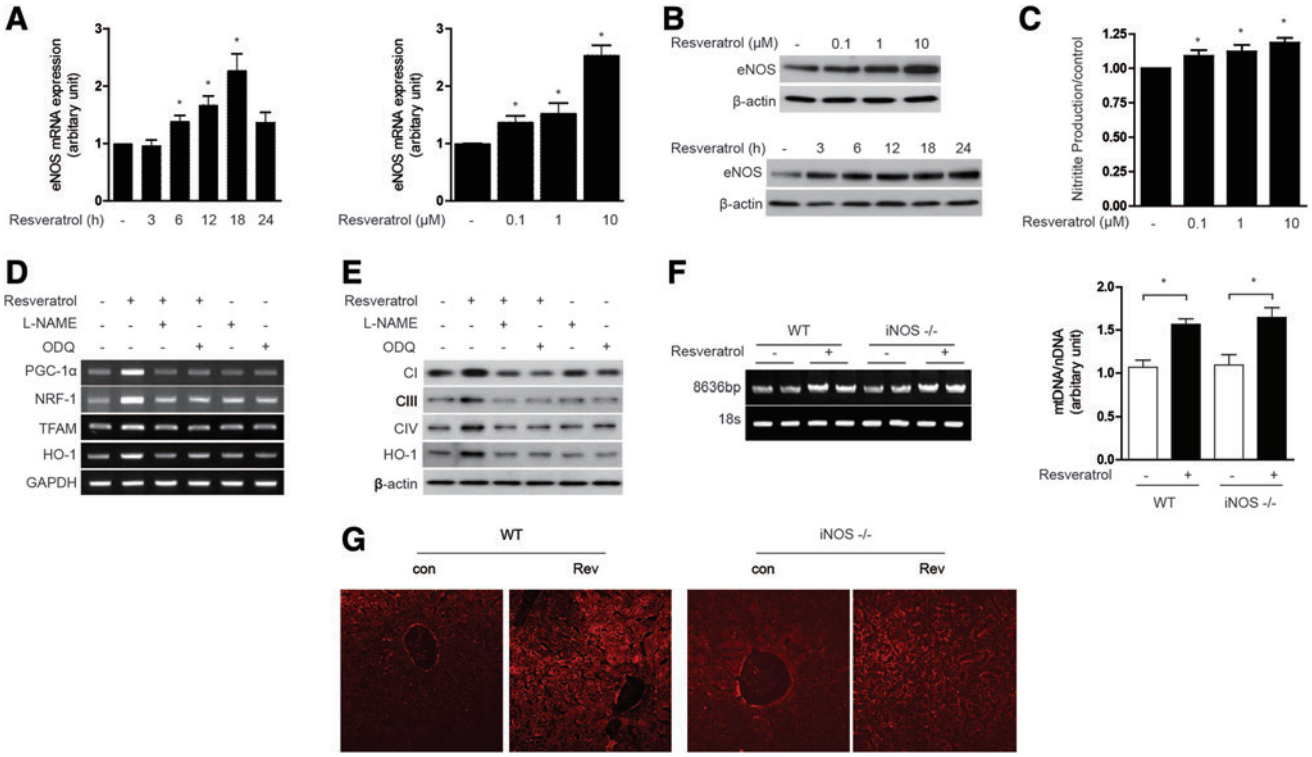

SUPPLEMENTARY FIG. S4. Resveratrol-induced mitochondrial biogenesis and HO-1 expression are mediated by an eNOS-cGMP-dependent pathway. (A–C) HepG2 cells were treated with 1 μM resveratrol for the indicated time intervals and with the indicated concentrations of resveratrol for 12 h. **(D, E)** AML12 cells were treated with 1 μM resveratrol for 12 h after pretreatment in the absence or presence of L-NAME (1 mM) or ODQ (1 μM) for 1 h. **(F, G)** WT and iNOS $-/-$ mice, resveratrol (20 mg/kg/day) was given once daily for 7 days by i.p. injection. Liver tissues were excised and analyzed for mitochondrial biogenesis in mice. **(A)** eNOS mRNA was analyzed by real-time RT-PCR. **(B)** eNOS protein levels were measured by western blotting. **(C)** NO production was observed by using Griess reagents. (**D)** PGC-1α, NRF-1, and TFAM mRNA levels. **(E)** CI (complex I), CIII (complex III), and CIV (complex IV) protein levels. **(F)** mtDNA content. **(G)** Mitochondrial mass was assessed by using MitoTracker Red CMXRos staining (red) in liver sections. Experiments were performed thrice independently, and representative data are shown. Data are expressed as mean $\pm$ SEM. $^*p < 0.05$ compared to control group (or un-injected control group). eNOS, endothelial nitric oxide synthase; L-NAME, *N*-nitro-L-arginine methyl ester hydrochloride.