

EpiTect® Methyl II Signature PCR Array (22)

Mouse Gastric Cancer

Cat. no. 335212 EAMM-021ZE

For DNA methylation analysis using MethylScreen™ technology

The Mouse Gastric Cancer EpiTect Methyl II Signature PCR Array profiles the methylation status of 22 tumor suppressor gene promoters whose hypermethylation has been reported in the literature to occur frequently in a variety of gastric tumors. Profiling tumor samples with these arrays may help correlate CpG island methylation status with biological phenotypes. The results may also provide insights into the molecular mechanisms and biological pathways behind gastric cancer development and progression, as well as its pathology. With a simple restriction enzyme digestion and real-time PCR, research studies can analyze the methylation status of 22 different gastric cancer 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.



Sample & Assay Technologies

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

Gene table

Position	Unigene	GenBank OR miRNA Accession	Gene Symbol OR miRNA ID	Description	Gene Name
A01, A02, B01, B02 E01, E02, F01, F02 I01, I02, J01, J02 M01, M02, N01, N02	Mm.207354	NM_011076	Abcb1a	ATP-binding cassette, sub-family B (MDR/TAP), member 1A	Abcb4, Evi32, Mdr1a, Mdr3, P-gp, Pgp, Pgy-3, Pgy3, mdr-3
A03, A04, B03, B04 E03, E04, F03, F04 I03, I04, J03, J04 M03, M04, N03, N04	Mm.39086	NM_007416	Adra1b	Adrenergic receptor, alpha 1b	[a]1b
A05, A06, B05, B06 E05, E06, F05, F06 I05, I06, J05, J06 M05, M06, N05, N06	Mm.333406	NM_009829	Ccnd2	Cyclin D2	2600016F06Rik, A1256817, BF642806, C86853, Vin-1, Vin1, cD2
A07, A08, B07, B08 E07, E08, F07, F08 I07, I08, J07, J08 M07, M08, N07, N08	Mm.35605	NM_009864	Cdh1	Cadherin 1	AA960649, Ecad, L-CAM, MGC107495, UVO, Um
A09, A10, B09, B10 E09, E10, F09, F10 I09, I10, J09, J10 M09, M10, N09, N10	Mm.334841	NM_019707	Cdh13	Cadherin 13	4932416G01Rik, Cdht, T-cadherin, Tcad
A11, A12, B11, B12 E11, E12, F11, F12 I11, I12, J11, J12 M11, M12, N11, N12	Mm.4733	NM_009877	Cdkn2a	Cyclin-dependent kinase inhibitor 2A	ARF-INK4a, Arf, INK4a-ARF, Ink4a, Arf, MTS1, Pctr1, p16, p16(INK4a), p16INK4a, p19<ARF>, p19ARF
A13, A14, B13, B14 E13, E14, F13, F14 I13, I14, J13, J14 M13, M14, N13, N14	Mm.30264	NM_172717	Chfr	Checkpoint with forkhead and ring finger domains	5730484M20Rik, C230082M18, RNF116
A15, A16, B15, B16 E15, E16, F15, F16 I15, I16, J15, J16 M15, M16, N15, N16	Mm.103593	NM_020265	Dkk2	Dickkopf homolog 2 (Xenopus laevis)	
A17, A18, B17, B18 E17, E18, F17, F18 I17, I18, J17, J18 M17, M18, N17, N18	Mm.397619	NM_010210	Fhit	Fragile histidine triad gene	AW045638, Fra14A2
A19, A20, B19, B20 E19, E20, F19, F20 I19, I20, J19, J20 M19, M20, N19, N20	Mm.4325	NM_010637	Klf4	Kruppel-like factor 4 (gut)	EZF, Gklf, Zie
A21, A22, B21, B22 E21, E22, F21, F22 I21, I22, J21, J22 M21, M22, N21, N22	Mm.172	NM_010728	Lox	Lysyl oxidase	AI893619, TSC-160
A23, A24, B23, B24 E23, E24, F23, F24 I23, I24, J23, J24 M23, M24, N23, N24	Mm.196006	NM_026810	Mlh1	MutL homolog 1 (E. coli)	1110035C23Rik, AI317206, AI325952, AI561766
C01, C02, D01, D02 G01, G02, H01, H02 K01, K02, L01, L02 O01, O02, P01, P02	Mm.3124	NM_028444	Prkcdp	Protein kinase C, delta binding protein	3110015B12Rik, 6330514M23Rik, MGC6598, SRBC
C03, C04, D03, D04 G03, G04, H03, H04 K03, K04, L03, L04 O03, O04, P03, P04	Mm.259318	NM_011243	Rarb	Retinoic acid receptor, beta	A830025K23, Hap, Nr1b2, RARbeta2
C05, C06, D05, D06 G05, G06, H05, H06 K05, K06, L05, L06 O05, O06, P05, P06	Mm.12091	NM_019713	Rassf1	Ras association (RalGDS/AF-6) domain family member 1	123F2, AA536941, AU044980, NORE2A, RDA32, REH3P21, Rassf1A, Rassf1B, Rassf1C
C07, C08, D07, D08 G07, G08, H07, H08 K07, K08, L07, L08 O07, O08, P07, P08	Mm.273862	NM_009029	Rb1	Retinoblastoma 1	Rb, Rb-1, pRb

Position	Unigene	GenBank OR miRNA Accession	Gene Symbol OR miRNA ID	Description	Gene Name
C09, C10, D09, D10 G09, G10, H09, H10 K09, K10, L09, L10 O09, O10, P09, P10	Mm.27086	NM_023396	Rprm	Reprimo, TP53 dependent G2 arrest mediator candidate	2410012A13Rik, Reprimo
C11, C12, D11, D12 G11, G12, H11, H12 K11, K12, L11, L12 O11, O12, P11, P12	Mm.44482	NM_018754	Sfn	Stratifin	Er, Mme1, Ywhas
C13, C14, D13, D14 G13, G14, H13, H14 K13, K14, L13, L14 O13, O14, P13, P14	Mm.19155	NM_009144	Sfrp2	Secreted frizzled-related protein 2	Al851596, Sdf5
C15, C16, D15, D16 G15, G16, H15, H16 K15, K16, L15, L16 O15, O16, P15, P16	Mm.470071	NM_018780	Sfrp5	Secreted frizzled-related sequence protein 5	Al605071, SARP3
C17, C18, D17, D18 G17, G18, H17, H18 K17, K18, L17, L18 O17, O18, P17, P18	Mm.4871	NM_011595	Timp3	Tissue inhibitor of metalloproteinase 3	Timp-3
C19, C20, D19, D20 G19, G20, H19, H20 K19, K20, L19, L20 O19, O20, P19, P20	Mm.245154	NM_019790	Tmeff2	Transmembrane protein with EGF-like and two follistatin-like domains 2	4832418D20Rik, 7630402F16Rik
C21, C22, D21, D22 G21, G22, H21, H22 K21, K22, L21, L22 O21, O22, P21, P22	N/A	SA_00148	EP_SEC	SEC-sensitive enzyme control assay	SEC
C23, C24, D23, D24 G23, G24, H23, H24 K23, K24, L23, L24 O23, O24, P23, P24	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.

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.

Purchaser agrees that use of this product and data therefrom is limited solely to the purchaser and for only the purchaser's own internal molecular biology research applications ("Permitted Use"), and shall not be re-sold or used for any other purposes (all of which are expressly prohibited), including without limitation diagnostic purposes, uses that could require regulatory approval for diagnostics from an agency of any government or regulatory entity anywhere in the world, diagnosis, prevention, or treatment of disease, and the right to perform commercial services of any kind, including without limitation, reporting the results of purchaser's activities, including without limitation, for a fee or other commercial consideration. Except for the Permitted Use, no rights, titles, or interests in or to any tangible or intangible property rights are conveyed or shall be deemed conveyed by implication, estoppel or otherwise. The performance characteristics of the product other than for the Permitted Use are unknown.

Trademarks: QIAGEN®, EpiTect® (QIAGEN Group); MethylScreen™ (Orion Genomics, LLC); Roche®, LightCycler® (Roche Group); Applied Biosystems®, ViiA™, StepOnePlus™ (Applied Biosystems Corporation or its subsidiaries); Eppendorf®, Mastercycler® (Eppendorf AG); Stratagene®, Mx3005P®, Mx3000P®, Mx4000® (Stratagene); Bio-Rad®, iCycler®, Chromo4™, CFX96™, DNA Engine Opticon®, CFX384™, iQ™, MyiQ™ (Bio-Rad Laboratories, Inc.); SYBR® (Molecular Probes, Inc.).

Purchaser agrees that use of this product and data therefrom is limited solely to the purchaser and for only the purchaser's own internal molecular biology research applications ("Permitted Use"), and shall not be re-sold or used for any other purposes (all of which are expressly prohibited), including without limitation diagnostic purposes, uses that could require regulatory approval for diagnostics from an agency of any government or regulatory entity anywhere in the world, diagnosis, prevention, or treatment of disease, and the right to perform commercial services of any kind, including without limitation, reporting the results of purchaser's activities, including without limitation, for a fee or other commercial consideration. Except for the Permitted Use, no rights, titles, or interests in or to any tangible or intangible property rights are conveyed or shall be deemed conveyed by implication, estoppel or otherwise. The performance characteristics of the product other than for the Permitted Use are unknown.

1070931 02/2012 © 2012 QIAGEN, all rights reserved.

www.qiagen.com

Australia ■ 1-800-243-800

Austria ■ 0800/281010

Belgium ■ 0800-79612

Brazil ■ 0800-557779

Canada ■ 800-572-9613

China ■ 8621-3865-3865

Denmark ■ 80-885945

Finland ■ 0800-914416

France ■ 01-60-920-930

Germany ■ 02103-29-12000

Hong Kong ■ 800 933 965

Ireland ■ 1800 555 049

Italy ■ 800-787980

Japan ■ 03-6890-7300

Korea (South) ■ 080-000-7145

Luxembourg ■ 8002 2076

Mexico ■ 01-800-7742-436

The Netherlands ■ 0800 0229592

Norway ■ 800-18859

Singapore ■ 1800-742-4368

Spain ■ 91-630-7050

Sweden ■ 020-790282

Switzerland ■ 055-254-22-11

UK ■ 01293-422-911

USA ■ 800-426-8157



Sample & Assay Technologies