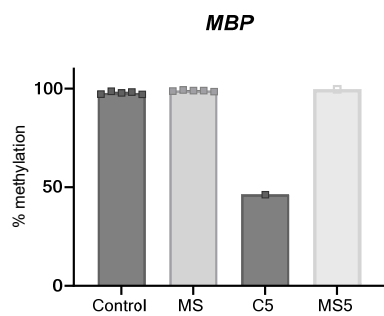


Supplementary information

Supplementary Table S1: Pyrosequencing primer list

Target gene	Forward primer (5'-3')	Reverse primer (5'-3')	Sequencing primer (5'-3')
MBP	GTTTGGTAGGATGTTTATTTAGTTGA	TCTATAACCCCATCACCCAACTCTC	GGATGTTTATTTAGTTGATTAGG
MAG	AGGGTGATAGGGATGGAAGAT	AAAAAAACACAAAAAACCTTATCAC	GGAAAGAGTTAGGAGAATTTA
CNTN2	GAGGGGGGTGAGATAATAGT	CCTACCAACTCTAAAATCTAAATACTCA	TGAGATAATAGTGATAGTTTGA
BCAS1	GGAGTATATAGTTGAGGGGGTTGATAG	CTCAAAAACCTAAACTCTAACCTAAATT	GGAAGTATAGTAGTTTGTTTATAAT
PAR3	AGGGAGAGGGTAGGGTAGAAA	CCCCTTCCCCTTTCTTTATC	AGAAATTTAGTAGAGTAAGTTGTAG



Supplementary Figure S1: To exclude the possibility of technical artifacts, we always included a control (C5) and an MS (MS5) sample from cohort 1 in the other experiments, consistently observing hypomethylation in the control sample.