



Table S1. Box-Cox transformation received by mRNA expression of genes used in this study.

Gene	λ	Transformation	
SAA	0	ln(x)	
HPT	0	ln(x)	
ALB	1	No ¹	
HAMP	0.5	Sqrt(x)	
HMGCR	-0.5	1/Sqrt(x)	
HMGCS-2	0.5	Sqrt(x)	
PC	-1	1/x	

ln = natural logarithm, Sqrt = Square root, SAA = Serum α -amyloid, HPT = Haptoglobin, ALB = Albumin, HAMP = Hepcidin, HMGCR = 3-hydroxy-3-methylglutaryl-CoA reductase, HMGCS-2 = 3-hydroxy-3-methyl-glutaryl CoA-synthase, PC = Pyruvate carboxylase. 1 No transformation was required.

Table S2. Least square means \pm SEM of mRNA expression of Serum α -amyloid and Haptoglobin before back transformation.

Gene	P1	P2	Р3
SAA	-3.28 ± 0.829	-0.96 ± 0.829	-2.34 ± 0.741
HPT	-0.80 ± 0.730	0.93 ± 0.730	-1.19 ± 0.653

SAA = Serum α -amyloid, HPT = Haptoglobin.