



Supplemental Fig. S3. The efficiency of BFP conversion in the HPRT-EGFP sense cell line. (A) The efficiency of BFP conversion. The wild type Cas9 and D10A variant are labeled as Cas9 and nCas9, respectively. The strandedness of the sgRNA and ODNs (without synonymous SNPs) are labeled with respect to the coding sequence of EGFP. Note that the Cas9 D10A variant nicks the strand complementary to that of the sgRNA. All data are shown as the mean  $\pm$  SEM of three biological replicates. (B) Single representative flow cytometry images of each bar shown in (A). (C) Similar to (B) except that examples using wild-type cleavage or dual nickases are also shown.