



## **Supplemental Material to:**

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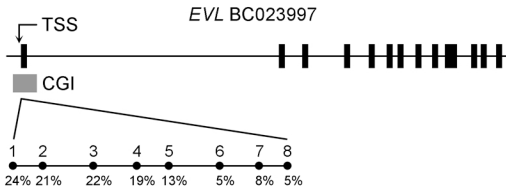
**Patterns of DNA methylation in the normal colon vary by  
anatomical location, gender, and age**

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**<http://dx.doi.org/10.4161/epi.27650>**

**[http://www.landesbioscience.com/journals/epigenetics/  
article/27650/](http://www.landesbioscience.com/journals/epigenetics/article/27650/)**

# Supplemental Figure 1



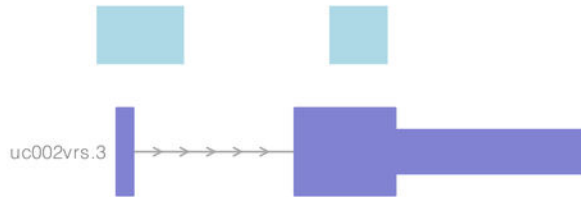
# B3GNT7 (GeneID: 93010)



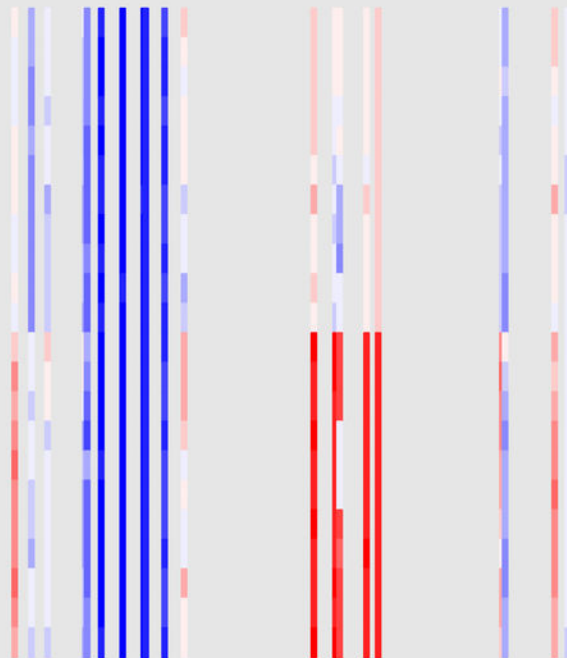
## Supplemental Figure 2

CpG Island

Gene Model



Methylation Profile



RS11-117-R  
RS11-088-R  
RS11-091-R  
RS11-106-R  
RS11-090-R  
RS12-056-R  
RS11-092-R  
RS11-111-R  
RS11-104-R  
RS11-105-R  
RS11-089-R  
RS12-056-A  
RS11-091-A  
RS11-090-A  
RS12-048-A  
RS11-104-A  
RS11-092-A  
RS11-105-A  
RS11-088-A  
RS11-117-A  
RS11-106-A  
RS11-089-A

Methylation  
(Beta value)



**Supplemental Table 1.** Primer sequences and annealing temperatures used in pyrosequencing

Gene/Element	Primer	Sequence	Location	Annealing temp (°C)
LINE-1	F	TTTTGAGTTAGGTGTGGGATATA		56
	R	AAAATCAAAAAATTCCTTTC		
	S	AGTTAGGTGTGGGATATAGT		
SAT- $\alpha$	F	AGAGTAGGTTTTTGTATGGAGTAT		56
	R	ACTTCACCCAAAAAATATTCAACT		
	S	ATATTGGGATTTTTTGTAGAA		
<i>EVL</i>	F	GGGGTTAGGAGGGGATTGGA	+95	56
	R	TCTCAACACAACAACCAAAAACTA		
	S	AGGAGGGGATTGGAGGA		
<i>MGMT</i>	F	GGGGAAAGGTGGGTAATAT	+236	56
	R	CCCCAATATACTAAAACAACCC		
	S	GGGAGAGAGGAGATTTAGATATTTA		
<i>CDKN2A</i>	F	GGTTGAGGAGAGGGGGAGA	+167	56
	R	CCTAATTCCAATTCCCCTACAACTT		
	S	CCCCCCCCTCCAACA		
<i>ESR1</i>	F	GGGTAGGGTAGGGGTTAGAG	+210	56
	R	ATCCCCCAAAACAAAAAATCTAAA		
	S	GGGTAGGGGTTAGAGT		

The primer sequences and associated annealing temperatures used in the pyrosequencing reactions are listed. F indicates forward primer; R reverse primer; S sequencing primer. 'Location' refers to the start of the region amplified with respect to the transcription start site (TSS) (e.g. '+95' means 95 nucleotides downstream from the TSS).