1. TCR sequences for TCRs F5, F13, and F24 are taken from Supplementary table S11 of “Public T cell receptors confer high-avidity CD4 responses to HIV controllers” (PMID: 27111229), and that of TCR-3598\_2 from Table 1 of “Effective NY-ESO-1–specific MHC II–restricted T cell receptors from antigen-negative hosts enhance tumor regression” (PMID: 30530988).
2. Mutational scan data for is based on Fig. 2D-F and 4E peptide fold enrichment data, found in Supplementary tables S1 and S2.
3. For TCRs F5, F13, and F24 we skip positions 1,2,23,24 since the epitope sequence is denoted FRDYVDRFYKTLRAEQASQE in the paper. In the data, peptides sequence replicates are reported as multiple entries, we average over all occurrences of each peptide as part of the full 56-aa tile “SILDIRQGPKEP**FRDYVDRFYKTLRAEQASQE**VKNWMTETLLVQNANPDCKTILKA”.
4. For TCR-3598-2, data, peptides sequence replicates are reported as multiple entries, we average over all occurrences of each peptide as part of the full 56-aa tile “AMPFATPMEAELARRSLAQDAPP**LPVPGVLLKEFTVSGNILTI**RLTAADHRQLQLS”.
5. We minmax normalize the enrichment data to lie between [0,1] for each TCR separately.