Supplemental Material

Table S1: Proteins Significantly Associated with Total HFH and CV Death in the Minimally Adjusted Model

Protein Symbol	Protein Name	Rate Ratio (95% CI)	P-Value	Adjusted P-Value
SERPINA4	Kallistatin	0.73 (0.66-0.81)	1.08E-09	1.31E-06
B2M	Beta-2-microglobulin	1.74 (1.45-2.1)	3.90E-09	3.14E-06
TIMP1	Tissue inhibitor of metalloproteinase 1	1.49 (1.3-1.7)	6.54E-09	4.51E-06
SVEP1	Sushi, von Willebrand factor type A, EGF and pentraxin domain-containing protein 1	1.46 (1.28-1.67)	1.27E-08	7.01E-06
CLSTN3	Calsyntenin-3	1.47 (1.29-1.68)	1.51E-08	7.29E-06
EFEMP1	EGF-containing fibulin-like extracellular matrix protein 1	1.36 (1.22-1.52)	3.01E-08	1.32E-05
TFF3	Trefoil factor 3	1.37 (1.22-1.53)	4.03E-08	1.62E-05
TFF2	Trefoil factor 2	1.51 (1.3-1.75)	6.28E-08	2.33E-05
REG1A	Lithostathine-1-alpha	1.49 (1.29-1.73)	7.00E-08	2.41E-05
SPON1	Spondin-1	1.48 (1.28-1.71)	1.22E-07	3.94E-05
GAS1	Growth arrest-specific protein 1	1.49 (1.28-1.73)	2.04E-07	6.15E-05
AFM	Afamin	0.65 (0.56-0.77)	2.25E-07	6.38E-05
HDGF	Hepatoma-derived growth factor	1.42 (1.24-1.62)	2.75E-07	7.38E-05
EPHA10	Ephrin type-A receptor 10	1.34 (1.2-1.5)	3.15E-07	8.00E-05
GDF15	Growth/differentiation factor 15	1.54 (1.3-1.83)	4.39E-07	1.06E-04
TNFRSF1A	Tumor necrosis factor receptor superfamily member 1A	1.64 (1.35-1.98)	5.69E-07	1.31E-04
GHR	Growth hormone receptor	0.68 (0.59-0.8)	9.40E-07	2.06E-04
RSPO4	R-spondin-4	1.32 (1.18-1.48)	1.19E-06	2.50E-04
NPPB	Brain natriuretic peptide 32	1.14 (1.08-1.21)	1.30E-06	2.62E-04
CST3	Cystatin-C	1.72 (1.38-2.15)	1.48E-06	2.87E-04
AK2	Adenylate kinase 2, mitochondrial	1.31 (1.17-1.46)	1.71E-06	3.18E-04
SCARF2	Scavenger receptor class F member 2	1.27 (1.15-1.41)	2.20E-06	3.94E-04
TMPO	Lamina-associated polypeptide 2, isoforms beta/gamma	1.38 (1.2-1.57)	2.60E-06	4.49E-04
IL18	Interleukin-18	1.41 (1.22-1.63)	3.24E-06	5.21E-04
EDA2R	Tumor necrosis factor receptor superfamily member 27	1.28 (1.15-1.42)	3.56E-06	5.54E-04
BAGE2	B melanoma antigen 2	1.42 (1.22-1.64)	3.75E-06	5.66E-04
APOE	Apolipoprotein E (isoform E4)	0.7 (0.6-0.81)	4.03E-06	5.90E-04
MAX	Protein max	1.28 (1.15-1.43)	4.46E-06	5.98E-04
IGFLR1	IGF-like family receptor 1	1.55 (1.29-1.88)	4.22E-06	5.98E-04
MXI1	MAX-interacting protein 1	1.25 (1.14-1.38)	4.64E-06	6.06E-04
SNRPA	U1 small nuclear ribonucleoprotein A	1.32 (1.17-1.49)	6.69E-06	8.28E-04
OIT3	Oncoprotein-induced transcript 3 protein	1.24 (1.13-1.36)	7.58E-06	9.15E-04
IL1RL1	Interleukin-1 receptor-like 1	1.37 (1.19-1.58)	8.06E-06	9.50E-04
MPG	DNA-3-methyladenine glycosylase	1.28 (1.15-1.42)	8.50E-06	9.77E-04
FGA, FGB, FGG	D-dimer	1.2 (1.11-1.31)	9.00E-06	9.80E-04
ECH1	Delta(3,5)-Delta(2,4)-dienoyl-CoA isomerase, mitochondrial	1.21 (1.11-1.31)	1.02E-05	1.05E-03

ATP5J	ATP synthase-coupling factor 6, mitochondrial	1.26 (1.14-1.4)	1.09E-05	1.10E-03
CILP2	Cartilage intermediate layer protein 2	0.64 (0.52-0.78)	1.38E-05	1.31E-03
AHSP	Alpha-hemoglobin-stabilizing protein	0.72 (0.63-0.84)	1.36E-05	1.31E-03
TAGLN	Transgelin	1.51 (1.25-1.83)	1.74E-05	1.58E-03
SLC14A2	Urea transporter 2	1.27 (1.14-1.41)	1.87E-05	1.67E-03
PAFAH1B2	Platelet-activating factor acetylhydrolase IB subunit beta	1.29 (1.15-1.45)	2.12E-05	1.83E-03
QSOX1	Sulfhydryl oxidase 1	1.33 (1.16-1.51)	2.28E-05	1.87E-03
IL21R	Interleukin-21 receptor	1.22 (1.12-1.35)	2.28E-05	1.87E-03
FOXM1	Forkhead box protein M1	1.24 (1.12-1.37)	2.68E-05	2.16E-03
TIMP2	Tissue inhibitor of metalloproteinase 2	1.38 (1.18-1.6)	3.05E-05	2.42E-03
CDH3	Cadherin-3	0.69 (0.58-0.82)	3.19E-05	2.48E-03
HNRNPM	Heterogeneous nuclear ribonucleoprotein M	1.24 (1.12-1.37)	3.25E-05	2.49E-03
CPT1B	Carnitine O-palmitoyltransferase 1, muscle isoform	0.67 (0.56-0.81)	3.38E-05	2.55E-03
LY6G6C	Lymphocyte antigen 6 complex locus protein G6c	1.24 (1.12-1.37)	3.53E-05	2.62E-03
CLEC4M	C-type lectin domain family 4 member M	0.71 (0.61-0.84)	3.67E-05	2.68E-03
TREM1	Triggering receptor expressed on myeloid cells 1	1.45 (1.21-1.73)	3.96E-05	2.81E-03
CLEC3B	Tetranectin	0.67 (0.56-0.81)	4.04E-05	2.83E-03
FKBP7	Peptidyl-prolyl cis-trans isomerase FKBP7	1.35 (1.17-1.55)	4.14E-05	2.86E-03
TMEM185A	Transmembrane protein 185A	0.73 (0.63-0.85)	4.79E-05	3.09E-03
FRZB	Secreted frizzled-related protein 3	0.73 (0.63-0.85)	4.75E-05	3.09E-03
IGFALS	Insulin-like growth factor-binding protein complex acid labile subunit	0.72 (0.62-0.85)	5.08E-05	3.19E-03
PDIA6	Protein disulfide-isomerase A6	1.24 (1.12-1.38)	5.49E-05	3.29E-03
LONP1	Lon protease homolog, mitochondrial	1.26 (1.13-1.41)	5.53E-05	3.29E-03
SPON2	Spondin-2	1.4 (1.19-1.65)	5.39E-05	3.29E-03
PTK7	Inactive tyrosine-protein kinase 7	1.4 (1.19-1.65)	6.48E-05	3.77E-03
ELK3	ETS domain-containing protein Elk-3	1.21 (1.1-1.33)	6.57E-05	3.78E-03
EWSR1	RNA-binding protein EWS	1.32 (1.15-1.52)	6.90E-05	3.86E-03
ABHD14A	Alpha/beta hydrolase domain-containing protein 14A	1.39 (1.18-1.64)	6.96E-05	3.86E-03
MDM1	Nuclear protein MDM1	1.26 (1.12-1.41)	6.87E-05	3.86E-03
RMDN1	Regulator of microtubule dynamics protein 1	1.33 (1.15-1.53)	7.07E-05	3.88E-03
OSM	Oncostatin-M	0.74 (0.64-0.86)	7.56E-05	4.10E-03
CILP	Cartilage intermediate layer protein 1	1.32 (1.15-1.51)	7.86E-05	4.13E-03
MZB1	Marginal zone B- and B1-cell-specific protein	1.22 (1.11-1.35)	7.83E-05	4.13E-03
COL4A3BP	Collagen type IV alpha-3-binding protein	1.31 (1.14-1.5)	8.32E-05	4.27E-03
RANBP3	Ran-binding protein 3	1.4 (1.18-1.65)	9.03E-05	4.54E-03
C1QTNF1	Complement C1q tumor necrosis factor-related protein 1	1.47 (1.21-1.79)	8.99E-05	4.54E-03
RBM23	Probable RNA-binding protein 23	1.23 (1.11-1.36)	9.46E-05	4.71E-03
UNC5B	Netrin receptor UNC5B	1.36 (1.17-1.59)	1.00E-04	4.89E-03

NRXN3	Neurexin-3-beta	0.74 (0.63-0.86)	1.03E-04	4.91E-03
VWC2	Brorin	1.41 (1.19-1.68)	1.05E-04	4.95E-03
LYZ	Lysozyme C	1.32 (1.15-1.52)	1.07E-04	5.04E-03
ADAM11	Disintegrin and metalloproteinase domain-containing protein 11	1.29 (1.14-1.47)	1.12E-04	5.20E-03
PVRL2	Nectin-2	1.24 (1.11-1.38)	1.18E-04	5.43E-03
SH3BP2	SH3 domain-binding protein 2	1.2 (1.09-1.32)	1.19E-04	5.43E-03
CDK5, CDK5R1	Cyclin-dependent kinase 5:Cyclin-dependent kinase 5 activator 1 complex	0.74 (0.63-0.86)	1.23E-04	5.55E-03
PTPN6	Tyrosine-protein phosphatase non-receptor type 6	1.32 (1.14-1.51)	1.26E-04	5.57E-03
ERH	Enhancer of rudimentary homolog	1.19 (1.09-1.31)	1.39E-04	6.07E-03
FGG	Fibrinogen gamma chain	1.22 (1.1-1.35)	1.41E-04	6.08E-03
PXDN	Peroxidasin homolog	1.46 (1.2-1.78)	1.58E-04	6.73E-03
DPY30	Protein dpy-30 homolog	1.34 (1.15-1.57)	1.62E-04	6.73E-03
HNRNPA2B1	Heterogeneous nuclear ribonucleoproteins A2/B1	1.33 (1.15-1.54)	1.61E-04	6.73E-03
ST6GAL1	Beta-galactoside alpha-2,6-sialyltransferase 1	1.22 (1.1-1.36)	1.60E-04	6.73E-03
PTGDS	Prostaglandin-H2 D-isomerase	1.36 (1.16-1.6)	1.65E-04	6.76E-03
TNFRSF1B	Tumor necrosis factor receptor superfamily member 1B	1.34 (1.15-1.56)	1.65E-04	6.76E-03
PCDHB4	Protocadherin beta-4	0.76 (0.66-0.88)	1.75E-04	6.86E-03
SRSF6	Serine/arginine-rich splicing factor 6	1.41 (1.18-1.69)	1.77E-04	6.86E-03
HNRNPA1	Heterogeneous nuclear ribonucleoprotein A1	1.33 (1.14-1.54)	1.76E-04	6.86E-03
CHMP3	Charged multivesicular body protein 3	1.25 (1.11-1.41)	1.79E-04	6.86E-03
SIRPB2	Signal-regulatory protein beta-2	1.28 (1.12-1.45)	1.74E-04	6.86E-03
FMR1	Fragile X mental retardation protein 1	0.75 (0.64-0.87)	1.72E-04	6.86E-03
CNDP1	Beta-Ala-His dipeptidase	0.79 (0.7-0.89)	1.77E-04	6.86E-03
TPM2	Tropomyosin beta chain	0.75 (0.65-0.87)	1.81E-04	6.87E-03
MOCS3	Adenylyltransferase and sulfurtransferase MOCS3	0.74 (0.63-0.86)	1.84E-04	6.92E-03
PTEN	Phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN	1.19 (1.09-1.3)	1.91E-04	7.13E-03
FAM150B	Protein FAM150B	1.26 (1.11-1.42)	1.98E-04	7.29E-03
TMX3	Protein disulfide-isomerase TMX3	1.36 (1.16-1.6)	2.06E-04	7.55E-03
WFDC2	WAP four-disulfide core domain protein 2	1.4 (1.17-1.67)	2.09E-04	7.58E-03
SRSF7	Serine/arginine-rich splicing factor 7	1.33 (1.14-1.55)	2.14E-04	7.71E-03
NXF1	Nuclear RNA export factor 1	1.21 (1.09-1.33)	2.16E-04	7.72E-03
LTBP4	Latent-transforming growth factor beta-binding protein 4	1.38 (1.16-1.64)	2.25E-04	7.88E-03
UTS2B	Urotensin-2B	1.23 (1.1-1.38)	2.27E-04	7.89E-03
GABARAPL1	Gamma-aminobutyric acid receptor-associated protein-like 1	1.39 (1.17-1.65)	2.29E-04	7.91E-03
IFNA2	Interferon alpha-2	0.64 (0.51-0.81)	2.35E-04	8.03E-03
CD226	CD226 antigen	1.19 (1.09-1.31)	2.40E-04	8.16E-03

GAL3ST1	Galactosylceramide sulfotransferase	0.74 (0.64-0.87)	2.44E-04	8.24E-03
UBQLN4	Ubiquilin-4	1.22 (1.1-1.36)	2.68E-04	8.69E-03
CCL1	C-C motif chemokine 1	0.75 (0.64-0.88)	2.67E-04	8.69E-03
CRK	Adapter molecule crk	1.3 (1.13-1.5)	2.65E-04	8.69E-03
WSCD2	WSC domain-containing protein 2	1.23 (1.1-1.37)	2.68E-04	8.69E-03
DUT	Deoxyuridine 5'-triphosphate nucleotidohydrolase, mitochondrial	1.21 (1.09-1.34)	2.66E-04	8.69E-03
PHF3	PHD finger protein 3	1.19 (1.08-1.3)	2.91E-04	9.31E-03
MTHFS	5-formyltetrahydrofolate cyclo-ligase	1.26 (1.11-1.42)	2.96E-04	9.38E-03
EPHA7	Ephrin type-A receptor 7	1.32 (1.14-1.54)	2.99E-04	9.38E-03
NBL1	Neuroblastoma suppressor of tumorigenicity 1	1.48 (1.2-1.84)	3.09E-04	9.63E-03
IL34	Interleukin-34	0.74 (0.63-0.87)	3.27E-04	1.01E-02
PCDHGA10	Protocadherin gamma-A10	1.22 (1.09-1.35)	3.28E-04	1.01E-02
NT5C2	Cytosolic purine 5'-nucleotidase	1.24 (1.1-1.39)	3.30E-04	1.01E-02
IGFBP2	Insulin-like growth factor-binding protein 2	1.25 (1.11-1.41)	3.42E-04	1.03E-02
ITPRIPL1	Inositol 1,4,5-trisphosphate receptor-interacting protein-like 1	1.24 (1.1-1.4)	3.45E-04	1.04E-02
ANXA1	Annexin A1	1.28 (1.12-1.47)	3.53E-04	1.05E-02
DDX39B	Spliceosome RNA helicase DDX39B	1.31 (1.13-1.51)	3.53E-04	1.05E-02
TRA2B	Transformer-2 protein homolog beta	1.29 (1.12-1.49)	3.62E-04	1.07E-02
NPS	Neuropeptide S	0.7 (0.57-0.85)	3.72E-04	1.09E-02
RBM3	RNA-binding protein 3	1.23 (1.1-1.38)	3.85E-04	1.11E-02
IGFBP1	Insulin-like growth factor-binding protein 1	1.27 (1.11-1.45)	3.82E-04	1.11E-02
RNASE10	Inactive ribonuclease-like protein 10	1.13 (1.06-1.22)	3.92E-04	1.11E-02
PSAPL1	Proactivator polypeptide-like 1	0.69 (0.56-0.85)	3.88E-04	1.11E-02
HNRNPDL	Heterogeneous nuclear ribonucleoprotein D-like	1.27 (1.11-1.45)	4.08E-04	1.13E-02
AGER	Advanced glycosylation end product-specific receptor, soluble	1.41 (1.17-1.71)	4.08E-04	1.13E-02
BCL2L10	Bcl-2-like protein 10	0.76 (0.65-0.88)	4.33E-04	1.19E-02
XCL1	Lymphotactin	1.2 (1.08-1.32)	4.37E-04	1.19E-02
HNRNPH1	Heterogeneous nuclear ribonucleoprotein H	0.78 (0.68-0.9)	4.43E-04	1.19E-02
CD59	CD59 glycoprotein	1.4 (1.16-1.68)	4.58E-04	1.22E-02
CD97	CD97 antigen	0.77 (0.66-0.89)	4.79E-04	1.26E-02
GCNT4	Beta-1,3-galactosyl-O-glycosyl-glycoprotein beta-1,6-N-acetylglucosaminyltransferase 4	0.75 (0.64-0.88)	4.93E-04	1.27E-02
PTK2B	Protein-tyrosine kinase 2-beta	1.24 (1.1-1.4)	4.97E-04	1.27E-02
GMEB2	Glucocorticoid modulatory element-binding protein 2	1.25 (1.1-1.41)	4.92E-04	1.27E-02
FIGF	Vascular endothelial growth factor D	1.28 (1.11-1.47)	4.98E-04	1.27E-02
CTSH	Cathepsin H	1.42 (1.17-1.73)	4.88E-04	1.27E-02
CETP	Cholesteryl ester transfer protein	1.29 (1.12-1.48)	4.88E-04	1.27E-02
KLK6	Kallikrein-6	0.76 (0.65-0.89)	5.09E-04	1.28E-02
WFDC8	WAP four-disulfide core domain protein 8	1.3 (1.12-1.52)	5.14E-04	1.29E-02
SMURF1	E3 ubiquitin-protein ligase SMURF1	1.17 (1.07-1.28)	5.22E-04	1.30E-02
CA4	Carbonic anhydrase 4	0.76 (0.65-0.89)	5.32E-04	1.31E-02

PIK3CG	Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit gamma isoform	0.77 (0.66-0.89)	5.29E-04	1.31E-02
MED1	Mediator of RNA polymerase II transcription subunit 1	0.74 (0.63-0.88)	5.34E-04	1.31E-02
PCDHGA12	Protocadherin gamma-A12	1.18 (1.08-1.3)	5.41E-04	1.32E-02
RNASE6	Ribonuclease K6	1.3 (1.12-1.51)	5.59E-04	1.35E-02
CD93	Complement component C1q receptor	1.24 (1.1-1.39)	5.75E-04	1.38E-02
C9	Complement component C9	1.4 (1.16-1.7)	5.78E-04	1.38E-02
SUMO2	Small ubiquitin-related modifier 3	1.28 (1.11-1.47)	5.79E-04	1.38E-02
STAB2	Stabilin-2	0.77 (0.66-0.89)	5.82E-04	1.38E-02
TXNDC5	Thioredoxin domain-containing protein 5	1.37 (1.14-1.64)	5.99E-04	1.40E-02
MTMR6	Myotubularin-related protein 6	1.23 (1.09-1.38)	5.98E-04	1.40E-02
APPL1	DCC-interacting protein 13-alpha	1.15 (1.06-1.25)	6.35E-04	1.47E-02
PDCD5	Programmed cell death protein 5	1.28 (1.11-1.48)	6.60E-04	1.52E-02
PAXIP1	PAX-interacting protein 1	1.28 (1.11-1.47)	6.57E-04	1.52E-02
BCL2L1	Bcl-2-like protein 1	0.77 (0.66-0.9)	6.84E-04	1.56E-02
BAMBI	BMP and activin membrane-bound inhibitor homolog	1.21 (1.08-1.35)	6.98E-04	1.58E-02
LTBR	Tumor necrosis factor receptor superfamily member 3	0.79 (0.68-0.9)	7.03E-04	1.59E-02
FOLH1	Glutamate carboxypeptidase 2	0.79 (0.68-0.9)	7.08E-04	1.59E-02
DEFA5	Defensin-5	1.34 (1.13-1.59)	7.48E-04	1.67E-02
C3	C3a anaphylatoxin des Arginine	0.76 (0.65-0.89)	7.58E-04	1.68E-02
APOF	Apolipoprotein F	1.44 (1.17-1.79)	7.73E-04	1.69E-02
SDF2L1	Stromal cell-derived factor 2-like protein 1	1.24 (1.1-1.41)	7.69E-04	1.69E-02
HYAL1	Hyaluronidase-1	0.78 (0.68-0.9)	7.70E-04	1.69E-02
CACNA2D3	Voltage-dependent calcium channel subunit alpha-2/delta-3	0.73 (0.6-0.88)	8.05E-04	1.74E-02
PRB4	Basic salivary proline-rich protein 4	0.75 (0.63-0.89)	8.27E-04	1.76E-02
KLK13	Kallikrein-13	0.65 (0.51-0.84)	8.24E-04	1.76E-02
RETN	Resistin	1.31 (1.12-1.54)	8.41E-04	1.78E-02
PLAUR	Urokinase plasminogen activator surface receptor	1.19 (1.07-1.32)	8.74E-04	1.84E-02
IL15RA	Interleukin-15 receptor subunit alpha	1.41 (1.15-1.72)	8.84E-04	1.85E-02
GDF11	Growth/differentiation factor 11/8	0.75 (0.63-0.89)	8.93E-04	1.86E-02
IGFL3	Insulin growth factor-like family member 3	0.72 (0.59-0.87)	9.15E-04	1.89E-02
PPIL2	Peptidyl-prolyl cis-trans isomerase-like 2	0.78 (0.67-0.9)	9.23E-04	1.90E-02
SLC3A1	Neutral and basic amino acid transport protein rBAT	0.76 (0.65-0.89)	9.32E-04	1.90E-02
CNTNAP5	Contactin-associated protein-like 5	0.76 (0.64-0.89)	9.31E-04	1.90E-02
RELT	Tumor necrosis factor receptor superfamily member 19L	1.41 (1.15-1.74)	9.42E-04	1.90E-02
YBX1	Nuclease-sensitive element-binding protein 1	1.25 (1.09-1.42)	9.39E-04	1.90E-02
C10orf10	Protein DEPP	0.78 (0.68-0.91)	9.53E-04	1.92E-02
UBTD2	Ubiquitin domain-containing protein 2	1.18 (1.07-1.3)	9.79E-04	1.95E-02
FGF17	Fibroblast growth factor 17	0.71 (0.58-0.87)	9.75E-04	1.95E-02
HEXB	Beta-hexosaminidase subunit beta	0.71 (0.59-0.87)	9.86E-04	1.96E-02

PARK7	Protein deglycase DJ-1	1.22 (1.08-1.37)	9.98E-04	1.97E-02
IMPDH1	Inosine-5'-monophosphate dehydrogenase 1	1.27 (1.1-1.46)	1.03E-03	2.02E-02
LCN10	Epididymal-specific lipocalin-10	0.8 (0.69-0.91)	1.04E-03	2.05E-02
EIF1AD	Probable RNA-binding protein EIF1AD	1.17 (1.07-1.29)	1.08E-03	2.08E-02
SCP2D1	SCP2 sterol-binding domain-containing protein 1	1.28 (1.1-1.49)	1.08E-03	2.08E-02
C8A, C8B, C8G	Complement component C8	0.79 (0.68-0.91)	1.08E-03	2.08E-02
ST6GALNAC1	Alpha-N-acetylgalactosaminide alpha-2,6-sialyltransferase 1	0.78 (0.67-0.9)	1.09E-03	2.08E-02
TAX1BP3	Tax1-binding protein 3	1.22 (1.08-1.38)	1.09E-03	2.09E-02
CTSC	Dipeptidyl peptidase 1	0.68 (0.54-0.86)	1.10E-03	2.09E-02
HIST2H2BE	Histone H2B type 2-E	1.32 (1.12-1.55)	1.12E-03	2.12E-02
COL6A3	Collagen alpha-3(VI) chain	1.45 (1.16-1.82)	1.13E-03	2.12E-02
TMCC3	Transmembrane and coiled-coil domains protein 3	0.76 (0.65-0.9)	1.14E-03	2.12E-02
EFNA4	Ephrin-A4	1.28 (1.1-1.48)	1.13E-03	2.12E-02
HDGFRP2	Hepatoma-derived growth factor-related protein 2	1.19 (1.07-1.32)	1.19E-03	2.19E-02
EPHA2	Ephrin type-A receptor 2	1.41 (1.14-1.73)	1.19E-03	2.19E-02
IRF2	Interferon regulatory factor 2	1.18 (1.07-1.3)	1.20E-03	2.20E-02
ASAH1	Acid ceramidase	1.15 (1.06-1.25)	1.21E-03	2.21E-02
RNASE1	Ribonuclease pancreatic	1.36 (1.13-1.64)	1.22E-03	2.22E-02
ASAH2	Neutral ceramidase	0.76 (0.64-0.9)	1.24E-03	2.24E-02
ECI2	Enoyl-CoA delta isomerase 2, mitochondrial	1.13 (1.05-1.21)	1.25E-03	2.24E-02
EDN2	Endothelin-2	1.26 (1.09-1.45)	1.27E-03	2.27E-02
EGLN1	Egl nine homolog 1	1.22 (1.08-1.37)	1.27E-03	2.27E-02
F5	Coagulation Factor V	0.79 (0.69-0.91)	1.28E-03	2.28E-02
PIK3C2A	Phosphatidylinositol 4-phosphate 3-kinase C2 domain-containing subunit alpha	0.75 (0.63-0.89)	1.31E-03	2.32E-02
PTN	Pleiotrophin	1.19 (1.07-1.32)	1.33E-03	2.35E-02
NPDC1	Neural proliferation differentiation and control protein 1	1.31 (1.11-1.55)	1.35E-03	2.37E-02
RBL2	p130	1.2 (1.07-1.34)	1.36E-03	2.37E-02
PABPN1	Polyadenylate-binding protein 2	1.24 (1.09-1.41)	1.38E-03	2.39E-02
CTRL	Chymotrypsin-like protease CTRL-1	0.74 (0.61-0.89)	1.38E-03	2.39E-02
SFRP1	Secreted frizzled-related protein 1	1.26 (1.09-1.45)	1.39E-03	2.40E-02
CD22	B-cell receptor CD22	0.75 (0.63-0.9)	1.42E-03	2.43E-02
MYOM3	Myomesin-3	0.77 (0.66-0.91)	1.46E-03	2.47E-02
CD48	CD48 antigen	1.34 (1.12-1.61)	1.46E-03	2.47E-02
FSTL1	Follistatin-related protein 1	1.24 (1.09-1.41)	1.49E-03	2.50E-02
ARHGAP1	Rho GTPase-activating protein 1	1.19 (1.07-1.33)	1.50E-03	2.51E-02
THBS2	Thrombospondin-2	1.25 (1.09-1.43)	1.53E-03	2.56E-02
CCL15	C-C motif chemokine 15	1.25 (1.09-1.44)	1.59E-03	2.64E-02
C6	Complement component C6	0.74 (0.61-0.89)	1.62E-03	2.69E-02
CGB7	Choriogonadotropin subunit beta variant 2	1.28 (1.1-1.49)	1.63E-03	2.69E-02
GNPTG	N-acetylglucosamine-1-phosphotransferase subunit gamma	1.22 (1.08-1.37)	1.67E-03	2.71E-02

EGFR	Epidermal growth factor receptor	0.75 (0.63-0.9)	1.67E-03	2.71E-02
CA6	Carbonic anhydrase 6	0.77 (0.66-0.91)	1.67E-03	2.71E-02
RBM39	RNA-binding protein 39	1.2 (1.07-1.34)	1.67E-03	2.71E-02
ARHGDIB	Rho GDP-dissociation inhibitor 2	1.24 (1.09-1.42)	1.67E-03	2.71E-02
HAVCR2	Hepatitis A virus cellular receptor 2	1.38 (1.13-1.69)	1.71E-03	2.77E-02
AKR1A1	Alcohol dehydrogenase [NADP(+)]	1.33 (1.11-1.59)	1.72E-03	2.77E-02
EFNB1	Ephrin-B1	1.17 (1.06-1.29)	1.73E-03	2.77E-02
WFDC1	WAP four-disulfide core domain protein 1	1.36 (1.12-1.65)	1.73E-03	2.77E-02
S100A12	Protein S100-A12	1.3 (1.1-1.53)	1.76E-03	2.78E-02
C2orf40	Augurin	0.76 (0.63-0.9)	1.76E-03	2.78E-02
TNFSF15	Tumor necrosis factor ligand superfamily member 15	1.29 (1.1-1.52)	1.77E-03	2.78E-02
OPCML	Opioid-binding protein/cell adhesion molecule	0.8 (0.69-0.92)	1.89E-03	2.95E-02
CYR61	Protein CYR61	1.22 (1.08-1.38)	1.90E-03	2.96E-02
FSTL3	Follistatin-related protein 3	1.4 (1.13-1.74)	1.92E-03	2.97E-02
NRP1	Neuropilin-1	1.2 (1.07-1.35)	2.02E-03	3.09E-02
CHGB	Secretogranin-1	1.31 (1.1-1.55)	2.06E-03	3.14E-02
CLEC12B	C-type lectin domain family 12 member B	0.78 (0.67-0.91)	2.11E-03	3.21E-02
STX16	Syntaxin-16	1.18 (1.06-1.31)	2.11E-03	3.21E-02
ZAP70	Tyrosine-protein kinase ZAP-70	0.8 (0.7-0.92)	2.32E-03	3.50E-02
FJX1	Four-jointed box protein 1	1.3 (1.1-1.54)	2.35E-03	3.53E-02
LCN2	Neutrophil gelatinase-associated lipocalin	1.18 (1.06-1.31)	2.42E-03	3.59E-02
STMN4	Stathmin-4	1.26 (1.09-1.46)	2.41E-03	3.59E-02
APEX1	DNA-(apurinic or apyrimidinic site) lyase	1.26 (1.09-1.46)	2.42E-03	3.59E-02
IL18BP	Interleukin-18-binding protein	1.29 (1.09-1.51)	2.44E-03	3.61E-02
UBE2J2	Ubiquitin-conjugating enzyme E2 J2	1.22 (1.07-1.39)	2.48E-03	3.66E-02
LRP1B	Low-density lipoprotein receptor-related protein 1B	1.18 (1.06-1.31)	2.69E-03	3.88E-02
PARVA	Alpha-parvin	1.18 (1.06-1.32)	2.69E-03	3.88E-02
ARHGEF7	Rho guanine nucleotide exchange factor 7	0.81 (0.71-0.93)	2.70E-03	3.88E-02
KLK14	Kallikrein-14	0.8 (0.7-0.93)	2.67E-03	3.88E-02
IL16	Pro-interleukin-16_MOUSE	0.78 (0.67-0.92)	2.69E-03	3.88E-02
LOXL2	Lysyl oxidase homolog 2	1.17 (1.05-1.29)	2.71E-03	3.89E-02
COL11A2	Collagen alpha-2(XI) chain	0.76 (0.64-0.91)	2.77E-03	3.96E-02
PBRM1	Protein polybromo-1	1.16 (1.05-1.28)	2.80E-03	3.98E-02
STMN2	Stathmin-2	1.21 (1.07-1.37)	2.83E-03	4.00E-02
ILF3	Interleukin enhancer-binding factor 3	1.24 (1.08-1.43)	2.86E-03	4.01E-02
ZNF276	Zinc finger protein 276	0.79 (0.68-0.92)	2.85E-03	4.01E-02
CAPG	Macrophage-capping protein	1.26 (1.08-1.48)	2.86E-03	4.01E-02
PCDH10	Protocadherin-10	0.81 (0.71-0.93)	2.88E-03	4.02E-02
MMP19	Matrix metalloproteinase-19	1.31 (1.1-1.57)	2.96E-03	4.08E-02
LAMC2	Laminin subunit gamma-2	1.26 (1.08-1.46)	2.99E-03	4.11E-02
FCGR3B	Low affinity immunoglobulin gamma Fc region receptor III-B	1.35 (1.11-1.65)	3.01E-03	4.11E-02
TFRC	Transferrin receptor protein 1	1.23 (1.07-1.4)	3.01E-03	4.11E-02
ELK1	ETS domain-containing protein Elk-1	1.17 (1.05-1.3)	3.04E-03	4.14E-02

ANGPTL1	Angiopoietin-related protein 1	1.2 (1.06-1.35)	3.10E-03	4.20E-02
COL28A1	Collagen alpha-1(XXVIII) chain	1.43 (1.13-1.82)	3.14E-03	4.25E-02
APOL1	Apolipoprotein L1	0.77 (0.65-0.92)	3.16E-03	4.26E-02
SMC3	Structural maintenance of chromosomes protein 3	1.3 (1.09-1.54)	3.29E-03	4.41E-02
CLK2	Dual specificity protein kinase CLK2	0.8 (0.69-0.93)	3.31E-03	4.41E-02
CXCL14	C-X-C motif chemokine 14	1.17 (1.05-1.31)	3.36E-03	4.45E-02
GPI	Glucose-6-phosphate isomerase	1.19 (1.06-1.33)	3.37E-03	4.45E-02
ROR1	Tyrosine-protein kinase transmembrane receptor ROR1	1.32 (1.1-1.6)	3.40E-03	4.47E-02
APOD	Apolipoprotein D	0.81 (0.7-0.93)	3.53E-03	4.61E-02
PRSS8	Prostasin	0.74 (0.6-0.9)	3.68E-03	4.76E-02
PCDHB14	Protocadherin beta-14	0.81 (0.7-0.93)	3.75E-03	4.83E-02
F10	Coagulation factor Xa	1.32 (1.09-1.6)	3.85E-03	4.92E-02
ROR2	Tyrosine-protein kinase transmembrane receptor ROR2	1.15 (1.05-1.26)	3.91E-03	4.95E-02
HIST1H3A	Histone H3.1	1.33 (1.09-1.61)	3.93E-03	4.95E-02
DNAJB12	DnaJ homolog subfamily B member 12	1.26 (1.08-1.48)	3.96E-03	4.97E-02
CSRP3	Cysteine and glycine-rich protein 3	1.23 (1.07-1.41)	3.96E-03	4.97E-02

Table S2: Proteins Significantly Associated with Total HFH and CV Death in Split Discovery and Internal Validation Sensitivity Analysis

Protein Symbol	Protein Name	Discovery RR (95% CI)	Discovery P-Value	Discovery Adjusted P-Value	Replication RR (95% CI)	Replication P-Value	Replication Adjusted P-Value
PTGDS	Prostaglandin-H2 D-isomerase	1.8 (1.37-2.35)	1.88E-05	2.93E-03	1.76 (1.21-2.55)	2.96E-03	1.80E-01
SVEP1	Sushi, von Willebrand factor type A, EGF and pentraxin domain-containing protein 1	1.44 (1.22-1.7)	1.71E-05	2.75E-03	1.62 (1.25-2.1)	2.62E-04	5.39E-02
HNRNPM	Heterogeneous nuclear ribonucleoprotein M	1.34 (1.15-1.55)	1.53E-04	9.70E-03	1.61 (1.31-1.98)	5.20E-06	5.74E-03
REG1A	Lithostathine-1-alpha	1.53 (1.27-1.85)	6.02E-06	1.38E-03	1.4 (1.13-1.74)	1.95E-03	1.39E-01
TIMP1	Tissue inhibitor of metalloproteinase 1	1.52 (1.27-1.81)	3.72E-06	1.07E-03	1.84 (1.4-2.41)	1.32E-05	7.94E-03
TIMP2	Tissue inhibitor of metalloproteinase 2	1.34 (1.15-1.57)	2.32E-04	1.26E-02	1.8 (1.4-2.31)	3.35E-06	5.48E-03
TNFRSF1A	Tumor necrosis factor receptor superfamily member 1A	1.62 (1.26-2.09)	1.97E-04	1.11E-02	1.67 (1.33-2.09)	8.32E-06	5.74E-03
SERPINA4	Kallistatin	0.67 (0.57-0.79)	1.22E-06	5.84E-04	0.79 (0.69-0.91)	1.14E-03	1.13E-01
PTEN	Phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN	1.34 (1.12-1.6)	1.23E-03	3.22E-02	1.52 (1.21-1.91)	2.90E-04	5.39E-02
SPON1	Spondin-1	1.45 (1.23-1.71)	1.30E-05	2.16E-03	1.6 (1.15-2.21)	4.72E-03	2.24E-01
GDF15	Growth/differentiation factor 15	1.6 (1.27-2.01)	7.28E-05	6.54E-03	1.54 (1.18-2.01)	1.33E-03	1.18E-01
IL18	Interleukin-18	1.38 (1.16-1.65)	3.56E-04	1.49E-02	1.59 (1.21-2.09)	9.79E-04	1.01E-01
EPHA10	Ephrin type-A receptor 10	1.46 (1.22-1.75)	4.65E-05	5.11E-03	1.63 (1.25-2.11)	2.84E-04	5.39E-02
CYR61	Protein CYR61	1.58 (1.3-1.92)	4.39E-06	1.12E-03	1.64 (1.24-2.19)	6.41E-04	8.36E-02
CLSTN3	Calsyntenin-3	1.49 (1.25-1.77)	6.61E-06	1.39E-03	1.7 (1.28-2.27)	2.87E-04	5.39E-02
OIT3	Oncoprotein-induced transcript 3 protein	1.54 (1.26-1.89)	3.07E-05	3.94E-03	1.73 (1.39-2.16)	8.41E-07	4.06E-03
IGFALS	Insulin-like growth factor-binding protein complex acid labile subunit	0.74 (0.62-0.89)	1.56E-03	3.60E-02	0.67 (0.51-0.87)	2.36E-03	1.61E-01
ROR2	Tyrosine-protein kinase transmembrane receptor ROR2	1.39 (1.14-1.69)	1.04E-03	2.91E-02	1.48 (1.22-1.8)	7.50E-05	2.93E-02
TMPO	Lamina-associated polypeptide 2, isoforms beta/gamma	1.39 (1.17-1.64)	1.36E-04	9.15E-03	1.51 (1.13-2.02)	5.18E-03	2.35E-01
RSPO4	R-spondin-4	1.63 (1.31-2.03)	1.02E-05	1.82E-03	1.8 (1.34-2.42)	9.23E-05	2.97E-02
EFEMP1	EGF-containing fibulin-like extracellular matrix protein 1	1.39 (1.21-1.6)	3.36E-06	1.07E-03	1.71 (1.36-2.15)	3.40E-06	5.48E-03
STX16	Syntaxin-16	1.66 (1.25-2.2)	5.07E-04	1.88E-02	1.52 (1.18-1.96)	1.21E-03	1.16E-01
TAGLN	Transgelin	1.51 (1.19-1.93)	8.78E-04	2.57E-02	1.61 (1.2-2.15)	1.45E-03	1.24E-01

RR, rate ratio

Table S3: Proteins Significantly Associated with Total HFH and CV Death in the Risk Factor Adjusted Model

Protein Symbol	Protein Name	Rate Ratio (95% CI)	P-Value	Adjusted P-Value	Significant in Minimal Model
B2M	Beta-2-microglobulin	2.12 (1.64-2.74)	1.16E-08	2.80E-05	Yes
PARK7	Protein deglycase DJ-1	1.41 (1.23-1.6)	4.21E-07	5.08E-04	Yes
RSPO4	R-spondin-4	1.53 (1.29-1.82)	1.50E-06	1.45E-03	Yes
QPCTL	Glutaminyl-peptide cyclotransferase-like protein	1.5 (1.27-1.77)	2.15E-06	1.73E-03	No
EFEMP1	EGF-containing fibulin-like extracellular matrix protein 1	1.66 (1.34-2.05)	3.27E-06	2.26E-03	Yes
ADAM17	Disintegrin and metalloproteinase domain-containing protein 17	1.41 (1.21-1.63)	6.70E-06	3.59E-03	No
GAS1	Growth arrest-specific protein 1	1.55 (1.28-1.88)	7.92E-06	3.83E-03	Yes
ANP32B	Acidic leucine-rich nuclear phosphoprotein 32 family member B	1.41 (1.21-1.64)	1.28E-05	5.60E-03	No
P4HA2	Prolyl 4-hydroxylase subunit alpha-2	0.42 (0.28-0.64)	4.14E-05	1.11E-02	No
CDH3	Cadherin-3	0.58 (0.45-0.75)	4.09E-05	1.11E-02	Yes
TREML4	Trem-like transcript 4 protein	1.63 (1.29-2.07)	5.63E-05	1.36E-02	No
LTBP4	Latent-transforming growth factor beta-binding protein 4	1.69 (1.31-2.19)	6.33E-05	1.46E-02	Yes
SERPINA4	Kallistatin	0.64 (0.52-0.8)	8.32E-05	1.83E-02	Yes
TIMP1	Tissue inhibitor of metalloproteinase 1	1.63 (1.28-2.08)	8.79E-05	1.85E-02	Yes
LILRA6	Leukocyte immunoglobulin-like receptor subfamily A member 6	1.49 (1.21-1.82)	1.42E-04	2.55E-02	No
IGFLR1	IGF-like family receptor 1	1.55 (1.23-1.95)	2.10E-04	2.85E-02	Yes
TXNDC11	Thioredoxin domain-containing protein 11	1.43 (1.17-1.75)	4.13E-04	4.25E-02	No
RNASE10	Inactive ribonuclease-like protein 10	1.49 (1.19-1.86)	4.71E-04	4.59E-02	Yes

Table S4: Proteins Significantly Associated with Total HFH in the Minimally Adjusted Model

Protein Symbol	Protein Name	Rate Ratio (95% CI)	P-Value	Adjusted P-Value
SERPINA4	Kallistatin	0.72 (0.64-0.8)	5.30E-09	6.40E-06
CLSTN3	Calsyntenin-3	1.51 (1.31-1.75)	1.60E-08	1.60E-05
TIMP1	Metalloproteinase inhibitor 1	1.5 (1.3-1.73)	2.30E-08	1.80E-05
EFEMP1	EGF-containing fibulin-like extracellular matrix protein 1	1.37 (1.23-1.54)	5.10E-08	2.70E-05
HDGF	Hepatoma-derived growth factor	1.48 (1.28-1.7)	5.70E-08	2.70E-05
B2M	Beta-2-microglobulin	1.77 (1.43-2.19)	1.70E-07	7.60E-05
TFF3	Trefoil factor 3	1.36 (1.21-1.53)	3.40E-07	1.40E-04
SVEP1	Sushi, von Willebrand factor type A, EGF and pentraxin domain-containing protein 1	1.43 (1.24-1.66)	7.50E-07	2.50E-04
TMPO	Lamina-associated polypeptide 2, isoforms beta/gamma	1.44 (1.25-1.66)	7.10E-07	2.50E-04
EPHA10	Ephrin type-A receptor 10	1.35 (1.2-1.53)	9.00E-07	2.70E-04
SPON1	Spondin-1	1.5 (1.27-1.76)	1.40E-06	3.40E-04
BAGE2	B melanoma antigen 2	1.48 (1.26-1.73)	1.40E-06	3.40E-04
MXI1	MAX-interacting protein 1	1.28 (1.16-1.41)	1.20E-06	3.40E-04
AFM	Afamin	0.65 (0.55-0.78)	1.60E-06	3.80E-04
OIT3	Oncoprotein-induced transcript 3 protein	1.26 (1.14-1.39)	2.40E-06	5.20E-04
TFF2	Trefoil factor 2	1.49 (1.26-1.76)	2.50E-06	5.20E-04
REG1A	Lithostathine-1-alpha	1.5 (1.27-1.78)	2.60E-06	5.30E-04
FOXM1	Forkhead box protein M1	1.27 (1.15-1.41)	3.10E-06	5.70E-04
MAX	Protein max	1.31 (1.17-1.47)	3.40E-06	5.70E-04
SNRPA	U1 small nuclear ribonucleoprotein A	1.35 (1.19-1.53)	3.70E-06	5.70E-04
SLC14A2	Urea transporter 2	1.27 (1.15-1.41)	3.20E-06	5.70E-04
APOE	Apolipoprotein E (isoform E4)	0.67 (0.56-0.79)	3.80E-06	5.70E-04
EDA2R	Tumor necrosis factor receptor superfamily member 27	1.31 (1.17-1.47)	3.00E-06	5.70E-04
IGFLR1	IGF-like family receptor 1	1.65 (1.34-2.04)	3.50E-06	5.70E-04
RSPO4	R-spondin-4	1.32 (1.17-1.48)	3.80E-06	5.70E-04
GDF15	Growth/differentiation factor 15	1.55 (1.29-1.87)	4.50E-06	6.40E-04
FGF17	Fibroblast growth factor 17	0.67 (0.56-0.8)	4.80E-06	6.50E-04
G3BP2	Ras GTPase-activating protein-binding protein 2	1.35 (1.19-1.53)	4.80E-06	6.50E-04
TNFRSF1A	Tumor necrosis factor receptor superfamily member 1A	1.66 (1.33-2.07)	6.20E-06	7.80E-04
GAS1	Growth arrest-specific protein 1	1.5 (1.26-1.79)	6.10E-06	7.80E-04

IL18	Interleukin-18	1.46 (1.24-1.71)	6.60E-06	8.20E-04
CST3	Cystatin-C	1.78 (1.38-2.3)	1.10E-05	1.20E-03
FAM171B	Protein FAM171B	1.13 (1.07-1.19)	1.20E-05	1.30E-03
RBM23	Probable RNA-binding protein 23	1.27 (1.14-1.41)	1.20E-05	1.30E-03
PAFAH1B2	Platelet-activating factor acetylhydrolase IB subunit beta	1.33 (1.17-1.52)	1.30E-05	1.30E-03
GLRX2	Glutaredoxin-2, mitochondrial	1.19 (1.1-1.29)	1.30E-05	1.40E-03
ELK3	ETS domain-containing protein Elk-3	1.24 (1.13-1.37)	1.50E-05	1.60E-03
CLEC4M	C-type lectin domain family 4 member M	0.68 (0.57-0.81)	1.80E-05	1.70E-03
LONP1	Lon protease homolog, mitochondrial	1.3 (1.15-1.47)	1.70E-05	1.70E-03
CRK	Adapter molecule crk	1.38 (1.19-1.6)	1.80E-05	1.70E-03
GNPNAT1	Glucosamine 6-phosphate N-acetyltransferase	1.29 (1.15-1.44)	1.90E-05	1.70E-03
LY6G6C	Lymphocyte antigen 6 complex locus protein G6c	1.25 (1.13-1.39)	1.90E-05	1.70E-03
MPG	DNA-3-methyladenine glycosylase	1.29 (1.15-1.46)	2.60E-05	2.20E-03
RANBP3	Ran-binding protein 3	1.49 (1.23-1.79)	3.00E-05	2.60E-03
CILP	Cartilage intermediate layer protein 1	1.37 (1.18-1.58)	3.50E-05	2.90E-03
C3	C3a anaphylatoxin des Arginine	0.71 (0.6-0.84)	3.70E-05	2.90E-03
HNRNPA1	Heterogeneous nuclear ribonucleoprotein A1	1.39 (1.19-1.62)	4.10E-05	3.00E-03
ABHD14A	Alpha/beta hydrolase domain-containing protein 14A	1.45 (1.21-1.73)	4.10E-05	3.00E-03
FAM150B	Protein FAM150B	1.31 (1.15-1.49)	4.00E-05	3.00E-03
MZB1	Marginal zone B- and B1-cell-specific protein	1.25 (1.12-1.39)	4.00E-05	3.00E-03
FKBP7	Peptidyl-prolyl cis-trans isomerase FKBP7	1.4 (1.19-1.65)	3.90E-05	3.00E-03
SIRPB2	Signal-regulatory protein beta-2	1.31 (1.15-1.5)	4.20E-05	3.00E-03
PDIA6	Protein disulfide-isomerase A6	1.28 (1.14-1.44)	4.50E-05	3.10E-03
ST6GAL1	Beta-galactoside alpha-2,6-sialyltransferase 1	1.26 (1.13-1.41)	5.10E-05	3.50E-03
C11orf68	UPF0696 protein C11orf68	1.23 (1.11-1.36)	5.20E-05	3.50E-03
ERH	Enhancer of rudimentary homolog	1.22 (1.11-1.34)	5.30E-05	3.50E-03
TIMP2	Metalloproteinase inhibitor 2	1.38 (1.18-1.61)	5.70E-05	3.60E-03
RMDN1	Regulator of microtubule dynamics protein 1	1.36 (1.17-1.57)	6.10E-05	3.90E-03
PTEN	Phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN	1.21 (1.1-1.33)	6.30E-05	4.00E-03
GHR	Growth hormone receptor	0.71 (0.6-0.84)	6.50E-05	4.00E-03
VWC2	Brorin	1.47 (1.22-1.77)	6.70E-05	4.00E-03
FGA, FGB, FGG	D-dimer	1.2 (1.1-1.32)	6.70E-05	4.00E-03
CDH3	Cadherin-3	0.7 (0.58-0.83)	7.00E-05	4.10E-03
SH3BP2	SH3 domain-binding protein 2	1.22 (1.1-1.34)	6.90E-05	4.10E-03

IL1RL1	Interleukin-1 receptor-like 1	1.35 (1.17-1.57)	7.30E-05	4.10E-03
TNFRSF1B	Tumor necrosis factor receptor superfamily member 1B	1.38 (1.18-1.63)	7.50E-05	4.20E-03
TAGLN	Transgelin	1.52 (1.23-1.86)	7.50E-05	4.20E-03
UTS2B	Urotensin-2B	1.27 (1.13-1.43)	8.10E-05	4.50E-03
ADAM11	Disintegrin and metalloproteinase domain-containing protein 11	1.32 (1.15-1.52)	8.30E-05	4.50E-03
RBM3	RNA-binding protein 3	1.3 (1.14-1.47)	8.70E-05	4.70E-03
HNRNPM	Heterogeneous nuclear ribonucleoprotein M	1.24 (1.11-1.37)	8.90E-05	4.70E-03
SCARF2	Scavenger receptor class F member 2	1.27 (1.13-1.43)	9.10E-05	4.70E-03
IL21R	Interleukin-21 receptor	1.23 (1.11-1.36)	9.00E-05	4.70E-03
EWSR1	RNA-binding protein EWS	1.35 (1.16-1.57)	9.70E-05	5.00E-03
CPT1B	Carnitine O-palmitoyltransferase 1, muscle isoform	0.66 (0.54-0.82)	1.10E-04	5.30E-03
CHMP3	Charged multivesicular body protein 3	1.29 (1.13-1.47)	1.10E-04	5.30E-03
PDCD5	Programmed cell death protein 5	1.35 (1.16-1.57)	1.10E-04	5.30E-03
HNRNPA2B1	Heterogeneous nuclear ribonucleoproteins A2/B1	1.37 (1.17-1.61)	1.10E-04	5.30E-03
QSOX1	Sulfhydryl oxidase 1	1.32 (1.15-1.52)	1.10E-04	5.30E-03
SPON2	Spondin-2	1.41 (1.18-1.68)	1.10E-04	5.30E-03
COL4A3BP	Collagen type IV alpha-3-binding protein	1.34 (1.15-1.56)	1.30E-04	5.70E-03
ATP5J	ATP synthase-coupling factor 6, mitochondrial	1.26 (1.12-1.42)	1.20E-04	5.70E-03
YBX1	Nuclease-sensitive element-binding protein 1	1.3 (1.14-1.49)	1.20E-04	5.70E-03
TMEM185A	Transmembrane protein 185A	0.73 (0.62-0.86)	1.30E-04	5.90E-03
CD226	CD226 antigen	1.21 (1.1-1.33)	1.40E-04	6.10E-03
UBQLN4	Ubiquilin-4	1.25 (1.11-1.4)	1.50E-04	6.50E-03
PVRL2	Nectin-2	1.25 (1.11-1.41)	1.60E-04	6.80E-03
CLEC3B	Tetranectin	0.67 (0.54-0.82)	1.60E-04	6.80E-03
C1QTNF1	Complement C1q tumor necrosis factor-related protein 1	1.5 (1.22-1.86)	1.60E-04	6.80E-03
SRSF6	Serine/arginine-rich splicing factor 6	1.46 (1.2-1.78)	1.70E-04	6.90E-03
GABARAPL1	Gamma-aminobutyric acid receptor-associated protein-like 1	1.44 (1.19-1.75)	1.60E-04	6.90E-03
AHSP	Alpha-hemoglobin-stabilizing protein	0.73 (0.62-0.86)	1.70E-04	6.90E-03
UNC5B	Netrin receptor UNC5B	1.39 (1.17-1.65)	1.70E-04	7.00E-03
YWHAB	14-3-3 protein beta/alpha	1.24 (1.11-1.4)	1.70E-04	7.10E-03
FRZB	Secreted frizzled-related protein 3	0.73 (0.62-0.86)	1.80E-04	7.10E-03
PCDHGA12	Protocadherin gamma-A12	1.21 (1.1-1.34)	1.80E-04	7.10E-03
PTGDS	Prostaglandin-H2 D-isomerase	1.38 (1.17-1.64)	1.80E-04	7.30E-03

PHF3	PHD finger protein 3	1.2 (1.09-1.33)	1.90E-04	7.30E-03
PXDN	Peroxidasin homolog	1.53 (1.22-1.92)	2.10E-04	8.10E-03
DDX39B	Spliceosome RNA helicase DDX39B	1.33 (1.14-1.55)	2.10E-04	8.10E-03
AKR1A1	Alcohol dehydrogenase [NADP(+)]	1.46 (1.19-1.79)	2.40E-04	8.90E-03
CILP2	Cartilage intermediate layer protein 2	0.65 (0.51-0.82)	2.40E-04	8.90E-03
SUMO2	Small ubiquitin-related modifier 3	1.34 (1.14-1.56)	2.40E-04	8.90E-03
TMX3	Protein disulfide-isomerase TMX3	1.39 (1.16-1.66)	2.60E-04	9.30E-03
DPY30	Protein dpy-30 homolog	1.38 (1.16-1.65)	2.70E-04	9.70E-03
HNRNPDL	Heterogeneous nuclear ribonucleoprotein D-like	1.31 (1.13-1.51)	2.80E-04	9.80E-03
TRA2B	Transformer-2 protein homolog beta	1.32 (1.14-1.54)	2.90E-04	9.80E-03
PARK7	Protein deglycase DJ-1	1.25 (1.11-1.41)	2.80E-04	9.80E-03
IFI16	Gamma-interferon-inducible protein 16	1.37 (1.16-1.63)	3.00E-04	1.00E-02
OSM	Oncostatin-M	0.74 (0.63-0.87)	3.00E-04	1.00E-02
KLK13	Kallikrein-13	0.6 (0.45-0.79)	3.10E-04	1.00E-02
LYZ	Lysozyme C	1.33 (1.14-1.55)	3.10E-04	1.00E-02
SRSF7	Serine/arginine-rich splicing factor 7	1.33 (1.14-1.56)	3.20E-04	1.10E-02
GMEB2	Glucocorticoid modulatory element-binding protein 2	1.26 (1.11-1.43)	3.40E-04	1.10E-02
PTK7	Inactive tyrosine-protein kinase 7	1.4 (1.16-1.68)	3.40E-04	1.10E-02
HNRNPH1	Heterogeneous nuclear ribonucleoprotein H	0.78 (0.68-0.89)	3.50E-04	1.10E-02
MOCS3	Adenylyltransferase and sulfurtransferase MOCS3	0.73 (0.61-0.87)	3.90E-04	1.20E-02
TREM1	Triggering receptor expressed on myeloid cells 1	1.44 (1.18-1.77)	3.90E-04	1.20E-02
WSCD2	WSC domain-containing protein 2	1.23 (1.1-1.39)	3.90E-04	1.20E-02
ITPRIPL1	Inositol 1,4,5-trisphosphate receptor-interacting protein-like 1	1.27 (1.11-1.44)	4.00E-04	1.20E-02
NT5C2	Cytosolic purine 5'-nucleotidase	1.26 (1.11-1.43)	4.40E-04	1.30E-02
IRF2	Interferon regulatory factor 2	1.19 (1.08-1.31)	4.60E-04	1.30E-02
XCL1	Lymphotactin	1.21 (1.09-1.34)	4.50E-04	1.30E-02
VEGFC	Vascular endothelial growth factor C	1.2 (1.09-1.33)	4.40E-04	1.30E-02
IGFALS	Insulin-like growth factor-binding protein complex acid labile subunit	0.73 (0.62-0.87)	4.50E-04	1.30E-02
DUT	Deoxyuridine 5'-triphosphate nucleotidohydrolase, mitochondrial	1.22 (1.09-1.36)	4.50E-04	1.30E-02
EDN2	Endothelin-2	1.3 (1.12-1.5)	4.60E-04	1.30E-02
SEPHS1	Selenide, water dikinase 1	1.26 (1.11-1.43)	4.60E-04	1.30E-02
ARHGAP1	Rho GTPase-activating protein 1	1.22 (1.09-1.37)	4.70E-04	1.40E-02

EIF1AD	Probable RNA-binding protein EIF1AD	1.2 (1.08-1.33)	5.10E-04	1.40E-02
ASAH1	Acid ceramidase	1.17 (1.07-1.28)	5.00E-04	1.40E-02
GAL3ST1	Galactosylceramide sulfotransferase	0.74 (0.63-0.88)	5.10E-04	1.40E-02
NRXN3	Neurexin-3-beta	0.74 (0.63-0.88)	5.10E-04	1.40E-02
PCDHGA10	Protocadherin gamma-A10	1.23 (1.09-1.38)	5.10E-04	1.40E-02
FAM107A	Protein FAM107A	0.69 (0.56-0.85)	5.30E-04	1.40E-02
IFNA2	Interferon alpha-2	0.64 (0.49-0.82)	5.30E-04	1.50E-02
EPHA7	Ephrin type-A receptor 7	1.35 (1.14-1.6)	5.60E-04	1.50E-02
TPM2	Tropomyosin beta chain	0.75 (0.64-0.88)	5.80E-04	1.60E-02
PCDHB4	Protocadherin beta-4	0.77 (0.66-0.89)	6.00E-04	1.60E-02
SDF2L1	Stromal cell-derived factor 2-like protein 1	1.27 (1.11-1.45)	6.00E-04	1.60E-02
CDK5, CDK5R1	Cyclin-dependent kinase 5:Cyclin-dependent kinase 5 activator 1 complex	0.74 (0.62-0.88)	6.20E-04	1.70E-02
FMR1	Fragile X mental retardation protein 1	0.74 (0.63-0.88)	6.30E-04	1.70E-02
FOLH1	Glutamate carboxypeptidase 2	0.78 (0.67-0.9)	6.50E-04	1.70E-02
SMURF1	E3 ubiquitin-protein ligase SMURF1	1.18 (1.07-1.3)	6.70E-04	1.80E-02
BAMBI	BMP and activin membrane-bound inhibitor homolog	1.23 (1.09-1.38)	6.80E-04	1.80E-02
C6	Complement component C6	0.71 (0.58-0.86)	6.90E-04	1.80E-02
WFDC2	WAP four-disulfide core domain protein 2	1.42 (1.16-1.74)	7.20E-04	1.80E-02
PIK3CG	Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit gamma isoform	0.76 (0.65-0.89)	7.30E-04	1.80E-02
NBL1	Neuroblastoma suppressor of tumorigenicity 1	1.52 (1.19-1.94)	7.50E-04	1.90E-02
TAX1BP3	Tax1-binding protein 3	1.25 (1.1-1.43)	7.80E-04	1.90E-02
CCL1	C-C motif chemokine 1	0.75 (0.63-0.89)	8.00E-04	2.00E-02
PTN	Pleiotrophin	1.22 (1.08-1.36)	8.30E-04	2.00E-02
AGER	Advanced glycosylation end product-specific receptor, soluble	1.44 (1.16-1.78)	8.30E-04	2.00E-02
GCNT4	Beta-1,3-galactosyl-O-glycosyl-glycoprotein beta-1,6-N-acetylglucosaminyltransferase 4	0.74 (0.62-0.88)	8.40E-04	2.00E-02
RELT	Tumor necrosis factor receptor superfamily member 19L	1.48 (1.18-1.87)	8.60E-04	2.10E-02
CD59	CD59 glycoprotein	1.43 (1.16-1.77)	9.00E-04	2.10E-02
ILF3	Interleukin enhancer-binding factor 3	1.29 (1.11-1.5)	9.20E-04	2.10E-02
TNFSF15	Tumor necrosis factor ligand superfamily member 15	1.34 (1.13-1.59)	9.50E-04	2.20E-02
IGFBP2	Insulin-like growth factor-binding protein 2	1.25 (1.09-1.43)	9.50E-04	2.20E-02
FJX1	Four-jointed box protein 1	1.35 (1.13-1.62)	9.70E-04	2.20E-02

TMCC3	Transmembrane and coiled-coil domains protein 3	0.75 (0.64-0.89)	9.80E-04	2.20E-02
ANXA1	Annexin A1	1.29 (1.11-1.49)	1.00E-03	2.30E-02
RNASE6	Ribonuclease K6	1.3 (1.11-1.52)	1.00E-03	2.30E-02
TXNDC5	Thioredoxin domain-containing protein 5	1.41 (1.15-1.73)	1.10E-03	2.30E-02
KIF22	Kinesin-like protein KIF22	1.2 (1.08-1.34)	1.10E-03	2.30E-02
SFRP1	Secreted frizzled-related protein 1	1.3 (1.11-1.51)	1.10E-03	2.30E-02
ARHGDIB	Rho GDP-dissociation inhibitor 2	1.28 (1.1-1.48)	1.10E-03	2.30E-02
HDGFRP2	Hepatoma-derived growth factor-related protein 2	1.2 (1.08-1.34)	1.10E-03	2.30E-02
STMN2	Stathmin-2	1.25 (1.09-1.44)	1.10E-03	2.40E-02
IL15RA	Interleukin-15 receptor subunit alpha	1.46 (1.16-1.83)	1.10E-03	2.40E-02
STAB2	Stabilin-2	0.76 (0.65-0.9)	1.10E-03	2.40E-02
WFDC8	WAP four-disulfide core domain protein 8	1.3 (1.11-1.52)	1.10E-03	2.40E-02
CNTNAP5	Contactin-associated protein-like 5	0.75 (0.63-0.89)	1.10E-03	2.40E-02
BCL2L10	Bcl-2-like protein 10	0.76 (0.64-0.9)	1.10E-03	2.40E-02
C8A, C8B, C8G	Complement component C8	0.79 (0.68-0.91)	1.20E-03	2.50E-02
LTBR	Tumor necrosis factor receptor superfamily member 3	0.78 (0.67-0.91)	1.20E-03	2.50E-02
IL34	Interleukin-34	0.75 (0.63-0.89)	1.20E-03	2.50E-02
RNASE1	Ribonuclease pancreatic	1.41 (1.15-1.74)	1.20E-03	2.50E-02
NPDC1	Neural proliferation differentiation and control protein 1	1.34 (1.12-1.6)	1.20E-03	2.50E-02
EGLN1	Egl nine homolog 1	1.23 (1.08-1.39)	1.40E-03	2.80E-02
LBP	Lipopolysaccharide-binding protein	0.77 (0.66-0.9)	1.40E-03	2.80E-02
NPS	Neuropeptide S	0.71 (0.57-0.88)	1.40E-03	2.80E-02
EFNA4	Ephrin-A4	1.3 (1.11-1.52)	1.40E-03	2.80E-02
IMPDH1	Inosine-5'-monophosphate dehydrogenase 1	1.29 (1.1-1.5)	1.40E-03	2.80E-02
CETP	Cholesteryl ester transfer protein	1.29 (1.1-1.5)	1.40E-03	2.80E-02
KLK6	Kallikrein-6	0.76 (0.65-0.9)	1.50E-03	2.80E-02
CD97	CD97 antigen	0.77 (0.65-0.9)	1.50E-03	2.90E-02
CADM4	Cell adhesion molecule 4	1.19 (1.07-1.33)	1.50E-03	2.90E-02
CACNA2D3	Voltage-dependent calcium channel subunit alpha-2/delta-3	0.72 (0.59-0.88)	1.50E-03	2.90E-02
F9	Coagulation factor IXab	1.43 (1.15-1.78)	1.50E-03	2.90E-02
CXCL14	C-X-C motif chemokine 14	1.2 (1.07-1.34)	1.60E-03	2.90E-02
F10	Coagulation factor Xa	1.39 (1.13-1.71)	1.60E-03	2.90E-02
GNPTG	N-acetylglucosamine-1-phosphotransferase subunit gamma	1.23 (1.08-1.39)	1.60E-03	2.90E-02
COL6A3	Collagen alpha-3(VI) chain	1.51 (1.17-1.95)	1.60E-03	2.90E-02

LTBP4	Latent-transforming growth factor beta-binding protein 4	1.38 (1.13-1.68)	1.60E-03	2.90E-02
ASAH2	Neutral ceramidase	0.74 (0.61-0.89)	1.60E-03	2.90E-02
CA4	Carbonic anhydrase 4	0.76 (0.64-0.9)	1.60E-03	2.90E-02
CTSH	Cathepsin H	1.43 (1.14-1.79)	1.70E-03	3.10E-02
C1QA, C1QB, C1QC	Complement C1q subcomponent	0.82 (0.73-0.93)	1.80E-03	3.20E-02
TFRC	Transferrin receptor protein 1	1.25 (1.09-1.45)	1.80E-03	3.20E-02
CD93	Complement component C1q receptor	1.22 (1.08-1.39)	1.90E-03	3.30E-02
RETN	Resistin	1.32 (1.11-1.57)	1.90E-03	3.30E-02
CSRP3	Cysteine and glycine-rich protein 3	1.27 (1.09-1.47)	1.90E-03	3.30E-02
SMC3	Structural maintenance of chromosomes protein 3	1.33 (1.11-1.6)	1.90E-03	3.30E-02
TALDO1	Transaldolase	1.29 (1.1-1.51)	1.90E-03	3.30E-02
NRP1	Neuropilin-1	1.21 (1.07-1.37)	2.00E-03	3.50E-02
C10orf10	Protein DEPP	0.78 (0.67-0.91)	2.00E-03	3.50E-02
PABPN1	Polyadenylate-binding protein 2	1.25 (1.08-1.44)	2.00E-03	3.50E-02
CD48	CD48 antigen	1.38 (1.13-1.7)	2.10E-03	3.60E-02
DEFA5	Defensin-5	1.37 (1.12-1.68)	2.10E-03	3.60E-02
HYAL1	Hyaluronidase-1	0.78 (0.66-0.91)	2.10E-03	3.60E-02
PSAPL1	Proactivator polypeptide-like 1	0.7 (0.55-0.88)	2.10E-03	3.60E-02
APEX1	DNA-(apurinic or apyrimidinic site) lyase	1.29 (1.1-1.52)	2.10E-03	3.60E-02
VASN	Vasorin	1.35 (1.11-1.64)	2.20E-03	3.60E-02
PBRM1	Protein polybromo-1	1.17 (1.06-1.3)	2.20E-03	3.70E-02
EPHA2	Ephrin type-A receptor 2	1.45 (1.14-1.84)	2.20E-03	3.70E-02
STX16	Syntaxin-16	1.18 (1.06-1.3)	2.30E-03	3.80E-02
WFDC3	WAP four-disulfide core domain protein 3	1.14 (1.05-1.24)	2.30E-03	3.80E-02
EFNB1	Ephrin-B1	1.17 (1.06-1.29)	2.40E-03	3.80E-02
IGFL3	Insulin growth factor-like family member 3	0.71 (0.57-0.89)	2.40E-03	3.80E-02
CNDP1	Beta-Ala-His dipeptidase	0.81 (0.71-0.93)	2.40E-03	3.80E-02
PCDH10	Protocadherin-10	0.79 (0.68-0.92)	2.40E-03	3.80E-02
LAMC2	Laminin subunit gamma-2	1.29 (1.09-1.52)	2.40E-03	3.80E-02
EGFR	Epidermal growth factor receptor	0.74 (0.61-0.9)	2.40E-03	3.80E-02
RBM39	RNA-binding protein 39	1.21 (1.07-1.37)	2.50E-03	4.00E-02
PRDX3	Thioredoxin-dependent peroxide reductase, mitochondrial	1.3 (1.1-1.55)	2.60E-03	4.00E-02
BCL2L1	Bcl-2-like protein 1	0.77 (0.66-0.91)	2.60E-03	4.00E-02
CYR61	Protein CYR61	1.23 (1.07-1.4)	2.70E-03	4.10E-02

CA6	Carbonic anhydrase 6	0.76 (0.64-0.91)	2.70E-03	4.10E-02
LOXL2	Lysyl oxidase homolog 2	1.17 (1.06-1.3)	2.70E-03	4.20E-02
GSTP1	Glutathione S-transferase P	1.22 (1.07-1.39)	2.80E-03	4.30E-02
IL18BP	Interleukin-18-binding protein	1.32 (1.1-1.59)	2.90E-03	4.50E-02
APPL1	DCC-interacting protein 13-alpha	1.13 (1.04-1.23)	3.00E-03	4.50E-02
RPS27A	Ubiquitin+1, truncated mutation for UbB	1.24 (1.08-1.44)	3.10E-03	4.60E-02
HAVCR2	Hepatitis A virus cellular receptor 2	1.41 (1.12-1.78)	3.10E-03	4.60E-02
F5	Coagulation Factor V	0.79 (0.68-0.92)	3.10E-03	4.60E-02
TNFRSF4	Tumor necrosis factor receptor superfamily member 4	1.19 (1.06-1.33)	3.10E-03	4.60E-02
AP2A2	AP-2 complex subunit alpha-2	1.27 (1.08-1.49)	3.20E-03	4.70E-02
KLK14	Kallikrein-14	0.8 (0.68-0.93)	3.20E-03	4.70E-02
UBE2J2	Ubiquitin-conjugating enzyme E2 J2	1.23 (1.07-1.42)	3.20E-03	4.70E-02
SERPINA7	Thyroxine-binding globulin	0.74 (0.6-0.9)	3.30E-03	4.80E-02
FSTL3	Follistatin-related protein 3	1.43 (1.13-1.82)	3.30E-03	4.80E-02
FCGR3B	Low affinity immunoglobulin gamma Fc region receptor III-B	1.39 (1.11-1.73)	3.50E-03	5.00E-02
FAM3B	Protein FAM3B	1.28 (1.09-1.52)	3.50E-03	5.00E-02
RECQL	ATP-dependent DNA helicase Q1	1.21 (1.06-1.37)	3.50E-03	5.00E-02

Table S5: Proteins Significantly Associated with Total HFH in the Risk Factor Adjusted Model

Protein Symbol	Protein Name	Rate Ratio (95% CI)	P-Value	Adjusted P-Value
PARK7	Protein deglycase DJ-1	1.5 (1.31-1.71)	2.00E-09	9.50E-06
QPCTL	Glutaminyl-peptide cyclotransferase-like protein	1.55 (1.31-1.84)	3.50E-07	5.70E-04
B2M	Beta-2-microglobulin	2.08 (1.54-2.8)	1.40E-06	9.40E-04
RSPO4	R-spondin-4	1.6 (1.32-1.93)	1.10E-06	9.40E-04
VSIG10	V-set and immunoglobulin domain-containing protein 10	0.47 (0.33-0.66)	1.90E-05	8.50E-03
ANP32B	Acidic leucine-rich nuclear phosphoprotein 32 family member B	1.43 (1.21-1.69)	2.40E-05	9.60E-03
EFEMP1	EGF-containing fibulin-like extracellular matrix protein 1	1.58 (1.27-1.97)	5.00E-05	1.70E-02
LTBP4	Latent-transforming growth factor beta-binding protein 4	1.77 (1.33-2.35)	8.30E-05	2.20E-02
SERPINA4	Kallistatin	0.64 (0.52-0.81)	1.30E-04	2.60E-02
ADAM17	Disintegrin and metalloproteinase domain-containing protein 17	1.4 (1.18-1.66)	1.30E-04	2.70E-02
TXNDC11	Thioredoxin domain-containing protein 11	1.49 (1.21-1.84)	1.90E-04	3.10E-02

Table S6: Proteins Significantly Associated with CV Death in the Minimally Adjusted Model

Protein Symbol	Protein Name	Rate Ratio (95% CI)	P-Value	Adjusted P-Value
SVEP1	Sushi, von Willebrand factor type A, EGF and pentraxin domain-containing protein 1	1.53 (1.26-1.85)	1.30E-05	2.90E-02
SERPINA4	Kallistatin	0.68 (0.57-0.8)	8.40E-06	2.90E-02
BCHE	Cholinesterase	0.63 (0.51-0.78)	1.80E-05	2.90E-02
IGFBP1	Insulin-like growth factor-binding protein 1	1.58 (1.27-1.97)	4.30E-05	3.50E-02
GHR	Growth hormone receptor	0.59 (0.46-0.76)	4.20E-05	3.50E-02
PTK2B	Protein-tyrosine kinase 2-beta	1.38 (1.17-1.64)	1.60E-04	4.50E-02
SCP2D1	SCP2 sterol-binding domain-containing protein 1	1.51 (1.23-1.85)	9.70E-05	4.50E-02
PLA2G2A	Phospholipase A2, membrane associated	1.52 (1.23-1.89)	1.10E-04	4.50E-02
PIGR	Polymeric immunoglobulin receptor	1.57 (1.24-1.98)	1.60E-04	4.50E-02
B2M	Beta-2-microglobulin	1.58 (1.26-1.99)	8.90E-05	4.50E-02
INHBC	Inhibin beta C chain	0.68 (0.56-0.83)	1.60E-04	4.50E-02
CILP2	Cartilage intermediate layer protein 2	0.62 (0.48-0.79)	1.60E-04	4.50E-02
TFF2	Trefoil factor 2	1.53 (1.23-1.9)	1.20E-04	4.50E-02

Table S7: Proteins Significantly Associated with Time to First HFH in the Minimally Adjusted Model

Protein Symbol	Protein Name	Rate Ratio (95% CI)	P-Value	Adjusted P-Value
TIMP1	Metalloproteinase inhibitor 1	1.45 (1.27-1.65)	4.90E-08	1.20E-04
TNFRSF1A	Tumor necrosis factor receptor superfamily member 1A	1.56 (1.33-1.84)	7.70E-08	1.20E-04
B2M	Beta-2-microglobulin	1.55 (1.32-1.82)	6.50E-08	1.20E-04
TFF3	Trefoil factor 3	1.32 (1.19-1.47)	2.00E-07	2.40E-04
CETP	Cholesteryl ester transfer protein	1.45 (1.26-1.68)	3.20E-07	2.60E-04
EFEMP1	EGF-containing fibulin-like extracellular matrix protein 1	1.34 (1.2-1.5)	3.20E-07	2.60E-04
CST3	Cystatin-C	1.6 (1.33-1.92)	4.00E-07	2.70E-04
REG1A	Lithostathine-1-alpha	1.45 (1.25-1.67)	4.90E-07	3.00E-04
IFNA2	Interferon alpha-2	0.56 (0.44-0.71)	1.90E-06	9.30E-04
GDF15	Growth/differentiation factor 15	1.52 (1.28-1.8)	1.90E-06	9.30E-04
RANBP3	Ran-binding protein 3	1.45 (1.24-1.7)	3.70E-06	1.50E-03
SPON1	Spondin-1	1.45 (1.23-1.7)	5.40E-06	2.00E-03
SVEP1	Sushi, von Willebrand factor type A, EGF and pentraxin domain-containing protein 1	1.38 (1.2-1.58)	7.10E-06	2.50E-03
TNFRSF1B	Tumor necrosis factor receptor superfamily member 1B	1.31 (1.16-1.47)	1.20E-05	2.90E-03
SERPINA4	Kallistatin	0.74 (0.65-0.85)	1.10E-05	2.90E-03
AFM	Afamin	0.68 (0.57-0.81)	1.20E-05	2.90E-03
CLEC3B	Tetranectin	0.67 (0.56-0.8)	1.30E-05	2.90E-03
IGFLR1	IGF-like family receptor 1	1.47 (1.23-1.74)	1.30E-05	2.90E-03
HDGF	Hepatoma-derived growth factor	1.39 (1.2-1.61)	1.30E-05	2.90E-03
TFF2	Trefoil factor 2	1.42 (1.21-1.65)	1.10E-05	2.90E-03
POFUT2	GDP-fucose protein O-fucosyltransferase 2	1.38 (1.19-1.6)	1.70E-05	3.50E-03
UBQLN4	Ubiquilin-4	1.33 (1.17-1.51)	1.90E-05	3.70E-03
EPHA10	Ephrin type-A receptor 10	1.32 (1.16-1.51)	2.80E-05	5.20E-03
RSPO4	R-spondin-4	1.24 (1.12-1.37)	2.80E-05	5.20E-03
CILP2	Cartilage intermediate layer protein 2	0.68 (0.57-0.82)	3.00E-05	5.40E-03
CLSTN3	Calsyntenin-3	1.36 (1.18-1.57)	3.20E-05	5.60E-03
SUMO2	Small ubiquitin-related modifier 3	1.36 (1.18-1.58)	3.80E-05	6.30E-03
CDH3	Cadherin-3	0.73 (0.63-0.85)	4.20E-05	6.50E-03
MZB1	Marginal zone B- and B1-cell-specific protein	1.23 (1.11-1.36)	4.10E-05	6.50E-03
CRK	Adapter molecule crk	1.35 (1.17-1.56)	4.50E-05	6.80E-03

MTHFS	5-formyltetrahydrofolate cyclo-ligase	1.31 (1.15-1.49)	5.70E-05	8.40E-03
SERPINA10	Protein Z-dependent protease inhibitor	1.36 (1.17-1.58)	6.10E-05	8.70E-03
HNRNPH1	Heterogeneous nuclear ribonucleoprotein H	0.71 (0.6-0.84)	6.70E-05	9.00E-03
EDA2R	Tumor necrosis factor receptor superfamily member 27	1.22 (1.11-1.35)	7.70E-05	9.20E-03
PRELP	Prolargin	1.35 (1.16-1.56)	7.60E-05	9.20E-03
CTSH	Cathepsin H	1.4 (1.18-1.65)	8.70E-05	1.00E-02
RTF1	RNA polymerase-associated protein RTF1 homolog	1.18 (1.08-1.28)	9.30E-05	1.10E-02
UBE2E1	Ubiquitin-conjugating enzyme E2 E1	1.33 (1.15-1.53)	9.80E-05	1.10E-02
RETN	Resistin	1.34 (1.15-1.54)	1.00E-04	1.10E-02
LONP1	Lon protease homolog, mitochondrial	1.31 (1.14-1.5)	1.10E-04	1.10E-02
FGF17	Fibroblast growth factor 17	0.68 (0.55-0.82)	1.10E-04	1.20E-02
AK2	Adenylate kinase 2, mitochondrial	1.29 (1.13-1.47)	1.20E-04	1.20E-02
PDCD5	Programmed cell death protein 5	1.32 (1.14-1.52)	1.30E-04	1.20E-02
MAP2K2	Dual specificity mitogen-activated protein kinase kinase 2	1.38 (1.17-1.63)	1.30E-04	1.20E-02
QSOX1	Sulfhydryl oxidase 1	1.32 (1.14-1.52)	1.30E-04	1.20E-02
COL4A3BP	Collagen type IV alpha-3-binding protein	1.34 (1.15-1.56)	1.40E-04	1.20E-02
PTEN	Phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN	1.21 (1.1-1.34)	1.40E-04	1.20E-02
PDIA6	Protein disulfide-isomerase A6	1.26 (1.12-1.42)	1.40E-04	1.20E-02
PSAPL1	Proactivator polypeptide-like 1	0.7 (0.58-0.84)	1.50E-04	1.30E-02
TMPO	Lamina-associated polypeptide 2, isoforms beta/gamma	1.32 (1.14-1.53)	1.50E-04	1.30E-02
RPS27A	Ubiquitin+1, truncated mutation for UbB	1.3 (1.13-1.49)	2.00E-04	1.60E-02
EPHA7	Ephrin type-A receptor 7	1.3 (1.13-1.49)	2.00E-04	1.60E-02
NUDT3	Diphosphoinositol polyphosphate phosphohydrolase 1	1.26 (1.11-1.42)	2.30E-04	1.80E-02
PAFAH1B2	Platelet-activating factor acetylhydrolase IB subunit beta	1.3 (1.13-1.5)	2.40E-04	1.80E-02
PGLYRP2	N-acetylmuramoyl-L-alanine amidase	0.75 (0.64-0.87)	2.50E-04	1.90E-02
FKBP7	Peptidyl-prolyl cis-trans isomerase FKBP7	1.33 (1.14-1.55)	2.50E-04	1.90E-02
COL6A3	Collagen alpha-3(VI) chain	1.38 (1.16-1.64)	2.70E-04	2.00E-02
CHMP3	Charged multivesicular body protein 3	1.27 (1.11-1.44)	3.00E-04	2.10E-02
NBL1	Neuroblastoma suppressor of tumorigenicity 1	1.37 (1.16-1.63)	3.00E-04	2.10E-02
RELT	Tumor necrosis factor receptor superfamily member 19L	1.39 (1.16-1.66)	2.90E-04	2.10E-02
MESDC2	LDLR chaperone MESD	1.27 (1.12-1.45)	3.10E-04	2.10E-02
TIMP2	Metalloproteinase inhibitor 2	1.33 (1.14-1.55)	3.20E-04	2.20E-02
SMURF1	E3 ubiquitin-protein ligase SMURF1	1.2 (1.09-1.33)	3.40E-04	2.20E-02
PTGDS	Prostaglandin-H2 D-isomerase	1.24 (1.1-1.39)	3.50E-04	2.30E-02

CD226	CD226 antigen	1.18 (1.08-1.29)	3.60E-04	2.30E-02
GHR	Growth hormone receptor	0.73 (0.62-0.87)	3.60E-04	2.30E-02
VEGFC	Vascular endothelial growth factor C	1.23 (1.1-1.37)	3.90E-04	2.40E-02
SFTPC	Pulmonary surfactant-associated protein C	1.33 (1.14-1.56)	3.90E-04	2.40E-02
TAGLN	Transgelin	1.42 (1.17-1.73)	4.50E-04	2.70E-02
SCARF2	Scavenger receptor class F member 2	1.25 (1.1-1.42)	4.60E-04	2.70E-02
TXNDC5	Thioredoxin domain-containing protein 5	1.35 (1.14-1.59)	4.80E-04	2.70E-02
TPT1	Translationally-controlled tumor protein	1.29 (1.12-1.48)	4.80E-04	2.70E-02
COL28A1	Collagen alpha-1(XXVIII) chain	1.39 (1.15-1.67)	5.10E-04	2.80E-02
PVRL2	Nectin-2	1.22 (1.09-1.36)	5.20E-04	2.90E-02
PPIA	Peptidyl-prolyl cis-trans isomerase A	1.3 (1.12-1.51)	5.70E-04	3.00E-02
IL18	Interleukin-18	1.31 (1.12-1.53)	5.60E-04	3.00E-02
APOF	Apolipoprotein F	1.41 (1.16-1.71)	5.90E-04	3.00E-02
TREM1	Triggering receptor expressed on myeloid cells 1	1.38 (1.15-1.65)	5.90E-04	3.00E-02
G3BP2	Ras GTPase-activating protein-binding protein 2	1.28 (1.11-1.47)	6.10E-04	3.00E-02
RBM3	RNA-binding protein 3	1.27 (1.11-1.46)	6.40E-04	3.10E-02
DPY30	Protein dpy-30 homolog	1.31 (1.12-1.53)	6.50E-04	3.10E-02
WFDC2	WAP four-disulfide core domain protein 2	1.39 (1.15-1.67)	6.90E-04	3.30E-02
CPT1B	Carnitine O-palmitoyltransferase 1, muscle isoform	0.73 (0.61-0.88)	7.20E-04	3.40E-02
VWC2	Brorin	1.32 (1.12-1.56)	7.50E-04	3.40E-02
EPHA2	Ephrin type-A receptor 2	1.33 (1.13-1.57)	7.60E-04	3.40E-02
PARK7	Protein deglycase DJ-1	1.21 (1.08-1.35)	7.40E-04	3.40E-02
ADAMTSL2	ADAMTS-like protein 2	1.3 (1.12-1.51)	7.30E-04	3.40E-02
UNC5B	Netrin receptor UNC5B	1.3 (1.12-1.51)	7.60E-04	3.40E-02
C1QTNF1	Complement C1q tumor necrosis factor-related protein 1	1.31 (1.12-1.54)	7.80E-04	3.50E-02
GABARAPL1	Gamma-aminobutyric acid receptor-associated protein-like 1	1.33 (1.13-1.57)	8.40E-04	3.70E-02
PXDN	Peroxidasin homolog	1.35 (1.13-1.62)	8.60E-04	3.80E-02
SPON2	Spondin-2	1.33 (1.13-1.58)	9.20E-04	4.00E-02
IL15RA	Interleukin-15 receptor subunit alpha	1.33 (1.12-1.57)	9.70E-04	4.00E-02
SUMO3	Small ubiquitin-related modifier 3	1.3 (1.11-1.52)	9.70E-04	4.00E-02
VSTM4	V-set and transmembrane domain-containing protein 4	0.7 (0.56-0.86)	9.70E-04	4.00E-02
LRPPRC	Leucine-rich PPR motif-containing protein, mitochondrial	0.68 (0.54-0.86)	1.00E-03	4.20E-02
FRZB	Secreted frizzled-related protein 3	0.76 (0.64-0.9)	1.10E-03	4.30E-02
HNRNPAB	Heterogeneous nuclear ribonucleoprotein A/B	1.26 (1.1-1.45)	1.10E-03	4.30E-02

UBE2J2	Ubiquitin-conjugating enzyme E2 J2	1.23 (1.09-1.39)	1.10E-03	4.40E-02
INHBC	Inhibin beta C chain	0.8 (0.69-0.91)	1.10E-03	4.40E-02
NPPB	Natriuretic peptides B	0.75 (0.63-0.89)	1.20E-03	4.50E-02
TAX1BP3	Tax1-binding protein 3	1.23 (1.09-1.4)	1.20E-03	4.50E-02
PARVA	Alpha-parvin	1.24 (1.09-1.4)	1.20E-03	4.50E-02
CKM	Creatine kinase M-type	0.72 (0.59-0.88)	1.20E-03	4.50E-02
ILF3	Interleukin enhancer-binding factor 3	1.25 (1.09-1.43)	1.30E-03	4.80E-02
AKR1A1	Alcohol dehydrogenase [NADP(+)]	1.34 (1.12-1.59)	1.30E-03	4.80E-02
CNOT1	CCR4-NOT transcription complex subunit 1	1.23 (1.08-1.4)	1.30E-03	4.80E-02
CA6	Carbonic anhydrase 6	0.77 (0.66-0.9)	1.40E-03	4.90E-02
DUT	Deoxyuridine 5'-triphosphate nucleotidohydrolase, mitochondrial	1.22 (1.08-1.37)	1.40E-03	4.90E-02
SH3BGRL	SH3 domain-binding glutamic acid-rich-like protein	1.29 (1.11-1.52)	1.40E-03	4.90E-02
BAGE2	B melanoma antigen 2	1.29 (1.1-1.51)	1.40E-03	4.90E-02
FAM3B	Protein FAM3B	1.3 (1.11-1.52)	1.40E-03	4.90E-02

Table S8: Proteins with Nominally Significant Differences in Association with Total HFH and CV Death in HFpEF vs. HFrEF

Protein Symbol	Protein Name	PARAGON RR (95% CI)	PARAGON P-Value	rEF RR (95% CI)	rEF P-Value	Comparison Z Statistic	Comparison P-Value	Comparison Adjusted P-Value
APOE	Apolipoprotein E (isoform E4)	0.7 (0.85-0.54)	4.03E-06	1.05 (0.96-1.14)	3.20E-01	4.5	6.68E-06	1.07E-02
RTF1	RNA polymerase-associated protein RTF1 homolog	1.21 (1.27-1.16)	5.83E-11	0.96 (0.89-1.05)	3.60E-01	-4.52	6.24E-06	1.07E-02
VWF	von Willebrand factor	0.86 (0.96-0.76)	4.23E-03	1.18 (1.07-1.29)	7.16E-04	4.4	1.06E-05	1.29E-02
TMEM119	Transmembrane protein 119	1.17 (1.26-1.08)	7.94E-04	0.89 (0.81-0.99)	2.91E-02	-3.86	1.11E-04	8.95E-02
LIF	Leukemia inhibitory factor	1.21 (1.3-1.11)	7.98E-05	0.95 (0.88-1.03)	1.94E-01	-3.9	9.75E-05	8.95E-02
SPG21	Maspardin	1.21 (1.3-1.11)	1.24E-04	0.96 (0.89-1.04)	3.05E-01	-3.63	2.80E-04	1.02E-01
PMVK	Phosphomevalonate kinase	1.2 (1.32-1.09)	1.43E-03	0.93 (0.85-1.01)	7.75E-02	-3.62	2.97E-04	1.02E-01
C3	C3a anaphylatoxin des Arginine	0.76 (0.92-0.61)	7.58E-04	1.09 (0.99-1.19)	8.12E-02	3.79	1.52E-04	1.02E-01
THBS2	Thrombospondin-2	1.25 (1.39-1.11)	1.53E-03	1.66 (1.54-1.79)	5.18E-40	3.6	3.16E-04	1.02E-01
INS	Insulin	0.77 (0.95-0.6)	3.88E-03	1.09 (1.02-1.16)	6.95E-03	3.64	2.73E-04	1.02E-01
TNNI3	Troponin I, cardiac muscle	1.02 (1.12-0.92)	7.11E-01	1.28 (1.21-1.35)	3.78E-17	3.69	2.28E-04	1.02E-01
SPOCK2	Testican-2	0.86 (1.03-0.69)	8.36E-02	1.25 (1.14-1.37)	2.23E-06	3.74	1.83E-04	1.02E-01
CPM	Carboxypeptidase M	0.84 (0.99-0.7)	2.07E-02	1.16 (1.06-1.28)	1.39E-03	3.68	2.33E-04	1.02E-01
IL19	Interleukin-19	1 (1.17-0.83)	9.91E-01	1.41 (1.29-1.53)	9.61E-15	3.55	3.91E-04	1.18E-01
GLRX2	Glutaredoxin-2, mitochondrial	1.17 (1.25-1.1)	4.20E-05	0.96 (0.89-1.04)	3.22E-01	-3.53	4.23E-04	1.20E-01
USE1	Vesicle transport protein USE1	1.23 (1.32-1.14)	1.36E-05	1 (0.94-1.07)	9.42E-01	-3.47	5.21E-04	1.32E-01
ADAM30	Disintegrin and metalloproteinase domain-containing protein 30	1.15 (1.22-1.08)	4.80E-05	0.96 (0.89-1.04)	3.10E-01	-3.47	5.19E-04	1.32E-01
IGFBP7	Insulin-like growth factor-binding protein 7	1.13 (1.29-0.97)	1.47E-01	1.55 (1.43-1.69)	6.97E-26	3.43	6.08E-04	1.46E-01
NFASC	Neurofascin	1.1 (1.24-0.97)	1.40E-01	1.48 (1.33-1.65)	4.58E-13	3.42	6.35E-04	1.46E-01
ZNF134	Zinc finger protein 134	1.25 (1.32-1.18)	2.12E-09	0.97 (0.85-1.1)	6.40E-01	-3.37	7.51E-04	1.62E-01
CD1D	Antigen-presenting glycoprotein CD1d	1.17 (1.29-1.05)	9.20E-03	0.88 (0.79-0.99)	3.18E-02	-3.36	7.72E-04	1.62E-01
BRDT	Bromodomain testis-specific protein	1.17 (1.28-1.06)	3.91E-03	0.89 (0.79-1.01)	6.32E-02	-3.31	9.33E-04	1.80E-01
SERPINA3	Alpha-1-antichymotrypsin	0.83 (0.99-0.67)	2.56E-02	1.19 (1.03-1.37)	1.51E-02	3.27	1.06E-03	1.82E-01
TF	Serotransferrin	0.75 (1.01-0.48)	2.90E-02	1.24 (1.07-1.43)	4.13E-03	3.29	9.84E-04	1.82E-01
PTPRU	Receptor-type tyrosine-protein phosphatase U	1.03 (1.18-0.89)	6.55E-01	1.35 (1.26-1.45)	3.57E-17	3.25	1.17E-03	1.95E-01

HAPLN4	Hyaluronan and proteoglycan link protein 4	1.2 (1.29-1.11)	9.76E-05	0.99 (0.92-1.07)	7.92E-01	-3.18	1.46E-03	2.35E-01
GH2	Growth hormone variant	0.9 (1.07-0.74)	2.20E-01	1.21 (1.12-1.31)	1.53E-06	3.14	1.67E-03	2.59E-01
RIPK2	Receptor-interacting serine/threonine-protein kinase 2	1.15 (1.31-0.99)	9.12E-02	0.86 (0.79-0.94)	9.44E-04	-3.07	2.13E-03	3.21E-01
CRLF2	Cytokine receptor-like factor 2	0.89 (1.03-0.74)	9.41E-02	1.12 (1.06-1.19)	2.25E-04	3	2.69E-03	3.25E-01
LBP	Lipopolysaccharide-binding protein	0.83 (0.99-0.67)	2.00E-02	1.1 (1-1.21)	4.00E-02	3.04	2.33E-03	3.25E-01
TYK2	Non-receptor tyrosine-protein kinase TYK2	1.09 (1.21-0.97)	1.46E-01	0.85 (0.76-0.95)	3.89E-03	-3.03	2.45E-03	3.25E-01
TNFRSF10B	Tumor necrosis factor receptor superfamily member 10B	1.18 (1.25-1.11)	5.72E-06	1.01 (0.93-1.08)	8.66E-01	-3.05	2.25E-03	3.25E-01
MAMDC2	MAM domain-containing protein 2	1.17 (1.26-1.07)	2.41E-03	0.95 (0.87-1.04)	2.65E-01	-2.99	2.80E-03	3.25E-01
CD2	T-cell surface antigen CD2	0.91 (1.08-0.74)	2.78E-01	1.21 (1.12-1.32)	4.99E-06	2.99	2.82E-03	3.25E-01
IGFLR1	IGF-like family receptor 1	1.55 (1.74-1.37)	4.22E-06	1.14 (1.06-1.23)	6.19E-04	-3.02	2.52E-03	3.25E-01
SLTM	SAFB-like transcription modulator	1.17 (1.26-1.09)	2.18E-04	0.98 (0.91-1.06)	6.79E-01	-3.03	2.48E-03	3.25E-01
AHSP	Alpha-hemoglobin-stabilizing protein	0.72 (0.87-0.58)	1.36E-05	0.93 (0.86-0.99)	3.49E-02	3	2.68E-03	3.25E-01
CANT1	Soluble calcium-activated nucleotidase 1	1.26 (1.39-1.13)	4.38E-04	1 (0.91-1.09)	9.23E-01	-2.95	3.15E-03	3.45E-01
C1orf186	Uncharacterized protein C1orf186	1.08 (1.19-0.96)	2.24E-01	0.84 (0.75-0.94)	2.53E-03	-2.96	3.10E-03	3.45E-01
REG1A	Lithostathine-1-alpha	1.49 (1.64-1.35)	7.00E-08	1.17 (1.08-1.26)	8.32E-05	-2.94	3.30E-03	3.51E-01
OLFML3	Olfactomedin-like protein 3	0.99 (1.13-0.85)	8.68E-01	1.29 (1.16-1.44)	4.43E-06	2.93	3.34E-03	3.51E-01
MTRF1L	Peptide chain release factor 1-like, mitochondrial	1.15 (1.23-1.07)	3.85E-04	0.98 (0.9-1.06)	5.57E-01	-2.91	3.60E-03	3.58E-01
NXF1	Nuclear RNA export factor 1	1.21 (1.31-1.11)	2.16E-04	0.97 (0.87-1.08)	5.85E-01	-2.92	3.55E-03	3.58E-01
SNRPA	U1 small nuclear ribonucleoprotein A	1.32 (1.44-1.2)	6.69E-06	1.07 (1-1.15)	3.99E-02	-2.9	3.78E-03	3.58E-01
LAP3	Cytosol aminopeptidase	1.22 (1.32-1.11)	2.99E-04	1.01 (0.94-1.08)	8.76E-01	-2.91	3.66E-03	3.58E-01
AFM	Afamin	0.65 (0.82-0.49)	2.25E-07	0.86 (0.79-0.94)	5.76E-04	2.9	3.77E-03	3.58E-01
SERPINA4	Kallistatin	0.72 (0.84-0.61)	1.31E-08	0.88 (0.82-0.96)	1.95E-03	2.87	4.12E-03	3.76E-01
IGHG1, IGHG2, IGHG3, IGHG4, IGL, IGK	Immunoglobulin G	0.83 (0.97-0.69)	1.05E-02	1.06 (0.97-1.16)	1.89E-01	2.87	4.17E-03	3.76E-01

NDST1	Bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 1	0.85 (1.01-0.69)	4.59E-02	1.11 (1.01-1.23)	2.50E-02	2.86	4.21E-03	3.76E-01
FRZB	Secreted frizzled-related protein 3	0.83 (1.02-0.65)	5.50E-02	1.13 (1.03-1.24)	1.28E-02	2.85	4.43E-03	3.82E-01
BCAM	Basal Cell Adhesion Molecule	0.98 (1.12-0.85)	7.92E-01	1.21 (1.15-1.27)	1.57E-14	2.85	4.38E-03	3.82E-01
C1QA, C1QB, C1QC	Complement C1q subcomponent	0.84 (0.96-0.72)	4.15E-03	1.04 (0.95-1.13)	3.99E-01	2.81	4.94E-03	4.18E-01
FNDC4	Fibronectin type III domain-containing protein 4	1.11 (1.21-1)	5.90E-02	0.9 (0.81-1)	4.17E-02	-2.77	5.55E-03	4.19E-01
CLEC4M	C-type lectin domain family 4 member M	0.71 (0.87-0.55)	3.67E-05	0.93 (0.85-1.03)	1.81E-01	2.8	5.17E-03	4.19E-01
CNTN4	Contactin-4	0.91 (1.05-0.76)	1.80E-01	1.16 (1.05-1.29)	3.44E-03	2.77	5.54E-03	4.19E-01
FGF17	Fibroblast growth factor 17	0.71 (0.91-0.51)	9.75E-04	0.99 (0.88-1.11)	8.57E-01	2.76	5.79E-03	4.19E-01
NTF3	Neurotrophin-3	1.01 (1.14-0.89)	8.23E-01	1.25 (1.16-1.34)	2.41E-09	2.79	5.23E-03	4.19E-01
RLN3	Relaxin-3	1.19 (1.32-1.06)	9.09E-03	0.95 (0.86-1.04)	2.60E-01	-2.77	5.68E-03	4.19E-01
BAGE2	B melanoma antigen 2	1.42 (1.56-1.27)	3.75E-06	1.11 (1.03-1.21)	1.02E-02	-2.79	5.32E-03	4.19E-01
PLOD2	Procollagen-lysine,2-oxoglutarate 5-dioxygenase 2	0.86 (1.04-0.68)	1.02E-01	1.14 (1.05-1.23)	1.00E-03	2.79	5.28E-03	4.19E-01
ZNF264	Zinc finger protein 264	1.12 (1.25-0.99)	7.67E-02	0.9 (0.83-0.99)	2.24E-02	-2.76	5.81E-03	4.19E-01
ANGPT2	Angiopoietin-2_MOUSE	1.25 (1.46-1.04)	3.53E-02	1.71 (1.57-1.86)	4.12E-36	2.75	6.02E-03	4.28E-01
MAX	Protein max	1.28 (1.39-1.18)	4.46E-06	1.05 (0.94-1.16)	3.96E-01	-2.72	6.63E-03	4.28E-01
PAXIP1	PAX-interacting protein 1	1.28 (1.42-1.14)	6.57E-04	0.92 (0.77-1.11)	4.01E-01	-2.73	6.38E-03	4.28E-01
FSTL1	Follistatin-related protein 1	1.05 (1.22-0.89)	5.25E-01	1.37 (1.25-1.5)	1.27E-11	2.71	6.67E-03	4.28E-01
BGN	Biglycan	0.93 (1.09-0.78)	3.87E-01	1.19 (1.09-1.3)	5.74E-05	2.71	6.74E-03	4.28E-01
ENG	Endoglin	1.09 (1.25-0.93)	2.88E-01	1.39 (1.3-1.48)	6.24E-24	2.71	6.70E-03	4.28E-01
MAPK12	Mitogen-activated protein kinase 12	1.15 (1.23-1.07)	1.08E-03	0.98 (0.91-1.06)	6.64E-01	-2.74	6.19E-03	4.28E-01
NPPB	N-terminal pro-BNP	1.23 (1.44-1.02)	5.21E-02	1.7 (1.53-1.88)	1.57E-23	2.71	6.70E-03	4.28E-01
MANSC4	MANSC domain-containing protein 4	1.11 (1.25-0.98)	1.18E-01	0.88 (0.79-0.97)	1.36E-02	-2.74	6.22E-03	4.28E-01
NT5C2	Cytosolic purine 5'-nucleotidase	1.24 (1.36-1.12)	3.30E-04	1.02 (0.95-1.1)	5.33E-01	-2.7	6.99E-03	4.38E-01
ATF6	Cyclic AMP-dependent transcription factor ATF-6 alpha	0.79 (0.98-0.59)	1.45E-02	1.05 (0.96-1.15)	2.71E-01	2.68	7.33E-03	4.48E-01
IL1R2	Interleukin-1 receptor type 2	0.89 (1.07-0.71)	2.00E-01	1.17 (1.07-1.29)	8.68E-04	2.68	7.29E-03	4.48E-01
SLITRK1	SLIT and NTRK-like protein 1	0.92 (1.07-0.76)	2.70E-01	1.17 (1.06-1.29)	1.75E-03	2.59	9.63E-03	4.50E-01
MCTS1	Malignant T-cell-amplified sequence 1	1.11 (1.24-0.97)	1.48E-01	0.88 (0.8-0.98)	1.41E-02	-2.6	9.23E-03	4.50E-01

ALDH3B1	Aldehyde dehydrogenase family 3 member B1	1.17 (1.32-1.03)	2.99E-02	0.94 (0.85-1.03)	1.53E-01	-2.6	9.33E-03	4.50E-01
SSU72	RNA polymerase II subunit A C-terminal domain phosphatase SSU72	1.2 (1.34-1.07)	7.61E-03	0.98 (0.91-1.05)	5.48E-01	-2.62	8.80E-03	4.50E-01
HPX	Hemopexin	0.87 (1.03-0.71)	9.44E-02	1.12 (1.01-1.24)	2.44E-02	2.6	9.23E-03	4.50E-01
F11	Coagulation Factor XI	1.04 (1.18-0.9)	5.48E-01	0.83 (0.76-0.91)	1.30E-04	-2.65	8.05E-03	4.50E-01
TBP	TATA-box-binding protein	1.14 (1.22-1.06)	1.92E-03	0.93 (0.82-1.06)	2.78E-01	-2.6	9.23E-03	4.50E-01
AGT	Angiotensinogen	1.12 (1.32-0.93)	2.33E-01	0.85 (0.78-0.92)	7.92E-05	-2.64	8.36E-03	4.50E-01
CFB	Complement factor B	0.88 (1.05-0.72)	1.57E-01	1.14 (1.04-1.25)	4.28E-03	2.59	9.63E-03	4.50E-01
MST1	Hepatocyte growth factor-like protein	0.88 (1.01-0.74)	5.37E-02	1.08 (1-1.18)	5.14E-02	2.66	7.75E-03	4.50E-01
ADAM12	Disintegrin and metalloproteinase domain-containing protein 12	1 (1.13-0.87)	9.60E-01	1.23 (1.14-1.32)	1.22E-08	2.65	8.13E-03	4.50E-01
SPARCL1	SPARC-like protein 1	0.92 (1.08-0.75)	2.99E-01	1.17 (1.08-1.27)	2.07E-04	2.59	9.69E-03	4.50E-01
F10	Coagulation Factor X	1.31 (1.51-1.11)	7.37E-03	0.95 (0.83-1.09)	4.69E-01	-2.61	8.97E-03	4.50E-01
KNG1	Kininogen-1	0.83 (0.98-0.68)	1.32E-02	1.04 (0.96-1.13)	3.43E-01	2.63	8.54E-03	4.50E-01
SIGLEC14	Sialic acid-binding Ig-like lectin 14	1.24 (1.36-1.11)	6.21E-04	1.03 (0.96-1.1)	4.20E-01	-2.61	9.09E-03	4.50E-01
S100A12	Protein S100-A12	1.3 (1.46-1.13)	1.76E-03	1.02 (0.93-1.11)	7.03E-01	-2.6	9.35E-03	4.50E-01
SERPINA10	Protein Z-dependent protease inhibitor	1.33 (1.48-1.17)	3.37E-04	1.04 (0.95-1.15)	3.81E-01	-2.6	9.20E-03	4.50E-01
AMIGO2	Amphoterin-induced protein 2	1.03 (1.19-0.87)	7.30E-01	1.31 (1.21-1.43)	5.78E-10	2.61	8.95E-03	4.50E-01
VNN2	Vascular non-inflammatory molecule 2	1.22 (1.41-1.03)	4.02E-02	0.91 (0.82-1.01)	8.30E-02	-2.63	8.54E-03	4.50E-01
RAET1E	NKG2D ligand 4	1.04 (1.13-0.95)	4.02E-01	0.87 (0.8-0.96)	4.59E-03	-2.59	9.53E-03	4.50E-01
CACNA2D3	Voltage-dependent calcium channel subunit alpha-2/delta-3	0.73 (0.91-0.54)	8.05E-04	0.95 (0.88-1.04)	2.90E-01	2.6	9.43E-03	4.50E-01
MXI1	MAX-interacting protein 1	1.25 (1.35-1.15)	4.64E-06	1.05 (0.96-1.15)	2.61E-01	-2.63	8.56E-03	4.50E-01
BTC	Betacellulin	0.89 (1.04-0.73)	1.25E-01	1.12 (1.03-1.21)	6.26E-03	2.63	8.66E-03	4.50E-01
IGSF3	Immunoglobulin superfamily member 3	1.05 (1.19-0.9)	5.37E-01	1.32 (1.21-1.43)	2.86E-11	2.67	7.62E-03	4.50E-01
CPT1B	Carnitine O-palmitoyltransferase 1, muscle isoform	0.67 (0.86-0.49)	3.38E-05	0.9 (0.8-1.03)	1.19E-01	2.57	1.02E-02	4.53E-01
BMP7	Bone morphogenetic protein 7	1 (1.14-0.86)	9.79E-01	1.23 (1.14-1.33)	6.25E-08	2.57	1.02E-02	4.53E-01

CDK5, CDK5R1	Cyclin-dependent kinase 5:Cyclin-dependent kinase 5 activator 1 complex	0.74 (0.89-0.58)	1.23E-04	0.94 (0.85-1.04)	2.37E-01	2.57	1.02E-02	4.53E-01
CD207	C-type lectin domain family 4 member K	0.77 (0.96-0.57)	8.62E-03	1.02 (0.94-1.11)	6.94E-01	2.57	1.00E-02	4.53E-01
MAPKAPK5	MAP kinase-activated protein kinase 5	0.99 (1.19-0.8)	9.57E-01	0.75 (0.67-0.83)	5.51E-08	-2.57	1.01E-02	4.53E-01
COPS7B	COP9 signalosome complex subunit 7b	1 (1.16-0.85)	9.83E-01	0.79 (0.72-0.87)	1.17E-06	-2.56	1.06E-02	4.55E-01
RORB	Nuclear receptor ROR-beta	0.79 (0.96-0.62)	7.87E-03	1.01 (0.94-1.08)	7.99E-01	2.56	1.05E-02	4.55E-01
CFD	Complement factor D	0.8 (0.99-0.61)	1.99E-02	1.06 (0.95-1.17)	2.90E-01	2.55	1.07E-02	4.55E-01
MMP2	72 kDa type IV collagenase	1.01 (1.2-0.83)	8.73E-01	1.33 (1.21-1.46)	7.08E-09	2.56	1.06E-02	4.55E-01
ACP2	Lysosomal acid phosphatase	0.93 (1.06-0.79)	2.63E-01	1.18 (1.04-1.34)	1.16E-02	2.55	1.08E-02	4.55E-01
THSD7A	Thrombospondin type-1 domain-containing protein 7A	0.79 (0.94-0.64)	1.91E-03	0.98 (0.91-1.06)	6.57E-01	2.54	1.10E-02	4.62E-01
UBTD2	Ubiquitin domain-containing protein 2	1.18 (1.27-1.08)	9.79E-04	1.01 (0.95-1.08)	7.39E-01	-2.53	1.14E-02	4.62E-01
PARP11	Poly [ADP-ribose] polymerase 11	1.11 (1.22-1.01)	5.03E-02	0.94 (0.87-1.01)	1.05E-01	-2.54	1.12E-02	4.62E-01
GHRL	Appetite-regulating hormone	1.13 (1.25-1)	5.75E-02	0.93 (0.85-1.01)	8.61E-02	-2.54	1.12E-02	4.62E-01
PODXL	Podocalyxin	1.05 (1.17-0.92)	4.92E-01	0.85 (0.77-0.94)	1.18E-03	-2.53	1.13E-02	4.62E-01
BMP6	Bone morphogenetic protein 6	1.1 (1.22-0.98)	1.31E-01	1.32 (1.22-1.41)	8.82E-14	2.53	1.15E-02	4.64E-01
FAIM	Fas apoptotic inhibitory molecule 1	0.76 (0.95-0.57)	5.45E-03	0.99 (0.92-1.07)	8.74E-01	2.52	1.18E-02	4.66E-01
PXDNL	Peroxidasin-like protein	1.13 (1.23-1.03)	1.86E-02	0.96 (0.89-1.04)	2.85E-01	-2.52	1.18E-02	4.66E-01
FBXL4	F-box/LRR-repeat protein 4	0.78 (0.98-0.58)	1.27E-02	1.02 (0.95-1.08)	6.36E-01	2.52	1.19E-02	4.66E-01
KAT2B	Histone acetyltransferase KAT2B	1.22 (1.38-1.06)	1.63E-02	0.97 (0.9-1.05)	4.30E-01	-2.51	1.20E-02	4.68E-01
TGFBI	Transforming growth factor-beta-induced protein ig-h3	0.9 (1.07-0.73)	2.48E-01	1.16 (1.05-1.28)	2.71E-03	2.5	1.23E-02	4.73E-01
FBLN1	Fibulin-1	0.86 (1.03-0.69)	7.49E-02	1.1 (1-1.21)	5.12E-02	2.5	1.23E-02	4.73E-01
ANGPTL3	Angiopoietin-related protein 3	1.02 (1.21-0.83)	8.51E-01	1.33 (1.22-1.46)	8.13E-10	2.48	1.31E-02	4.77E-01
CHRD	Chordin	0.82 (0.99-0.65)	2.01E-02	1.1 (0.94-1.28)	2.50E-01	2.48	1.30E-02	4.77E-01
IGHD, IGL, IGK	Immunoglobulin D	1.31 (1.52-1.11)	8.84E-03	0.99 (0.9-1.08)	8.11E-01	-2.49	1.29E-02	4.77E-01
KLK10	Kallikrein-10	1.1 (1.24-0.96)	1.99E-01	1.35 (1.25-1.46)	3.54E-14	2.48	1.30E-02	4.77E-01
HDGF	Hepatoma-derived growth factor	1.42 (1.55-1.29)	2.75E-07	1.17 (1.08-1.26)	8.36E-05	-2.48	1.30E-02	4.77E-01
SPATA31D4	Putative spermatogenesis-associated protein 31D4	1.18 (1.3-1.05)	1.14E-02	0.97 (0.88-1.06)	4.46E-01	-2.5	1.26E-02	4.77E-01

SUN3	SUN domain-containing protein 3	1.14 (1.28-1)	6.01E-02	0.93 (0.85-1.01)	9.56E-02	-2.48	1.32E-02	4.78E-01
ELK1	ETS domain-containing protein Elk-1	1.17 (1.27-1.07)	3.04E-03	0.99 (0.92-1.07)	8.64E-01	-2.46	1.38E-02	4.92E-01
SEMA4D	Semaphorin-4D	0.81 (0.99-0.64)	1.95E-02	1.04 (0.95-1.13)	4.01E-01	2.46	1.38E-02	4.92E-01
ITGAL	Integrin alpha-L	1.15 (1.29-1.01)	4.88E-02	0.94 (0.87-1.02)	1.37E-01	-2.45	1.42E-02	4.97E-01
ZHX1	Zinc fingers and homeoboxes protein 1	1.19 (1.3-1.08)	1.86E-03	1.01 (0.93-1.09)	8.70E-01	-2.45	1.42E-02	4.97E-01
RNGTT	mRNA-capping enzyme	1.14 (1.28-1.01)	5.27E-02	0.94 (0.86-1.02)	1.23E-01	-2.46	1.41E-02	4.97E-01
GPCPD1	Glycerophosphocholine phosphodiesterase GPCPD1	1.15 (1.26-1.05)	6.03E-03	0.98 (0.89-1.07)	5.91E-01	-2.44	1.46E-02	4.99E-01
OSM	Oncostatin-M	0.74 (0.89-0.59)	7.56E-05	0.97 (0.83-1.14)	7.03E-01	2.44	1.47E-02	4.99E-01
MRC2	C-type mannose receptor 2	1.01 (1.18-0.85)	8.72E-01	1.27 (1.17-1.38)	1.11E-08	2.44	1.46E-02	4.99E-01
TPM2	Tropomyosin beta chain	0.75 (0.9-0.6)	1.81E-04	0.94 (0.85-1.03)	1.97E-01	2.45	1.44E-02	4.99E-01
CXCL12	Stromal cell-derived factor 1	0.98 (1.13-0.82)	7.84E-01	1.22 (1.12-1.32)	1.69E-06	2.44	1.49E-02	5.01E-01
PSAPL1	Proactivator polypeptide-like 1	0.69 (0.89-0.48)	3.88E-04	0.91 (0.83-1.01)	7.28E-02	2.43	1.49E-02	5.01E-01
CCL20	C-C motif chemokine 20	0.88 (1.04-0.71)	1.23E-01	1.13 (1-1.27)	4.16E-02	2.43	1.51E-02	5.04E-01
KIF22	Kinesin-like protein KIF22	1.17 (1.28-1.07)	2.92E-03	1 (0.94-1.08)	9.20E-01	-2.42	1.55E-02	5.09E-01
DEFB112	Beta-defensin 112	1.21 (1.35-1.08)	5.18E-03	0.95 (0.83-1.1)	5.03E-01	-2.42	1.54E-02	5.09E-01
SUN5	SUN domain-containing protein 5	0.6 (0.96-0.24)	6.06E-03	0.96 (0.86-1.06)	4.16E-01	2.42	1.57E-02	5.11E-01
ABL1	Tyrosine-protein kinase ABL1	0.88 (1.03-0.72)	8.86E-02	1.07 (1.01-1.14)	2.67E-02	2.41	1.61E-02	5.11E-01
VEGFA	Vascular endothelial growth factor A, isoform 121	0.89 (1.04-0.74)	1.42E-01	1.11 (1.01-1.22)	2.84E-02	2.41	1.61E-02	5.11E-01
SST	Somatostatin-28	1.2 (1.3-1.1)	4.18E-04	1.03 (0.96-1.11)	3.69E-01	-2.41	1.58E-02	5.11E-01
UTS2B	Urotensin-2B	1.23 (1.35-1.12)	2.27E-04	1.06 (1-1.12)	7.13E-02	-2.4	1.62E-02	5.11E-01
ITM2A	Integral membrane protein 2A	1.19 (1.28-1.1)	6.39E-05	1.04 (0.96-1.12)	3.63E-01	-2.41	1.60E-02	5.11E-01
DLD	Dihydrolipoyl dehydrogenase, mitochondrial	0.87 (1.03-0.71)	7.81E-02	1.08 (0.99-1.17)	7.88E-02	2.38	1.73E-02	5.12E-01
FGFBP3	Fibroblast growth factor-binding protein 3	1 (1.17-0.84)	9.76E-01	1.25 (1.15-1.35)	3.42E-08	2.37	1.79E-02	5.12E-01
ASL	Argininosuccinate lyase	0.94 (1.04-0.83)	2.30E-01	1.1 (1.02-1.2)	1.80E-02	2.37	1.76E-02	5.12E-01
C10orf54	Platelet receptor Gi24	1.28 (1.42-1.15)	2.46E-04	1.07 (1-1.14)	3.55E-02	-2.38	1.74E-02	5.12E-01
ARRDC3	Arrestin domain-containing protein 3	1.17 (1.3-1.04)	2.17E-02	0.97 (0.89-1.05)	4.34E-01	-2.37	1.79E-02	5.12E-01
PBRM1	Protein polybromo-1	1.16 (1.26-1.06)	2.80E-03	0.98 (0.89-1.08)	7.37E-01	-2.37	1.78E-02	5.12E-01
ECH1	Delta(3,5)-Delta(2,4)-dienoyl-CoA isomerase, mitochondrial	1.21 (1.29-1.12)	1.02E-05	1.06 (0.99-1.13)	8.70E-02	-2.39	1.70E-02	5.12E-01
FGF7	Fibroblast growth factor 7	1.01 (1.16-0.86)	8.72E-01	1.25 (1.14-1.37)	1.21E-06	2.38	1.72E-02	5.12E-01

SERPINA6	Corticosteroid-binding globulin	1.17 (1.28-1.06)	4.68E-03	0.99 (0.92-1.07)	8.81E-01	-2.4	1.65E-02	5.12E-01
PAM	Peptidyl-glycine alpha-amidating monooxygenase	1.06 (1.2-0.91)	4.79E-01	1.35 (1.18-1.55)	1.78E-05	2.4	1.65E-02	5.12E-01
CELA2A	Chymotrypsin-like elastase family member 2A	0.88 (1.03-0.74)	8.90E-02	1.08 (0.99-1.17)	6.88E-02	2.37	1.79E-02	5.12E-01
LRFN2	Leucine-rich repeat and fibronectin type-III domain-containing protein 2	1.25 (1.41-1.1)	4.43E-03	0.98 (0.85-1.12)	7.22E-01	-2.38	1.72E-02	5.12E-01
POTEM	Putative POTE ankyrin domain family member M	1.14 (1.26-1.02)	3.16E-02	0.96 (0.88-1.04)	2.84E-01	-2.37	1.76E-02	5.12E-01
MRPL32	39S ribosomal protein L32, mitochondrial	1.11 (1.22-1.01)	5.15E-02	0.95 (0.89-1.02)	1.64E-01	-2.39	1.68E-02	5.12E-01
ADAM10	Disintegrin and metalloproteinase domain-containing protein 10	1.14 (1.23-1.05)	4.97E-03	0.97 (0.88-1.07)	5.02E-01	-2.39	1.67E-02	5.12E-01
PCDHB10	Protocadherin beta-10	1.14 (1.31-0.97)	1.24E-01	0.89 (0.8-1)	4.15E-02	-2.4	1.66E-02	5.12E-01
TRAPPC3	Trafficking protein particle complex subunit 3	1.23 (1.4-1.07)	1.07E-02	0.98 (0.89-1.08)	7.39E-01	-2.36	1.82E-02	5.16E-01
PLCG2	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase gamma-2	1.16 (1.26-1.05)	6.57E-03	0.99 (0.92-1.07)	8.48E-01	-2.3	2.17E-02	5.28E-01
PTS	6-pyruvoyl tetrahydrobiopterin synthase	1.09 (1.21-0.98)	1.14E-01	0.94 (0.87-1.01)	7.92E-02	-2.28	2.25E-02	5.28E-01
ERCC1	DNA excision repair protein ERCC-1	1.13 (1.21-1.05)	2.94E-03	0.99 (0.91-1.07)	7.91E-01	-2.29	2.20E-02	5.28E-01
HMG20A	High mobility group protein 20A	1.16 (1.27-1.06)	5.95E-03	0.99 (0.9-1.08)	7.55E-01	-2.3	2.14E-02	5.28E-01
HNRNPM	Heterogeneous nuclear ribonucleoprotein M	1.24 (1.34-1.14)	3.25E-05	1.07 (0.99-1.15)	1.01E-01	-2.28	2.25E-02	5.28E-01
IRF2	Interferon regulatory factor 2	1.18 (1.28-1.08)	1.20E-03	1.02 (0.96-1.1)	5.12E-01	-2.29	2.18E-02	5.28E-01
DYNLT3	Dynein light chain Tctex-type 3	1.12 (1.22-1.02)	2.19E-02	0.96 (0.89-1.05)	3.96E-01	-2.3	2.15E-02	5.28E-01
SYTL1	Synaptotagmin-like protein 1	1.07 (1.2-0.94)	3.15E-01	0.88 (0.79-0.98)	1.57E-02	-2.32	2.05E-02	5.28E-01
ASPRV1	Retroviral-like aspartic protease 1	1.07 (1.19-0.96)	1.99E-01	0.88 (0.77-1)	5.51E-02	-2.3	2.17E-02	5.28E-01
DEFB4A	Beta-defensin 4A	0.9 (1.07-0.74)	2.25E-01	1.13 (1.03-1.23)	8.80E-03	2.32	2.05E-02	5.28E-01
ZNRF3	E3 ubiquitin-protein ligase ZNRF3	0.83 (1.03-0.62)	6.33E-02	1.06 (1-1.12)	4.30E-02	2.32	2.06E-02	5.28E-01
CUL4B	Cullin-4B	0.97 (1.07-0.86)	5.36E-01	1.12 (1.05-1.21)	1.27E-03	2.32	2.03E-02	5.28E-01
IGFBP3	Insulin-like growth factor-binding protein 3	0.88 (1.04-0.73)	1.16E-01	1.1 (1-1.2)	5.89E-02	2.33	2.00E-02	5.28E-01

CFP	Properdin	0.83 (0.97-0.68)	1.17E-02	1.06 (0.92-1.22)	4.53E-01	2.33	2.01E-02	5.28E-01
IL18RAP	Interleukin-18 receptor accessory protein	0.78 (1.02-0.54)	4.15E-02	1.05 (0.97-1.13)	2.32E-01	2.31	2.11E-02	5.28E-01
NRP1	Neuropilin-1	0.93 (1.09-0.77)	3.98E-01	1.17 (1.05-1.3)	4.14E-03	2.29	2.22E-02	5.28E-01
FN1	Fibronectin Fragment 3	0.99 (1.14-0.84)	9.01E-01	0.81 (0.75-0.87)	3.25E-08	-2.3	2.14E-02	5.28E-01
MAPKAPK3	MAP kinase-activated protein kinase 3	1.2 (1.32-1.07)	4.99E-03	1 (0.93-1.09)	9.05E-01	-2.29	2.19E-02	5.28E-01
BOC	Brother of CDO	1.02 (1.2-0.85)	7.92E-01	1.29 (1.19-1.41)	5.54E-09	2.3	2.13E-02	5.28E-01
ANXA1	Annexin A1	1.28 (1.42-1.15)	3.53E-04	1.06 (0.97-1.16)	1.88E-01	-2.29	2.20E-02	5.28E-01
ARPP19	cAMP-regulated phosphoprotein 19	1.16 (1.25-1.07)	9.03E-04	1.02 (0.95-1.09)	6.23E-01	-2.34	1.95E-02	5.28E-01
KLRC1	NKG2-A/NKG2-B type II integral membrane protein	1.11 (1.24-0.99)	8.19E-02	0.92 (0.84-1.02)	1.17E-01	-2.34	1.94E-02	5.28E-01
TNXB	Tenascin-X	0.92 (1.09-0.75)	3.27E-01	1.15 (1.05-1.25)	1.50E-03	2.3	2.14E-02	5.28E-01
EPO	Erythropoietin	1.2 (1.34-1.06)	1.03E-02	1.49 (1.32-1.69)	2.62E-10	2.31	2.10E-02	5.28E-01
ADAMTSL2	ADAMTS-like protein 2	1.24 (1.41-1.07)	1.36E-02	1.53 (1.42-1.65)	3.31E-29	2.28	2.25E-02	5.28E-01
VSTM2L	V-set and transmembrane domain-containing protein 2-like protein	1.1 (1.21-1)	7.50E-02	0.94 (0.86-1.02)	1.47E-01	-2.3	2.17E-02	5.28E-01
NCR3LG1	Natural cytotoxicity triggering receptor 3 ligand 1	1.02 (1.15-0.89)	7.86E-01	0.84 (0.76-0.93)	4.99E-04	-2.35	1.88E-02	5.28E-01
TTC17	Tetratricopeptide repeat protein 17	0.75 (0.99-0.51)	1.89E-02	1.01 (0.93-1.09)	8.65E-01	2.28	2.24E-02	5.28E-01
MTX2	Metaxin-2	1.12 (1.24-1.01)	5.13E-02	0.95 (0.87-1.03)	2.30E-01	-2.28	2.25E-02	5.28E-01
ITPRIPL1	Inositol 1,4,5-trisphosphate receptor-interacting protein-like 1	1.24 (1.36-1.12)	3.45E-04	1.05 (0.97-1.14)	2.15E-01	-2.3	2.17E-02	5.28E-01
EPYC	Epiphycan	1.02 (1.17-0.87)	7.87E-01	1.25 (1.14-1.38)	4.52E-06	2.3	2.16E-02	5.28E-01
CRISP2	Cysteine-rich secretory protein 2	0.8 (0.97-0.63)	9.23E-03	1 (0.92-1.09)	9.93E-01	2.3	2.16E-02	5.28E-01
TAC1	Protachykinin-1	1.22 (1.35-1.08)	3.48E-03	1.01 (0.92-1.1)	8.69E-01	-2.33	2.00E-02	5.28E-01
NFKB1	Nuclear factor NF-kappa-B p105 subunit	0.87 (1.02-0.72)	7.65E-02	1.07 (0.99-1.15)	9.85E-02	2.33	1.97E-02	5.28E-01
JUN	Transcription factor AP-1	0.88 (1.05-0.71)	1.51E-01	1.1 (1.01-1.2)	3.58E-02	2.23	2.60E-02	5.31E-01
PTK2B	Protein-tyrosine kinase 2-beta	1.24 (1.36-1.12)	4.97E-04	1.01 (0.88-1.15)	9.22E-01	-2.23	2.58E-02	5.31E-01
SLC14A2	Urea transporter 2	1.27 (1.38-1.16)	1.87E-05	1.1 (1.03-1.17)	3.45E-03	-2.23	2.60E-02	5.31E-01
SAP18	Histone deacetylase complex subunit SAP18	1.16 (1.28-1.05)	1.14E-02	0.99 (0.91-1.07)	7.50E-01	-2.22	2.62E-02	5.31E-01
CDH1	Cadherin-1	0.82 (0.98-0.66)	1.38E-02	1.02 (0.91-1.15)	6.97E-01	2.23	2.61E-02	5.31E-01
DCN	Decorin	1.09 (1.25-0.93)	2.96E-01	1.33 (1.24-1.43)	2.77E-15	2.23	2.57E-02	5.31E-01

ANGPT1	Angiopoietin-1	1 (1.15-0.85)	9.68E-01	1.23 (1.12-1.35)	3.22E-05	2.24	2.53E-02	5.31E-01
CDH5	Cadherin-5	0.9 (1.07-0.73)	2.38E-01	1.12 (1.03-1.22)	8.14E-03	2.24	2.54E-02	5.31E-01
WIF1	Wnt inhibitory factor 1	0.81 (0.99-0.63)	2.47E-02	1.05 (0.92-1.2)	4.72E-01	2.24	2.54E-02	5.31E-01
CD22	B-cell receptor CD22	0.75 (0.93-0.57)	1.42E-03	0.94 (0.87-1.02)	1.31E-01	2.26	2.37E-02	5.31E-01
CA10	Carbonic anhydrase-related protein 10	0.8 (0.97-0.62)	1.13E-02	1.01 (0.91-1.12)	8.72E-01	2.24	2.54E-02	5.31E-01
C6	Complement component C6	0.74 (0.93-0.55)	1.62E-03	0.98 (0.83-1.14)	7.52E-01	2.23	2.60E-02	5.31E-01
BIRC3	Baculoviral IAP repeat-containing protein 3	1.15 (1.27-1.04)	1.63E-02	0.98 (0.91-1.06)	6.78E-01	-2.25	2.44E-02	5.31E-01
SEMA6A	Semaphorin-6A	0.95 (1.11-0.79)	5.33E-01	1.17 (1.07-1.29)	6.40E-04	2.25	2.45E-02	5.31E-01
FABP3	Fatty acid-binding protein, heart	1.11 (1.3-0.91)	3.24E-01	1.42 (1.3-1.55)	1.59E-15	2.26	2.37E-02	5.31E-01
PSG4	Pregnancy-specific beta-1-glycoprotein 4	0.94 (1.09-0.79)	4.07E-01	1.14 (1.05-1.25)	2.73E-03	2.23	2.59E-02	5.31E-01
C1orf56	Protein MENT	0.92 (1.09-0.75)	3.51E-01	0.74 (0.67-0.8)	6.67E-12	-2.27	2.29E-02	5.31E-01
MEP1B	Meprin A subunit beta	0.75 (0.94-0.57)	2.77E-03	0.95 (0.88-1.03)	2.22E-01	2.27	2.34E-02	5.31E-01
RMDN1	Regulator of microtubule dynamics protein 1	1.33 (1.47-1.19)	7.07E-05	1.1 (1.02-1.19)	2.02E-02	-2.27	2.30E-02	5.31E-01
YWHAQ	14-3-3 protein theta	1.13 (1.25-1.02)	3.46E-02	0.96 (0.88-1.05)	3.55E-01	-2.25	2.45E-02	5.31E-01
SH3BP2	SH3 domain-binding protein 2	1.2 (1.3-1.11)	1.19E-04	1.05 (0.99-1.12)	1.01E-01	-2.25	2.44E-02	5.31E-01
TPST2	Protein-tyrosine sulfotransferase 2	0.9 (1.06-0.74)	1.98E-01	1.14 (1-1.29)	4.19E-02	2.25	2.42E-02	5.31E-01
TFF2	Trefoil factor 2	1.51 (1.65-1.36)	6.28E-08	1.22 (1.09-1.36)	4.38E-04	-2.26	2.38E-02	5.31E-01
UMOD	Uromodulin	1.12 (1.22-1.02)	2.33E-02	1.31 (1.19-1.44)	3.36E-08	2.23	2.54E-02	5.31E-01
DIRAS3	GTP-binding protein Di-Ras3	1.2 (1.33-1.08)	4.14E-03	1.01 (0.93-1.1)	7.91E-01	-2.22	2.63E-02	5.32E-01
LYZ	Lysozyme C	1.32 (1.46-1.18)	1.07E-04	1.11 (1.05-1.18)	3.14E-04	-2.22	2.64E-02	5.32E-01
NCR2	Natural cytotoxicity triggering receptor 2	0.87 (1.03-0.71)	9.57E-02	1.06 (0.99-1.14)	8.91E-02	2.22	2.66E-02	5.34E-01
MANF	Mesencephalic astrocyte-derived neurotrophic factor	0.94 (1.12-0.77)	4.90E-01	1.17 (1.08-1.26)	6.91E-05	2.21	2.69E-02	5.36E-01
LRRC32	Leucine-rich repeat-containing protein 32	0.95 (1.08-0.82)	4.06E-01	1.27 (1.01-1.6)	3.87E-02	2.21	2.72E-02	5.39E-01
OLFM2	Noelin-2	0.91 (1.04-0.78)	1.70E-01	1.09 (1-1.19)	5.18E-02	2.21	2.72E-02	5.39E-01
UNC5D	Netrin receptor UNC5D	1.12 (1.21-1.04)	8.79E-03	0.96 (0.85-1.07)	4.44E-01	-2.2	2.76E-02	5.44E-01
RAB22A	Ras-related protein Rab-22A	1.2 (1.32-1.07)	4.62E-03	1.02 (0.94-1.1)	6.41E-01	-2.2	2.79E-02	5.45E-01
SEMA6B	Semaphorin-6B	1.09 (1.24-0.94)	2.66E-01	1.32 (1.22-1.42)	4.48E-12	2.2	2.78E-02	5.45E-01
ACHE	Acetylcholinesterase	0.93 (1.08-0.78)	3.60E-01	1.13 (1.04-1.22)	3.52E-03	2.19	2.87E-02	5.46E-01
NOVA1	RNA-binding protein Nova-1	1.11 (1.23-0.98)	1.09E-01	0.94 (0.87-1.02)	1.25E-01	-2.18	2.92E-02	5.46E-01
ITGB2	Integrin beta-2	1.1 (1.21-0.99)	9.40E-02	0.92 (0.81-1.03)	1.54E-01	-2.18	2.93E-02	5.46E-01

IL20RB	Interleukin-20 receptor subunit beta	0.86 (1.01-0.72)	5.73E-02	1.05 (0.96-1.16)	2.75E-01	2.19	2.85E-02	5.46E-01
F8	Coagulation Factor VIII	0.94 (1.11-0.78)	4.76E-01	1.18 (1.05-1.34)	7.82E-03	2.18	2.93E-02	5.46E-01
SPOP	Speckle-type POZ protein	0.76 (1.03-0.48)	4.79E-02	1.05 (0.95-1.15)	3.39E-01	2.18	2.93E-02	5.46E-01
NTRK3	NT-3 growth factor receptor	0.87 (1.03-0.72)	8.60E-02	1.11 (0.96-1.29)	1.67E-01	2.19	2.83E-02	5.46E-01
PFDN5	Prefoldin subunit 5	0.92 (1.11-0.73)	3.81E-01	1.15 (1.07-1.24)	2.70E-04	2.18	2.93E-02	5.46E-01
FAM163A	Protein FAM163A	1.18 (1.36-1)	6.57E-02	1.47 (1.35-1.61)	1.57E-17	2.18	2.90E-02	5.46E-01
TNFSF4	Tumor necrosis factor ligand superfamily member 4	0.74 (0.94-0.54)	3.73E-03	0.95 (0.86-1.06)	3.66E-01	2.18	2.95E-02	5.47E-01
PAPPA2	Pappalysin-2	1.11 (1.21-1.01)	4.04E-02	0.96 (0.88-1.05)	3.48E-01	-2.17	2.96E-02	5.48E-01
OXT	Oxytocin-neurophysin 1	0.9 (1.08-0.72)	2.44E-01	1.11 (1.03-1.2)	3.92E-03	2.17	2.98E-02	5.49E-01
KLK13	Kallikrein-13	0.65 (0.9-0.4)	8.24E-04	0.87 (0.8-0.95)	1.41E-03	2.17	3.03E-02	5.51E-01
STAB2	Stabilin-2	0.77 (0.92-0.62)	5.82E-04	0.95 (0.84-1.06)	3.43E-01	2.16	3.05E-02	5.51E-01
SELE	E-selectin	0.93 (1.12-0.74)	4.42E-01	1.16 (1.07-1.26)	3.28E-04	2.16	3.05E-02	5.51E-01
MSLN	Mesothelin	0.75 (0.98-0.53)	1.48E-02	0.99 (0.9-1.1)	8.71E-01	2.17	3.03E-02	5.51E-01
BMX	Cytoplasmic tyrosine-protein kinase BMX	0.9 (1.04-0.75)	1.26E-01	1.06 (1-1.13)	5.22E-02	2.16	3.08E-02	5.54E-01
RRAS2	Ras-related protein R-Ras2	1.15 (1.27-1.03)	2.07E-02	0.99 (0.93-1.06)	8.01E-01	-2.15	3.13E-02	5.57E-01
GAS1	Growth arrest-specific protein 1	1.49 (1.64-1.34)	2.04E-07	1.24 (1.15-1.33)	8.62E-09	-2.16	3.11E-02	5.57E-01
WSCD2	WSC domain-containing protein 2	1.23 (1.34-1.12)	2.68E-04	1.06 (0.97-1.14)	1.83E-01	-2.15	3.14E-02	5.57E-01
C4A, C4B	Complement C4	0.75 (0.92-0.58)	6.76E-04	1.02 (0.81-1.27)	8.94E-01	2.15	3.19E-02	5.59E-01
OLFM1	Noelin	1.05 (1.16-0.94)	3.96E-01	1.2 (1.14-1.28)	4.73E-10	2.15	3.19E-02	5.59E-01
IL21R	Interleukin-21 receptor	1.22 (1.32-1.13)	2.28E-05	1.08 (1.02-1.15)	1.31E-02	-2.15	3.18E-02	5.59E-01
NUDT9	ADP-ribose pyrophosphatase, mitochondrial	1.24 (1.39-1.08)	6.69E-03	1.02 (0.94-1.11)	6.46E-01	-2.14	3.20E-02	5.59E-01
APPL1	DCC-interacting protein 13-alpha	1.15 (1.23-1.07)	6.35E-04	1.02 (0.95-1.1)	5.09E-01	-2.14	3.24E-02	5.64E-01
KRAS	GTPase KRas	1.08 (1.21-0.94)	2.82E-01	0.89 (0.79-1)	4.43E-02	-2.14	3.27E-02	5.64E-01
CAMP	Cathelicidin antimicrobial peptide	1.04 (1.21-0.87)	6.49E-01	0.84 (0.77-0.92)	1.85E-04	-2.14	3.26E-02	5.64E-01
CCBE1	Collagen and calcium-binding EGF domain-containing protein 1	1.08 (1.22-0.93)	3.02E-01	0.85 (0.71-1)	5.56E-02	-2.13	3.32E-02	5.67E-01
RBM23	Probable RNA-binding protein 23	1.23 (1.33-1.12)	9.46E-05	1.07 (0.99-1.15)	7.56E-02	-2.13	3.33E-02	5.67E-01
ERVV-1	Endogenous retrovirus group V member 1 Env polyprotein	0.78 (0.99-0.58)	2.25E-02	1 (0.92-1.08)	9.82E-01	2.13	3.35E-02	5.67E-01

MAGEA3	Melanoma-associated antigen 3	1.16 (1.28-1.04)	1.55E-02	0.98 (0.89-1.08)	6.87E-01	-2.12	3.38E-02	5.67E-01
EGFR	Epidermal growth factor receptor	0.75 (0.93-0.58)	1.67E-03	0.93 (0.86-1.02)	1.12E-01	2.13	3.33E-02	5.67E-01
FGF5	Fibroblast growth factor 5	1.18 (1.33-1.04)	2.39E-02	0.99 (0.92-1.07)	8.05E-01	-2.12	3.38E-02	5.67E-01
HINT2	Histidine triad nucleotide-binding protein 2, mitochondrial	1.09 (1.18-0.99)	8.55E-02	0.93 (0.84-1.04)	1.91E-01	-2.12	3.36E-02	5.67E-01
ABHD14A	Alpha/beta hydrolase domain-containing protein 14A	1.39 (1.56-1.23)	6.96E-05	1.14 (1.05-1.24)	2.17E-03	-2.13	3.33E-02	5.67E-01
GPC3	Glypican-3	1.01 (1.15-0.88)	8.44E-01	1.18 (1.12-1.25)	1.61E-09	2.12	3.43E-02	5.71E-01
IFNA6	Interferon alpha-6	1.14 (1.23-1.04)	6.60E-03	0.99 (0.9-1.08)	7.98E-01	-2.12	3.43E-02	5.71E-01
EPHA10	Ephrin type-A receptor 10	1.34 (1.45-1.23)	3.15E-07	1.17 (1.1-1.24)	1.30E-07	-2.11	3.44E-02	5.71E-01
ZG16	Zymogen granule membrane protein 16	0.9 (1.05-0.75)	1.84E-01	1.07 (1.01-1.14)	1.42E-02	2.11	3.49E-02	5.77E-01
FAAH2	Fatty-acid amide hydrolase 2	0.74 (1.07-0.42)	7.31E-02	1.06 (0.98-1.15)	1.25E-01	2.11	3.51E-02	5.78E-01
FAM107A	Protein FAM107A	0.75 (0.95-0.54)	5.66E-03	0.95 (0.87-1.03)	2.34E-01	2.1	3.58E-02	5.86E-01
IFNA2	Interferon alpha-2	0.64 (0.88-0.41)	2.35E-04	0.85 (0.77-0.93)	9.39E-04	2.1	3.57E-02	5.86E-01
AMIGO1	Amphoterin-induced protein 1	0.85 (1.02-0.69)	6.23E-02	1.04 (0.96-1.13)	3.37E-01	2.1	3.60E-02	5.87E-01
TEX29	Testis-expressed sequence 29 protein	1.18 (1.28-1.08)	8.89E-04	1.03 (0.94-1.12)	5.47E-01	-2.09	3.65E-02	5.89E-01
PLAU	Urokinase-type plasminogen activator	0.92 (1.07-0.76)	2.78E-01	1.11 (1.02-1.19)	1.16E-02	2.09	3.64E-02	5.89E-01
ATP1B2	Sodium/potassium-transporting ATPase subunit beta-2	0.99 (1.16-0.82)	9.22E-01	1.22 (1.11-1.34)	5.54E-05	2.09	3.64E-02	5.89E-01
SPR	Sepiapterin reductase	0.81 (1.01-0.62)	3.87E-02	1.03 (0.93-1.14)	5.82E-01	2.09	3.67E-02	5.90E-01
PPM1A	Protein phosphatase 1A	0.96 (1.07-0.85)	4.82E-01	1.12 (1.02-1.22)	1.40E-02	2.08	3.76E-02	5.95E-01
GPR107	Protein GPR107	0.76 (1-0.52)	2.71E-02	1 (0.93-1.07)	9.06E-01	2.08	3.71E-02	5.95E-01
AGAP2	Arf-GAP with GTPase, ANK repeat and PH domain-containing protein 2	1.18 (1.36-1)	7.01E-02	0.96 (0.88-1.04)	2.97E-01	-2.08	3.73E-02	5.95E-01
PVRL2	Nectin-2	1.24 (1.35-1.13)	1.18E-04	1.09 (1.03-1.15)	4.54E-03	-2.08	3.79E-02	5.95E-01
CLPSL2	Colipase-like protein 2	1.05 (1.2-0.9)	4.94E-01	0.88 (0.81-0.95)	2.43E-03	-2.08	3.73E-02	5.95E-01
HNF4A	Hepatocyte nuclear factor 4-alpha	1.1 (1.3-0.89)	3.89E-01	0.86 (0.78-0.95)	2.74E-03	-2.07	3.87E-02	5.96E-01
PSMD4	26S proteasome non-ATPase regulatory subunit 4	1.2 (1.29-1.12)	1.65E-05	1.03 (0.91-1.16)	6.21E-01	-2.07	3.84E-02	5.96E-01
ROBO2	Roundabout homolog 2	1.08 (1.26-0.9)	3.77E-01	1.35 (1.22-1.49)	3.49E-09	2.07	3.80E-02	5.96E-01
ROBO1	Roundabout homolog 1	0.94 (1.09-0.78)	3.90E-01	1.12 (1.04-1.21)	4.57E-03	2.07	3.82E-02	5.96E-01

RBP4	Retinol-binding protein 4	1.12 (1.3-0.95)	1.97E-01	0.91 (0.83-1)	5.01E-02	-2.07	3.85E-02	5.96E-01
BST2	Bone marrow stromal antigen 2	1.18 (1.31-1.06)	7.39E-03	0.99 (0.88-1.11)	8.82E-01	-2.07	3.86E-02	5.96E-01
SRSF6	Serine/arginine-rich splicing factor 6	1.41 (1.59-1.23)	1.77E-04	1.15 (1.06-1.24)	7.07E-04	-2.06	3.95E-02	5.98E-01
CNTN2	Contactin-2	0.85 (1.03-0.67)	8.46E-02	1.05 (0.97-1.13)	2.24E-01	2.06	3.94E-02	5.98E-01
C1QL2	Complement C1q-like protein 2	1.04 (1.18-0.9)	5.87E-01	1.23 (1.15-1.31)	1.89E-09	2.06	3.91E-02	5.98E-01
FMR1	Fragile X mental retardation protein 1	0.75 (0.9-0.59)	1.72E-04	0.94 (0.8-1.1)	4.42E-01	2.06	3.95E-02	5.98E-01
PPT1	Palmitoyl-protein thioesterase 1	1.06 (1.21-0.9)	4.95E-01	1.27 (1.17-1.39)	4.89E-08	2.06	3.94E-02	5.98E-01
HNRNPA2B1	Heterogeneous nuclear ribonucleoproteins A2/B1	1.33 (1.48-1.18)	1.61E-04	1.12 (1.03-1.21)	5.65E-03	-2.06	3.99E-02	6.01E-01
PLOD3	Procollagen-lysine,2-oxoglutarate 5-dioxygenase 3	1.06 (1.21-0.9)	4.76E-01	1.27 (1.16-1.4)	1.59E-07	2.04	4.16E-02	6.02E-01
RUVBL1	RuvB-like 1	1.26 (1.46-1.06)	2.24E-02	1 (0.91-1.1)	9.53E-01	-2.04	4.13E-02	6.02E-01
SORBS3	Vinexin b	1.16 (1.27-1.05)	1.05E-02	1.01 (0.96-1.08)	6.37E-01	-2.04	4.13E-02	6.02E-01
FAM159A	Membrane protein FAM159A	1.16 (1.26-1.05)	9.17E-03	0.99 (0.9-1.09)	8.64E-01	-2.04	4.13E-02	6.02E-01
ICAM3	Intercellular adhesion molecule 3	0.74 (0.96-0.51)	8.06E-03	0.95 (0.87-1.05)	3.12E-01	2.05	4.01E-02	6.02E-01
LCN2	Neutrophil gelatinase-associated lipocalin	1.18 (1.28-1.07)	2.42E-03	1.03 (0.95-1.11)	5.28E-01	-2.04	4.14E-02	6.02E-01
OLR1	Oxidized low-density lipoprotein receptor 1	1.23 (1.39-1.07)	1.00E-02	1.02 (0.94-1.11)	6.13E-01	-2.05	4.08E-02	6.02E-01
CXCL10	C-X-C motif chemokine 10	0.95 (1.12-0.77)	5.27E-01	1.21 (1.03-1.43)	2.02E-02	2.05	4.07E-02	6.02E-01
PLBD1	Phospholipase B-like 1	0.85 (1.01-0.68)	5.00E-02	1.03 (0.95-1.11)	5.12E-01	2.05	4.04E-02	6.02E-01
IGSF8	Immunoglobulin superfamily member 8	1.1 (1.2-1.01)	4.49E-02	0.95 (0.85-1.06)	3.45E-01	-2.04	4.13E-02	6.02E-01
PCDH10	Protocadherin-10	0.81 (0.95-0.68)	2.88E-03	0.96 (0.88-1.05)	3.88E-01	2.05	4.07E-02	6.02E-01
ADAM19	Disintegrin and metalloproteinase domain-containing protein 19	0.79 (0.99-0.59)	2.29E-02	0.99 (0.91-1.08)	8.91E-01	2.04	4.15E-02	6.02E-01
C17orf89	Uncharacterized protein C17orf89	0.93 (1.08-0.79)	3.57E-01	1.12 (1.01-1.24)	2.55E-02	2.04	4.18E-02	6.02E-01
FKBP14	Peptidyl-prolyl cis-trans isomerase FKBP14	1.17 (1.25-1.1)	3.88E-05	1 (0.88-1.14)	9.86E-01	-2.03	4.19E-02	6.02E-01
NRXN3	Neurexin-3-beta	0.74 (0.89-0.59)	1.03E-04	0.94 (0.79-1.13)	5.16E-01	2.04	4.18E-02	6.02E-01
NPW	Neuropeptide W	0.87 (1.01-0.72)	5.15E-02	1.04 (0.94-1.14)	4.47E-01	2.04	4.09E-02	6.02E-01
TLR1	Toll-like receptor 1	1.07 (1.28-0.86)	5.17E-01	0.84 (0.76-0.94)	2.08E-03	-2	4.50E-02	6.03E-01
MYB	Transcriptional activator Myb	1.08 (1.26-0.89)	4.25E-01	0.86 (0.76-0.97)	1.48E-02	-2.01	4.43E-02	6.03E-01

CHST9	Carbohydrate sulfotransferase 9	1.02 (1.17-0.86)	8.35E-01	1.21 (1.14-1.29)	1.60E-09	2.03	4.24E-02	6.03E-01
FXN	Frataxin, mitochondrial	1.16 (1.34-0.97)	1.32E-01	0.94 (0.86-1.02)	1.16E-01	-2.01	4.42E-02	6.03E-01
C12orf5	Fructose-2,6-bisphosphatase TIGAR	1.08 (1.21-0.95)	2.37E-01	0.92 (0.84-1.01)	6.92E-02	-2.01	4.40E-02	6.03E-01
TMEM132D	Transmembrane protein 132D	0.95 (1.14-0.75)	5.99E-01	1.17 (1.11-1.23)	7.46E-09	2.01	4.41E-02	6.03E-01
PLAT	Tissue-type plasminogen activator	0.84 (1.02-0.67)	6.39E-02	1.03 (0.95-1.12)	4.14E-01	2.03	4.29E-02	6.03E-01
ROR1	Tyrosine-protein kinase transmembrane receptor ROR1	1.32 (1.51-1.14)	3.40E-03	1.07 (1-1.16)	6.22E-02	-2.03	4.24E-02	6.03E-01
CTSA	Lysosomal protective protein	0.92 (1.05-0.79)	1.91E-01	1.08 (0.99-1.19)	9.68E-02	2.03	4.26E-02	6.03E-01
TBK1	Serine/threonine-protein kinase TBK1	0.9 (1.06-0.75)	1.95E-01	1.08 (1-1.17)	5.65E-02	2.02	4.35E-02	6.03E-01
PTPN6	Tyrosine-protein phosphatase non-receptor type 6	1.32 (1.46-1.18)	1.26E-04	1.11 (1.02-1.21)	1.16E-02	-2.01	4.48E-02	6.03E-01
IL34	Interleukin-34	0.74 (0.91-0.58)	3.27E-04	0.9 (0.82-0.98)	1.55E-02	2.01	4.44E-02	6.03E-01
TNFRSF13C	Tumor necrosis factor receptor superfamily member 13C	1.04 (1.21-0.86)	6.87E-01	0.84 (0.76-0.93)	9.76E-04	-2.01	4.40E-02	6.03E-01
CLEC3B	Tetranectin	0.67 (0.86-0.48)	4.04E-05	0.83 (0.76-0.91)	9.59E-05	2.01	4.48E-02	6.03E-01
CEND1	Cell cycle exit and neuronal differentiation protein 1	0.95 (1.1-0.81)	5.20E-01	1.12 (1.05-1.2)	7.86E-04	2.01	4.44E-02	6.03E-01
B3GALT6	Beta-1,3-galactosyltransferase 6	0.84 (1.02-0.67)	5.49E-02	1.02 (0.95-1.09)	5.51E-01	2.01	4.48E-02	6.03E-01
NLGN1	Neuroligin-1	1.02 (1.17-0.87)	7.95E-01	1.21 (1.12-1.31)	1.56E-06	2.03	4.26E-02	6.03E-01
APOH	Beta-2-glycoprotein 1	0.89 (1.01-0.77)	5.03E-02	1.03 (0.95-1.13)	4.49E-01	2.03	4.26E-02	6.03E-01
GAL3ST1	Galactosylceramide sulfotransferase	0.74 (0.9-0.59)	2.44E-04	0.91 (0.81-1.03)	1.29E-01	2.02	4.37E-02	6.03E-01
CD70	CD70 antigen	0.77 (1.06-0.47)	7.36E-02	1.04 (0.97-1.12)	2.46E-01	2.01	4.41E-02	6.03E-01
BDP1	Transcription factor TFIIIB component B" homolog	1.06 (1.23-0.89)	4.96E-01	0.87 (0.79-0.95)	2.97E-03	-2.02	4.31E-02	6.03E-01
ANKRD27	Ankyrin repeat domain-containing protein 27	1.03 (1.2-0.87)	7.05E-01	0.85 (0.77-0.94)	8.95E-04	-1.99	4.62E-02	6.05E-01
FOLH1	Glutamate carboxypeptidase 2	0.79 (0.93-0.65)	7.08E-04	0.95 (0.84-1.08)	4.43E-01	1.99	4.61E-02	6.05E-01
FAM171A1	Protein FAM171A1	0.81 (1.08-0.55)	1.24E-01	1.07 (1-1.15)	4.55E-02	2	4.55E-02	6.05E-01
SEMA3G	Semaphorin-3G	0.8 (0.99-0.62)	1.98E-02	0.99 (0.9-1.09)	8.61E-01	2	4.57E-02	6.05E-01
CHRDL2	Chordin-like protein 2	1.11 (1.3-0.93)	2.57E-01	1.38 (1.26-1.5)	9.30E-13	2	4.53E-02	6.05E-01
QSOX1	Sulfhydryl oxidase 1	1.33 (1.46-1.2)	2.28E-05	1.55 (1.43-1.67)	8.54E-30	2	4.59E-02	6.05E-01
C10orf10	Protein DEPP	0.78 (0.93-0.64)	9.53E-04	0.93 (0.86-1.01)	6.70E-02	1.99	4.61E-02	6.05E-01
PCDHB7	Protocadherin beta-7	0.76 (0.94-0.58)	3.34E-03	0.93 (0.86-1.01)	7.36E-02	2	4.56E-02	6.05E-01

LRRC25	Leucine-rich repeat-containing protein 25	1.1 (1.24-0.96)	1.69E-01	0.93 (0.85-1.02)	1.25E-01	-1.99	4.61E-02	6.05E-01
GCNT4	Beta-1,3-galactosyl-O-glycosyl-glycoprotein beta-1,6-N-acetylglucosaminyltransferase 4	0.75 (0.91-0.59)	4.93E-04	0.91 (0.82-1.02)	9.51E-02	1.99	4.68E-02	6.06E-01
AHSG	Alpha-2-HS-glycoprotein	0.79 (0.96-0.63)	5.35E-03	0.95 (0.88-1.04)	2.86E-01	1.99	4.69E-02	6.06E-01
BCL2L1	Bcl-2-like protein 1	0.77 (0.92-0.62)	6.84E-04	0.93 (0.83-1.05)	2.55E-01	1.99	4.66E-02	6.06E-01
APOC3	Apolipoprotein C-III	1.03 (1.22-0.84)	7.36E-01	0.83 (0.76-0.92)	1.91E-04	-1.99	4.69E-02	6.06E-01
DDX39B	Spliceosome RNA helicase DDX39B	1.31 (1.45-1.16)	3.53E-04	1.1 (1.01-1.2)	2.15E-02	-1.99	4.65E-02	6.06E-01
SRSF7	Serine/arginine-rich splicing factor 7	1.33 (1.48-1.18)	2.14E-04	1.12 (1.04-1.21)	4.29E-03	-1.99	4.71E-02	6.07E-01
KRT72	Keratin, type II cytoskeletal 72	1.12 (1.28-0.96)	1.67E-01	0.94 (0.87-1.01)	9.58E-02	-1.97	4.91E-02	6.11E-01
GMEB2	Glucocorticoid modulatory element-binding protein 2	1.25 (1.37-1.12)	4.92E-04	1.07 (0.99-1.16)	8.95E-02	-1.97	4.87E-02	6.11E-01
DCUN1D3	DCN1-like protein 3	1.17 (1.27-1.07)	1.38E-03	1.02 (0.92-1.12)	6.94E-01	-1.97	4.85E-02	6.11E-01
GHR	Growth hormone receptor	0.68 (0.84-0.53)	9.40E-07	0.83 (0.73-0.94)	3.41E-03	1.96	4.98E-02	6.11E-01
SELP	P-selectin	0.87 (1.03-0.72)	8.39E-02	1.07 (0.94-1.21)	3.20E-01	1.97	4.92E-02	6.11E-01
PSME1	Proteasome activator complex subunit 1	1.17 (1.28-1.05)	8.49E-03	1.02 (0.94-1.1)	7.00E-01	-1.98	4.80E-02	6.11E-01
CUEDC2	CUE domain-containing protein 2	0.84 (1.02-0.65)	5.67E-02	1.02 (0.94-1.11)	5.73E-01	1.97	4.91E-02	6.11E-01
APLN	Apelin	1.06 (1.18-0.93)	4.05E-01	0.9 (0.82-0.99)	3.29E-02	-1.96	4.96E-02	6.11E-01
BCL2L10	Bcl-2-like protein 10	0.76 (0.91-0.6)	4.33E-04	0.94 (0.81-1.09)	4.27E-01	1.96	4.96E-02	6.11E-01
PRDX4	Peroxiredoxin-4	1.13 (1.23-1.04)	1.04E-02	0.97 (0.87-1.09)	6.53E-01	-1.97	4.89E-02	6.11E-01
CD96	T-cell surface protein tactile	1.08 (1.2-0.96)	1.96E-01	0.92 (0.84-1.02)	1.25E-01	-1.98	4.78E-02	6.11E-01

RR, rate ratio