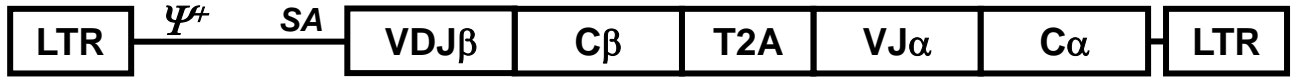
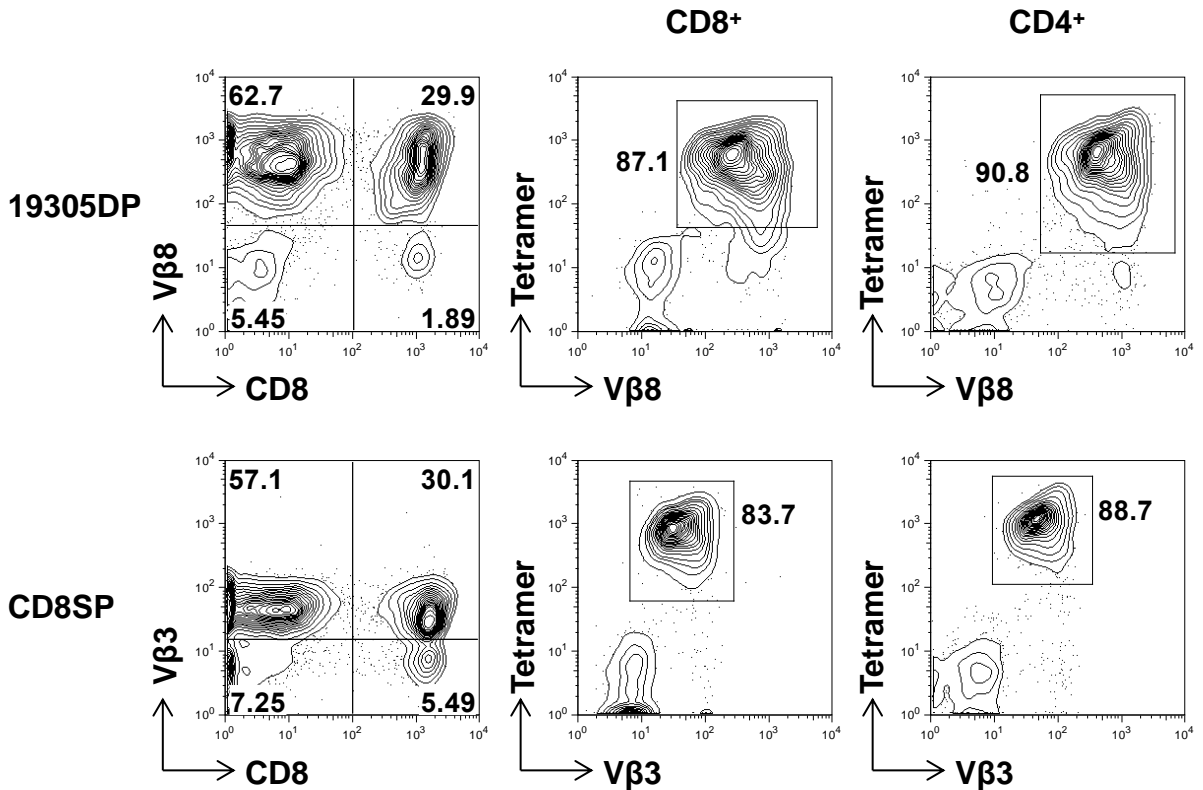


A**B**

Additional file 4: Generation of TCR gene-transduced T cells. (A) Schematic representation of retroviral TCR expression vector for 19305DP- and CD8SP-TCR. LTR: long terminal repeats; ψ^+ : extended packaging signal; SA: Splice acceptor site from the first intron-exon junction of human elongation factor-1 α ; VDJ β : TCR β chain variable-diverse-joining regions; C β : TCR β chain constant region; T2A: SGSG-linker connected to the T2A translational skipping sequence; VJ α : TCR α chain variable-joining regions; C α : TCR α chain constant region. (B) Transduction efficiency of 19305DP-TCR (V β 8) and CD8SP-TCR (V β 3) gene-engineered T cells was determined by flow cytometry using corresponding anti-V β subtype-specific antibodies and A*02/NY-ESO-1₁₅₇₋₁₆₅ tetramer.