

Description of Additional Supplementary Files

File name: Supplementary Data 1

Description: The quality metrics of 4C-seq data.

File name: Supplementary Data 2

Description: Genome-wide chromatin interaction sites of 4C data identified by r3Cseq.

File name: Supplementary Data 3

Description: Chromatin interaction sites between replicates identified by r3Cseq.

File name: Supplementary Data 4

Description: Differential analysis of interaction sites between iBAT and eWAT.

File name: Supplementary Data 5

Description: Mass spectrometry of Ucp1-En4 pulldown proteins.

File name: Supplementary Data 6

Description: The PCR primers for 4C-seq library construction.

File name: Supplementary Data 7

Description: The detailed information of ChIP-seq, ATAC-seq, and DHS-seq data.

File name: Supplementary Data 8

Description: The PCR primers of constructed vectors.

File name: Supplementary Data 9

Description: CRISPRi sgRNA for targeting active enhancers of Ucp1.

File name: Supplementary Data 10

Description: The primers for gene expression, mtDNA copy number, and ChIP-qPCR.

File name: Supplementary Data 11

Description: The primers for 3C-qPCR.

File name: Supplementary Data 12

Description: The source data behind the graphs in the paper.