Supplemental Files

Supplemental Fig. 1 Distribution of the methylation rate of each gene

Supplemental Fig. 2 Receiver operating characteristic analysis to determine the cutoff value of each gene classifying patients into the methylated or unmethylated groups.

Supplemental Fig. 3 Kaplan–Meier curves for overall survival (OS) (upper panel) and event-free survival (EFS) (lower panel) of 132 patients with hepatoblastoma classified by the number of methylated genes. Survival curves are shown in different colors for each number of methylated genes. The log-rank test was used to compare the OS and EFS curves.

Supplemental Fig. 4 Comparison of the methylation rates of the four genes in each age group (0-2 years, 3-7 years, and ≥8 years) (\* *P*<0.05, \*\* *P*<0.01, \*\*\* *P*<0.001)

Supplemental Fig.5 Comparison of the methylation rates of the four genes between those who received preoperative chemotherapy (N=108) and those who did not (N=24)

Supplemental Fig, 6 A) Kaplan-Meier curves for overall survival of 136 patients with hepatoblastoma, classified by the methylation status of four genes. Each methylation value reported by Nagae et al. was used for analysis. The cutoff value was adapted from what proposed in this study. B) Correlation between the beta value from the specimens before chemotherapy and methylation rate from the specimens after chemotherapy in the same patients.

Supplemental Table 1. Primer sequence for qRT-PCR

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|  | **Forward primer** | **Reverse primer** |
| ***RASSF1A*** | GCAAGTTTGCACTCTTTGAGC | CCTTCAGGACAAAGCTCAGG |
| ***OCIAD2*** | ACTGCACATCCACAGAGCAG | CTAGTCCCTGGGTGACAAGC |
| ***PARP6*** | TGATGAGCAGCATGTCTTCC | TGACGCCCAGTGTGTAGAAG |
| ***MST1R*** | CTCGCCTACCTGTGAAGTGG | GGTCAAAAGGGTCAATGTGG |
| ***ACTB*** | ACTCTTCCAGCCTTCCTTCC | AGCACTGTGTTGGCGTACAG |