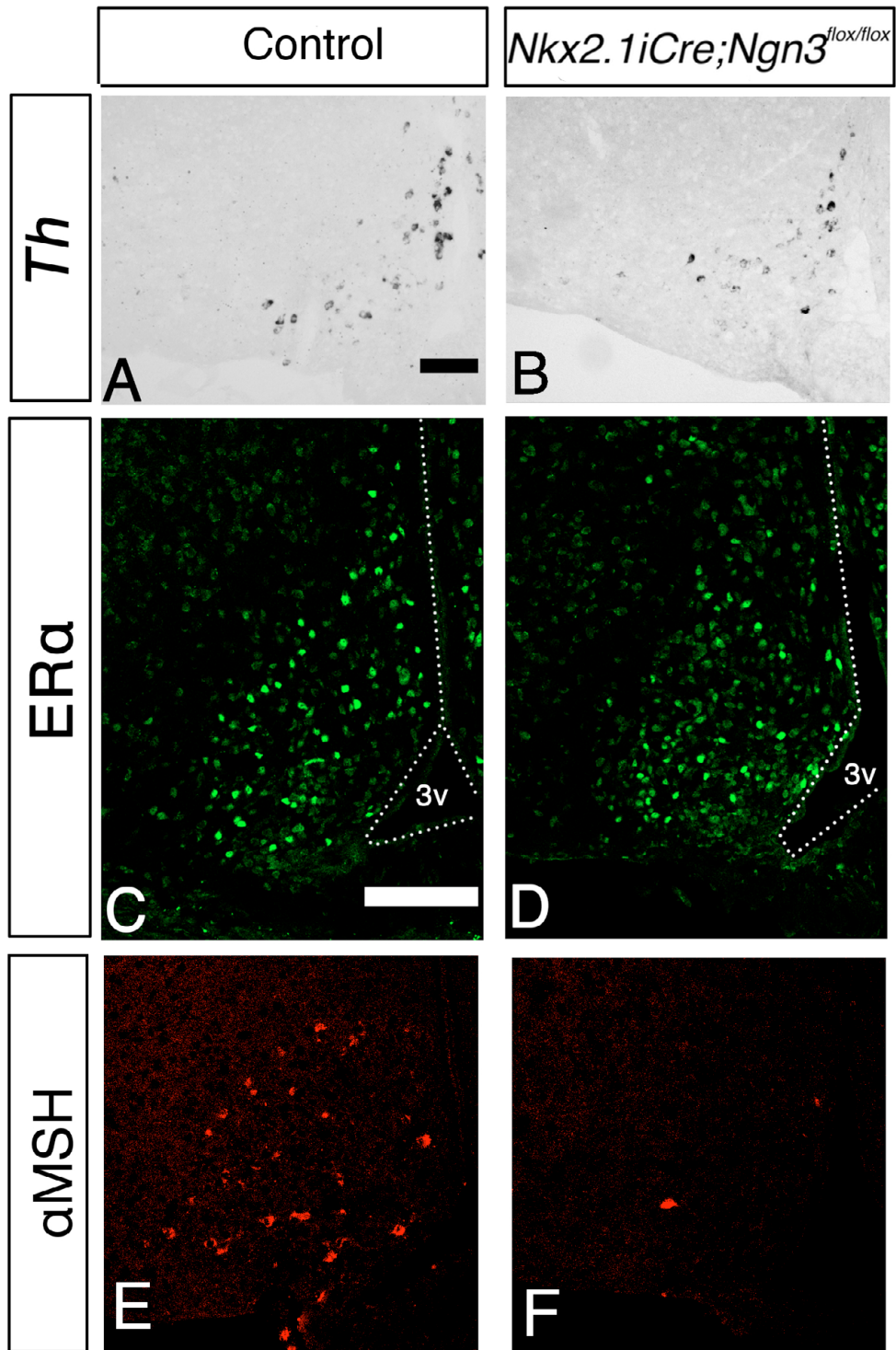


Supplementary Figure1. Expression and quantification by in situ hybridisation of *Pomc* and *Npy* in the developing arcuate nucleus of *Nkx2.1iCre;Ngn3^{fl/fl}* and control mice. A-J Anorexigenic *Pomc* expression compared to the control is reduced throughout development of the ARC (A-F), while orexigenic *Npy* expression is unchanged (G-J). K,L. Number of *Pomc*+ cells is reduced by around 80% throughout the development of mutant mice (K) whereas the number of *Npy*+ cells is unchanged (L). Students t-test: NS. No Significance. ** $P < 0.01$. *** $P < 0.005$



Supplementary Figure 2.

Expression by in situ hybridisation of *Th* and by fluorescence immunohistochemistry of ERα and αMSH in the arcuate nucleus of control and *Nkx2.1Cre;Ngn3^{lox/lox}* mice. Expression of *Th* (A,B) and of ERα (C,D) is unaffected in mutant mice, while αMSH expression is largely absent. 3v: 3rd ventricle.