Mouse Low Methylated Genomic DNA Control



Product Highlights

- Mouse Low Methylated Genomic DNA is derived from liver tissue and chemically and enzymatically methylated resulting in less than 5% methylation
- Ideal for use as control in bisulfite methylation analysis procedures including Pyrosequencing, targeted NGS, and MS-HRM
- > Tested on gene specific and global methylation assays for consistent performance
- Requires bisulfite modification prior to use

Product Contents

1 vial Mouse Low Methylated Genomic DNA (5 μ g at 100 ng/ μ L, < 5% Methylation)

Ordering Information

| CATALOG NUMBER | PRODUCT | PRICE |
|----------------|---|----------|
| 80-8064-MGUM5 | Mouse low methylated genomic DNA (5 μ g at 100 ng/ μ L) | \$252.56 |

Related Products

| CATALOG NUMBER | PRODUCT | PRICE |
|------------------|--|----------|
| 80-8061-HGHM5 | Human high methylated genomic DNA (5 μ g at 100 ng/ μ L) | \$242.83 |
| 80-8063-MGHM5 | Mouse high methylated genomic DNA (5 μ g at 100 ng/ μ L) | \$252.56 |
| 80-8065-RGHM5 | Rat high methylated genomic DNA (5 μg at 100 ng/ μL) | \$252.56 |
| 80-8067-PMGHM5 | Monkey (<i>Macaca mulatta</i>) high methylated genomic DNA (5 μ g at 100 ng/ μ L) | \$281.63 |
| 80-8062-HGUM5 | Human low methylated genomic DNA (5 μ g at 100 ng/ μ L) | \$242.83 |
| 80-8066-RGUM5 | Rat low methylated genomic DNA (5 μ g at 100 ng/ μ L) | \$252.56 |
| 80-8068-PMGUM5 | Monkey (<i>Macaca mulatta</i>) low methylated genomic DNA (5 μ g at 100 ng/ μ L) | \$281.63 |
| 80-8060H-PREMIX | Human Premixed Calibration Standard (1 μ g per vial, 20 μ L volume) | \$386.56 |
| 80-8060M-PREMIX | Mouse Premixed Calibration Standard (1 µg per vial, 20 µL volume) | \$402.40 |
| 80-8060R-PREMIX | Rat Premixed Calibration Standard (1 μ g per vial, 20 μ L volume) | \$402.40 |
| 80-8060PM-PREMIX | Monkey (<i>Macaca mulatta</i>) Premixed Calibration Standard (1 µg per vial, 20 µL volume) | \$412.46 |

Contact our office by email or phone to place an order.

EpigenDx, Inc. 96 South Street, Hopkinton, MA 01740 Email: info@epigendx.com Tel: (508) 497-9400 Toll Free: (800) 941-6884 Fax: (508)497-9450 Website: labs.epigendx.com

Technical Specifications

- ▶ 5µg DNA in TE buffer (10mM Tris-HCl, 1mM EDTA, pH 8.0)
- Store at -20°C, in aliquots, for 2 years. For best results, do not freeze/thaw an individual aliquot more than three times. For longer term storage -70°C is recommended.

Example Protocol

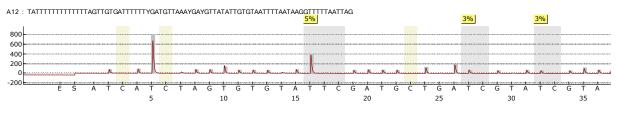
- Bisulfite modification of Premix and sample(s) of interest.
 - Zymo Research EZ Methylation kit (Cat.#D5002 or D5004) with 200 500 ng of input DNA following manufacturers recommended protocol.
- PCR amplification Protocol

| Component | Per 30µl reaction |
|--|------------------------------------|
| 0X PCR buffer (Contains 15mM MgCl ₂) | 3 µl (1x) |
| 25 mM MgCl ₂ | 1.8 μl (3.0 mM final conc.) |
| 10 mM dNTPs | 0.6 μl (200 μM of each) |
| 10 µM Fwd primer | 0.6 µl (6 pmol) |
| 10 µM Rev primer | 0.6 ul (6 pmol) |
| HotStar Taq Polymerase (5 U/µl) | 0.15 µl (0.75 U) |
| DNA | 1 μl of bisulfite treated DNA |
| Water | Adjust to 30 µl |

- HotStar Taq Polymerase Qiagen Cat. #203205 recommended with the following PCR cycling conditions:
 95°C 15 min; 45 x (95°C 30s; Ta°C 30 s; 72°C 30 s); 72°C 5 min; 4°C ∞
- o Additional optimization is needed if different PCR system is used in analysis.
- Sequencing Analysis: Pyrosequencing, NGS, or MS-HRM.

Example Quality Control Results

Figure: Low Methylated Control DNA Tested on a Mouse II6 Methylation Assay: *Pyrogram showing approximately 0% methylation at all CpG sites*



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