**Table S1.** List of genes in eQTL with rs1052373 in the blood including their function and associated diseases.

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| --- | --- | --- | --- | --- | --- |
| **SNP** | **Minor Allele** | **Gene name** | **P-value** | **Gene Function** | **Associated diseases** |
| rs1052373TT | T | Spi-1 (Spi-1 Proto-Oncogene) | 3.3251 x10-69 | An ETS-domain transcription factor that activates gene expression during myeloid and B-lymphoid cell development |  Inflammatory Diarrhea and Primary Mediastinal B-Cell Lymphoma |
| Myosin Binding Protein C, Cardiac (MYBPC3) | 1.2009 x10-59 | A myosin-associated protein found in the cross-bridge-bearing zone (C region) of A bands in striated muscle. Its phosphorylation modulates cardiac contraction |  Cardiomyopathy, Familial Hypertrophic, and Left Ventricular Noncompaction  |
| MAP Kinase Activating Death Domain (MADD) | A death domain-containing adaptor protein that interacts with the death domain of TNF-alpha receptor 1 to activate mitogen-activated protein kinase (MAPK) and propagate the apoptotic signal.  | Diastolic Heart Failure & cardiac hypertrophy |
| ACP2 (Acid Phosphatase 2, Lysosomal) | 2.1617 x10-53 |  A histidine acid phosphatase that hydrolyzes orthophosphoric monoesters to alcohol and phosphate.  | Bone structure alterations, lysosomal storage defects, and an increased tendency towards seizures |
| NR1H3 (Nuclear Receptor Subfamily 1 Group H Member 3) | 4.56 x10-53 |  A nuclear receptor that works as a key regulator of macrophage function, controlling transcriptional programs involved in lipid homeostasis and inflammation. Plays an important role in the regulation of cholesterol homeostasis. Liver X receptors regulate adrenal steroidogenesis  | Multiple Sclerosis and Cerebrotendinous Xanthomatosis. Among its related pathways are Lipoprotein metabolism and Nuclear Receptors in Lipid Metabolism and Toxicity |