SUPLEMENTARY FIGURE LEGENDS

Supplementary Figure S1. Acute responses of *Per1* promoter to treatment with several compounds. WT MEFs were transfected with Per1-dsluc and treated with ethanol (0.1%; sky line), DEX (1 μ M; black line), DMSO (0.1%; gray line), forskolin (10 μ M; green line), or ionomycin (1 μ M; purple line) continuously during the real-time luminescence recording.

Supplementary Figure S2. Circadian oscillation patterns of *Per2* promoter serial deletion mutants. WT MEFs were transfected with *Per2* promoter serial deletion mutants: Per2 (-1671)::dsluc, Per2 (-271)::dsluc, Per2 (-271)::dsluc, Per2 (-171)::dsluc. After 2-hr DEX (1 μM) treatment, *Per2* promoter activities were recorded by the real-time luminescence monitoring.

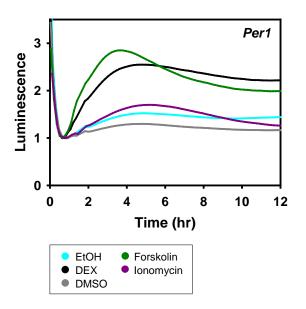
Supplementary Figure S3. DEX responsiveness of Per1 did not depend on E-box. (A) Schematic diagram of *Per1* promoter constructs. (B) WT or mutant constructs (GRE or E-box mutant) of the *Per1* promoter were transfected into WT MEFs. Cells were harvested after treatment with ethanol (0.1%) or DEX (1 μ M) for 10-hr. Luciferase activities were normalized to renilla luciferase activities, and the fold induction was calculated as the ratio of the value of the DEX-treated group versus that of the ethanol-treated group. Values are the mean \pm standard error of the mean (SEM) of three or four independent experiments performed in triplicates (*, P < 0.05).

Supplementary Figure S4. GBS responded to DEX in the absence of BMAL1. (A) The intron region containing GBS was subcloned into an SV40 promoter driven-luciferase (GBS-SV40P). (B) This construct was transfected into WT and $Bmal1^{-/-}$ MEFs, and cells were harvested after treatment with ethanol (0.1%) or DEX (1 μ M) for 10-hr. Luciferase activities were normalized to renilla luciferase activities, and the fold induction was calculated as the ratio of the value of the DEX-treated group versus that of the ethanol-treated group. Values are the mean \pm standard error of the mean (SEM) of three or four independent experiments performed in triplicates.

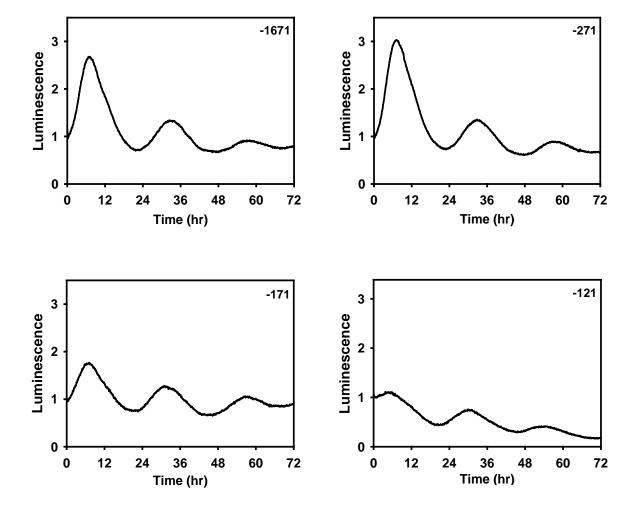
Supplementary Figure S5. Decreased GR levels in *Bmal1*^{-/-} MEFs. WT and *Bmal1*^{-/-} MEFs were harvested after treatment with ethanol (V; 0.1%) or DEX (D; 1 μ M) for 1-hr. Western blot analysis was performed using GR, BMAL1, and tubulin antibodies.

Supplementary Figure S6. Circadian oscillation patterns of *Per2* induction mutant reporters. (A) WT or *Per2* induction mutant reporters (GRE^{mut} or $E2^{mut}$) were transfected into WT MEFs. Cells were treated with DEX (1 μ M) for 2-hr, and bioluminescence was recorded by the real-time luminescence monitoring. (B) The phase of the second peak was measured for WT and *Per2* induction mutant reporters. Values are the mean \pm standard error of the mean (SEM) of three or four independent experiments performed in triplicates.

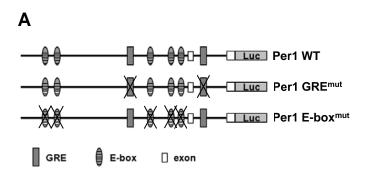
Supplementary Figure S1.

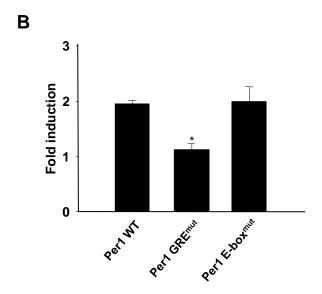


Supplementary Figure S2.



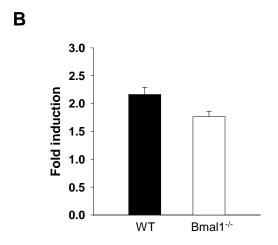
Supplementary Figure S3.



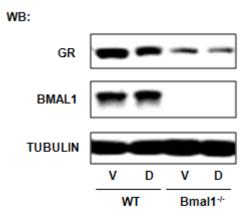


Supplementary Figure S4.





Supplementary Figure S5.



Supplementary Figure S6.

