



Figure 3. Strategy to derive iPSCs. (*Top*) Schematic representation of the first successful attempt to produce iPSCs by Takahashi and Yamanaka. (*Bottom*) The genetic assay system used to screen for factors that could reprogram to pluripotency (reprogramming factors [RFs]). Partial reprogramming to iPSCs was achieved by viral infection of cells with Oct4, Sox2, Klf4, and c-Myc, followed by drug selection for *Fbxo15*-expressing cells. In contrast, subsequent modifications to the assay selecting for *Oct4*- or *Nanog*-expressing cells gave rise to fully reprogrammed iPSCs. Note that drug selection is not essential for producing high-quality iPSCs, but was used as part of the assay to identify factors that induced embryonic gene expression (see text).