like domains 3	PPE06959A
C05	N/A	XM_001490281	EREG	Proepiregulin-like	PPE09805A
C06	Eca.12646	NM_001163886	FGF1	Fibroblast growth factor 1 (acidic)	PPE00174A
C07	N/A	XM_005614533	FGF13	Fibroblast growth factor 13	PPE09036A
C08	Eca.12651	NM_001195221	FGF2	Fibroblast growth factor 2 (basic)	PPE00170A
C09	N/A	XM_001489992	FIGF	C-fos induced growth factor (vascular endothelial growth factor D)	PPE00871A
C10	Eca.4569	XM_001489104	FN1	Fibronectin 1	PPE00366A
C11	N/A	XM_005614247	FOXO4	Forkhead box O4	PPE02518A
C12	Eca.12163	NM_001081811	FST	Follistatin	PPE00062A
D01	N/A	XM_001489741	GRN	Granulin	PPE00930A
D02	N/A	XM_001489284	GRP	Gastrin-releasing peptide	PPE00571A
D03	N/A	XM_001487849	HGF	Hepatocyte growth factor-like	PPE07246A
D04	Eca.16087	NM_001099440	IFNB1	Interferon, beta 1, fibroblast	PPE01494A

Position	UniGene	GenBank	Symbol	Description	Assay
D05	Eca.721	NM_001081949	IFNG	Interferon, gamma	PPE00359A
D06	Eca.13090	NM_001082490	IL10	Interleukin 10	PPE00364A
D07	Eca.12627	NM_001082511	IL12A	Interleukin 12A (natural killer cell stimulatory factor 1, cytotoxic lymphocyte maturation factor 1, p35)	PPE00385A
D08	Eca.12460	NM_001082516	IL12B	Interleukin 12B (natural killer cell stimulatory factor 2, cytotoxic lymphocyte maturation factor 2, p40)	PPE00392A
D09	N/A	XM_001498910	IL17F	Interleukin-17F-like	PPE13907A
D10	Eca.12956	NM_001082496	IL6	Interleukin 6 (interferon, beta 2)	PPE00372A
D11	Eca.12984	NM_001163962	KITLG	KIT ligand	PPE00314A
D12	Eca.12764	NM_001163980	LEP	Leptin	PPE00238A
E01	N/A	XM_005608876	LOC100068923	Fibroblast growth factor-binding protein 1-like	PPE13857A
E02	Eca.563	NM_001143793	MIP-2BETA	CXCL3	PPE02633A
E03	N/A	XM_005597794	MYOCD	Myocardin	PPE06928A
E04	N/A	XM_005607522	NPPB	Natriuretic peptide B	PPE09633A
E05	N/A	XM_001915921	NPR1	Natriuretic peptide receptor A/guanylate cyclase A (atrionatriuretic peptide receptor A)	PPE04224A
E06	N/A	XM_005606646	PDGFB	Platelet-derived growth factor beta polypeptide	PPE14294A
E07	N/A	XM_005611797	PDGFD	Platelet derived growth factor D	PPE04095A
E08	N/A	XM_003364674	PF4	Platelet factor 4-like	PPE16369B
E09	N/A	XM_001491442	PGF	Placenta growth factor-like	PPE07844A
E10	N/A	XM_001500502	PLG	Plasminogen	PPE07535A
E11	N/A	XM_005608719	PPBP	Pro-platelet basic protein (chemokine (C-X-C motif) ligand 7)	PPE09580A
E12	Eca.12783	NM_001081896	PRL	Prolactin	PPE00232A
F01	N/A	XM_001496367	PROK1	Prokineticin-1-like	PPE10508A
F02	N/A	XM_001499721	PTN	Pleiotrophin-like	PPE12578A
F03	N/A	XM_005600187	RHOB	Ras homolog family member B	PPE09711A
F04	N/A	XM_001488475	RNH1	Ribonuclease inhibitor-like	PPE07508A
F05	N/A	XM_005615022	RUNX1	Runt-related transcription factor 1	PPE16564A
F06	N/A	XM_001497316	SERPINC1	Serpin peptidase inhibitor, clade C (antithrombin), member 1	PPE04012A
F07	Eca.12939	XM_001492517	SERPINE1	Serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1	PPE00150A
F08	Eca.16812	NM_001143954	SERPINF1	Serpin peptidase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 1	PPE06789A
F09	Eca.13412	XM_005599698	SPINK5	Serine peptidase inhibitor, Kazal type 5	PPE06693A
F10	N/A	XM_001493227	STAB1	Stabillin 1	PPE03710A
F11	N/A	XM_005599909	TGFA	Transforming growth factor, alpha	PPE11152A
F12	Eca.6371	NM_001081849	TGFB1	Transforming growth factor, beta 1	PPE00123A
G01	Eca.678	XM_001503599	THBS1	Thrombospondin 1	PPE02989A
G02	Eca.16687	NM_001163117	THBS2	Thrombospondin 2	PPE00538A
G03	N/A	XM_001503877	THBS4	Thrombospondin-4-like	PPE15242A
G04	N/A	XM_005607436	TIE1	Tyrosine kinase with immunoglobulin-like and EGF-like domains 1	PPE13124A
G05	Eca.671	NM_001082515	TIMP1	TIMP metalloproteinase inhibitor 1	PPE00390A
G06	Eca.5493	XM_005597879	TIMP2	TIMP metalloproteinase inhibitor 2	PPE00319A
G07	Eca.12656	NM_001081870	TIMP3	TIMP metalloproteinase inhibitor 3	PPE00163A
G08	Eca.13019	NM_001081819	TNF	Tumor necrosis factor	PPE00070A
G09	N/A	XM_005613563	TNNI2	Troponin I type 2 (skeletal, fast)	PPE11290A
G10	Eca.12723	NM_001081904	TNNI3	Troponin I type 3 (cardiac)	PPE00260A
G11	N/A	XM_005606824	TYMP	Thymidine phosphorylase	PPE15500A
G12	Eca.12648	NM_001081821	VEGFA	Vascular endothelial growth factor A	PPE00074A
H01	Eca.20971	NM_001081838	ACTB	Actin, beta	PPE00105A
H02	Eca.13489	NM_001082502	B2M	Beta-2-microglobulin	PPE00377A
H03	Eca.487	NM_001163856	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase	PPE00120A
H04	Eca.12727	XM_005614512	HPRT1	Hypoxanthine phosphoribosyltransferase 1	PPE00333A
H05	N/A	XM_001492042	LOC100056766	60S ribosomal protein L32-like	PPE09859A
H06	N/A horse	SA_00139	EGDC	Horse Genomic DNA Contamination	PPE16553A
H07	N/A	SA_00104	RTC	Reverse Transcription Control	PPX63340A
H08	N/A	SA_00104	RTC	Reverse Transcription Control	PPX63340A
H09	N/A	SA_00104	RTC	Reverse Transcription Control	PPX63340A
H10	N/A	SA_00103	PPC	Positive PCR Control	PPX63339A
H11	N/A	SA_00103	PPC	Positive PCR Control	PPX63339A
H12	N/A	SA_00103	PPC	Positive PCR Control	PPX63339A

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 qPCR Mastermix (2)*	For 2 x 96 assays in 96-well plates; suitable for use with real-time cyclers that do not require a reference dye, including: Bio-Rad models CFX96, CFX384, DNA Engine Opticon 2; Bio-Rad/MJ Research Chromo4; Roche LightCycler 480 (96-well and 384-well); all other cyclers	330500
RT ² SYBR Green ROX [™] qPCR Mastermix (2)*	For 2 x 96 assays in 96-well plates; suitable for use with the following real-time cyclers: Applied Biosystems models 5700, 7000, 7300, 7500 [Standard and FAST], 7700, 7900HT 96-well block [Standard and FAST] and 384-well block, StepOnePlus; Eppendorf Mastercycler ep realplex models 2, 2S, 4, 4S; Stratagene models Mx3000P, Mx3005P, Mx4000; Takara TP-800	330520
RT ² SYBR Green Fluor qPCR Mastermix (2)*	For 2 x 96 assays in 96-well plates; suitable for use with the following real-time cyclers: Bio-Rad models iCycler, iQ5, MyiQ, MyiQ2	330510

* 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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