Figure S1. CD70-specific T cells show minimal reactivity against autologous B and T cells. (A) CD70-specific T cells (1 x 10^5) from 3 healthy donors were plated alone, in the presence of 5 x 10^4 autologous T cells, B cells, or Raji cells, or stimulated with PMA/ionomycin. Strong reactivity is seen against Raji cells and after PMA/ionomycin treatment, but not against autologous T or B cells, as measured by IFN-γ ELISPOT. (B) CD70-specific T cells kill Raji cells and B-cell blasts, but not OKT3 blasts in a 4 h ^51chromium release assay. Non-transduced cells show no killing of any targets (solid lines CD70-specific T cells, dashed lines non-transduced T cells).
Figure S2. Generation of CD70-CAR and ΔCD70-CAR DsRed-expressing T cells. (A) The CD70-CAR expression cassette was modified to include DsRed for detection and selection of transduced T cells. ΔCD70-CAR was generated by PCR deletion of 23 amino acids in the CD27 endodomain and cloned into the DsRed expression cassette. (B) Transduction efficiency was comparable between T cells expressing CD70-CAR-I-DsRed or ΔCD70-CAR-I-DsRed.