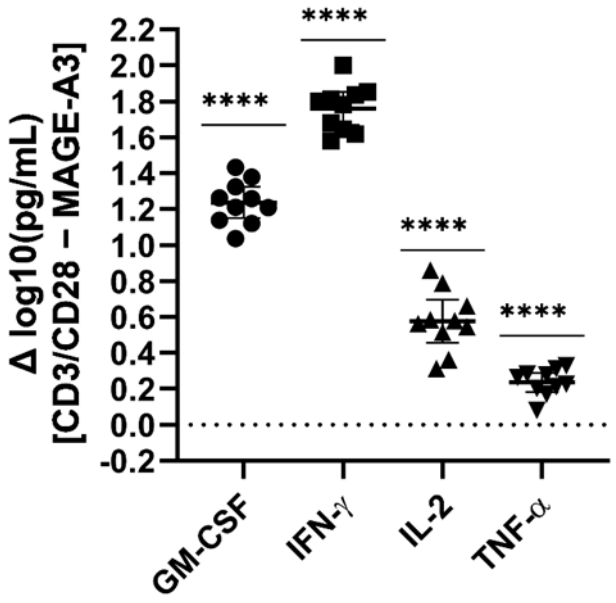

Figure S1. Per-donor cytokine differences between CD3/CD28 and MAGE-A3. For each donor, Δ was computed as log10(pg/mL)_{CD3/CD28} − log10(pg/mL)_{MAGE-A3} (positive values indicate higher secretion with CD3/CD28 than MAGE-A3). Points show donors (n = 10); bars show mean ± 95% CI (or median ± IQR where non-normal). One-sample t test (or Wilcoxon signed-rank if non-normal) vs. 0, two-sided; ****$P < 0.0001$. Mean Δ and 95% CI correspond to ~17-fold (GM-CSF), 58-fold (IFN-γ), 3.8-fold (IL-2), and 1.7-fold (TNF-α) higher levels with CD3/CD28 than MAGE-A3.

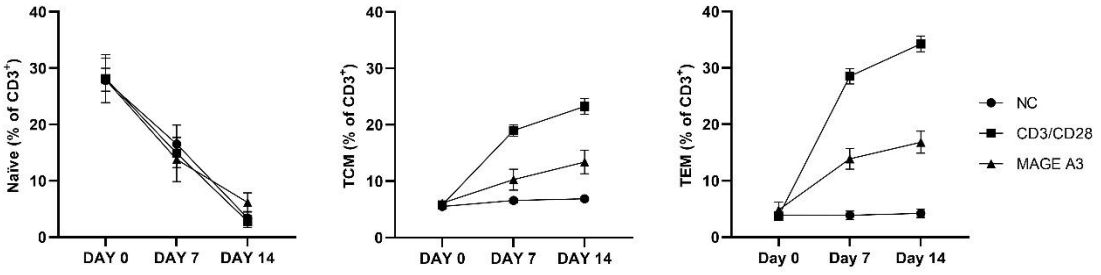

Figure S2. Kinetics of T-cell memory subsets (mean ± SEM, matched donors). Naïve, TCM, and TEM are shown as % of $CD3^+$ at Day 0, 7, and 14 under NC (circles), CD3/CD28 (squares), or MAGE-A3 (triangles). Points are group means; error bars are SEM; n = 6 matched donors (same donors as Figure 3B). These descriptive trajectories complement Figure 3B and align with the two-way RM-ANOVA and Šidák tests summarized in Table S3.