

RT² Profiler PCR Array (Rotor-Gene[®] Format)

Pig TGFb Signaling Targets

Cat. no. 330231 PASS-235ZR

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 Pig TGFb Signaling Targets RT² Profiler PCR Array profiles the expression of 84 key genes responsive to TGF

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	Ssc.32399	NM_001105302	ACL	ATP citrate lyase
A02	Ssc.53896	NM_001164650	ACTA2	Actin, alpha 2, smooth muscle, aorta
A03	Ssc.9902	XM_001927798	ACVR1	Activin A receptor, type 1
A04	N/A	XM_001927136	ACVRL1	Activin A receptor type II-like 1
A05	Ssc.87320	XM_003131892	AIPL1	Aryl hydrocarbon receptor interacting protein-like 1
A06	Ssc.6713	NM_214314	AR	Androgen receptor
A07	Ssc.37849	NM_001123078	ATF4	Activating transcription factor 4 (tax-responsive enhancer element B67)
A08	Ssc.246	NM_001001542	ATP1B1	ATPase, Na ⁺ /K ⁺ transporting, beta 1 polypeptide
A09	Ssc.47934	XM_003132749	BACH1	BTB and CNC homology 1, basic leucine zipper transcription factor 1
A10	Ssc.94302	NM_214285	BCL2L1	BCL2-like 1
A11	Ssc.16243	NM_214259	BDNF	Brain-derived neurotrophic factor
A12	Ssc.20953	NM_001123085	BRD2	Bromodomain containing 2
B01	Ssc.11879	XM_003131471	CDC6	Cell division cycle 6 homolog (S. cerevisiae)
B02	Ssc.6966	NM_214316	CDKN1B	Cyclin-dependent kinase inhibitor 1B (p27, Kip1)
B03	Ssc.32416	NM_001199889	CEBPB	CCAAT/enhancer binding protein (C/EBP), beta
B04	Ssc.80814	NM_001099929	CREB1	CAMP responsive element binding protein 1
B05	Ssc.28489	XM_003124653	CREBBP	CREB binding protein
B06	Ssc.10931	XM_003357294	CRYAB	Crystallin, alpha B
B07	Ssc.25839	NM_214367	CTNNB1	Catenin (cadherin-associated protein), beta 1, 88kDa
B08	Ssc.8473	XM_003130682	DNAJA1	DnaJ (Hsp40) homolog, subfamily A, member 1
B09	Ssc.8845	NM_001099940	EMP1	Epithelial membrane protein 1
B10	Ssc.80004	NM_214031	ENG	Endoglin
B11	Ssc.22177	XM_001929213	EP300	E1A binding protein p300
B12	Ssc.50514	XM_003127693	EPHB2	EPH receptor B2
C01	Ssc.16743	XM_003133641	FN1	Fibronectin 1
C02	Ssc.1555	NM_001123113	FOS	FBJ murine osteosarcoma viral oncogene homolog
C03	Ssc.73	NM_214014	FOXO1	Forkhead box O1
C04	Ssc.93891	XM_003133296	GLI2	GLI family zinc finger 2
C05	Ssc.1650	XM_003124425	GTF2I	General transcription factor Iii
C06	Ssc.56741	NM_001195231	HES1	Hairy and enhancer of split 1, (Drosophila)
C07	Ssc.15661	XM_001928532	HEY1	Hairy/enhancer-of-split related with YRPW motif 1
C08	Ssc.115	NM_001004027	HMOX1	Heme oxygenase (decycling) 1
C09	Ssc.12191	NM_213973	HSP90AA1	90-kDa heat shock protein
C10	Ssc.14914	NM_001037965	ID2	Inhibitor of DNA binding 2, dominant negative helix-loop-helix protein
C11	N/A	NM_001243602	ID3	Inhibitor of DNA binding 3, dominant negative helix-loop-helix protein
C12	Ssc.58494	NM_001007519	IFRD1	Interferon-related developmental regulator 1
D01	Ssc.148	NM_214041	IL10	Interleukin 10
D02	Ssc.54614	XM_003128194	JARID2	Jumonji, AT rich interactive domain 2
D03	Ssc.42011	NM_214323	JUP	Junction plakoglobin
D04	Ssc.17289	NM_001134344	KLF10	Kruppel-like factor 10
D05	Ssc.94009	XM_001929347	LOC100156882	Furin-like
D06	Ssc.8861	XM_003132340	LOC100514873	Class E basic helix-loop-helix protein 40-like
D07	Ssc.20866	XM_003126933	LOC100522677	Transcription factor E2F4-like
D08	Ssc.16450	XM_003132323	LOC100526249	RING1 and YY1-binding protein-like
D09	N/A	XM_003361816	LOC100620797	Focal adhesion kinase 1-like
D10	N/A	XM_003353992	LOC100621090	Growth arrest and DNA damage-inducible protein GADD45 beta-like
D11	Ssc.15829	XM_003131473	LOC396709	Retinoic acid receptor alpha
D12	Ssc.10311	NM_001114280	MAP3K7	Mitogen-activated protein kinase kinase kinase 7
E01	Ssc.11018	XM_001929490	MAPK14	Mitogen-activated protein kinase 14
E02	Ssc.83372	XM_003359272	MAPK8	Mitogen-activated protein kinase 8
E03	Ssc.19376	XM_003121441	MBD1	Methyl-CpG binding domain protein 1

Position	UniGene	GenBank	Symbol	Description
E04	Ssc.904	XM_003121443	ME2	Malic enzyme 2, NAD(+)-dependent, mitochondrial
E05	Ssc.5713	NM_214192	MMP2	Matrix metalloproteinase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase)
E06	Ssc.14368	XM_003129323	MMRN1	Multimerin 1
E07	Ssc.21433	NM_001005154	MYC	V-myc myelocytomatosis viral oncogene homolog (avian)
E08	Ssc.22906	NM_001002824	MYOD1	Myogenic differentiation 1
E09	Ssc.4759	NM_001005150	NFKBIA	Nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha
E10	Ssc.23696	NM_001123146	NNMT	Nicotinamide N-methyltransferase
E11	Ssc.23994	NM_214321	PGHS-2	Prostaglandin G/H synthase-2
E12	Ssc.6994	NM_001206435	PITX2	Paired-like homeodomain 2
F01	Ssc.65489	NM_001044590	PLG	Plasminogen
F02	Ssc.15874	NM_001044526	PPARA	Peroxisome proliferator-activated receptor alpha
F03	Ssc.9991	NM_213916	PTH1H	Parathyroid hormone-like hormone
F04	Ssc.2140	XM_001925998	PTK2B	PTK2B protein tyrosine kinase 2 beta
F05	Ssc.53007	XM_001925279	RBL1	Retinoblastoma-like 1 (p107)
F06	Ssc.6384	NM_001185184	RGS4	Regulator of G-protein signaling 4
F07	Ssc.55690	NM_001244437	RHOA	Ras homolog family member A
F08	Ssc.26417	NM_001123189	RHOB	Ras homolog gene family, member B
F09	Ssc.46480	XM_003132761	RUNX1	Runt-related transcription factor 1
F10	Ssc.17100	NM_001160271	S100A8	S100 calcium binding protein A8
F11	Ssc.9781	NM_213910	SERPINE1	Serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1
F12	Ssc.94808	NM_001244513	SHH	Sonic hedgehog
G01	Ssc.11757	NM_213965	SMAD1	SMAD family member 1
G02	Ssc.15913	NM_214137	SMAD3	SMAD family member 3
G03	N/A	XM_001926127	SMAD6	SMAD family member 6
G04	N/A	XM_003355406	SP1	Sp1 transcription factor
G05	Ssc.54221	XM_003361325	SREBF2	Sterol regulatory element binding transcription factor 2
G06	Ssc.4066	NM_001110173	STC2	Stanniocalcin 2
G07	Ssc.10287	XM_003130499	TGFB2	Transforming growth factor, beta 2
G08	Ssc.924	XM_001927442	THBS1	Thrombospondin 1
G09	Ssc.94376	NM_001024696	TNFSF10	Tumor necrosis factor (ligand) superfamily, member 10
G10	Ssc.16648	NM_001044614	TXNIP	Thioredoxin interacting protein
G11	Ssc.57541	NM_214084	VEGFA	Vascular endothelial growth factor A
G12	Ssc.2423	XM_003133367	ZFP36L2	Zinc finger protein 36, C3H type-like 2
H01	Ssc.10316	XM_003357928	ACTB	Actin, beta
H02	Ssc.73773	NM_213978	B2M	Beta-2-microglobulin
H03	Ssc.16135	NM_001206359	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase
H04	Ssc.4158	NM_001032376	HPRT1	Hypoxanthine phosphoribosyltransferase 1
H05	Ssc.27927	XM_003127305	RPL13A	Ribosomal protein L13a
H06	N/A	SA_00133	SGDC	Pig 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.
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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