A Multifunctional Protein, EWS, Is Essential for Early Brown Fat Lineage Determination

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Following the publication of this paper, the authors noticed that one of the genotype labels in Figure 7D contained a typographical error. The mistake has been corrected online and the final version of Figure 7 is shown below. The authors apologize for any possible confusion this mislabeling might have caused.

Figure 7. Expression of Ews, Ybx1, and Bmp7 Is Induced in Response to Thermogenic Stimulation, and Ews Haploinsufficiency Leads to Reduced Brown Fat Gene Expression following Rosiglitazone or β3-Agonist Stimulation

(A and B) qRT-PCR analysis of interscapular BAT from C57BL6 mice after 8 hr exposure to ambient or cold (4 °C) temperature (n = 3; A) or after consuming a normal or high-fat diet for 12 weeks (n = 3; B).

(C) qRT-PCR analysis of inguinal fat pads from Ews+/+ or Ews+/- mice following four daily i.p. injections with PBS or rosiglitazone (10 mg/kg; n = 3).

(D) Immunostaining of UCP1 in inguinal fat from (C). Representative images are shown; 100 x magnification.

(E) qRT-PCR analysis of inguinal fat pads from Ews+/- and Ews-/- mice following ten daily i.p. injections with PBS or CL316,243 (1 mg/kg; n = 3).

Data are represented as means ± SEM. Two-way ANOVA, *p < 0.05, **p < 0.01, ***p < 0.001. See also Figure S7.