



**Supp. Figure 4.** (A) Percent of mcherry<sup>+</sup> CAR-T cells in the tumor on day 10 post-infusion (B) MitotrackerFM staining of mcherry<sup>+</sup> versus mcherry<sup>-</sup> CAR-T cells within the same mouse. (C) Fold expansion at day 10 of expansion. (D) Long-term fold-expansion of PGC-1α<sup>S571A</sup> CARs versus WT CARs. (E) Trypan Blue<sup>+</sup> cells at day 10 of expansion.