



**Figure S1** Overexpression of CHD5 has no effects on cell senescent, autophagy and differentiation. (A) Senescence-associated beta-galactosidase (SA-β-gal) activity (200×). (B) Transmission electron microscopy analysis was performed to localize and quantify subcellular areas of autophagy. (C) Western blot analysis of the levels of LC3-I and LC3-II protein. (D) Cell differentiation features analyzed by fluorescence activated cell sorting. CHD5, chromodomain helicase DNA binding protein 5; NC, negative control; sgRNA, single guide RNA.