



Supplementary Figure 1. The α MHC promoter is not active in primary cultured bone marrow stem cells. Nontransgenic bone marrow stem cells will not express fluorescent markers and tags when transfected with plasmid constructs under the control of the α -myosin heavy chain (α MHC) promoter. Nontransgenic bone marrow stem cells were cultured in growth media, transfected with plasmid constructs and allowed to express for 48 h. **(A)** Cells were transfected with a Tomato-Flag construct under the viral CMV promoter as a control. Td-Tomato protein fluorescence in red and phase-contrast pictures are in gray scale. **(B)** Cells were transfected with a YFP-HA construct under the control of the α MHC promoter. No fluorescence was observed (green) in a wide field of cells (gray scale). **(C)** Cells were transfected with a GFP construct under the control of the α MHC promoter. No fluorescence was observed (green) in a wide field of cells (gray scale).
 CMV: Cytomegalovirus; eGFP: Enhanced green fluorescent protein; YFP: Yellow fluorescent protein.