Supplemental Data

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Short Telomeres are Sufficient to Cause the Degenerative Defects Associated with Aging

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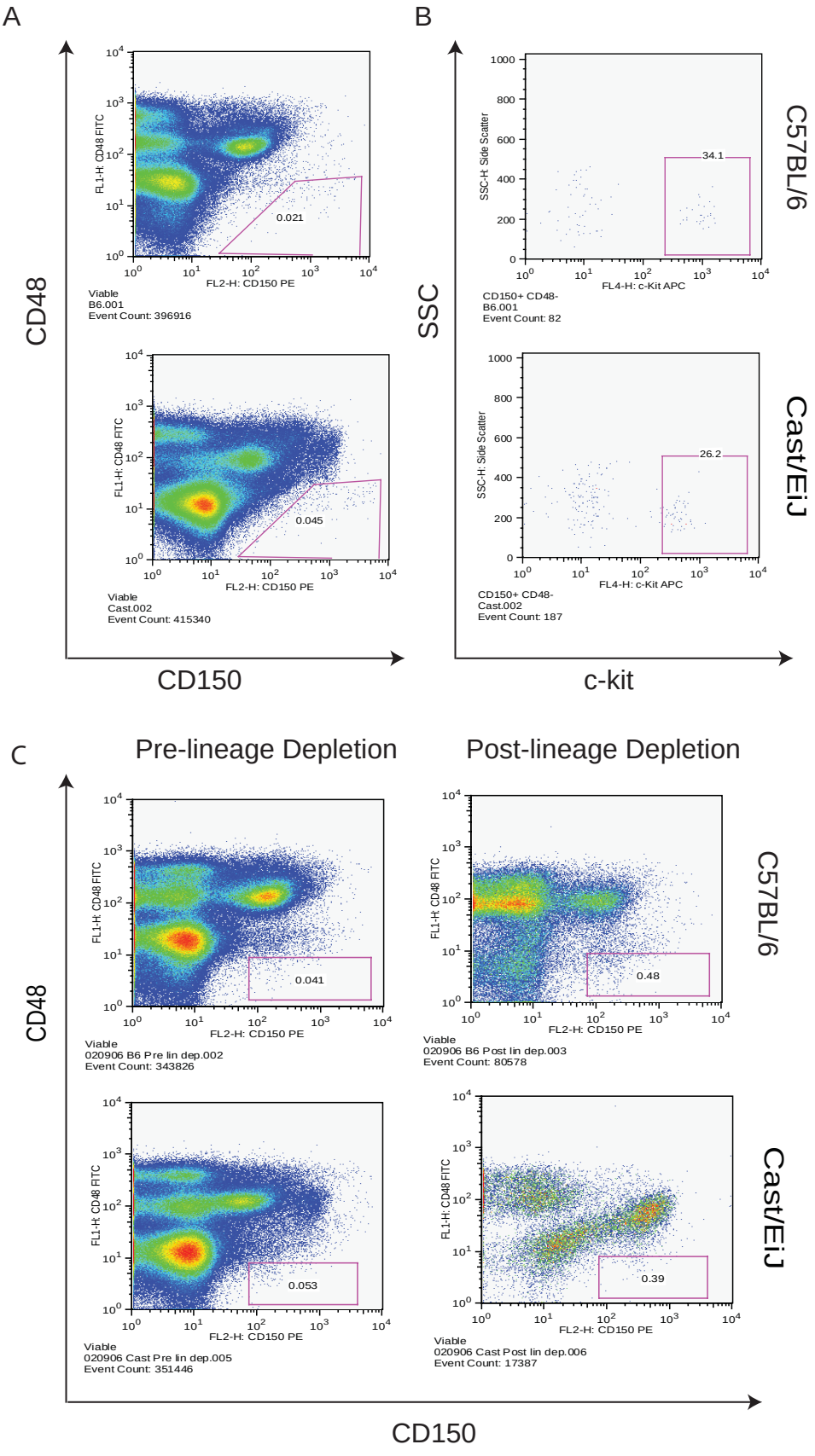
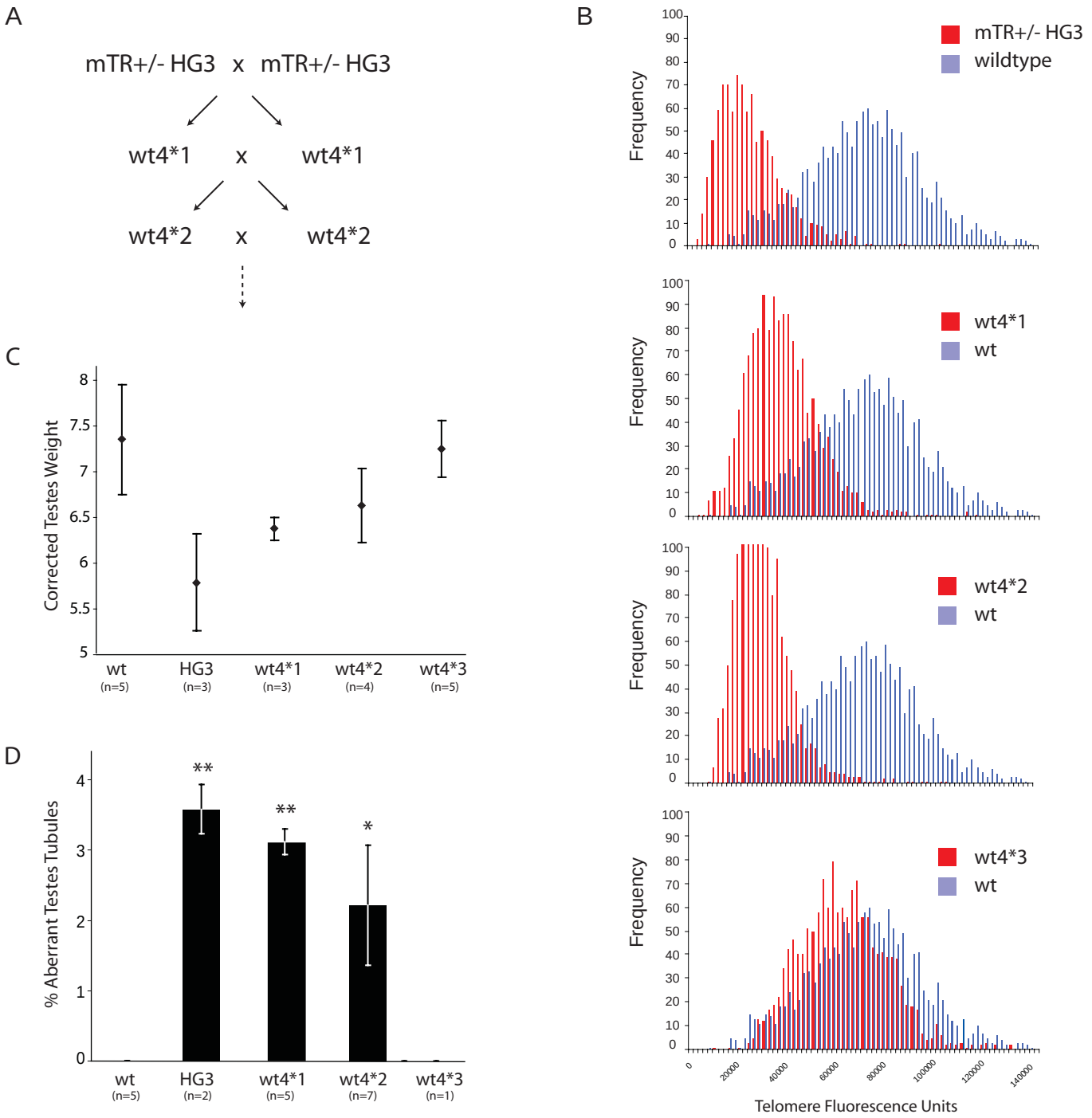
Figure S1. SLAM Cells Have a Similar Frequency in Wildtype Cast/EiJ and C57BL/6 Mouse Strains.



(A) FACS plot of CD150+CD48- cells in whole bone marrow shows a similar frequency of SLAM cells ~0.04%. **(B)** In both strains, ~30% of these cells are c-kit+. **(C)** Depletion of lineage committed cells leads to a 10-fold enrichment of SLAM cells. These data are consistent with the fact that this is a stem-progenitor population in Cast/EiJ mice.

Figure S2. Wildtype Telomerase Elongates Telomeres Incrementally Across Generations, Example of HG3 family is Shown.



(**A)** Breeding scheme of wt* mice with nomenclature. (**B)** Frequency distribution of telomere length as examined by quantitative FISH on metaphase splenocytes for each wt* generation compared with true wildtypes are shown in each panel (2 mice/group). Degenerative phenotypes resolve with successive telomere elongation as shown by an increase in testes weight **(C)** and the decreasing frequency of aberrant tubules in **(D)**. The number of examined mice is shown below each column and testes weight was corrected for body weight. Mice were 6 months of age. Error bars represent standard error of the mean.