

Datasheet for ABIN2866124

Fully Methylated Jurkat DNA

Overview

Quantity:	10 µg
Oligo-Type:	Chromatin and DNA
Application:	Control (Ct)

Product Details

Brand:	MethylCollector™
Purity:	
Components:	Contents: Fully Methylated Jurkat DNA 200 µL (50 ng/µl) BRCA1 forward and reverse primer mix 400 µL (2.5 pmol/µl each primer) Fully Methylated Jurkat DNA is provided undigested.

Application Details

Comment:	<p>To use Fully Methylated Jurkat DNA as a control in the MethylCollector™ Kit, it must first be digested with a restriction enzyme of choice like Mse I, Bfa I, Tas I or Csp6 I. Also, the Fully Methylated Jurkat DNA must be used with the BRCA1 primers for use as a control in the MethylCollector Kit. Fully Methylated Jurkat DNA is quality control tested with the MethylCollector Kit. Reactions were performed as described in the MethylCollector manual. Briefly, Fully Methylated Jurkat DNA was tested in parallel with Jurkat Genomic DNA in a MethylCollector assay with and without the MBD2b capture protein. The eluted DNA was subsequently analyzed by PCR with BRCA1 primers that flank a locus in the BRCA1 gene known to contain 18 CpG sites. 5 µl DNA resulting from the MethylCollector assay was subjected to 36 rounds of PCR with the BRCA1 primers. No product was observed from samples assayed without MBD2b capture protein (lanes 2 and 3). No PCR product resulted from Jurkat Genomic DNA assayed with 1 µg MBD2b (lane 4), however, PCR product resulted from Fully Methylated DNA assayed with 1 µg MBD2b demonstrating successful capture of methylated DNA (lane 5). Input DNA resulted in bands of equal intensity, indicating that the same amount of each control DNAs had been used in the MethylCollector assay (lanes 6 and 7). PCR Reaction Conditions:</p>
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Application Details

BRCA1 primers result in a 166 bp product 5 µl DNA sample 9.8 µl PCR Grade Water 2.5 µl 10X PCR Buffer 2.5 µl 10X PCR Loading Dye 1 µl 5 mM dNTP Mix 4 µl BRCA1 Primer Mix 0.2 µl Taq 5 U/µl Cycle Conditions: 94°C 3 minutes followed by 36 rounds of: 94°C 20 seconds, 55°C 30 seconds, 72°C 30 seconds

Restrictions: For Research Use only

Handling

Storage: -20 °C

Storage Comment: Store at -20°C. This product is guaranteed stable for 6 months from date of receipt when stored properly.

Expiry Date: 6 months

Publications

Product cited in: Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)