Description of Additional Supplementary Files

File Name: Supplementary Data 1 Description: Fetal hemoglobin levels and cases of HPFH SNVs and the Δ 13bp deletion within the proximal y-globin (HBG1/2) promoters.

File Name: Supplementary Data 2 Description: SRA accession number of RNA-seq, ATAC-seq, ChIP-seq and CUT&RUN shown in Supplementary Figure 2.

File Name: Supplementary Data 3 Description: gRNA nucleotide sequence information.

File Name: Supplementary Data 4 Description: Primer sequences used for PCR screening and Sanger sequencing of gRNA editing efficiency.

File Name: Supplementary Data 5 Description: qPCR primer sequences used for detection of genome editing events.

File Name: Supplementary Data 6 Description: qPCR primer sequences used for mRNA expression.

File Name: Supplementary Data 7 Description: qPCR primer sequences used for 3C.

File Name: Supplementary Data 8 Description: Oligos for Site Directed Mutagenesis of BCL11A exon 4 mutations.

File Name: Supplementary Data 9 Description: Western blot antibodies

File Name: Supplementary Data 10 Description: Flow cytometry antibodies.