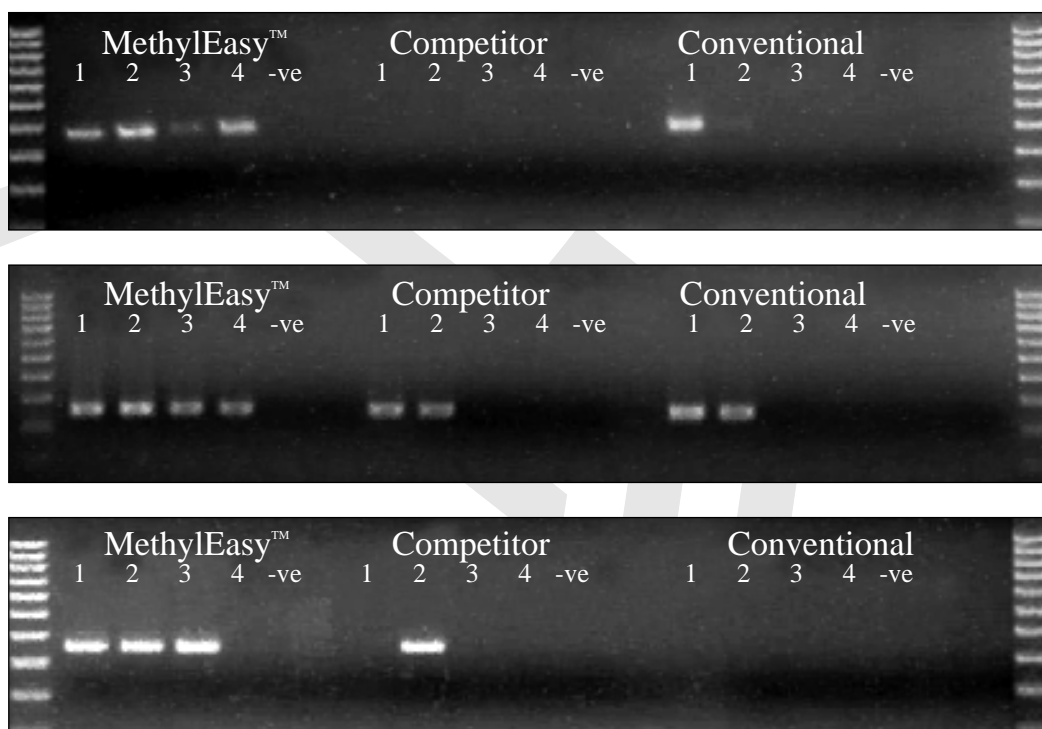




# HUMAN GENETIC SIGNATURES

## Technical Note I :

Sensitivity of DNA Bisulphite Conversion Technology using **MethylEasy™** compared to a Competing Kit and Conventional Treatment



Sensitivity of DNA modification technology using **MethylEasy™** compared to bisulphite treatment using a competing kit and conventional bisulphite treatment. Comparison is provided for three different genes. These genes were amplified by PCR from bisulphite treated genomic DNA. In each case:

Lane 1: 100 ng of starting DNA

Lane 2: 10 ng of starting DNA

Lane 3: 1 ng of starting DNA

Lane 4: 100 pg of starting DNA

Lane 5: No DNA control

US and International Patents Pending

For further information on **MethylEasy™**, visit our website at [www.geneticsignatures.com](http://www.geneticsignatures.com)

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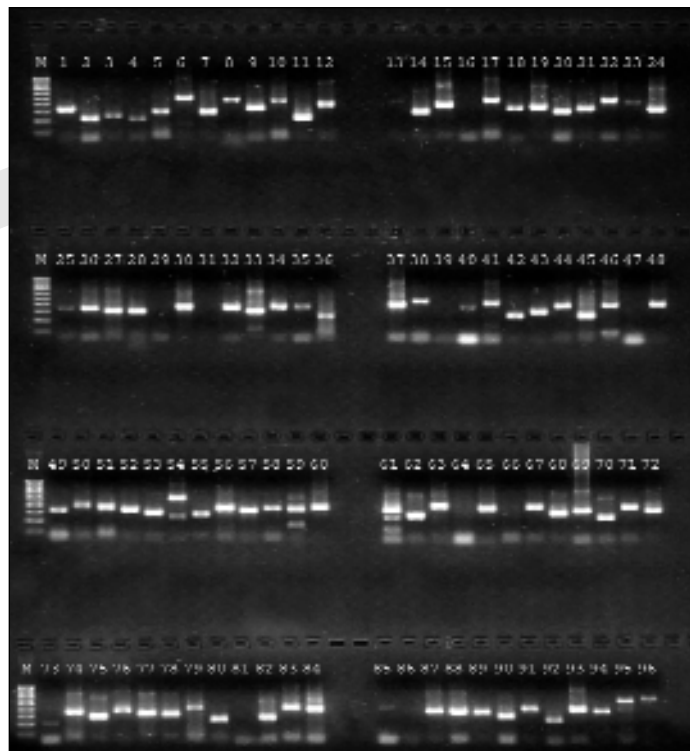
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# HUMAN GENETIC SIGNATURES

## Technical Note 2 :

Typical PCR results after **MethylEasy**<sup>™</sup> conversion of Genomic DNA



Genome-wide PCR representation of 96 different loci following **MethylEasy**<sup>™</sup>  
Conversion of 2  $\mu$ g of DNA.

This demonstrates the efficiency of the **MethylEasy**<sup>™</sup> procedure over the whole genome.

Two  $\mu$ g of genomic DNA was extracted from human granulocytes and then subjected to **MethylEasy**<sup>™</sup> conversion and resuspended in 100  $\mu$ l of **MethylEasy**<sup>™</sup> Reagent #3. Ninety six individual bisulphite primer sets were used for PCR amplification using 0.5  $\mu$ l (10 ng) of **MethylEasy**<sup>™</sup> converted DNA in each amplification reaction according to the **MethylEasy**<sup>™</sup> method. 1/10th of each amplified sample was electrophoresed on a 2% agarose gel. M=100 bp DNA ladder.

US and International Patents Pending

For further information on **MethylEasy**<sup>™</sup>, visit our website at [www.geneticsignatures.com](http://www.geneticsignatures.com)

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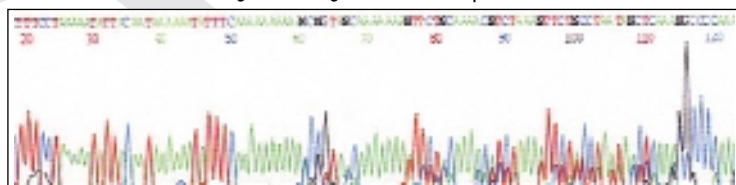


# HUMAN GENETIC SIGNATURES

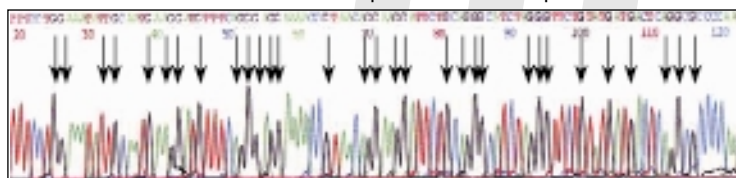
## Technical Note 3 :

Comparison of DNA sequence from PCR fragment generated with **MethylEasy™** and Conventional Bisulphite Treatment

### **MethylEasy™** PCR product



### Conventional bisulphite PCR product



Arrows denote blocked sites.

Comparison of DNA sequence obtained from a PCR fragment generated with **MethylEasy™** and conventional bisulphite treatment. The conventional bisulphite treatment results in significantly more “blocked” sites. i.e. sites where bisulphite conversion of unmethylated cytosines has not occurred.

US and International Patents Pending

For further information on **MethylEasy™**, visit our website at [www.geneticsignatures.com](http://www.geneticsignatures.com)

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