

EpiTect® Methyl II Signature PCR Array (22)

Mouse Inflammatory Response & Autoimmunity

Cat. no. 335212 EAMM-521ZA

For DNA methylation analysis using MethylScreen™ technology

The Mouse Inflammatory Response & Autoimmunity EpiTect Methyl II Signature PCR Array profiles the promoter methylation status of a panel of 22 genes whose involvement in inflammation has been well documented. Profiling cellular or fresh tissue DNA samples with these arrays may help correlate CpG island methylation status with anti- or pro-inflammatory responses. The results may also help provide insights into the molecular mechanisms and biological pathways behind inflammatory disease. With a simple restriction enzyme digestion and real-time PCR, research studies can analyze the promoter methylation status of 22 different inflammatory response and autoimmunity genes with this DNA methylation PCR array. The EpiTect Methyl II PCR Arrays use MethylScreen™ technology provided under license from Orion Genomics, LLC. For further details, consult the *EpiTect Methyl II PCR Array Handbook*.

Shipping and storage

EpiTect Methyl II Signature PCR Arrays are shipped at room temperature (15–25°C), on dry ice, or on blue ice depending on the destination and accompanying products. They should be stored at –20°C. Ensure that you have the correct EpiTect Methyl II Signature PCR Array format for your instrument before starting the experiment.

Note: Open the package and store the products appropriately immediately on receipt.



Contents

Product	Contents	Cat. no.
EpiTect Methyl II Signature PCR Array (22) Format A	2, 12, or 24 x 96-well plates, Optical Thin-Wall 8-Cap Strips; for use with the following real-time cyclers: 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®	Varies
EpiTect Methyl II Signature PCR Array (22) Format C	2, 12, or 24 x 96-well plates, Optical Adhesive Film; for use with the following real-time cyclers: Applied Biosystems models 7500 (Fast block), 7900HT (Fast block), StepOnePlus™, ViiA 7 (Fast block)	Varies
EpiTect Methyl II Signature PCR Array (22) Format D	2, 12, or 24 x 96-well plates, Optical Thin-Wall 8-Cap Strips; for use with the following real-time cyclers: Bio-Rad CFX96™; Bio-Rad/MJ Research models DNA Engine Opticon®, DNA Engine Opticon 2; Stratagene Mx4000®	Varies
EpiTect Methyl II Signature PCR Array (22) Format E	4 x 384-well plates, 384EZLoad Covers, Optical Adhesive Film; for use with the following real-time cyclers: Applied Biosystems models 7900HT (384-well block), ViiA 7 (384-well block); Bio-Rad CFX384™	Varies
EpiTect Methyl II Signature PCR Array (22) Format F	2, 12, or 24 x 96-well plates, Optical Adhesive Film; for use with the following real-time cyclers: Roche® LightCycler® 480 (96-well block)	Varies
EpiTect Methyl II Signature PCR Array (22) Format G	4 x 384-well plates, 384EZLoad Covers, Optical Adhesive Film; for use with the following real-time cyclers: Roche: LightCycler 480 (384-well block)	Varies

Array layout

	1	2	3	4	5	6	7	8	9	10	11	12
A	Atf2	Cx3cl1	Cxcl12	Cxcl14	Fadd	Gata3	Il10ra	Il11	Il13	Il13ra1	Il17ra	Il18
B	Il4ra	Il6ra	Il6st	Il7	Inha	Ltb	Mif	Tbck	Tgfb1	Tyk2	EP_SEC	EP_DEC
C	Atf2	Cx3cl1	Cxcl12	Cxcl14	Fadd	Gata3	Il10ra	Il11	Il13	Il13ra1	Il17ra	Il18
D	Il4ra	Il6ra	Il6st	Il7	Inha	Ltb	Mif	Tbck	Tgfb1	Tyk2	EP_SEC	EP_DEC
E	Atf2	Cx3cl1	Cxcl12	Cxcl14	Fadd	Gata3	Il10ra	Il11	Il13	Il13ra1	Il17ra	Il18
F	Il4ra	Il6ra	Il6st	Il7	Inha	Ltb	Mif	Tbck	Tgfb1	Tyk2	EP_SEC	EP_DEC
G	Atf2	Cx3cl1	Cxcl12	Cxcl14	Fadd	Gata3	Il10ra	Il11	Il13	Il13ra1	Il17ra	Il18
H	Il4ra	Il6ra	Il6st	Il7	Inha	Ltb	Mif	Tbck	Tgfb1	Tyk2	EP_SEC	EP_DEC

Gene table

Position	Unigene	GenBank OR miRNA Accession	Gene Symbol OR miRNA ID	Description	Gene Name
A01, C01, E01, G01	Mm.209903	NM_009715	Atf2	Activating transcription factor 2	Atf-2, CRE-BP, Creb2, D130078H02Rik, D18875, MGC105211, MGC105222, Tg(Gzma-Klra1)7Wum, mXBP
A02, C02, E02, G02	Mm.103711	NM_009142	Cx3cl1	Chemokine (C-X3-C motif) ligand 1	AB030188, ABCD-3, AI848747, CX3C, Cxc3, D8Bwg0439e, Scyd1
A03, C03, E03, G03	Mm.303231	NM_021704	Cxcl12	Chemokine (C-X-C motif) ligand 12	AI174028, Pbsf, Scyb12, Sdf1, Sdf1a, Sdf1b, Tlsf, Tlsfa, Tlsfb, Tpar1
A04, C04, E04, G04	Mm.30211	NM_019568	Cxcl14	Chemokine (C-X-C motif) ligand 14	1110031L23Rik, 1200006l23Rik, AI414372, BMAC, BRAK, KS1, Kec, MGC90667, MIP-2g, MIP2gamma, NJAC, Scyb14, bolekine
A05, C05, E05, G05	Mm.5126	NM_010175	Fadd	Fas (TNFRSF6)-associated via death domain	Mort1, FADD
A06, C06, E06, G06	Mm.313866	NM_008091	Gata3	GATA binding protein 3	Gata-3
A07, C07, E07, G07	Mm.379327	NM_008348	Il10ra	Interleukin 10 receptor, alpha	AW553859, CDw210, CDw210a, Il10r, mL-10R
A08, C08, E08, G08	Mm.35814	NM_008350	Il11	Interleukin 11	IL-11
A09, C09, E09, G09	Mm.1284	NM_008355	Il13	Interleukin 13	IL-13
A10, C10, E10, G10	Mm.24208	NM_133990	Il13ra1	Interleukin 13 receptor, alpha 1	AI882074, CD213a1, IL-13r[a], Il13ra, NR4
A11, C11, E11, G11	Mm.4481	NM_008359	Il17ra	Interleukin 17 receptor A	AW538159, Cdw217, Il17r, VDw217
A12, C12, E12, G12	Mm.1410	NM_008360	Il18	Interleukin 18	Igif, IL-18
B01, D01, F01, H01	Mm.233802	NM_001008700	Il4ra	Interleukin 4 receptor, alpha	CD124, Il4r, MGC118473
B02, D02, F02, H02	Mm.2856	NM_010559	Il6ra	Interleukin 6 receptor, alpha	CD126, IL-6R, Il6r, MGC30256
B03, D03, F03, H03	Mm.4364	NM_010560	Il6st	Interleukin 6 signal transducer	5133400A03Rik, AA389424, BB405851, CD130, D13Erd699e, gp130
B04, D04, F04, H04	Mm.3825	NM_008371	Il7	Interleukin 7	A630026l06Rik, IL-7, MGC129342, hlb368
B05, D05, F05, H05	Mm.1100	NM_010564	Inha	Inhibin alpha	AW555078
B06, D06, F06, H06	Mm.1715	NM_008518	Ltb	Lymphotoxin B	AI662801, LTbeta, Tnfc, Tnfsf3, p33
B07, D07, F07, H07	Mm.2326	NM_010798	Mif	Macrophage migration inhibitory factor	GIF, Glif, MGC107654
B08, D08, F08, H08	Mm.257864	NM_173032	Tbck	TBC1 domain containing kinase	1700120J03Rik, 9430001M19, A630047E20Rik, Tbckl
B09, D09, F09, H09	Mm.248380	NM_011577	Tgfb1	Transforming growth factor, beta 1	TGF-beta1, TGFbeta1, Tgfb, Tgfb-1

Position	Unigene	GenBank OR miRNA Accession	Gene Symbol OR miRNA ID	Description	Gene Name
B10, D10, F10, H10	Mm.20249	NM_018793	Tyk2	Tyrosine kinase 2	JTK1
B11, D11, F11, H11	N/A	SA_00148	EP_SEC	SEC-sensitive enzyme control assay	SEC
B12, D12, F12, H12	N/A	SA_00149	EP_DEC	DEC-dependent enzyme control assay	DEC

Related products

Product	Contents	Cat. no.
EpiTect Methyl II DNA Restriction Kit (12)	Reagents for the cleavage of methylated and unmethylated DNA for processing up to 12 DNA samples; 5x Restriction Digestion Buffer, Methylation-sensitive Enzyme A, Methylation-dependent Enzyme B	335452
RT ² SYBR [®] Green qPCR Mastermixes(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; Bio-Rad/MJ Research models Chromo4, DNA Engine Opticon 2; Roche LightCycler 480 (96-well and 384-well); all other cyclers	330500
RT ² SYBR Green ROX [™] qPCR Mastermixes(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	330520
RT ² SYBR Green Fluor qPCR Mastermixes(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
Accessories		
EpiTect Methyl II Custom PCR Array	For methylation analysis of customer-selected genes in a 96-well or 384-well plate format	335112
EpiTect Methyl II Complete PCR Array (94)	For methylation analysis of 94 genes in a 96-well or 384-well plate format	335222
EpiTect Methyl II PCR Assay (200)	Laboratory-tested forward and reverse primers for 200 x 25 µl reactions; 25 µl per primer; total volume: 200 µl	335002
RT ² PCR Array Loading Reservoir	12 x 5 ml capacity, irradiation sterilized reservoirs for convenient sample loading on PCR arrays	338162

* Larger kit sizes available; please inquire.

EpiTect Methyl II Signature PCR Array products are intended for molecular biology applications. These products are not intended for the diagnosis, prevention, or treatment of a disease.

QIAGEN reserves the right to occasionally redesign individual assays on the EpiTect Methyl II PCR Arrays for improved performance. This revision history can be obtained by contacting technical support and providing the batch numbers from your arrays.

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