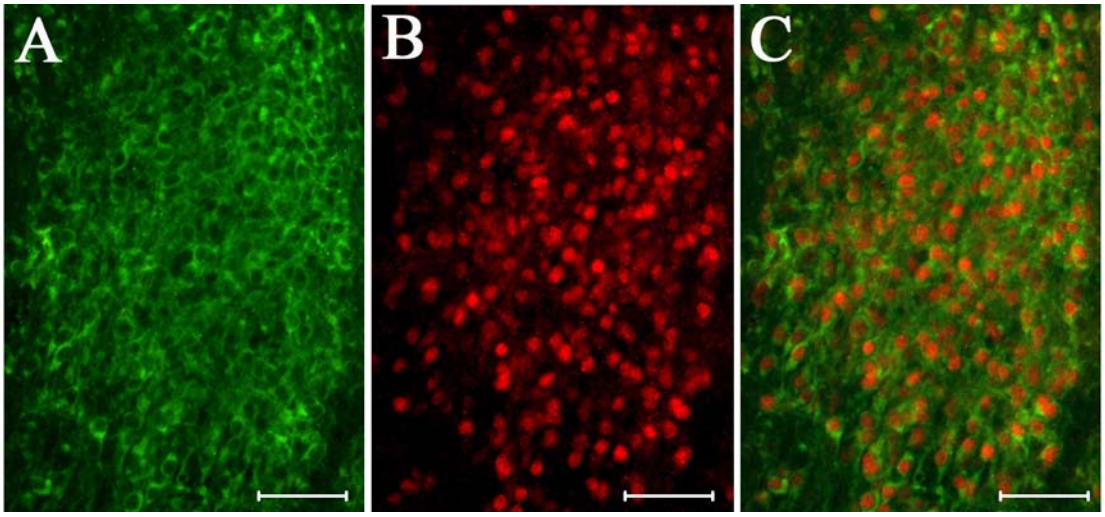
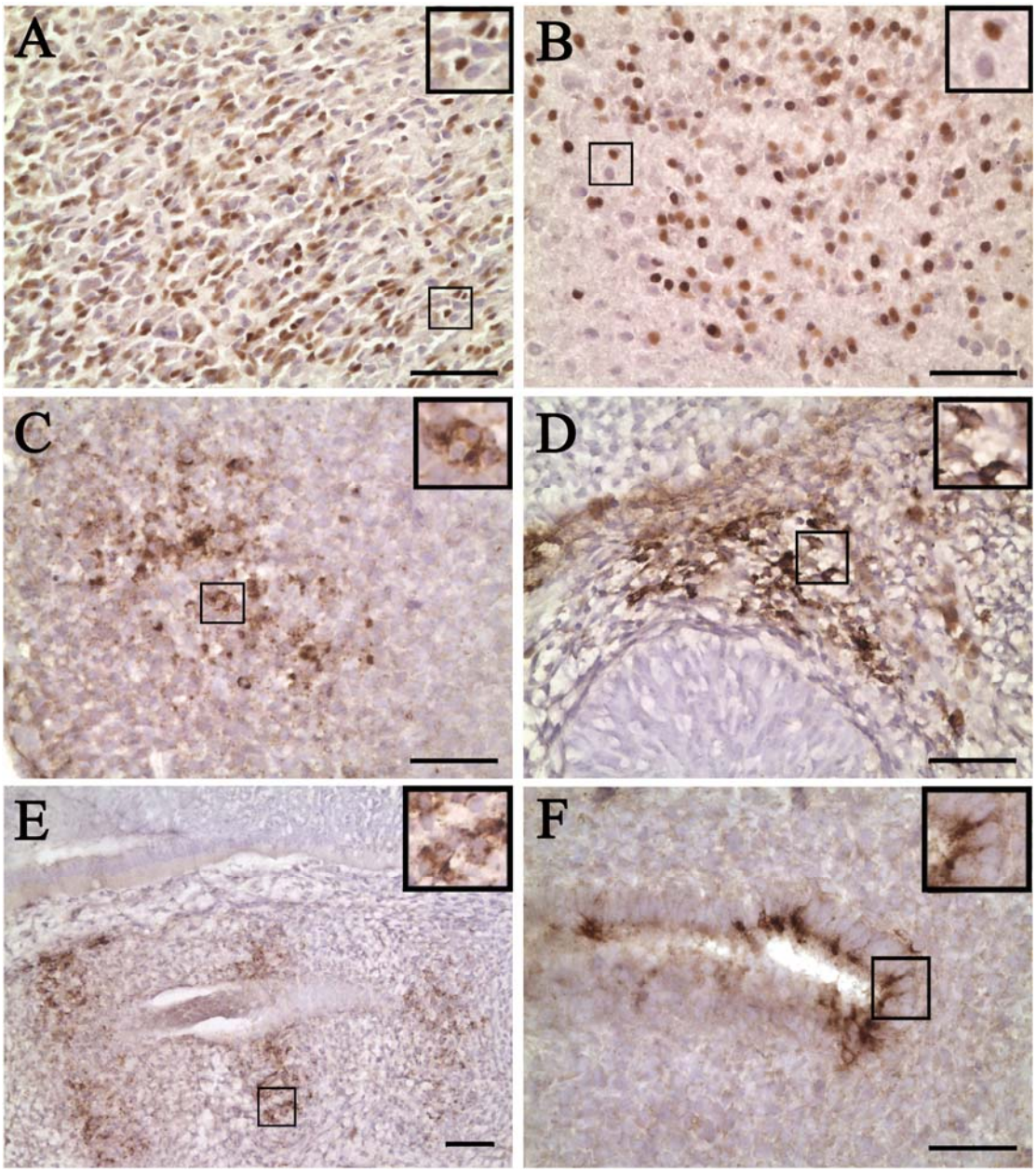
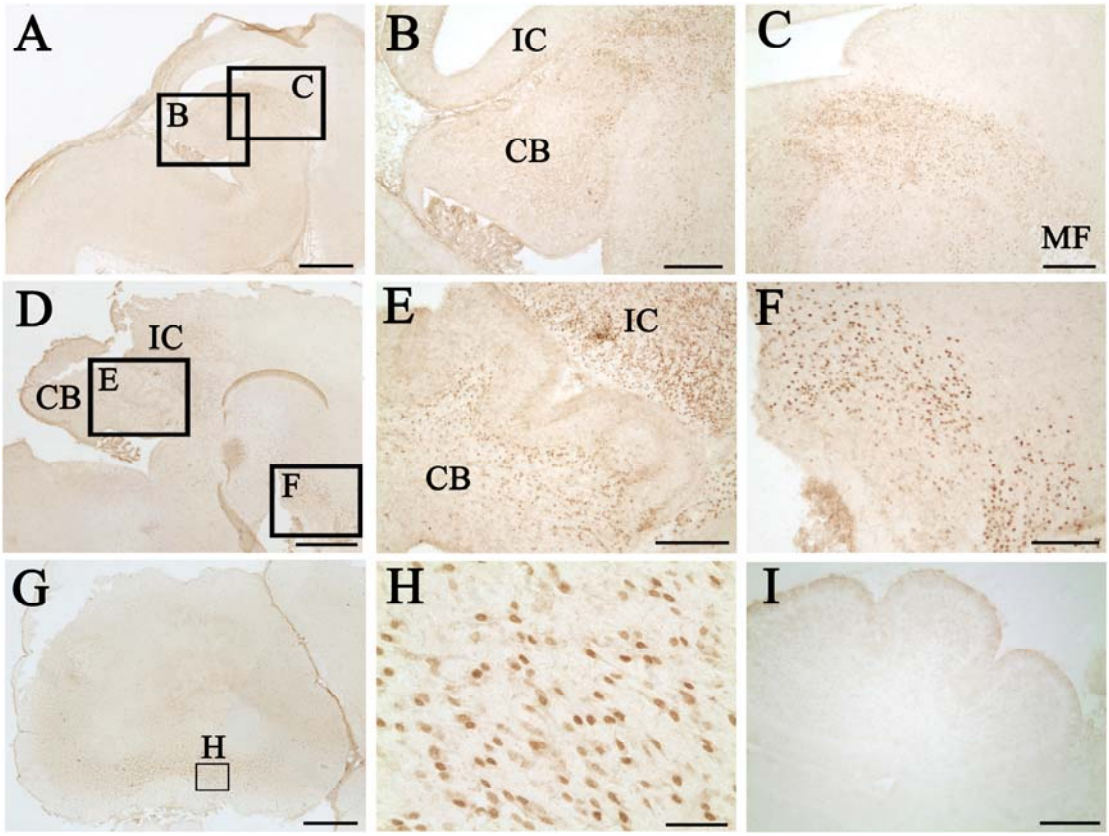


Online Supplementary Fig. 1. Expression of En-1 in the midbrain dopaminergic neurons. Transverse section of midbrain of E14.5 double labeling for TH (A, green) and En-1 (B, red), showing that En-1was expressed in the nuclei of the dopaminergic neurons (C). Scare bars: 50μm.



Online Supplementary Fig. 2. Sections counter-stained with hematoxylin showing the different subcellular location of En-1 inside and outside the CNS. (A, B) showing that En-1 was expressed in the nuclei of the sections of midbrain of E12.5 embryo (A) and P0 (B). (C-E) showing the non-nuclear location of En-1 in the face (C), the cranial mesenchyme (D) and the developing vertebrae (E) of E12.5 embryo. (F) showing the non-nuclear location of En-1 in the cloaca of E10.5 embryo. The boxed regions in each panel are magnified in the right upper regions. Scale bars: 50μm.



Online Supplementary Fig. 3. Expression of En-1 in the CNS from E16.5 to P7. (A) Expression of En-1 in the CNS of E16.5 mouse embryo; boxed regions are highlighted showing the expression of En-1 in the inferior colliculus, the cerebellum (B), and ventral midbrain (C). (D) Expression of En-1 in the CNS of P0 mouse, boxed regions are highlighted showing the expression of En-1 in the inferior colliculus, the cerebellum (E), and ventral midbrain (F). (G) Expression of En-1 in the ventral midbrain of P7 mouse, boxed regions are highlighted (H). (I) No staining was found in the cerebellum of P7. Abbreviations: CB, cerebellum; IC, inferior colliculus; MF, mesencephalic flexure. Scale bars: (A, D, G) 500µm; (B, C, E, F) 200µm.