

Rhesus Monkey High Methylated Genomic DNA Control



Product Highlights

- ▶ Rhesus Monkey High Methylated Genomic DNA is derived from liver and *in vitro* enzymatically methylated resulting in greater than 85% methylation
- ▶ Ideal for use as control in bisulfite methylation analysis procedures including Pyrosequencing, targeted NGS, and Methylation Sensitive High-Resolution Melting (MS-HRM)
- ▶ Tested on gene specific and global methylation assays for consistent performance
- ▶ Requires bisulfite modification prior to use

Product Contents

1 vial Rhesus Monkey High Methylated Genomic DNA (5 µg at 100 ng/µL, > 85% Methylation)

Ordering Information

| CATALOG NUMBER | PRODUCT | PRICE |
|----------------|--|----------|
| 80-8067-PMGH5 | Rhesus Monkey high methylated genomic DNA (5 µg at 100 ng/ µL) | \$409.75 |

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 |
|---|-------------------------------|
| 10X 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 Forward primer | 0.6 µL (6 pmol) |
| 10 µM Reverse primer | 0.6 µL (6 pmol) |
| HotStart Taq Polymerase (5 U/µl) | 0.15 µL (0.75 U) |
| DNA | 1 µL of bisulfite treated DNA |
| Water | Adjust to 30 µL |

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- HotStart 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 ∞
 - Additional optimization is needed if different PCR system is used in analysis.
- ▶ Sequencing Analysis: Pyrosequencing, NGS, or MS-HRM.

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.

Intended Use: FOR RESEARCH USE ONLY

Example Quality Control Results

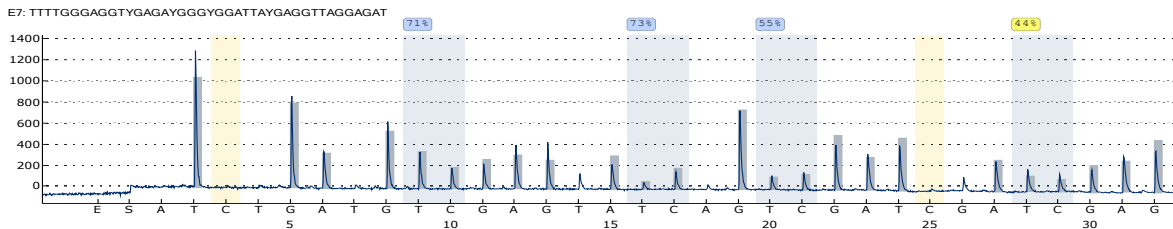


Figure: High Methylated Control DNA Tested on a Rhesus Monkey *L1NE-1* Methylation Assay via Pyrosequencing Pyrogram showing approximately 60% methylation at all CpG sites

*Due to the repetitive nature of *L1NE-1*, approximately 60% methylation is to be expected for high control

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