Supplementary Information and data:

Gene	Sense primer	Antisense primer
mGapdh	AGTATGACTCCACTCACGGCAAAT	GTCTCGCTCCTGGAAGATGGT
mNpas2	CGCAGATGTTCGAGTGGAAAG	GTGCATTAAAGGGCTGTGGAG
mClock	GGCGTTGTTGATTGGACTAGG	GAATGGAGTCTCCAACACCCA
mUcp1	TCCTAGGGACCATCACCACC	GCAGGCAGACCGCTGTACA
mGlut4	AAGATGGCCACGGAGAGAG	GTGGGTTGTGGCAGTGAGTC
mFabp4	ACGACAGGAAGGTGAAGAGCAT	TGTGGAAGTCACGCCTTTCAT
mMfsd2a	AAAGACACGCAAAATGCTTACCT	AATGAAGGCACAGAGGACGTAGA
mDio2	AGAGTGGAGGCGCATGCT	GGCATCTAGGAGGAAGCTGTTC
mNpas2-RORE1,2	TTCTTGGATTCTCGCCTGTCTC	TGCCCTCTCTCCTTTTGCAC
mNpas2-896/813	CCCTAGTGACAACTTTAGCAGGAC	CTTCCAGGTTCCGCACTAAG
mNpas2-distal	CGCAGATGTTCGAGTGGAAAG	CATGGGAGGTGCCACTGCTT

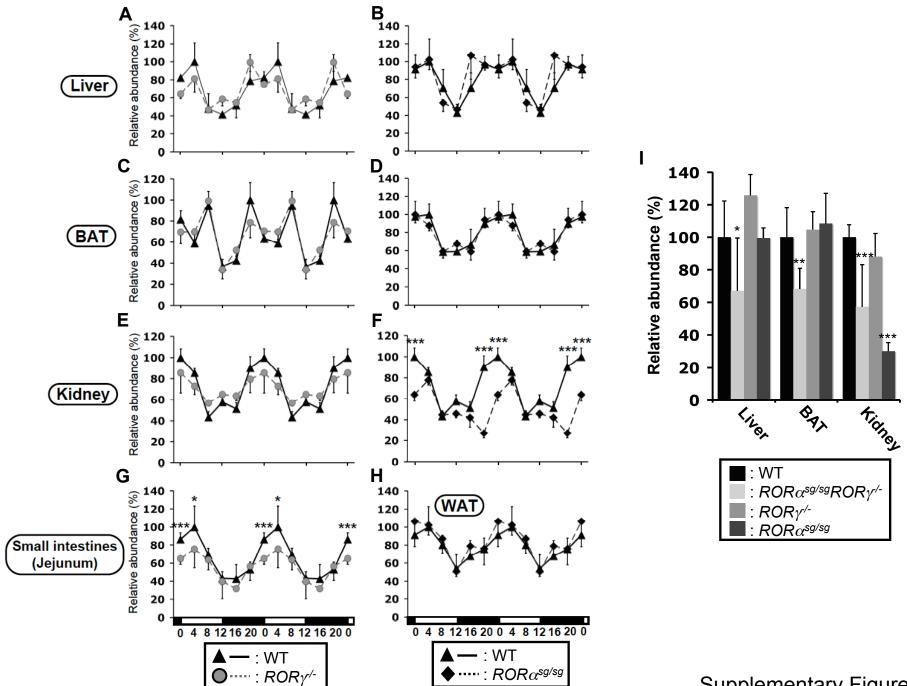
Supplementary Table S1.	Sequences of primers used in QRT-PCR and ChIP assays

## Supplementary Figure S1. Comparison of the circadian expression of *Clock* in several peripheral tissues from WT, $ROR\gamma^{-/-}ROR\alpha^{sg/sg}$ , and DKO mice.

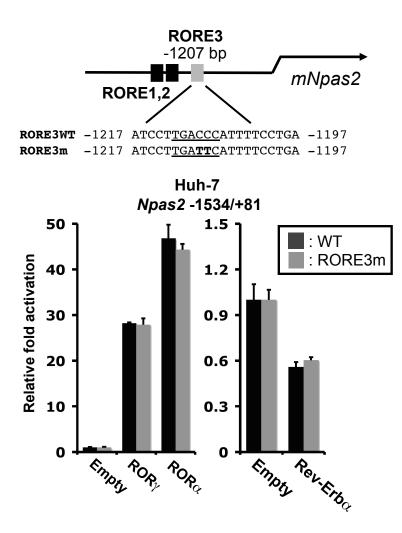
(A-H) Various tissues from WT,  $ROR\gamma^{-/-}$ , and  $ROR\alpha^{sg/sg}$  mice (n=4) were isolated every 4 hr over a period of 24 hr and expression of *Clock was* analyzed by QRT-PCR. The 24-hr expression pattern was double-plotted. (I) Tissues were isolated from WT,  $ROR\alpha^{sg/sg}$ ,  $ROR\gamma^{-/-}$ ,  $ROR\alpha^{sg/sg}ROR\gamma^{-/-}$  DKO mice (n=4) at CT20. *Clock* expression in DKO,  $ROR\alpha^{sg/sg}$ , and  $ROR\gamma^{-/-}$  mice was normalized to the expression in littermate WT mice. Data present mean ±SD, \* p< 0.05, \*\* p< 0.01, \*\*\* p<0.001 by ANOVA.

## Supplementary Figure S2. RORE3 plays a minor role in the activation of the *Npas2*(-1534/+81) promoter by RORs and the repression by Rev-Erbα.

Huh-7 cells were co-transfected with the indicated p3xFlag-CMV10-ROR expression vector, pCMV- $\beta$ -Gal, and a pGL4.10 reporter plasmid driven by either the wild type *Npas2*(-1534/+81) promoter or the promoter in which RORE3 was mutated (RORE3m), as shown in the Figure. 24 h later the relative luciferase reporter activities were determined. Data present mean ±SEM.



Supplementary Figure S1



Supplementary Figure S2