File description for Supplementary Figures and Tables:

Figure S1a: Design of plasmid vector used for CRISPR studies

Figure S1b: Design of guide RNA sequences for targeting *FURIN* via CRISPR

Figure S2: Schematic of plasmid construction expressing GFP and two guide RNAs

Figure S3: FACS analysis of U937 cell transfections

Figure S4a: Design of sequencing primers to verify FURIN gene status in U937 cells

Figure S4b: Results from DNA sequencing of U937 clones subjected to CRISPR-mediated *FURIN* gene modification

Figure S5: Principal components analysis (PCA) of gene expression in WT, HZ and NZ U937 clones

ST1 – Sequences of PCR primers used for quantifying candidate gene expression

ST2 - Differentialy gene expression analysis using limma

ST3 – Gene Set Enrichment Analysis (GSEA) results

ST4 – Results from Self Organizing Maps (SOM) analysis

ST5 – Pathway enrichment analysis of SOM clusters

ST6 – Cytokine secretion data from proteomics study