

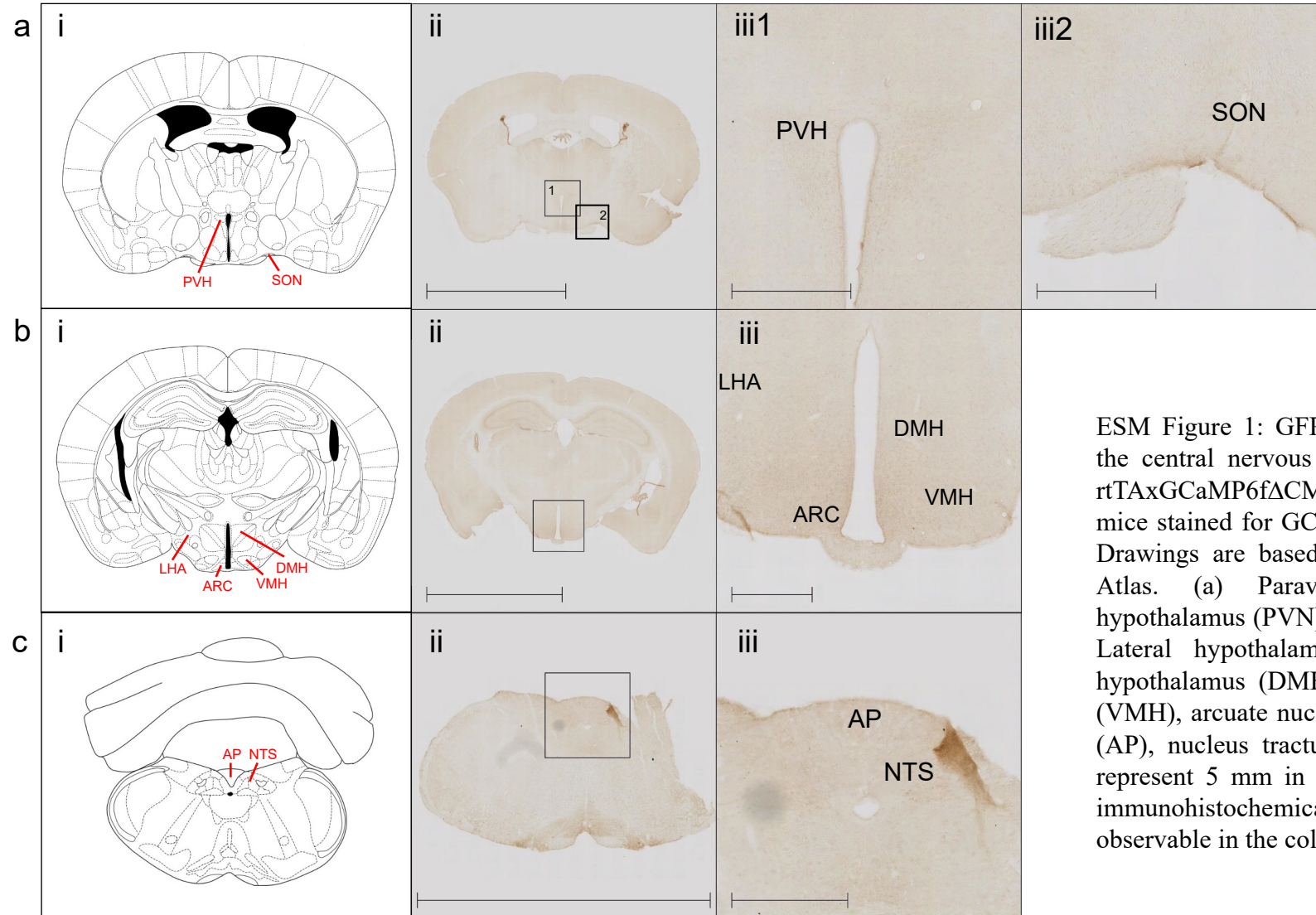
ESM Table 1.

Target (cat. No)	Primary	Secondary (dilution 1:300, all ThermoFisher Scientific)
INSL5	1:500 (rat; Takeda, Japan)	Donkey anti-rat conjugated with AlexaFluor 488 (A32790)
5-HT (20080)	1:1000 (rabbit; Immunostar, USA)	Donkey anti-rabbit conjugated with AlexaFluor 550 (A32794)
GCG (sc-514592)	1:50 (mouse; Santa-Cruz Biotechnologies, USA)	Donkey anti-mouse conjugated with AlexaFluor 555 (A32773)
GFP (ab5450)	1:1000 (goat; Abcam, UK)	Donkey anti-goat conjugated with AlexaFluor647 (A32849)

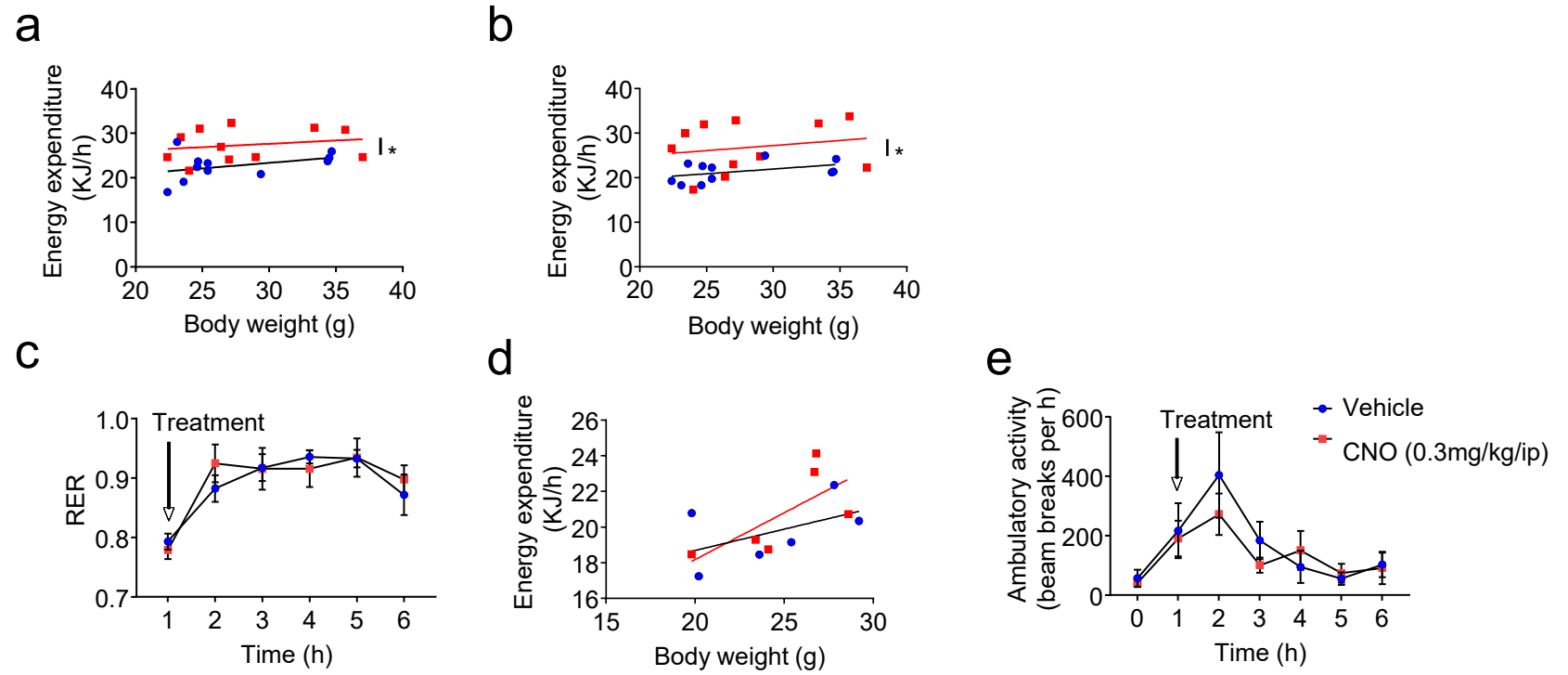
ESM Table 1 Antibody reagents

Hoechst nuclear stain (1:1000) was also used in immunohistochemistry experiments

ESM Fig. 1.



ESM Fig. 2.



ESM Figure 2: Energy expenditure is increased by colonic L cell stimulation. (a) Energy expenditure 1h and (b) 2 h post administration of CNO in Dox-induced *Ins15-rtTAxTet-CrexDq* mice. Values are group mean \pm SEM (n = 11, crossover design). * p < 0.05 by ANCOVA (a, b). (c) RER, (d) energy expenditure and (e) activity were unaffected by CNO in control C57Bl/6JN mice. Values are group mean \pm SEM (n = 6 mice per group, non-crossover design).