



Fig. S3. Assessing clonality of ERBB2IP mutation-reactive CD4+ T cells. (A) Patient 3737-TIL were co-cultured with DCs transfected with nothing (Mock) or TMG-1. CD4+ T cells that upregulated OX40 at t = 24 h (red box) were sorted by FACS and then expanded in bulk (B) or cloned by limiting dilution (C) using irradiated allogeneic feeders in the presence of anti-CD3 antibody (OKT3, 30 ng/ml) and IL-2 (3000 IU/ml). Flow-cytometry based TCR-V $\beta$  repertoire analysis was performed on (B) and V $\beta$ 22-specific staining was done on (C). Data are gated on live CD3+ cells.