



Supplementary Figure 4 Immunological screening of tumor-derived lymphocytes for recognition of mutated neoantigens and shared tumor antigens. **(a–d)** NCI-3998, 3784 and 3903 CD8⁺ lymphocytes were separated from fresh tumor single cell suspensions based on PD-1 expression, and expanded *in vitro*. Tumor-infiltrating lymphocyte (TIL) subsets from NCI-3998 **(a)**, NCI-3784 **(b)**, and NCI-3903 **(c)** were cocultured with autologous dendritic cells (DCs) transfected with an irrelevant TMG (Irrel.) or the indicated TMG constructs. IFN- γ spots/ 2×10^4 cells is shown. **(d)** TIL subsets from subjects (indicated below each graph) were cocultured with autologous DCs transfected with full-length RNA encoding for NY-ESO-1, MAGEA3, MART1, GP100, and TYR. IFN- γ spots/ 2×10^4 cells at 20 h is shown. “>” denotes greater than 500 spots / 2×10^4 cells. Data are representative of at least two independent experiments.