

## Supplemental Figure Legends

### *Supplemental Fig. 1*

The distribution of the average number of probes that covered (A) a single CGI or (B) a single promoter. 95% (74%) of CGIs (promoters) were covered by multiple probes.

### *Supplemental Fig. 2*

Correlation between the fraction of DNA molecules immunoprecipitated by an anti-5-methylcytosine antibody and individual output values in MeDIP-CGI microarray analysis. The fraction of DNA molecules immunoprecipitated by the anti-5-methylcytosine antibody was calculated from copy numbers obtained by real-time PCR. The signal log ratio did not show linear correlation, and normalization using the Median normalization and the Lowess normalization was not effective. The P[Xbar] value showed a relatively high correlation coefficient. The Me value showed the highest correlation coefficient.

### *Supplemental Fig. 3*

Determination of an appropriate cutoff Me value for methylated (unmethylated) CGIs. Methylation statuses of 113 CGIs were analyzed by qualitative MSP in four cell lines. Sensitivity and specificity for methylated (unmethylated) CGIs were calculated as [# of CGIs assessed as HM (UM) by MeDIP-CGI microarray among CGIs determined as methylated (unmethylated) by MSP] and [# of CGIs assessed as MM and UM (HM and MM) by MeDIP-CGI microarray among CGIs determined as partially methylated and unmethylated (partially methylated and methylated) by MSP], respectively. Arrowheads indicate selected cutoff. (A) Determination of the cutoff Me value for unmethylated CGIs. Cutoff values between 0.2 and 0.7 were tested, and a value of 0.4 was selected as a value of reasonable

sensitivity and specificity. (B) Determination of the cutoff Me value for highly methylated CGIs. Cutoff values between 0.3 and 0.8 were tested, and a value of 0.6 was selected.

#### ***Supplemental Fig. 4***

Genome-wide methylation analysis of CGIs in four gastric cancer cell lines and normal gastric tissue. (A) Fraction of methylated CGIs according to their relative positions against genes. Promoters were resistant to methylation. (B) Methylation levels in the CGIs spanning both a promoter region and gene body. The average of site Me values was plotted. Promoter was most resistant to methylation. (C, D) Methylation levels according to distances from repetitive sequences, LINE (C) and SINE (D). CGIs closer to repetitive sequences had lower Me values.

#### ***Supplemental Fig. 5***

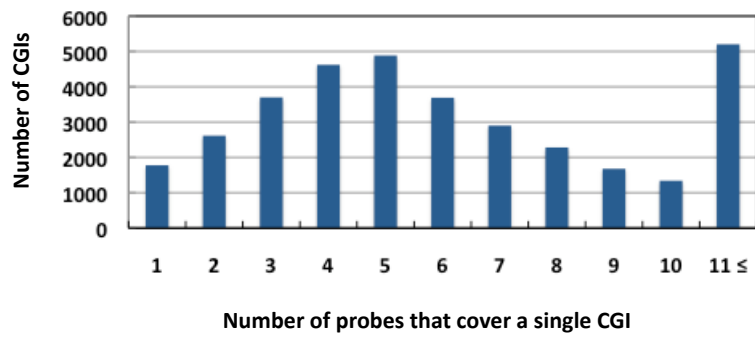
Distribution of methylated CGIs (overall) and promoters on individual chromosomes. AGS and KATOIII had larger numbers of methylated CGIs than HSC39 and HSC57, and this relationship was consistently observed for overall CGIs on all chromosomes. However, when limited to promoters, distorted patterns were observed on some chromosomes, such as chromosome 15, 18, 21 and 22 (with an arrow).

#### ***Supplemental Fig. 6***

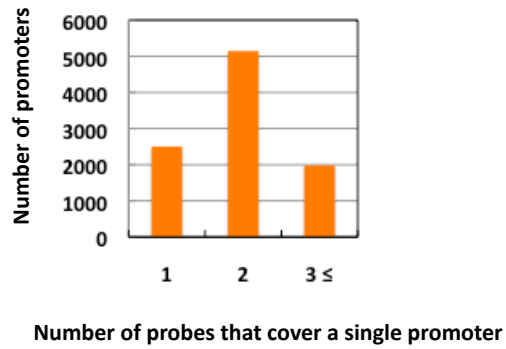
Relationship between expression in normal gastric tissue and methylation in cancer cells. Methylation levels (site Me values) according to gene expression in normal gastric tissues (high or low) at various positions against the TSSs. Solid lines (blue), genes with low expression in normal gastric tissue; and dotted lines (red), genes with high expression in normal gastric tissue. The genes with low expression in normal gastric tissue showed higher

methylation levels in cancer cells.

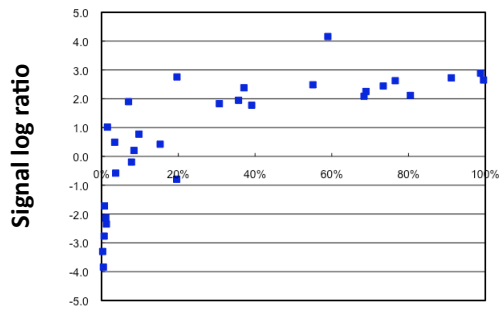
**A**



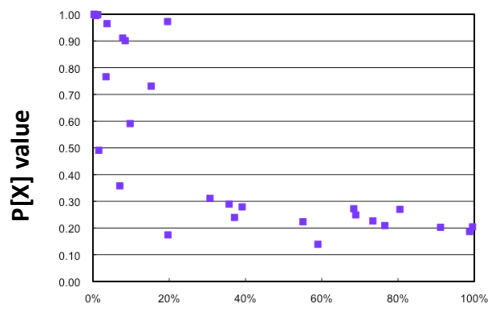
**B**



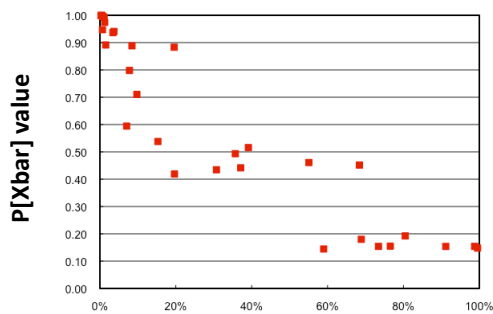
Signal log ratio – Background subtraction (r = 0.72)



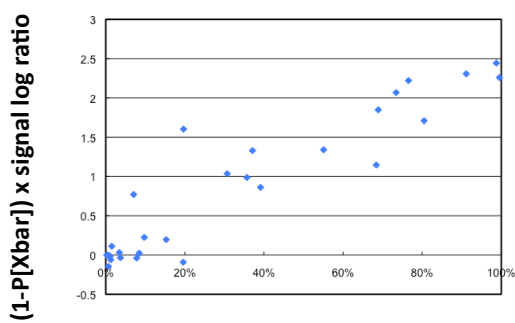
P[X] value (r = -0.79)



P[Xbar] value (r = -0.91)

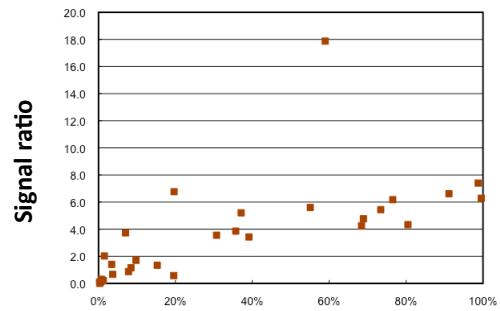


(1-P[Xbar]) x signal log ratio (r = 0.93)

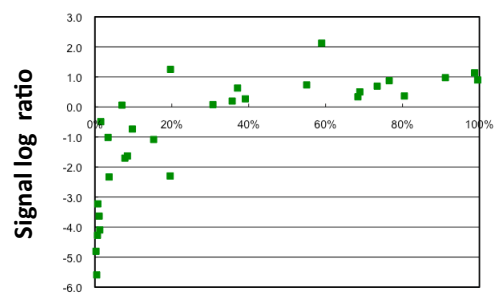


IP/WCE (real-time PCR)

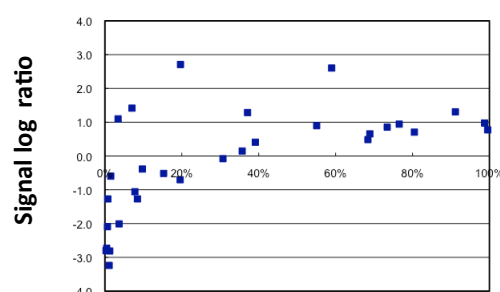
Signal ratio (r = 0.63)



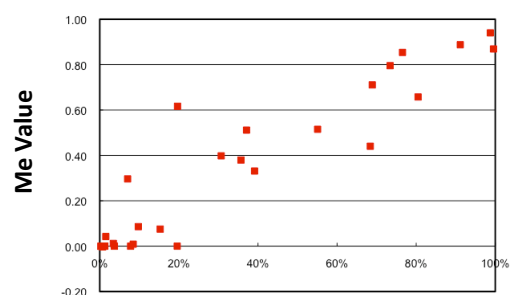
Signal log ratio – Median normalization (r = 0.71)



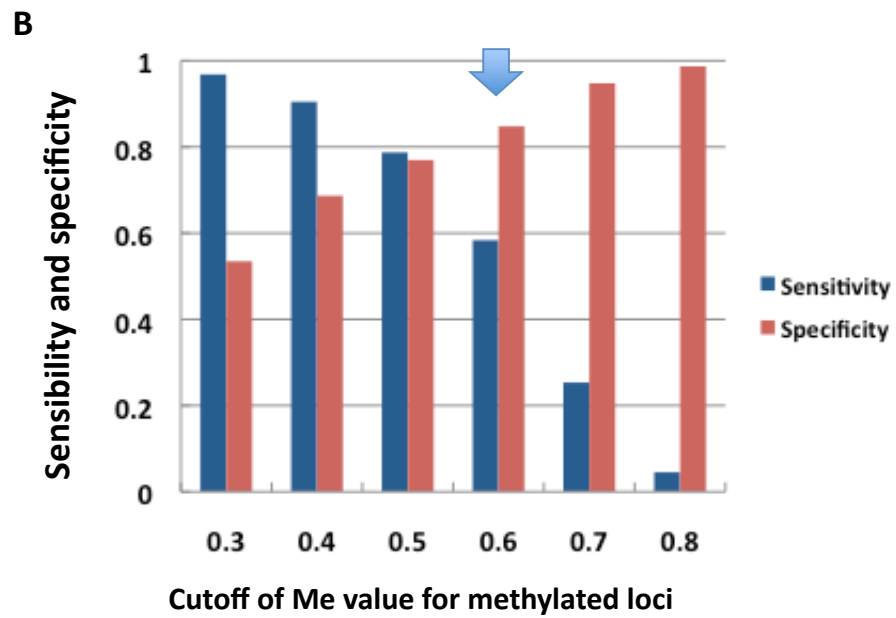
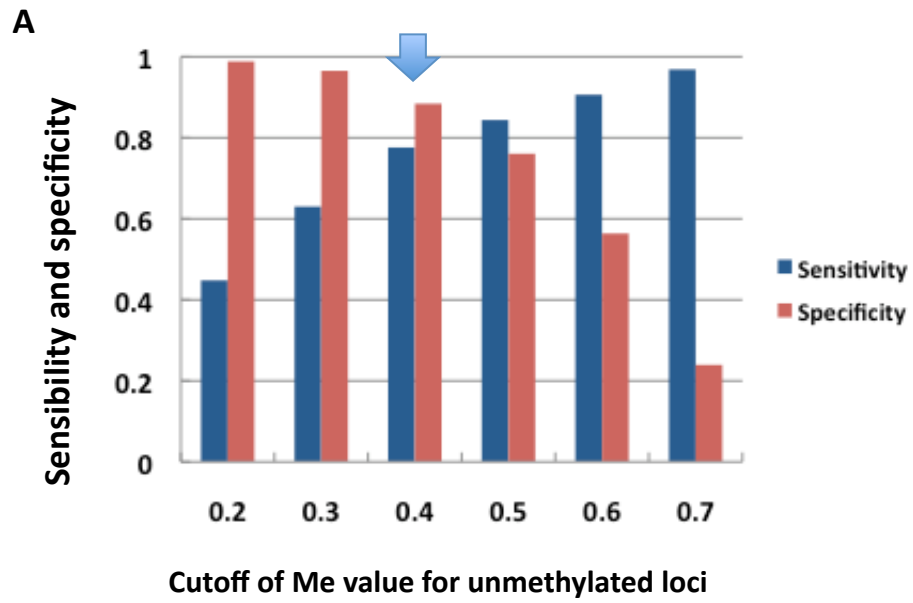
Signal log ratio – Lowess normalization (r = 0.60)



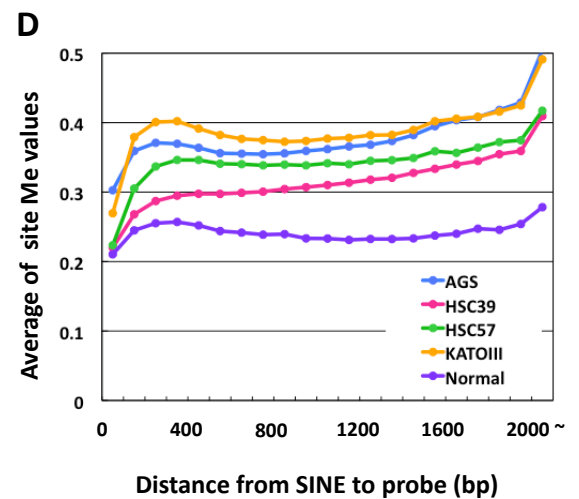
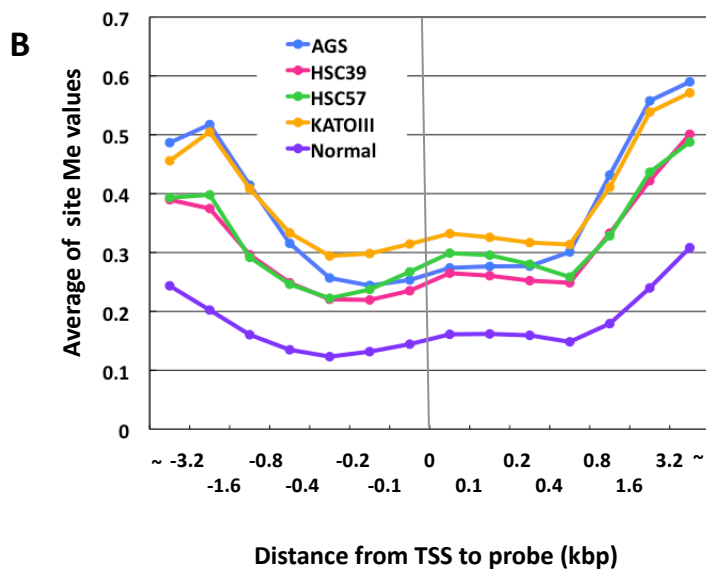
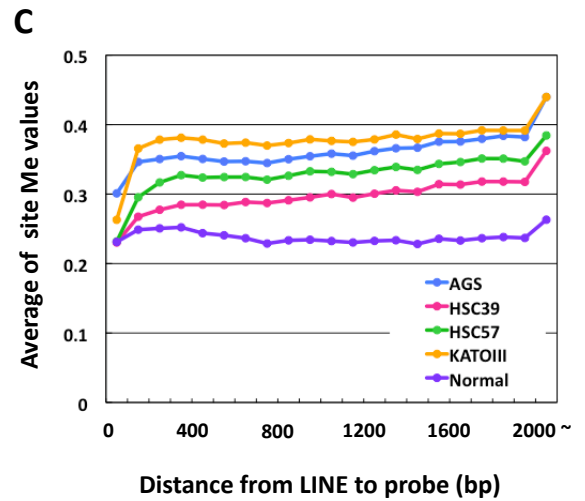
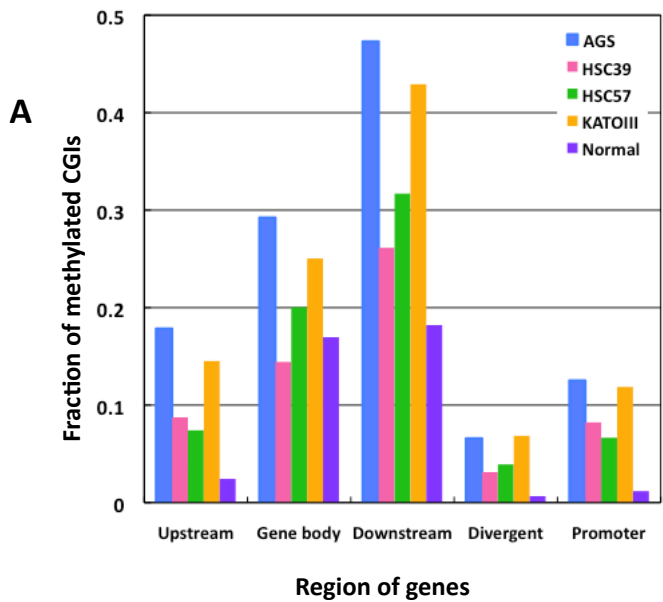
Me value (r = 0.94)



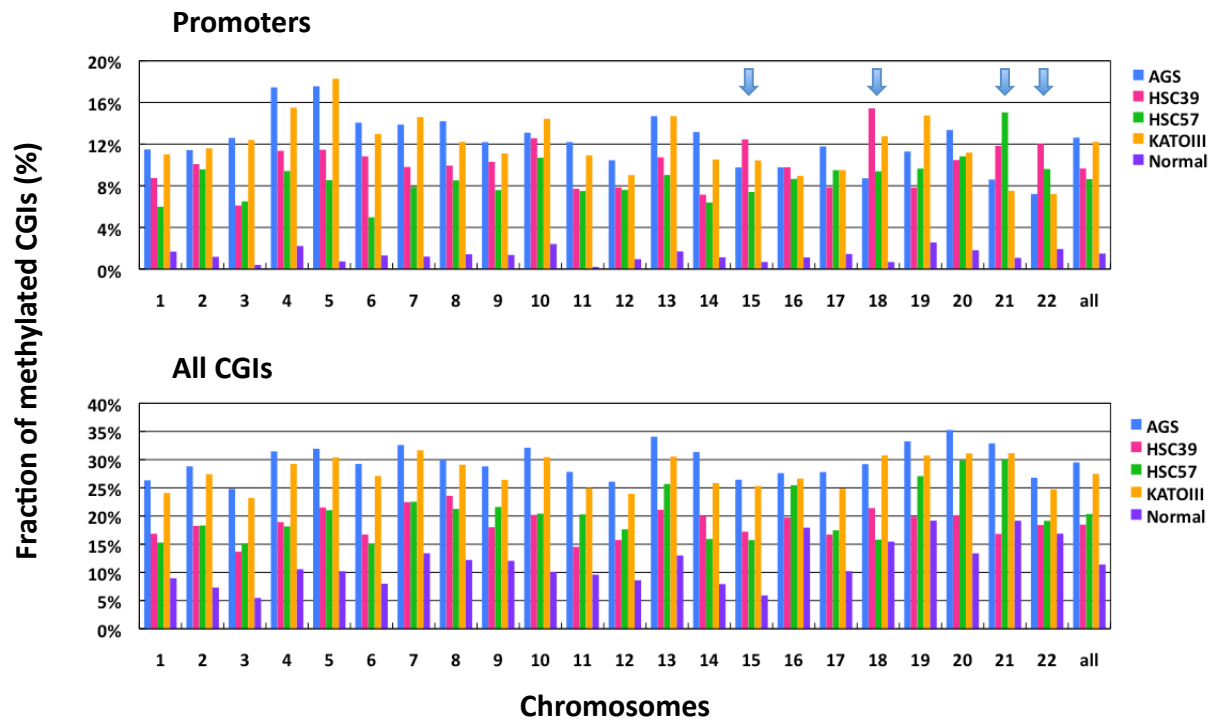
IP/WCE (real-time PCR)



**Supplemental Fig. 3**  
**Yamashita et al.**

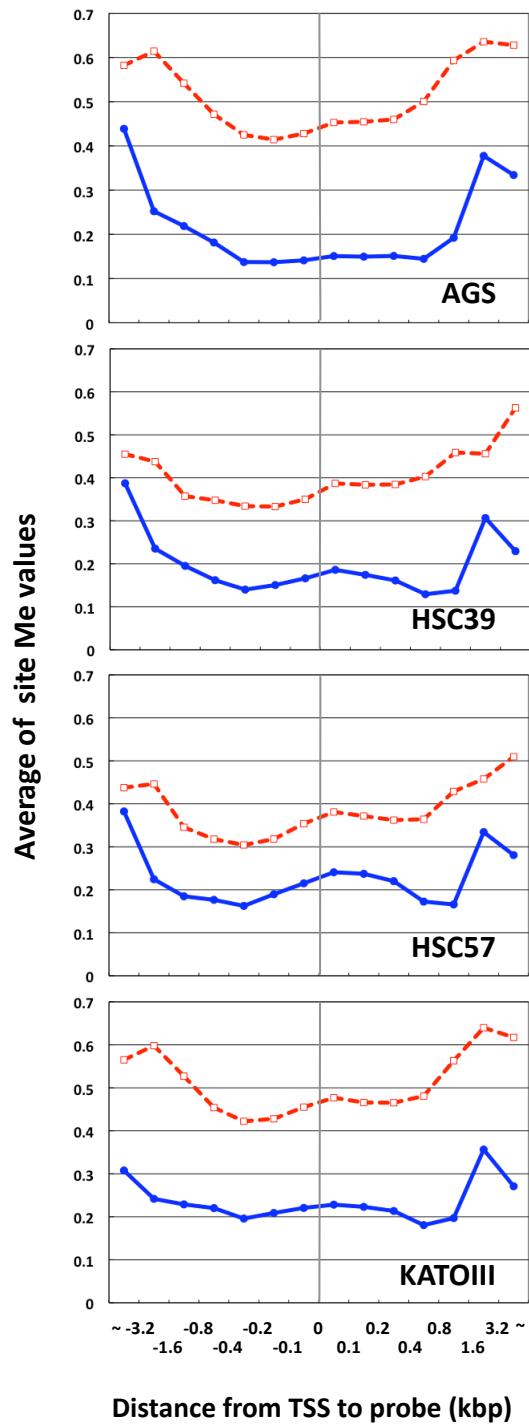


**Supplemental Fig. 4**  
Yamashita et al.



**Supplemental Fig. 5**  
**Yamashita et al.**





Supplemental Fig. 6  
Yamashita et al.

**Supplemental Table 1 List of primers**

gene symbol	CpG island	chromosome	TSS (NCBI)	position	forward primer sequence	position	reverse primer sequence	reference
<b>Primers for MSP (primers for methylated DNA)</b>								
<i>ABHD9</i>	strict	19	15204231	-195	CGTGAGTTATCGTATTCGGTTC	-115	TCCTATACGAACTTAAACCGG	(1)
<i>ACAA2</i>	strict	18	45593900	-199	GCGCGTTGTGGTTTATTC	-14	ACGCTAAACGACCCGCTCG	this study
<i>ACSS3 (FLJ21963)</i>	strict	12	79995940	-232	CGTITTTGGAGTTTGAGCGC	-113	ACAAAAATATCACAACCGCG	(2)
<i>ADFP</i>	strict	9	19117573	-169	GGTCGGGTTTCGTTCCGGTTTC	-36	ACCCGAATATCACCTCGAACACG	(1)
<i>ADM</i>	strict	11	10283218	-163	TTTTAAAGGAAGTAATGCGC	-69	AACGCACGAATAAAAAACG	this study
<i>ALDH1A3</i>	strict	15	99237584	-108	TCGGTTTCGTAGTTAATTAGGC	-18	GACTCGACCCGAACACTACGCA	(1)
<i>ANGPTL4 (PGAR)</i>	strict	19	8335011	-499	TTTAGGTTGGAGCGTAATGCG	-298	CAATAACGAAAAAACCGCACG	(3)
<i>ANXA5</i>	strict	4	122837626	-164	TATTTAGGTTCCGAGATTAGC	-48	CCAAAAACCCCAACCGCAACCG	(1)
<i>AREG</i>	strict	4	75529717	-173	TTTTAGCGAATTTTACGTAC	-22	ATAAAACGACGCGCACCTACCG	(1)
<i>BBS10 (FLJ23560)</i>	strict	12	75266338	-276	ATTTGGGGTAGCGGAC	-139	AAACTAACCCGTTATACCGC	(2)
<i>BDNF</i>	strict	11	27699872	-401	TACGTAATAGCGAGGTTAGTC	-214	AACTCCGACGAACTAAATTTCG	(1)
<i>BMP7</i>	strict	20	55274708	-227	GTTTTTTCGTTGTTTTTCGGC	-82	ATACTAACCCCGAACCCCTCG	(1)
<i>BNIP3</i>	strict	10	133645425	-155	TCGTAGGATTCGTTTCGC	-50	AATCTACGACCCGCGC	(2)
<i>BNIP3</i>	strict	10	133645425	-688	GTTTTTTTTTCGGGGCGGAC	-520	CGCTACGACTCCGAAACG	this study
<i>C1orf115 (FLJ14146)</i>	strict	1	218930285	-168	TTTATTGTGTAGTGCAGTTC	-28	AAAAAATAAAAAACCGCAACG	this study
<i>CAV1</i>	relaxed	7	115952075	-80	TTTCGGGACGTTTTTCGGTGGT	-6	TAAAAACGTTTTCCCGCGCTA	(1)
<i>CDH2</i>	strict	18	24011189	-217	TTTATCGGTAAGGTTTCGTC	-128	CGCTACGAATATATAAAAAAG	(1)
<i>CDKN2D</i>	strict	19	10540655	-122	GCGGTGTCTGTATATAGTAGC	-15	ACTCTAAACCTACCGCCCGC	(1)
<i>CLDN3</i>	strict	7	72822512	-111	AGGTTTTGGAGAGCGCGTTTC	-47	ACCTTAACTAAAACCGATACG	(1)
<i>COL4A1</i>	strict	13	109757459	-117	GCGTCGTTCCGCTATCGTC	2	TTCCAACGCTACGACCCG	(2)
<i>CTSL1</i>	strict	9	89530800	-182	GATTTTATTTTCGTCGTTTC	-40	ACGTACGATTAACCTATACCG	(1)
<i>CXCR4</i>	relaxed	2	136592195	-290	GAGAGACGCGTTTTAGTTC	-14	AAAATTTCTAACCGGACCG	this study
<i>CYP26C1</i>	relaxed	10	94811011	-619	TTTTTTCGTGAGCGCGTC	-544	CCGATTCACACAACGTAACG	(5)
<i>CYR61</i>	strict	1	85819048	-155	GCGGTTTGGTAGTAGTTTCGC	-10	CTCGAAAAACGCTCTCGCTCG	this study
<i>DAZL</i>	relaxed	3	16622010	-103	GGTATCGGATTTGCGTATAC	-29	AAAAACTACGAAAAACGACG	(2)
<i>DDX43</i>	strict	6	74161192	-91	TATTTTACGGTTTAGAAAATC	-16	CACTTCGCCTAATTTTCAGC	this study
<i>DMRTB1</i>	strict	1	53697660	-89	TCGGGATATATTCGCGATC	-2	AACGCTAAATAAACCAGCG	(2)
<i>DNAJC15 (DNAJD1)</i>	strict	13	42495362	-231	GTTGGTGTGATTTATCGTTTC	-149	CAAAAAAATATAACCGAATACC	(2)
<i>EID1 (CRI1)</i>	strict	15	46957582	-130	GAAACCTGAGTTTAAACGCGAC	-45	CGCCTCTCTACTAACCGC	(2)
<i>ERBB2IP</i>	strict	5	65258140	-248	TCGAGGTTTCGTCGAGCGTTC	-93	GAAAAACCAACTCCGCGCG	(2)
<i>F2R</i>	strict	5	76047542	-187	TTAGGAGGTCGAGACGCTCGC	-96	TCCTTAAACACCGTTAATTCG	(1)
<i>FADS1</i>	strict	11	61340886	-234	GTCGCTGTGATTTAGGAATC	-34	GCCAAAAACCAACCGCTACG	(1)
<i>FAM115A (KIAA0738)</i>	strict	7	143230105	-85	TTAAGTTTTGTAGTTTCGAGTTC	96	AACCCAAACCTCGATCACCG	this study
<i>FBLN2</i>	strict	3	13565625	-82	TGGGTTTTTGTTCGCGTGC	164	ACGAACACTCCACCGCCG	(2)
<i>FBN2</i>	strict	5	127901634	-412	GGAATTCGTCGAGTTTTCGC	-245	AACCGACAAACCCGAAACG	(2)
<i>FERMT2 (PLEKHC1)</i>	strict	14	52487460	-182	AGGATAGTTTTCGCGGCGGC	-29	GTCGGATTCCTCGACTAACG	this study
<i>FLNC</i>	strict	7	128257719	-10	GAGAGAGAGTTAGAGAGCGGTCGAGC	107	GACCACGAACTCGCTACGCTACG	(3)
<i>FOXO1A</i>	strict	13	40138734	-123	CGTATGTTTATGGTCGCGC	-33	GATACGAAATCTACCGCCG	(2)
<i>FSD1</i>	strict	19	4255691	-159	AGGTTTGGGGGAGGTTAGC	-25	AAACTACTTTACCGCGACCG	(1)
<i>FST</i>	strict	5	52812352	-172	TTTAGATTAAGCGCGGTTGC	-47	ACGAATAACTGCAACGACG	(1)
<i>FSTL1</i>	strict	3	121652515	-226	TCGAAGGGGCGTCGGAC	-102	CTACTACAACGACCCCGCG	(2)
<i>FYN</i>	strict	6	112301320	-228	TCGTAGTATTTGGGATGTTTC	-141	CTACGAAACCGCAACCTAACG	(1)
<i>GREM1</i>	strict	15	30797497	-37	GTCGCTGATTTAAACGCGGAGAC	63	GAAACTCGACCGGAAATCAACG	(1)
<i>GRHL1 (TFCP2L2)</i>	strict	2	10009273	-205	CGTAATTCGCGGAACCG	-88	GAAACTAAAAACCGATCGCG	(2)
<i>HAND1</i>	strict	5	153838017	-259	AATAGTTTAGGCGCTGGTTC	-93	AATTTTACGCTCAACCCG	(3)
<i>HAND2</i>	strict	4	174687953	-93	GTCGAGATTCGAGGCGTC	-21	ACTACTCTTAAACCCGCTCG	this study
<i>HDGFL1</i>	strict	6	22677657	-158	TTATATAAGTATAATCGTTATTC	-89	ACCCGTTAAACCCACCTCG	this study
<i>HES4</i>	strict	1	925333	-85	TGTGGGAAAGAAATCGGAGTC	-6	GAATCCCGACTCCAAACCCG	this study
<i>HOXB1</i>	relaxed	17	43963271	-94	GTTATGGATTCGAGTTTATTC	-17	CGTCAAAACCGCAAAAAAATCG	this study
<i>HRASLS</i>	strict	3	194441612	-257	GGGTGATTTATGATGGGTGATTC	-95	CAACGCCTACGATCAAAACG	(3)
<i>HS3ST2</i>	strict	16	22733361	-190	CGGTTGTTCCGAGTTTATC	-38	GTAACGCTACCACGACCCG	(4)
<i>HSPA1A</i>	strict	6	31891316	-153	TGGGGGTAGGACCGGGAGGC	-27	ACTAACCGTTATCCGAAACCG	this study
<i>IGFBP3</i>	strict	7	45927396	-40	TTTCGGTTTTATATAGCGGTC	23	AAAAAACGACTAATTCCTCAACG	(1)
<i>IGFBP7</i>	strict	4	57671296	-195	GGTCGGTTTACGTCGGGTTTC	-18	GACAAAAACCGGAAATAACCG	(1)
<i>IL6R</i>	strict	1	152644293	-117	TTTTATAGCGTAATTCGTTTAC	78	AACCGAAACGAATAACGCAACA	(1)
<i>INSL6</i>	strict	9	5175618	-122	AGTTTTGGCGACGTTTTTAC	-59	ACTCCCTATCTACGCTACG	this study
<i>IRS2</i>	strict	13	109236915	-127	GCGCGGTTAATGCGAGGTAGC	-29	TAAATAACACATCGCGACCG	(1)
<i>KCNA1</i>	strict	12	4889334	-75	TACGTTCCGGTGGGTTAATC	-7	GCTCGATCCATTTCTAAACG	this study
<i>KCTD12</i>	strict	13	76358526	-225	GCGGGTGGGAGTTCCGGC	-19	CGCTCCAACGAATACCG	this study
<i>KHDC1 (C6orf148)</i>	relaxed	6	74029640	-122	GTTGGGTTTTTTCGCGCTC	1	ATAACGACGACCCCGC	(2)
<i>KISS1R (GPR54)</i>	strict	19	868358	-55	TTATAAACGTTTCGTCGTAGC	92	CAAAATACGCCCTAACACCG	(1)
<i>LAMA1</i>	strict	18	7107813	-333	GGATTGTAGGGTCCGCGC	-139	TAAATCCCGACGACGCG	(2)
<i>LAYN (LOC143903)</i>	strict	11	110916443	-315	TTTTGGATGTTATTCGCGC	-198	CCAACACGAAAAACGAGC	(2)
<i>LOX</i>	strict	5	121441853	-94	GAATAAATAGTTGAGGGCGGTC	11	GCGCAATCCCGAAAAACG	(3)
<i>MGC42367 (C2orf55)</i>	strict	2	98919110	-193	ATCGTTTTTTCGTTTTTCGC	-46	GCCGCTCAACTCCCTCG	this study
<i>MLF1</i>	strict	3	159771678	-118	GGGTAGCGCGTATGTTTTTC	-16	CTCACTCGCCGACGCAACCG	(1)
<i>MLH1</i>	strict	3	37009983	-175	TTTTAGGTAGCGGGTAGTAGTC	-70	GCCATCAACCCACCTTCAACG	this study
<i>MSH4</i>	relaxed	1	76035218	-107	GTTGAGTTTGTTCGTTTTGC	-39	CAACTACAAAAACTACGCGC	this study
<i>MSX1</i>	strict	4	4912300	-171	CGTCGTTGGGTTTTGTTTTGC	-11	CGACTCCGAACCTACCG	(1)
<i>MTSS1</i>	strict	8	125809840	-598	TATTTATGTAGGATACGTTTTTC	-484	AAAAAACTACTACCGCTACTACG	this study
<i>MTSS1</i>	strict	8	125809840	-394	AGCGCGGTTGATTTTTTC	-248	ACAAACGACGTAACACCG	this study
<i>MTSS1</i>	strict	8	125809840	-130	GAGAGCGGTTTTTCGTTGGC	-32	CGCTCCTTTTCACTCCTACG	(1)
<i>MX1</i>	strict	21	41720024	-178	GGGTTCCGGTTCGAGAAITTCG	-21	TTCGCCCTTTTCAACCCG	(1)
<i>NAP1L1</i>	strict	12	74764717	-238	AGAGGAGTTTAAAGCGCGC	-94	TTATAATCTCCCAACAAACCGC	(2)
<i>NEFL</i>	strict	8	24870043	-112	GTTTGGTTGTAGTAGCGC	-37	ACCCTATTATACGCGC	(5)
<i>NMES1 (C15orf48)</i>	relaxed	15	43510055	-191	CGTTAGGTAAGGAAGATCGC	-22	CCGAATAAACCGAACCAACG	this study
<i>NPY</i>	strict	7	24290334	-159	TTTTAAGTCGATATTCGTGC	-45	ATAAAACTTCTCCGCG	(5)
<i>NTSE</i>	strict	6	86216528	-183	AGTCGATAGTCGCGTTAGGGTC	-36	GAACAATAAACCGAAACTCG	(1)
<i>OXT</i>	strict	20	3000266	-171	TAAACGCGGATTTGATTTTC	-13	TAACTATAAACGATCTTCCG	this study
<i>PAX6</i>	strict	11	31789455	-74	AGGGAGTATTAATCGGTTGGC	68	CTCCTACGCCTAACCCAAACG	(1)
<i>PCDHGC4</i>	relaxed	5	140844925	-161	TTAATAGTAAAAACCGCGC	-12	AAACATTACTACCGCCG	(5)
<i>PLAGL1</i>	strict	6	144371246	-195	GTCGGGTTTATTTGCGTTAGC	-47	AACCCCTAACGAAAAACGTCACG	(1)
<i>PLAU</i>	strict	10	75340941	-177	TTTGTGAGCGTTGCGGAAGTAC	-51	ACGATCTCCGACTATACTACG	(1)
<i>PPIC</i>	strict	5	122400324	-162	GTTTTTCGTTATCGTTAAGGC	-33	AAAAATAAAATCGAACCAATCCG	(1)
<i>PPP1R14A</i>	strict	19	43439012	-352	GCGGTGAGTCGAGATCGC	-169	CGAAAAACGCTACGCGC	(2)
<i>PRLHR</i>	relaxed	10	120345150	-121	GTATCGAGTATGTTAGAGCGC	48	CTCGATAATCCTTACCCACG	this study

**Supplemental Table 1 List of primers (continued)**

gene symbol	CpG island	chromosome	TSS (NCBI)	position	forward primer sequence	position	reverse primer sequence	reference
<b>Primers for MSP (primers for methylated DNA)</b>								
<i>PYCARD</i>	strict	16	31121752	-186	CGGGGAATCGCGGAGGTTTC	-36	AATAAAAACCCGAAAAAAACCG	(1)
<i>RAB34</i>	strict	17	24069013	-85	TGGCGAGGGCGGGTAGC	40	AAACCTCGAATCCCACTCCG	(2)
<i>RBP4</i>	strict	10	95350983	-136	TTCGGGTTTCGGTGAGTTAGGGC	-36	CCGTACTTTATAACGCCG	(1)
<i>RGC32 (C13orf15)</i>	strict	13	40929712	-217	ATCGGGGTTTCGGCGAATTTTC	-33	CCGCGCCCGCCCTACCACCG	this study
<i>RGS2</i>	strict	1	191044794	-184	ACGTTAGTAGCGTTTCGGTTTC	-37	GTCGCAACATTTATAAACCTCG	(1)
<i>RIF1</i>	strict	2	151974674	-202	ATTCGGAAGACGTTTCGATC	-40	CAACTCTCAAACCTCCGCCG	(2)
<i>RORA</i>	strict	15	59308794	-213	GGTTGGAGAAGTTTTCGTTAGC	-111	GACGAACGAACAAACAAAAACG	(1)
<i>SCRN1</i>	strict	7	29995902	-106	GAGGGTGGGTTTCGGGTTAC	-14	CTACAATAACGAAACGACCG	(1)
<i>SLC25A4</i>	strict	4	186301392	-225	TACGGTGTTTTTGGGTTCCGGC	-79	CGCCGCGCATTAATAACAAATACG	this study
<i>SNAIL</i>	strict	20	48032934	-299	AGAGGTTTCGGTTTCGTTTC	-201	CGTAACGATAAAAAACCCG	this study
<i>SFRP2</i>	strict	4	154929678	-213	AAATTTTAGGGCGGGCGAGC	4	CCGAAAAACAAATAAACCCG	this study
<i>SNAIL</i>	strict	20	48032934	-155	ATTTGTTCCGGGAGTGGTTTTTC	-91	AAAAACGAAACCTTATCTACCACG	(1)
<i>SPAG6</i>	strict	10	22674405	-198	GGTAGTGTAGGGATATTCGAC	-62	ACGTAACGTACACGCCG	(5)
<i>TBX3</i>	strict	12	113606352	-98	TTGGTTCGAAAGCGTAAAGAG	-22	ACCGAACGTCTACTCGACGACT	(1)
<i>TFAP2C</i>	strict	20	54637765	-146	CGGTTGCGTTAGGTTCCGGTGC	40	CGCGAATATCAAAACCGCTCCG	(1)
<i>TGFBR2</i>	strict	3	30622998	-87	GTAGTTGAAAGTCGGTTAAAGTTTTTC	-26	CGACGTCCAACCCCTAACTCTCTCG	(6)
<i>TGFBR2</i>	strict	3	30622998	135	GTATTCGTTCCGGATAGGAGTC	255	GAACCGCAACGCAATATACG	(6)
<i>THBD</i>	strict	20	22978301	-849	CGTTCGTTTTTATTCGGCGTC	-750	GCCAAACCCCACTCATCCG	(3)
<i>TNFSF9</i>	strict	19	6482037	-212	GTCGAGTTTGGAAAGTCGGAAAC	-65	AAAAAACCCACGCCCTCCG	(1)
<i>TPM2</i>	strict	9	35680053	-262	GTACGTCGGTTTTTTCGGTTC	-97	CGACTAAAAAACCCCGGACG	(2)
<i>TSPYL6</i>	relaxed	2	54336848	-92	CGAGATTGAGGAGTGAGTTCGC	-14	CCTCGCCATTACGCCG	(2)
<i>TUBA1A (TUBA3)</i>	strict	12	47869128	-234	CGGTCGATTGTTTTGTAC	-20	CGACACATAAACGAATACG	this study
<i>TUBB6</i>	strict	18	12298257	-14	TAATTGCGGGTTCGGTTTC	-142	CTACTACAAACCGAACCCGG	(2)
<i>TUSC3</i>	strict	8	15442101	-75	AGTTTCGGGCGGGAGCGTAC	85	TACGAAAAACCCGAAACCCGG	(2)
<i>ULBP2</i>	relaxed	6	150304829	-213	TGAGTTGTCGTGGAAGGAATC	-89	GTCAAACGAATATAACGTCACG	(1)
<i>UNC5C</i>	strict	4	96689185	-197	TTAGATTTCCGGCTGCGGC	-71	ACTAACGTCTCCCGCAAGC	(2)
<i>WIF1</i>	strict	12	63801356	-131	CGTTCGCTTTTTTATTTTTTTC	-27	AACGCGTCGCCTCCGACCTAA	(1)
<i>WNT4</i>	strict	1	22342106	-79	GCGTTGATAGTTGGTTCGC	-26	CTCTACCTCCGATACCTACCG	this study
<i>ZNF177</i>	strict	19	9334696	-119	GTAGGAGTATTTCGATGTTTC	-12	AAAATAACGAAACGACGAACG	(1)
<i>ZNF559</i>	relaxed	19	9295928	-147	GGTTCGGGAATTCGAGGTTTC	-43	TACCTCAACGCCAACGAAAAACG	(1)
<b>Primers for bisulfite sequencing</b>								
<i>C13orf21 (SERP2)</i>	strict	13	43845978	-45	GGAAGGGTTTTTGTAGATGAGA	146	AAATACTCCCACACAAAAATTC	this study
<i>FLNC</i>	strict	7	128257719	-1	GTTTTGGAGGGAGAGAGGTTAGAG	308	TATATTCTACTAAATCTTCTCCAC	this study
<i>FSD1</i>	relaxed	19	4255691	-543	GTTGGATTAGATAITTTTAGTTT	-168	CCCAAAACCCCTACATCCAA	this study
<i>HAND1</i>	strict	5	153838017	-651	TTTGTGAGGTTGGTTAGAATTG	-442	ATCCAAACAATTCCTCAATCCC	this study
<i>IGF2</i>	strict	11	2127409	-5928	AGATGGTAGGAAAGTGGGGAGTT	-6318	AAAACCTAAAACCTAAAACCCAAAC	this study
<i>STX5</i>	strict	11	62356136	-240	AGAAATTTTATTTTTGGAGTTTG	-507	AAAATAAAAAATAACTAAAAAACCC	this study
<i>NKX2-8</i>	strict	14	36121537	-1547	TGAAAGTATTTGTGTTTAAAGA	-1771	CAACCAAAATCTTCAATTAATC	this study
<b>Primers for copy number analysis of DNA</b>								
<i>DMRTB1</i>	strict	1	53697660	126	AGGGACACCGGGCAAAT	186	ATGATCTTCTGGCGCTCGGAG	this study
<i>CYP26C1</i>	relaxed	10	94811011	-190	CTGCAGTCTTCCACGTCCTGTC	-96	CGAGTGCTCACCTGTTCGGTC	this study
<i>HOXB1</i>	relaxed	17	43963271	-182	CATTGGCCTGGGAGAGATCACAT	-56	CCCTTTCGCTTACAACCTTT	this study
<i>DNAJC15 (DNAJD1)</i>	strict	13	42495362	-137	GGGGTGGAGTAAGCAAAT	-57	GCCTTCTTCCCACTCTCAACT	this study
<i>COL4A1</i>	strict	13	109757459	321	GTCCTGTAGGCTACGATCGC	386	CCGGAGGAATTCCTTAACTC	this study
<i>FSTL1</i>	strict	3	121652515	-58	GGGGAAGGAGAGGTTTAAAG	17	CGAGCTGTAAAGCGGAGGT	this study
<i>NPY</i>	strict	7	24290334	-100	GGGAAGTGGCGGGTGGGAGTCA	5	GAGGGGTGAGAGCCAGCGGATG	this study
<i>HAND1</i>	strict	5	153838017	-584	TCCAGAAGGGCCGATGACTA	-517	AAGACAGGATAGCCGCTAAC	this study
<i>FSD1</i>	strict	19	4255691	-448	TTCAGTTGTGACATAGGGACA	-341	CAGGTTATCCGTTGCTACT	this study
<i>ANXA5</i>	strict	4	122837626	-874	GGCCACGCTTCTGCTACCCACA	-794	CAAACGGAAGGAGTCAAGA	this study
<i>MTSS1</i>	strict	8	125809840	-614	ACTTATCGAACTCGGCATCC	-507	TCTGAGAAGACGCCCAATC	this study
<i>BNIP3</i>	strict	10	133645425	805	CCGTGCAGCACTCAGTCGT	869	GATGGTCTTGCGAATCTAGC	this study
<i>PAX6</i>	strict	11	31789455	239	CCCTACCCACACTCTTTATC	350	TTTTCTCCAGGATGTTG	this study
<i>TBX3</i>	strict	12	113606352	-196	GGCGCTGCGACGTTACAGTT	-122	TGTTGCTGCATAGCGGTGGTT	this study
<i>TFAP2C</i>	strict	20	54637765	-361	GTCTTTTGGAGGAACGAGTGAA	-281	GTAACACACCTGAGATTGGC	this study
<i>HRASLS</i>	strict	3	194441612	-223	TGGGCTCAACAAAACCGAITTA	-165	CCGACGCCAACGTTTAGG	this study
<i>TUBB6</i>	strict	18	12298257	-20	CGCAGTTGCCGCTGTCGTC	98	GCCCACCTTGGTCCGATCTG	this study
<i>ZNF559</i>	relaxed	19	9295928	-452	CAATGGGAAAATTCTAGGA	-361	TTTGTGAAAACGAAAGCATA	this study
<i>TGFBR2</i>	strict	3	30622998	-76	TCCGCCAAAGCTCTCGGAG	-21	TCGACGTCCAGCCCTAGCTC	this study
<i>MLH1</i>	strict	3	37009983	-177	CCTTCTAGGTAGCGGGCAGTA	-88	GCGGCAGCTATTGATGGACA	this study
<i>SNAIL</i>	strict	20	48032934	76	GCGCTCTTCTCTCGTCAG	124	AGTCTGCAGCTCGCTGTAG	this study

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