Table S2. Targeted next generation bisulfite sequencing of EPIC identified genes.

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 **EPIC CpG with tNGS All CpGs in tNGS Assay**

 **Avg. Samp. % Meth. % Meth. beta % Meth. % Meth. beta**

**Gene Location # CpG Sites Reads Healthy CF value Healthy CF value**

CD6 Chr11: 60971523-60971547 3 1755 78.2 43.8 (-) 0.344 74.6 39.7 (-) 0.349

HOOK2 Chr19: 12766206-12766077 16 1906 56.6 24.6 (-) 0.32 57.2 25.5 (-) 0.317

LSP1 Chr11: 1890218-1890342 13 468 73.0 43.8 (-) 0.292 59.5 32.0 (-) 0.275

RGS12 Chr4: 337121-3371370 9 649 13.0 42.2 (+) 0.291 13.4 44.7 (+) 0.313

SH3PXD2A Chr10: 103758048-1037579587 7 646 22.2 3.8 (-) 0.184 32.7 8.2 (-) 0.245

UPP1 Chr7: 1890218-1890342 12 423 2.5 28.8 (+) 0.263 3.6 29.6 (+) 0.26

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