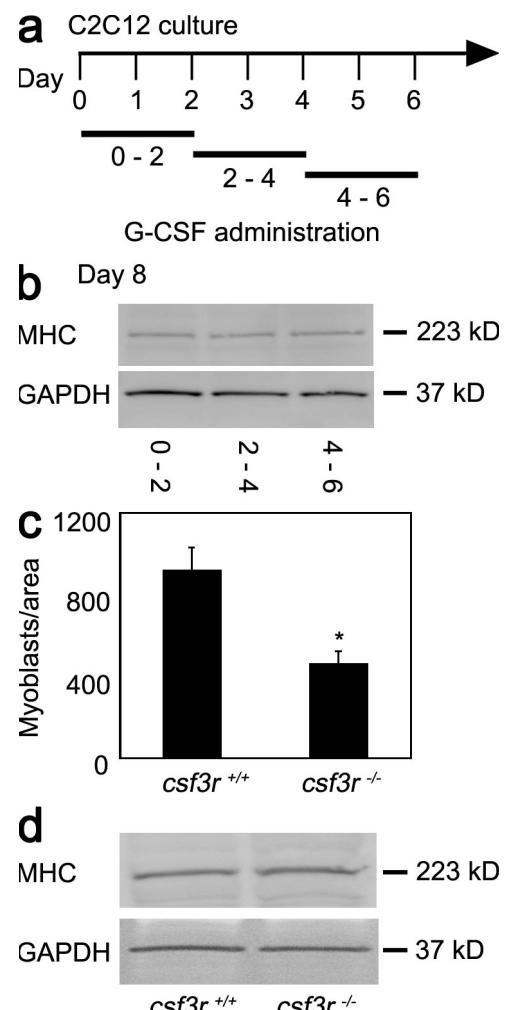
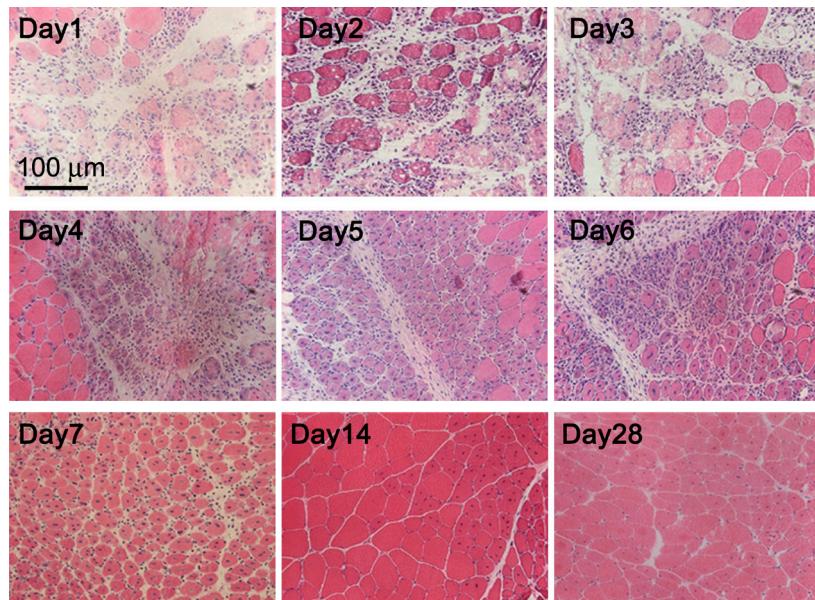


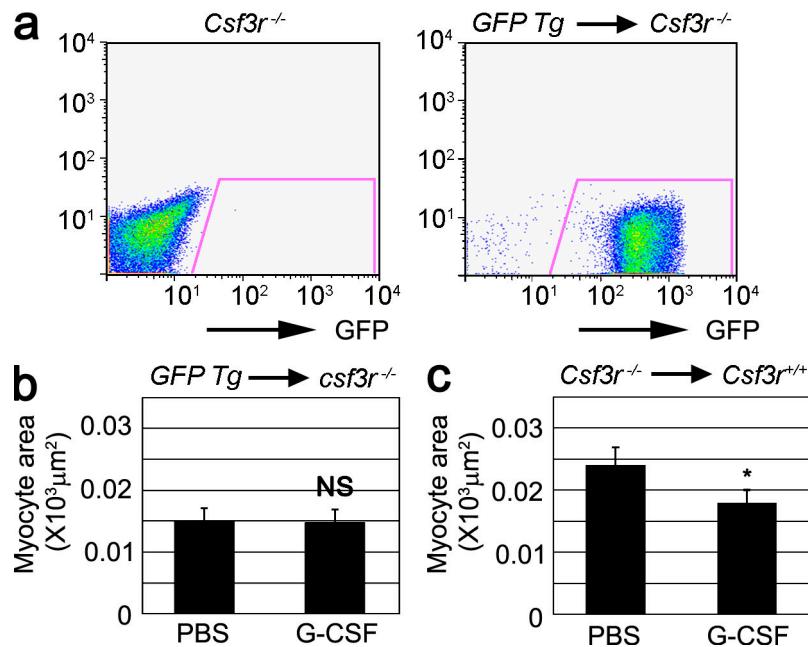
## SUPPLEMENTAL MATERIAL

Hara et al., <http://www.jem.org/cgi/content/full/jem.20101059/DC1>**Figure S1.** The effect of G-CSF on myoblast differentiation in C2C12 cells and myoblasts harvested from *csf3r*<sup>-/-</sup> and wild-type mice.

(a) G-CSF administration at different time points during C2C12 differentiation. (b) Western blot analysis of the protein extracts of C2C12 cells at day 8. (c and d) Myoblasts are harvested from *csf3r*<sup>-/-</sup> and wild-type mice and cultured in vitro. (c) Cells were counted after 5-d in vitro culture. Error bars present mean  $\pm$  SD (\*, P < 0.05). (d) Western blot analysis of the protein extracts at day 8 after in vitro culture. Results in b-d are from five independent experiments.



**Figure S2. Histological analysis of cardiotoxin-injured skeletal muscle from day 1 to 28.** Hematoxylin and eosin staining of the rectus femoris. Skeletal muscle injury and the regeneration process are shown. Representative photomicrographs are from three independent experiments.



**Figure S3. Chimerism of hematopoietic cells before and after BM cell transplantation and quantitative analysis of the areas of the skeletal myocyte sections in the *csf3r<sup>-/-</sup>* and *csf3r<sup>+/+</sup>* mice with BM transplantation.** (a) The chimerism of hematopoietic cells before (left) and after (right) BM cell transplantation was analyzed by FACS. (b and c) Quantitative analysis of the areas of the skeletal myocyte sections. (b) Quantitative analysis of the areas of the skeletal myocyte sections in the *csf3r<sup>-/-</sup>* mice with BM transplantation. Effect of extrinsic G-CSF administration on cardiotoxin-induced skeletal myocyte injury is shown, as assessed by the myocyte area. (c) Quantitative analysis of the areas of the skeletal myocyte sections in the *csf3r<sup>+/+</sup>* mice with BM transplantation. Effect of extrinsic G-CSF administration on cardiotoxin-induced skeletal myocyte injury is shown, as assessed by the myocyte area. (b and c) 20 visual fields per individual mice were observed in the rectus femoris at 7 d after cardiotoxin injection. Error bars present mean  $\pm$  SD (\*, P < 0.05). Results in a-c are from eight independent experiments. Tg, transgenic.