Supporting Information
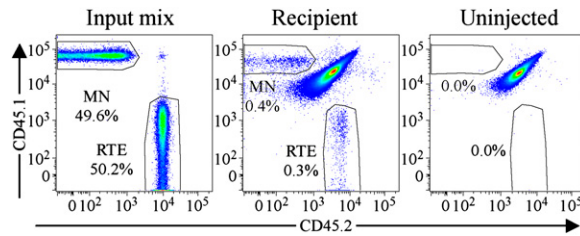
Houston et al. 10.1073/pnas.1015286108

Fig. S1. Gating scheme for detection of transferred congenically marked cells. Sorted naïve (CD44^lo/mid CD62L^hi) GFP⁺ recent thymic emigrants (RTEs) and GFP⁻ mature naïve (MN) T cells were mixed at an ~1:1 ratio (*Left*) and injected into lymphoreplete hosts (1–1.5 × 10⁶ of each population per recipient). At analysis time points, donor and host cell populations were resolved using congenic markers (*Center*), with cells from uninjected mice serving as gating controls (*Right*).
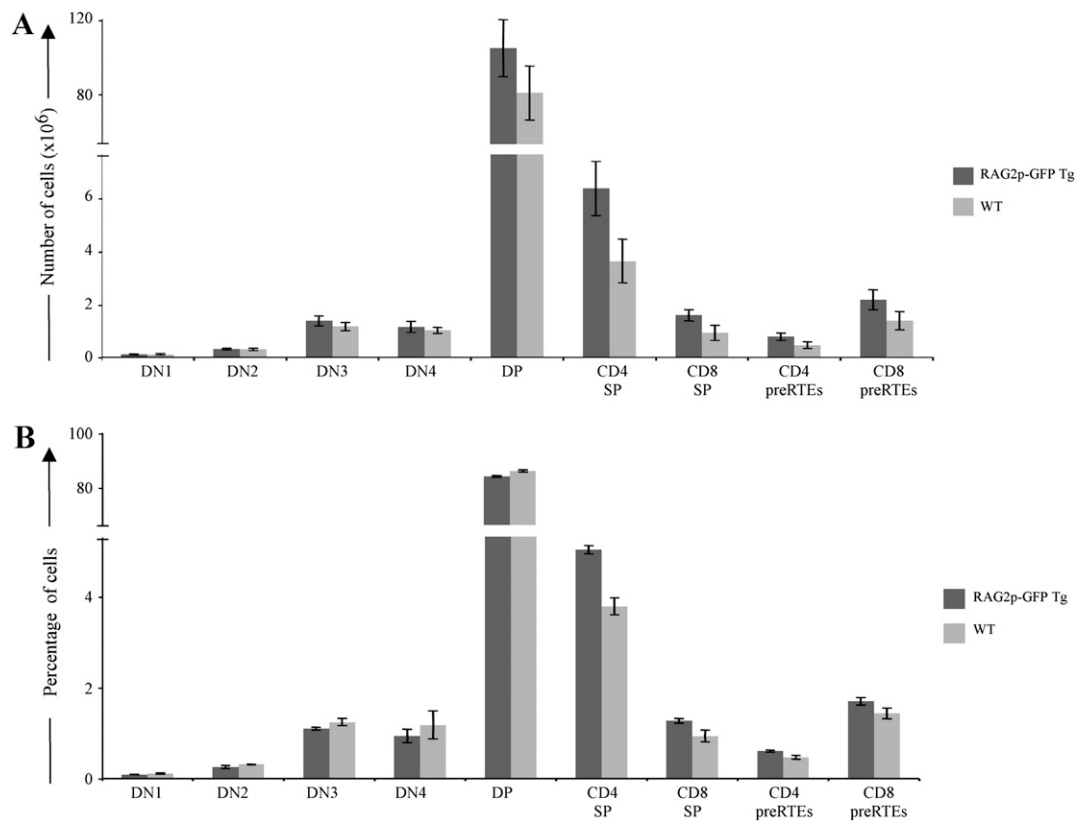

Fig. S2. Thymocyte populations are normal in percent and number in mice transgenic for GFP under control of the recombination activating gene 2 promoter (RAG2p-GFP Tg mice). Thymocytes from four RAG2p-GFP Tg and three non-Tg age- and sex-matched mice were surface stained for CD4, CD8, CD25, CD44, TCRβ, and CD69 to identify double-negative, double-positive, and CD4 and CD8 single-positive GFP⁺ T-cell receptor β-positive (TCRβ⁺) thymocyte populations. preRTEs were the most mature CD69^lo subset of CD4 and CD8 single-positive GFP⁺ TCRβ⁺ thymocytes. (*A*) Total cell numbers in each thymocyte population. (*B*) Percentages of total thymocytes.
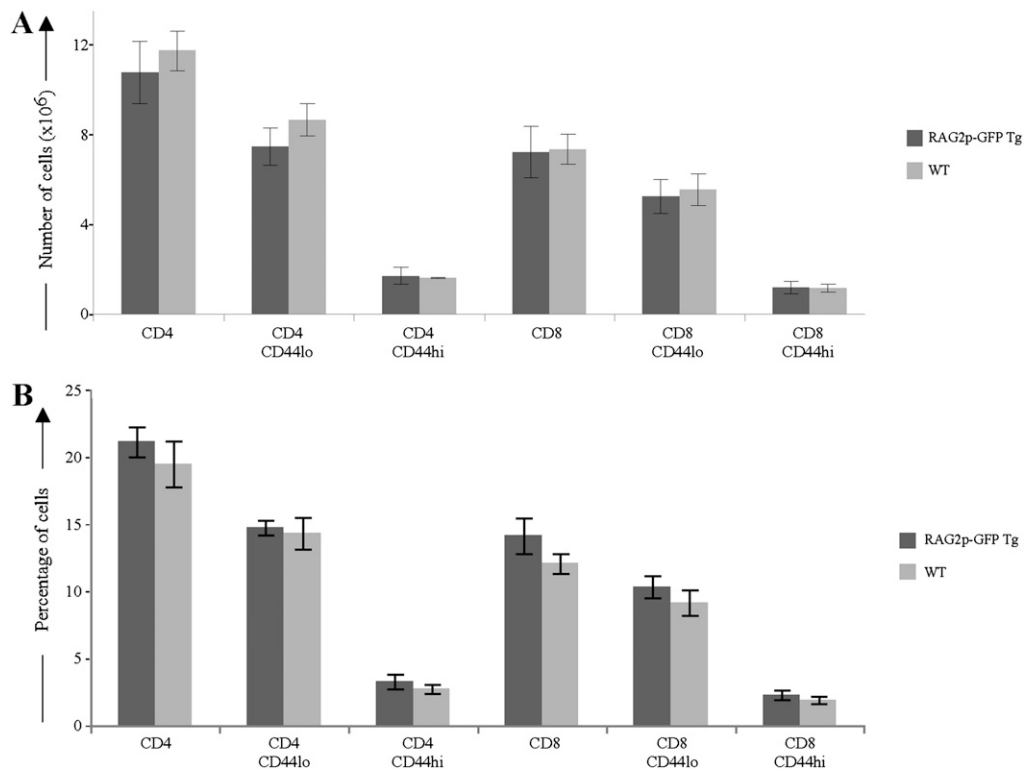
Fig. S3. Naïve and activated CD4 and CD8 T-cell populations are normal in percent and number in RAG2p-GFP Tg mice. Splenocytes from four RAG2p-GFP Tg and three non-Tg age- and sex-matched mice were surface stained for CD4, CD8, and CD44. (*A*) Total cell numbers in each splenocyte population. (*B*) Percentages of total splenocytes.
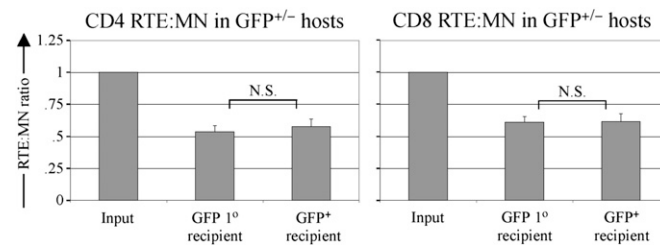

Fig. S4. GFP does not serve as a transplantation antigen in the RAG2p-GFP Tg system. Naïve CD4 (*Left*) or CD8 (*Right*) RTEs and MN T cells were coinjected into lymphoreplete RAG2p-GFP Tg (GFP[+]) or GFP[−] WT mice primed with GFP[+] splenocytes (GFP 1°), and the splenic RTE:MN ratio relative to input was calculated 3 wk posttransfer. $n = 3$ mice per group; data are representative of three independent experiments. Error bars represent SEM. Differences were not statistically significant (N.S) ($P = 0.64$ and $P = 0.91$ for CD4 and CD8 RTE:MN, respectively, using an unpaired Student's t test).