

Supplementary Data 1. Transcription factor archetype motif enrichment results in the 5,393 erythroid DHS.

Supplementary Data 2. The 15,000 candidate enhancer library including hg38 genomic coordinates, genic feature annotation, HGNC symbol of nearest gene, activity scores, phastCons conservation score and mapped motif archetypes.

Supplementary Data 3. Transcription factor archetype motif enrichment results within the potential enhancers and potential silencers.

Supplementary Data 4. hg38 genomic coordinates, HGNC symbol of nearest gene, activity score and genomic sequence of the 205 smaller candidate enhancer library.

Supplementary Data 5. hg38 genomic coordinates, HGNC symbol of nearest gene, lentiviral vector identifier and genomic sequence of the 40 individual enhancers.

Supplementary Data 6. TALEN binding sequences for the PVT1 and PPARG enhancer knock out experiment