

EpiTect® Methyl II Signature PCR Array (22)

Mouse Gastric Cancer

Cat. no. 335212 EAMM-021ZA

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

Array layout

	1	2	3	4	5	6	7	8	9	10	11	12
A	Abcb1a	Adra1b	Ccnd2	Cdh1	Cdh13	Cdkn2a	Chfr	Dkk2	Fhit	Klf4	Lox	Mlh1
B	Prkcdbp	Rarb	Rassf1	Rb1	Rprm	Sfn	Sfrp2	Sfrp5	Timp3	Tmeff2	EP_SEC	EP_DEC
C	Abcb1a	Adra1b	Ccnd2	Cdh1	Cdh13	Cdkn2a	Chfr	Dkk2	Fhit	Klf4	Lox	Mlh1
D	Prkcdbp	Rarb	Rassf1	Rb1	Rprm	Sfn	Sfrp2	Sfrp5	Timp3	Tmeff2	EP_SEC	EP_DEC
E	Abcb1a	Adra1b	Ccnd2	Cdh1	Cdh13	Cdkn2a	Chfr	Dkk2	Fhit	Klf4	Lox	Mlh1
F	Prkcdbp	Rarb	Rassf1	Rb1	Rprm	Sfn	Sfrp2	Sfrp5	Timp3	Tmeff2	EP_SEC	EP_DEC
G	Abcb1a	Adra1b	Ccnd2	Cdh1	Cdh13	Cdkn2a	Chfr	Dkk2	Fhit	Klf4	Lox	Mlh1
H	Prkcdbp	Rarb	Rassf1	Rb1	Rprm	Sfn	Sfrp2	Sfrp5	Timp3	Tmeff2	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.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
A02, C02, E02, G02	Mm.39086	NM_007416	Adra1b	Adrenergic receptor, alpha 1b	[a]1b
A03, C03, E03, G03	Mm.333406	NM_009829	Ccnd2	Cyclin D2	2600016F06Rik, A1256817, BF642806, C86853, Vin-1, Vin1, cD2
A04, C04, E04, G04	Mm.35605	NM_009864	Cdh1	Cadherin 1	AA960649, Ecad, L-CAM, MGC107495, UVO, Um
A05, C05, E05, G05	Mm.334841	NM_019707	Cdh13	Cadherin 13	4932416G01Rik, Cdht, T-cadherin, Tcad
A06, C06, E06, G06	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
A07, C07, E07, G07	Mm.30264	NM_172717	Chfr	Checkpoint with forkhead and ring finger domains	5730484M20Rik, C230082M18, RNF116
A08, C08, E08, G08	Mm.103593	NM_020265	Dkk2	Dickkopf homolog 2 (Xenopus laevis)	
A09, C09, E09, G09	Mm.397619	NM_010210	Fhit	Fragile histidine triad gene	AW045638, Fra14A2
A10, C10, E10, G10	Mm.4325	NM_010637	Klf4	Kruppel-like factor 4 (gut)	EZF, Gklf, Zie
A11, C11, E11, G11	Mm.172	NM_010728	Lox	Lysyl oxidase	A1893619, TSC-160
A12, C12, E12, G12	Mm.196006	NM_026810	Mlh1	MutL homolog 1 (E. coli)	1110035C23Rik, A1317206, A1325952, A1561766
B01, D01, F01, H01	Mm.3124	NM_028444	Prkcdbp	Protein kinase C, delta binding protein	3110015B12Rik, 6330514M23Rik, MGC6598, SRBC
B02, D02, F02, H02	Mm.259318	NM_011243	Rarb	Retinoic acid receptor, beta	A830025K23, Hap, Nr1b2, RARbeta2
B03, D03, F03, H03	Mm.12091	NM_019713	Rassf1	Ras association (RalGDS/AF-6) domain family member 1	123F2, AA536941, AU044980, NORE2A, RDA32, REH3P21, Rassf1A, Rassf1B, Rassf1C
B04, D04, F04, H04	Mm.273862	NM_009029	Rb1	Retinoblastoma 1	Rb, Rb-1, pRb
B05, D05, F05, H05	Mm.27086	NM_023396	Rprm	Reprimo, TP53 dependent G2 arrest mediator candidate	2410012A13Rik, Reprimo
B06, D06, F06, H06	Mm.44482	NM_018754	Sfn	Stratifin	Er, Mme1, Ywhas
B07, D07, F07, H07	Mm.19155	NM_009144	Sfrp2	Secreted frizzled-related protein 2	A1851596, Sdf5
B08, D08, F08, H08	Mm.470071	NM_018780	Sfrp5	Secreted frizzled-related sequence protein 5	A1605071, SARP3
B09, D09, F09, H09	Mm.4871	NM_011595	Timp3	Tissue inhibitor of metalloproteinase 3	Timp-3
B10, D10, F10, H10	Mm.245154	NM_019790	Tmeff2	Transmembrane protein with EGF-like and two follistatin-like domains 2	4832418D20Rik, 7630402F16Rik
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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