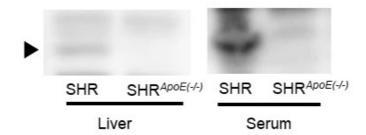


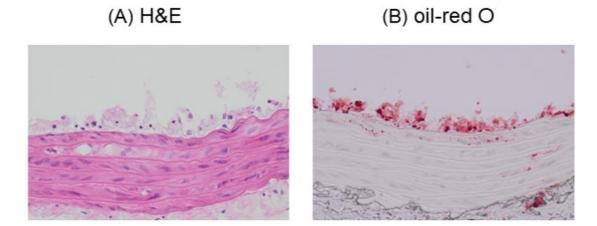
(B)



Supplementary Fig. 1. Constitution of ApoE-depleted SHR.

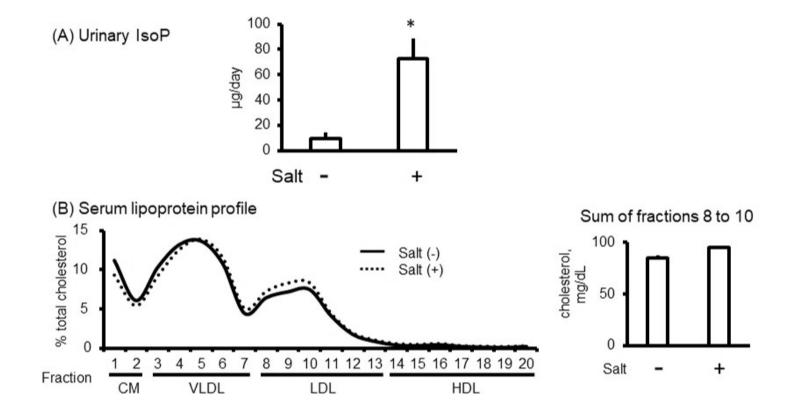
(A): The target sequence in the *ApoE* gene for genome editing and the resulted 13 bp-deletion in the exon 2 are shown.

(B): Confirmation of depletion of ApoE protein by western blot.



Supplementary Fig. 2. Microscopic observation of the fat-deposition in the aorta.

Male SHR^{ApoE(-/-)} were fed HFD for 8 weeks. Aorta was dissected out stained with H&E (A) or oil-red O (B). Foamy histiocytes positive in oil-red O stain were observed on the intimal surface of the aorta. Photos were taken at x400.



Supplementary Fig. 3. Effects of salt loading on urinary IsoP and the serum lipoprotein profile in SHR^{ApoE(-/-)}. (A) The effect of salt loading on urinary IsoP excretion in SHR^{ApoE(-/-)}. IsoP excreted in 24-h urine was measured by ELISA as described in Methods. Each column and error arindicates mean and SD, respectively. *: p <0.05 vs. Salt (-). (B) The effect of salt loading on serum lipoprotein profile in SHR^{ApoE(-/-)}. Slight difference between Salt (-) and (+) is observed in the fractions 8-10. Sums of cholesterol levels in the fractions 8 to 10 are, however, not significantly different from each other as shown in the right panel.

Supplementary Table 1. Blood pressure, heart rate and body weight of SHR, SHRApoE(-/-) and SHRApoE(-/-)Prdx2(-/-)

	SHR 8		SHR ^{ApoE(-/-)}		SHRApoE(-/-)Prdx2(-/-)		Р
N							
SBP (mmHg)	177.4 ±	8.1	163.6 ±	12.3	168.4 ±	19.0	0.305
HR (bpm)	364.2 ±	29.4	346.3 ±	26.3	344.4 ±	26.0	0.965
BW (g)	294.0 ±	10.3	279.2 ±	13.2	277.9 ±	19.0	0.067

All the parameters were measured at 12 weeks of age in male rats. No significant defferences in body weight (BW), heart rate (HR) or systolic blood pressure (SBP) were observed among the three strains.