

Figure S2, Related to Figure 1: Intrinsic vs extrinsic determinants of cell fate stratify the effect of  $\alpha$  on clone-cluster congruence.

**A.** Sankey diagrams for the 15 largest clone clusters in two samples across  $\alpha$  values, a clonal melanoma cell line treated with high dose (1 $\mu$ M) vemurafenib 11 with known intrinsic determinants of cell fate and directed differentiation of induced pluripotent stem cells (iPSCs) towards a cardiomyocyte fate 18 with previously described dominance of extrinsic determinants of cell fate.

**B.** Cohen's  $\kappa$  for interrater reliability for classification of a cell by clone barcode and cluster assignment for the top 15 largest clone clusters across  $\alpha$  values for the samples in **(A)**.