

Figure S4. Generation of *SIRT2tg* mice and weight analysis of *SIRT2tg/BubR1*^{H/H} cohort. (A) Schematic diagram of SIRT2 transgenic with Stop cassette flanked by *loxP* sites localized between the CAGGS promoter and SIRT2 cDNA. (B) Ubiquitious overexpression of SIRT2 in transgenic mice. Extracts were prepared from non-transgenic and SIRT2 transgenic and western blotted for SIRT2 and Actin. (C) SIRT2tg does not recue small size phenotype of *BubR1*^{H/H} mice. Weights of animals (n = 6 each group) at 6 weeks of age. Body weights of (D) male and (E) female BubR1^{H/H} and SIRT2tg/BubR1^{H/H} mice from weaning to 250 days of age from longevity cohort. (F) MEFs from wild-type and BubR1^{H/H} embryos infected with control virus or virus expressing wild-type or catalytically inactive SIRT2 were western blotted for BubR1, SIRT2, and Tubulin. Error bars represent SEM. P values calculated using Student's t-test (n = 3), * P < 0.05, ** P < 0.005.