Supplemental Figure S15. Sorting library cells with single integrated reporter construct using FACS. (A) To eliminate debris, dead cells and clumps or doublets the population of cells were gated according to FSC and SSC channels (Gate P1, 73.7% of the population). **(B)** To determine the amount of integrated reporter constructs we examine the mCherry distribution. Two peaks were obtained corresponding to single integration (lower mCherry levels) and double integration (higher mCherry levels). Cells containing single integrated construct were sorted using a gate corresponding to Gate P9 from Fig. S14 (Gate P4, 34.6% of (+)mCherry population, 4% of total population). **(C)** Cells were grown for 8 days and reanalyzed using flow cytometry. mCherry expression matches the distribution of the single-integration population. Cells within Gate P4 were sorted to 16 expression bins according to eGFP/mCherry ratio (Gate P4, 98% of (+)mCherry population, 58.2% of total population).