

Supporting Information

Linnemann et al. 10.1073/pnas.1108440108

SI Materials and Methods

ELISA. Control siRNA- and GATA binding protein 2 (*GATA-2*) siRNA-transfected cells were treated with 10 ng/mL recombinant human TNF- α (Miltenyi Biotec) or an equal volume of

vehicle (1% BSA in water) for 6 h before collection 24 h post-transfection. Supernatants were collected and analyzed for IL-8 by ELISA (Quantikine kit; R&D Systems). Gene expression was analyzed in each sample to validate the *GATA-2* knockdown.

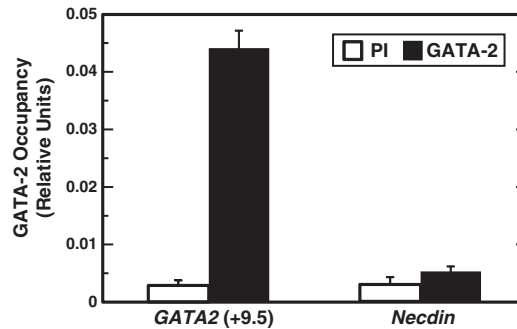


Fig. S1. Quantitative ChIP validation of samples used for ChIP sequencing (ChIP-seq). Quantitative ChIP analysis of GATA-2 occupancy at the *GATA2* +9.5-kb intronic enhancer. The *Necdin* promoter was analyzed as a negative control. Data shown are mean \pm SE; $n = 3$. PI, preimmune control.

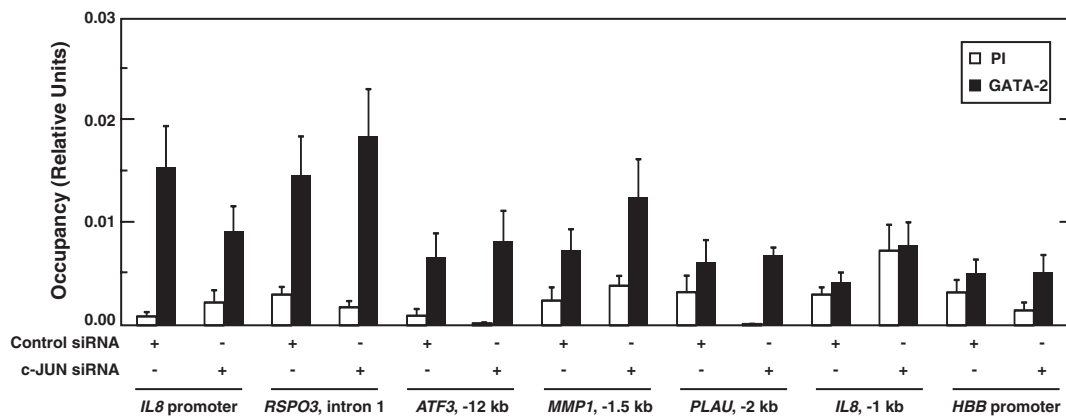


Fig. S2. The jun proto-oncogene (*c-JUN*) knockdown does not affect GATA-2 chromatin occupancy. Quantitative ChIP at GATA-2/AP-1-regulated genes [*IL-8*, *RSPO3*, activating transcription factor 3 (*ATF3*), *MMP1*, and *PLAU*] and negative controls [human β -globin (*HBB*) promoter and a site 1 kb upstream of the *IL-8* promoter]. Data shown are mean \pm SE; $n = 5$. PI, preimmune.

Dataset S1. Genomic locations of GATA-2 CHIP-seq peaks

[Dataset S1](#)

The 15,529 GATA-2-occupied peaks were classified relative to the nearest transcription start site: 5d, regions 10–100 kb upstream of a reference sequence (RefSeq) gene; 5p2, regions 2–10 kb upstream of a RefSeq gene; 5p1, regions <2 kb upstream of a RefSeq gene; gene, any exon or intron of a RefSeq gene; 3p1, regions <2 kb downstream of the last exon of a RefSeq gene; 3p2, regions 2–10 kb downstream of the last exon of a RefSeq gene; 3d, regions between 10–100 kb downstream of the last exon of a RefSeq gene; gd, gene desert (includes regions >100 kb from a RefSeq gene).

Dataset S2. GATA-2 occupancy of genes encoding ETS/ETS-variant transcription factors

[Dataset S2](#)

The ETS and ETS-variant transcription factors were organized with respect to subfamily. GATA-2 peaks associated with each gene locus are indicated.

Dataset S3. Locations and peak heights of genomic loci occupied by both GATA-2 and c-JUN

[Dataset S3](#)

Dataset S4. Locations and peak heights of genomic loci occupied by both GATA-2 and c-FOS

[Dataset S4](#)

Dataset S5. PCR primer sequences

[Dataset S5](#)