











Supplemental Figure 1: Independent contributions of Gvax and CTLA-4 blockade to intra-tumor CD8⁺ T cell infiltration and differentiation. C57BL/6 mice were challenged with B16/BL6 tumor at day 0 and treated/not treated with Gvax or anti-CTLA-4 either alone or in combination at days 3, 6 and 9. A) Tumor size was monitored over time. Number of mice rejecting tumor is shown and is representative of 3 independent experiments. Untreated 0/10; anti-CTLA-4 0/10; Gvax 2/10 (p=0.4737); Gvax/anti-CTLA-4 8/10 (p=0.0007). In parallel experiments, 15 days after tumor challenge tumors were removed, weighed and analyzed by flow cytometry for the percentage of CD8⁺, CD4⁺ and Foxp3⁺ T cells. b) ratio of CD8⁺/Foxp3⁺ T cells in tumor infiltrates; c) number of CD8⁺ T cells per gram of tumor; d) percentage of intra-tumor CD8⁺ T cells that are IFNY⁺ upon re-stimulation with trp2 peptide; e) number of intra-tumor CD4⁺Foxp3⁻ T cells per gram of tumor. All graphs show cumulative data from 3 independent experiments with 4-5 mice/group.

Supplemental Figure 2: Gvax/αCTLA-4 treatment decreases the ratio of effector T cells to regulatory T cells in tumor draining lymph nodes. C57BL/6 mice were challenged with B16/BL6 tumor cells. Fifteen days after tumor challenge, tumor draining lymph nodes from untreated or Gvax/anti-CTLA-4-treated mice where analyzed by flow cytometry for their content of CD4⁺, CD8⁺ and Foxp3⁺ positive T cells. A) Ratio of CD4⁺Foxp3⁻/CD4⁺Foxp3⁺ T cells. B) Ratio of CD8⁺/Foxp3⁺ T cells. Graphs show cumulative data from 2 independent experiments. Supplemental Figure 3: Frequency of CD8⁺ T cells producing IFN- γ is increased in peripheral blood upon Gvax/ α CTLA-4 therapy. C57BL/6 mice were challenged with B16/BL6 tumor cells at day 0 and treated/not treated with Gvax or anti-CTLA-4 either alone or in combination at days 3, 6 and 9. Fifteen days after tumor challenge, peripheral blood was collected from all groups in heparinized tubes and was analyzed by flow cytometry for the expression of CD8⁺ and Foxp3⁺ positive T cells. A) Ratio of CD8⁺/Foxp3⁺ T cells. Additional blood samples were depleted of red blood cells and incubated overnight with 10µg/ml anti-CD3 mAb and monensin for the last four hours of culture. Samples were stained for CD8 and IFN- γ expression and data was plotted as b) percentage of CD8⁺IFN- γ^+ T cells in blood, and c) ratio of CD8⁺IFN- γ^+ /Foxp3⁺ T cells in peripheral blood. Graphs show cumulative data from 2 independent experiments.