



Supplemental Figure 1. (A-C) Multiple rounds of cell sorting reveal a stable reprogrammed Mart-1:GFP-positive population. (A) First round of FACS following 48h exposure to NGF show high Mart-1:GFP-positive expression 3h post sort, followed by a decline to 120h post sort. (A') Mart-1:GFP-positive/H2B:mCherry C8161 cells 3h post sort. (B) Second round of FACS with an increase in Mart-1:GFP-positive cells 3h post sort, with a slower decline in GFP-positive cells to 18d post second sort. (B') Mart-1:GFP-positive/H2B:mCherry C8161 cells 5d post second sort. (C) Third round of FACS with an increase in Mart-1:GFP-positive cells 24h post sort, and a much slower decline in GFP-positive cells to 7d post sort (~60% GFP-positive). (C') Mart-1:GFP-positive/H2B:mCherry C8161 cells 72h post third sort. (D-F) Protein detection of Mart-1 in C8161 cells. (D) Wild-type C8161 cells (blue) under no treatment conditions. (E) C8161 cells after 48h exposure to NGF and FACS. (F) Boxed region in (E) show H2B (blue), Mart-1:GFP reporter (green) and Mart-1 antibody (red). Scale bars A'-C'=100um, D-E=100um, F=50um. Calculations performed on living (A-C) and fixed (D-F) samples.