Supplementary Table 1. Oligonucleotides used in the construction of *SCL40A1* promoter reporter plasmids and DNA-protein binding assay

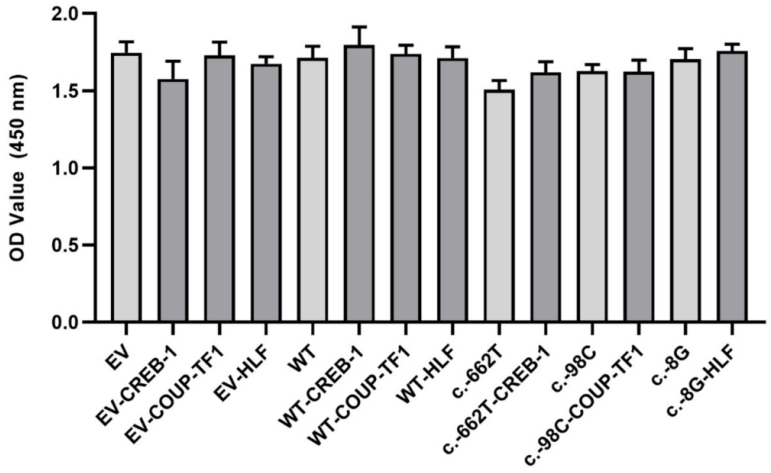
Primers for *SLC40A1* promoter cloning (1,554 bp)[a]	
Sense (*Kpn*I site)	5′-CGG**GGTACC**CCGCCACTACCAGGGTTTTCGTGA-3′
Antisense (*Hind*III site)	5′-CCC**AAGCTT**GGGTGGGTTTCCACCATATGCTTTC-3′
Primers for *SLC40A1* mutagenesis PCR[b]	
c.-1355G>C	5′-CGAAGTCAACCAAGGCTA**C**AGTCTGGTGTTCTTTA-3′
c.-750G>A	5′-CCGCCCTTTCCCT**A**AACTGCGGGGTAG-3′
c.-662C>T	5′-CCCCGCCGGCT**T**CACGCGCCTTC-3′
c.-98G>C	5′-GTTGTGTTTTTAGAGGT**C**CTATCTCCAGTTCCTTG-3′
c.-8C>G	5′-AGCGGGGTCGC**G**TAGTGTCATGAC-3′
Oligonucleotides for DNA-protein binding assay	
Consensus CREB-1[b]	5′-AGAGATTGC**CTGACGTCA**GAGAGCTAG-3′
Wild type (c.-662C)[c]	5′-CCCCGCCGGCT**C**CACGCGCCTTC-3'
Variant (c.-662T)[c]	5′-CCCCGCCGGCT**T**CACGCGCCTTC-3'
Consensus COUP-TF1[b]	5′-AGCTTGGTGTCAA**AGGTCA**AACTTAGCT-3'
Wild type (c.-98G)[c]	5′-TGTGTTTTTAGAGGT**G**CTATCTCCAGTTCC-3'
Variant (c.-98C)[c]	5′-TGTGTTTTTAGAGGT**C**CTATCTCCAGTTCC-3'
Consensus HLF[b]	5′-CAGGG**TTAC**GTAATCTGCT-3'
Wild type (c.-8C)[c]	5′-AGCCAGCGGGGTCGC**C**TAGTGTCATGACCAG-3'
Variant (c.-8G)[c]	5′-AGCCAGCGGGGTCGC**G**TAGTGTCATGACCAG-3'

SLC40A1, solute carrier 40A1; WT, wild type; CREB-1, cAMP response element-binding protein-1; COUP-TF1, chicken ovalbumin upstream promoter transcription factor 1; HLF, hepatic leukemia factor. [a]Restriction endonuclease sites are indicated in bold letters and underlined. [b]Consensus sequences of transcription factors are indicated in bold-faced letters and underlined. [c]Single nucleotide polymorphism sites are indicated in bold letters.

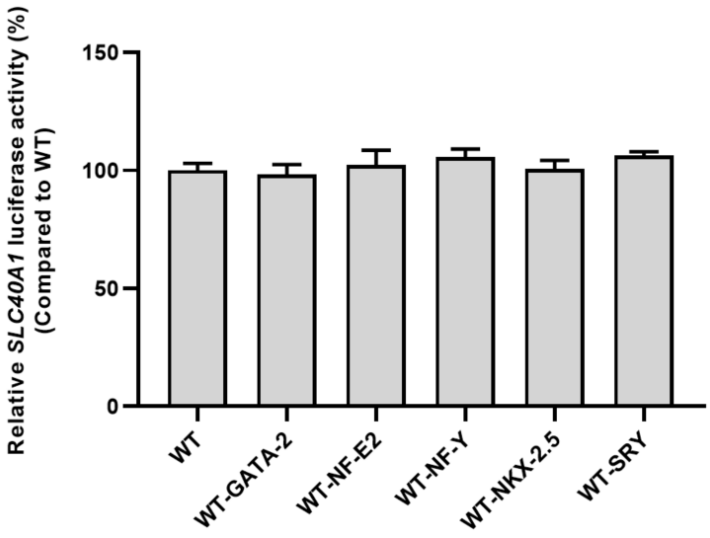
Supplementary Table 2. Frequencies of *SLC40A1* major haplotypes in African

c.-1470 C>T	c.-1461 T>C	c.-1355 G>C	c.-1098 G>A	c.-750 G>A	c.-662 C>T	c.-98 G>C	c.-8 C>G	Frequency
C	T	**C**	G	G	**T**	G	C	0.272
C	T	**C**	G	G	C	G	C	0.099
C	T	G	**A**	**A**	C	G	C	0.094
C	T	G	G	G	C	G	C	0.091
C	T	**C**	**A**	G	C	G	C	0.081
C	T	G	G	G	**T**	G	C	0.064
C	T	**C**	G	**A**	**T**	G	C	0.061
T	**C**	G	G	G	C	G	C	0.055

Single nucleotide polymorphisms are indicated in bold letters.



Supplementary Fig. 1. The effect of transcription factor overexpression on cell viability. A cell viability assay was performed after co-transfection of reporter plasmids containing *SLC40A1* WT or variants and transcription factors—CREB-1 (500 ng), COUP-TF1 (100 ng), and HLF (200 ng)—into HCT-116 cells. Then, we compared cell viability when transcription factors were overexpressed and when they were not. Data shown represents mean ± SD from triplicate wells in a representative experiment. *SLC40A1, solute carrier 40A1*; WT, wild type; CREB-1, cAMP response element-binding protein-1; COUP-TF1, chicken ovalbumin upstream promoter transcription factor 1; HLF, hepatic leukemia factor; OD, optical density.



Supplementary Fig. 2. The effect of other transcription factors on the *SLC40A1* promoter activity. A luciferase assay was conducted after co-transfection of 500 ng of *SLC40A1* WT reporter plasmid and 100 ng of five transcription factors—GATA-2, NF-E2, NF-Y, NKX-2.5, and SRY—that were predicted not to bind to the *SLC40A1* promoter. Data shown represents mean ± SD from triplicate wells in a representative experiment. *SLC40A1, solute carrier 40A1*; WT, wild type; GATA-2, GATA binding protein 2; NF-E2, nuclear factor erythroid 2; NF-Y, nuclear transcription factor Y; NKX-2.5, NK2 transcription factor related, locus 5; SRY, sex-determining region Y gene.