

Supplementary information

Table S1. PCR primers

Gene	Location	Primer sequences	T _m (°C)
<i>ENPEP</i>	Exon 2	Forward: CAGCTGTTCACTTCCCATAA Reverse: CACTTCCCCTCACCAAAG	59.1
	Exon 10	Forward: GGACCAGACAGATGGGTTATC Reverse: CAGCCTCACTTCTCACTCTTAC	59.1
	Promoter	Forward: TTTAGGTTGAGTGGTAAAGGTTGAG Reverse: TACAAAAAATTATCACAACCTCCCC	58.3
<i>TET2</i>	Exon 3	Forward: TGGAGAAAGACGTAACCTTCG Reverse: TGGAGAAAGACGTAACCTTCG	55.8
	Exon 6	Forward: GTCCATTCTAGTGCCTGCTAAA Reverse: AGACACTCTGACTGCTCCTAA	55.8

Table S2. Antibodies

Antibody	Catalog number	Host	Application	Concentration/Dilution
Anti-TET1	GTX124207 (GeneTex)	Rabbit	ChIP	1.05 mg/mL
Anti-TET2	A304-247A (Bethyl Laboratories)	Rabbit	ChIP, ICC	1 mg/mL, 1:200
Anti-TET3	GTX121453 (GeneTex)	Rabbit	ChIP	1 mg/mL
Anti-ENPEP	MA1028 (Invitrogen)	Mouse	WB	1:1000
Anti-β-actin	A5316 (Sigma- Aldrich)	Mouse	WB	1:10000
Anti-ENPEP	MA5-25787(Invitrogen)	Mouse	ICC	1:100

Table S3. TaqMan qPCR Primers

Gene symbols	Assay ID
<i>POU5F1(OCT4)</i>	Hs00999632_g1
<i>GATA2</i>	Hs00231119_m1
<i>GATA3</i>	Hs00231122_m1
<i>KRT7</i>	Hs00559840_m
<i>TFAP2C</i>	Hs00231476_m1
<i>CGB3</i>	Hs00361224_gH
<i>ERVW-1</i>	Hs00205893_m1
<i>SDC1</i>	Hs04966523_m1
<i>GCM1</i>	Hs00172692_m1
<i>HLA-G</i>	Hs00365950_g1
<i>MMP2</i>	Hs01548727_m1
<i>ENPEP</i>	Hs00989749_m1
<i>DNMT1</i>	Hs00945875_m1
<i>DNMT3A</i>	Hs01027162_m1
<i>DNMT3B</i>	Hs00171876_m1
<i>DNMT3L</i>	Hs01081364_m1
<i>TET1</i>	Hs04189344_g1
<i>TET2</i>	Hs00325999_m1
<i>TET3</i>	Hs00896441_m1
<i>has-miR-103</i>	000439
<i>hsa-miR-525b-3p</i>	002385
<i>has-miR-517a</i>	002402
<i>has-miR-517</i>	001113

Table S4. Primer sequences for ChIP-qPCR

Primer	Sequences
ENPEP-1	Forward: CACCCAATTCCAGGATATGAC Reverse: GCAATCTCTCCCTCCTAACTA

ENPEP-2 Forward: GGGTGGAGATGCGTCGTTTA
Reverse: GCTTCTTGCGCCTTTCCTC
ENPEP-3 Forward: CCTCCCGTTGGCTGATA
Reverse: GGAATGAGGACTCCGTAAGA
