Supplementary Table 9C. Statistically significant GO molecular functions revealed by MetaCore software analysis using the 101 genes, for which the 255 probes belonging to Probe Cluster I and showing significant (P < 0.05) inverse correlation (r < -0.2) between DNA methylation levels and the mRNA expression levels in the endometrial cancer dataset deposited in The Cancer Genome Atlas database (https://tcgadata.nci.nih.gov/tcga/) were designed.

Molecular functions	<i>P</i> value
DNA binding	5.91 ×10 ⁻⁶
transcription regulator activity	1.50 ×10 ⁻⁵
DNA binding transcription factor activity	2.95×10 ⁻⁵
RNA polymerase II transcription factor activity, sequence-specific DNA binding	5.58×10 ⁻⁵
calcium ion binding	6.12×10 ⁻⁴
nucleic acid binding	9.13×10 ⁻⁴
cell adhesion molecule binding	3.14×10 ⁻³
structural molecule activity conferring elasticity	3.23×10 ⁻³
electron transfer activity	4.33×10 ⁻³
integrin binding	4.33×10 ⁻³
binding	4.38×10 ⁻³
cysteine dioxygenase activity	4.48×10 ⁻³
transcriptional repressor activity, RNA polymerase II transcription factor binding	6.47×10 ⁻³
glycolipid binding	7.45×10 ⁻³
metal ion binding	8.21×10 ⁻³
thymidine kinase activity	8.94×10 ⁻³
branched-chain-amino-acid transaminase activity	8.94×10 ⁻³
L-leucine transaminase activity	8.94×10 ⁻³
L-isoleucine transaminase activity	8.94×10 ⁻³
L-valine transaminase activity	8.94×10 ⁻³
integrin binding involved in cell-matrix adhesion	8.94×10 ⁻³
interleukin-1, Type I, activating receptor activity	8.94×10 ⁻³
deoxycytidine kinase activity	8.94×10 ⁻³
heme-copper terminal oxidase activity	9.02×10 ⁻³
cytochrome-c oxidase activity	9.02×10 ⁻³
oxidoreductase activity, acting on a heme group of donors, oxygen as acceptor	9.02×10 ⁻³
oxidoreductase activity, acting on a heme group of donors	9.57×10 ⁻³
cation binding	0.012
endothelin receptor activity	0.013
type II activin receptor binding	0.013
natriuretic peptide receptor activity	0.013
ion binding	0.015
guanine/thymine mispair binding	0.018
ganglioside binding	0.018
deoxynucleoside kinase activity	0.018
leukotriene-C4 synthase activity	0.018

beta-1 adrenergic receptor binding	0.018
heterocyclic compound binding	0.021
IgG receptor activity	0.022
regulatory region RNA binding	0.022
receptor-receptor interaction	0.022
Roundabout binding	0.022
L-glutamine transmembrane transporter activity	0.027
organic cyclic compound binding	0.027
cell-matrix adhesion mediator activity	0.031
extracellular matrix constituent conferring elasticity	0.031
epoxide hydrolase activity	0.031
peptide receptor activity	0.033
protein heterodimerization activity	0.035
MutSalpha complex binding	0.035
interleukin-1 receptor activity	0.035
GPI anchor binding	0.040
ceramide binding	0.044
NAD binding	0.046
myosin binding	0.047
activin receptor binding	0.048
immunoglobulin receptor activity	0.048
mismatch repair complex binding	0.048
I-SMAD binding	0.048