

Supplementary Table 1: The list of genes associated with platelet count retrieved from the Open Target Genetics platform (<https://genetics.opentargets.org>)

Gene symbol	Gene name
GCSAML	germinal center associated signaling and motility like
SH2B3	SH2B adaptor protein 3
ARHGEF3	Rho guanine nucleotide exchange factor 3
HBS1L	HBS1 like translational GTPase
THPO	thrombopoietin
JAK2	Janus kinase 2
BAK1	BCL2 antagonist/killer 1
RCL1	RNA terminal phosphate cyclase like 1
TUBB1	tubulin beta 1 class VI
DNM3	dynamamin 3
GCKR	glucokinase regulator
ABCC4	ATP binding cassette subfamily C member 4
JMJD1C	jumonji domain containing 1C
HIC1	HIC ZBTB transcriptional repressor 1
CARMIL1	capping protein regulator and myosin 1 linker 1
LY75	lymphocyte antigen 75
CBL	Cbl proto-oncogene
SLFN14	schlafen family member 14
RASSF3	Ras association domain family member 3
ZFPM2	zinc finger protein, FOG family member 2
CABLES1	Cdk5 and Abl enzyme substrate 1
LY75-CD302	LY75-CD302 readthrough
ACTN1	actinin alpha 1
MARK4	microtubule affinity regulating kinase 4
AK3	adenylate kinase 3
RCOR1	REST corepressor 1
CD36	CD36 molecule
FABP6	fatty acid binding protein 6
GP1BA	glycoprotein Ib platelet subunit alpha
AC069368.1	novel pleckstrin homology domain containing, family O member 2 (PLEKHO2) and ankyrin repeat and death domain containing 1A (ANKDD1A) protein
ATXN2	ataxin 2
TRABD	TraB domain containing
TPM4	tropomyosin 4
GFI1B	growth factor independent 1B transcriptional repressor
TERT	telomerase reverse transcriptase
EGF	epidermal growth factor

NREP	neuronal regeneration related protein
CHRNE	cholinergic receptor nicotinic epsilon subunit
PNPLA3	patatin like phospholipase domain containing 3
PLEC	plectin
TAOK1	TAO kinase 1
CDKN2A	cyclin dependent kinase inhibitor 2A
EHD3	EH domain containing 3
TRIM58	tripartite motif containing 58
ZBTB16	zinc finger and BTB domain containing 16
FAR2	fatty acyl-CoA reductase 2
EXOC3L4	exocyst complex component 3 like 4
GSE1	Gse1 coiled-coil protein
RAD51B	RAD51 paralog B
ZFPM1	zinc finger protein, FOG family member 1
POLR2H	RNA polymerase II subunit H
TPM1	tropomyosin 1
NDFIP1	Nedd4 family interacting protein 1
PDIA5	protein disulfide isomerase family A member 5
NINJ2	ninjurin 2
MAP1A	microtubule associated protein 1A
ZFP36L2	ZFP36 ring finger protein like 2
7-Mar	membrane associated ring-CH-type finger 7
APOH	apolipoprotein H
CPS1	carbamoyl-phosphate synthase 1
TBC1D14	TBC1 domain family member 14
CCDC71L	coiled-coil domain containing 71 like
WASL	WASP like actin nucleation promoting factor
BRF1	BRF1 RNA polymerase III transcription initiation factor subunit
S1PR3	sphingosine-1-phosphate receptor 3
SNHG32	small nucleolar RNA host gene 32
PHETA1	PH domain containing endocytic trafficking adaptor 1
TECPR2	tectonin beta-propeller repeat containing 2
TMEM120B	transmembrane protein 120B
RHCE	Rh blood group CcEe antigens
APOBR	apolipoprotein B receptor
ODF3	outer dense fiber of sperm tails 3
BCL2L1	BCL2 like 1
SPINT2	serine peptidase inhibitor, Kunitz type 2
ST5	suppression of tumorigenicity 5
C11orf65	chromosome 11 open reading frame 65
VSTM4	V-set and transmembrane domain containing 4
REEP3	receptor accessory protein 3
ERG	ETS transcription factor ERG

FADS1	fatty acid desaturase 1
LHFPL2	LHFPL tetraspan subfamily member 2
RNPEPL1	arginyl aminopeptidase like 1
GRTP1	growth hormone regulated TBC protein 1
RHOF	ras homolog family member F, filopodia associated
BUD13	BUD13 homolog
USP30	ubiquitin specific peptidase 30
ETS1	ETS proto-oncogene 1, transcription factor
ZSWIM6	zinc finger SWIM-type containing 6
CAPZA1	capping actin protein of muscle Z-line subunit alpha 1
KCTD20	potassium channel tetramerization domain containing 20
NAA25	N(alpha)-acetyltransferase 25, NatB auxiliary subunit
SLC25A11	solute carrier family 25 member 11
ATP13A1	ATPase 13A1
MYLK2	myosin light chain kinase 2
PACSIN2	protein kinase C and casein kinase substrate in neurons 2
BRAP	BRCA1 associated protein
PLOD1	procollagen-lysine,2-oxoglutarate 5-dioxygenase 1
FRYL	FRY like transcription coactivator
MOV10L1	Mov10 like RISC complex RNA helicase 1
TESK2	testis associated actin remodelling kinase 2
SMG6	SMG6 nonsense mediated mRNA decay factor
TP53BP1	tumor protein p53 binding protein 1
UHRF1BP1	UHRF1 binding protein 1
HDAC7	histone deacetylase 7
HSD17B6	hydroxysteroid 17-beta dehydrogenase 6
AP2B1	adaptor related protein complex 2 subunit beta 1
ITGA2B	integrin subunit alpha 2b
PTPRC	protein tyrosine phosphatase receptor type C
GNA12	G protein subunit alpha 12
CDKN2B	cyclin dependent kinase inhibitor 2B
TMEM116	transmembrane protein 116
MECOM	MDS1 and EVI1 complex locus
COPZ1	coatmer protein complex subunit zeta 1
TSC22D4	TSC22 domain family member 4
TINF2	TERF1 interacting nuclear factor 2
CD9	CD9 molecule
DLK1	delta like non-canonical Notch ligand 1
PPARG	peroxisome proliferator activated receptor gamma
ZNF444	zinc finger protein 444
PURB	purine rich element binding protein B
RALB	RAS like proto-oncogene B
HEMGN	hemogen

SETBP1	SET binding protein 1
DDO	D-aspartate oxidase
SATB1	SATB homeobox 1
GSTA1	glutathione S-transferase alpha 1
TMCC2	transmembrane and coiled-coil domain family 2
ABO	ABO, alpha 1-3-N-acetylgalactosaminyltransferase and alpha 1-3-galactosyltransferase
SIPA1	signal-induced proliferation-associated 1
FLI1	Fli-1 proto-oncogene, ETS transcription factor
DOCK8	dedicator of cytokinesis 8
IRS2	insulin receptor substrate 2
ABHD6	abhydrolase domain containing 6
TYK2	tyrosine kinase 2
ARVCF	ARVCF delta catenin family member
REST	RE1 silencing transcription factor
TFR2	transferrin receptor 2
ZC3HC1	zinc finger C3HC-type containing 1
PEAR1	platelet endothelial aggregation receptor 1
CYP26A1	cytochrome P450 family 26 subfamily A member 1
NRF1	nuclear respiratory factor 1
HFE	homeostatic iron regulator
KIAA0232	KIAA0232
MPHOSPH9	M-phase phosphoprotein 9
CAPZA2	capping actin protein of muscle Z-line subunit alpha 2
RAB11FIP3	RAB11 family interacting protein 3
GP1BB	glycoprotein Ib platelet subunit beta
AP1M2	adaptor related protein complex 1 subunit mu 2
MAST4	microtubule associated serine/threonine kinase family member 4
AC090517.4	zinc finger protein 280D
FAM160A1	family with sequence similarity 160 member A1
IGF1R	insulin like growth factor 1 receptor
ALDH2	aldehyde dehydrogenase 2 family member
CUX2	cut like homeobox 2
CASS4	Cas scaffold protein family member 4
MICB	MHC class I polypeptide-related sequence B
SIRPA	signal regulatory protein alpha
SLC22A5	solute carrier family 22 member 5
GPATCH8	G-patch domain containing 8
ZNF367	zinc finger protein 367
NUAK2	NUAK family kinase 2
CD164	CD164 molecule
QKI	QKI, KH domain containing RNA binding
PDYN	prodynorphin

TNFRSF13B	TNF receptor superfamily member 13B
SLC35D2	solute carrier family 35 member D2
ABCC5	ATP binding cassette subfamily C member 5
MYO9B	myosin IXB
BET1L	Bet1 golgi vesicular membrane trafficking protein like
ARHGAP25	Rho GTPase activating protein 25
TBC1D22B	TBC1 domain family member 22B
IFITM2	interferon induced transmembrane protein 2
MEF2C	myocyte enhancer factor 2C
SHB	SH2 domain containing adaptor protein B
NLRP3	NLR family pyrin domain containing 3
PTPN11	protein tyrosine phosphatase non-receptor type 11
BCL2L11	BCL2 like 11
ZNF839	zinc finger protein 839
IRS1	insulin receptor substrate 1
EXD2	exonuclease 3'-5' domain containing 2
PIEZO1	piezo type mechanosensitive ion channel component 1
PTPRH	protein tyrosine phosphatase receptor type H
LINC02694	long intergenic non-protein coding RNA 2694
SPATA18	spermatogenesis associated 18
MN1	MN1 proto-oncogene, transcriptional regulator
INHBE	inhibin subunit beta E
HGFAC	HGF activator
AKAP10	A-kinase anchoring protein 10
IQGAP2	IQ motif containing GTPase activating protein 2
KLHL1	kelch like family member 1
PLCB1	phospholipase C beta 1
PAK2	p21 (RAC1) activated kinase 2
RNF145	ring finger protein 145
MEF2D	myocyte enhancer factor 2D
RGS12	regulator of G protein signaling 12
DIP2B	disco interacting protein 2 homolog B
RUNX1	RUNX family transcription factor 1
PAQR8	progesterone and adiponectin receptor family member 8
EFHC1	EF-hand domain containing 1
RAPSN	receptor associated protein of the synapse
GET1	guided entry of tail-anchored proteins factor 1
PRL	prolactin
PSORS1C1	psoriasis susceptibility 1 candidate 1
BCL2	BCL2 apoptosis regulator
ADGRF2	adhesion G protein-coupled receptor F2
LAPTM5	lysosomal protein transmembrane 5
WDR66	WD repeat domain 66

THADA	THADA armadillo repeat containing
APOC3	apolipoprotein C3
ITPK1	inositol-tetrakisphosphate 1-kinase
ALDH8A1	aldehyde dehydrogenase 8 family member A1
IPP	intracisternal A particle-promoted polypeptide
BRD3	bromodomain containing 3
KALRN	kalirin RhoGEF kinase
GALNT2	polypeptide N-acetylgalactosaminyltransferase 2
BAZ2A	bromodomain adjacent to zinc finger domain 2A
SH2D2A	SH2 domain containing 2A
APOA5	apolipoprotein A5
ZPR1	ZPR1 zinc finger
EWSR1	EWS RNA binding protein 1
TBPL2	TATA-box binding protein like 2
FEN1	flap structure-specific endonuclease 1
ZCCHC24	zinc finger CCHC-type containing 24
ASAP1	ArfGAP with SH3 domain, ankyrin repeat and PH domain 1
EXOC3L2	exocyst complex component 3 like 2
PRTFDC1	phosphoribosyl transferase domain containing 1
RYBP	RING1 and YY1 binding protein
RBPM5	RNA binding protein, mRNA processing factor
APOE	apolipoprotein E
IGF2BP2	insulin like growth factor 2 mRNA binding protein 2
TRIM5	tripartite motif containing 5
TNPO1	transportin 1
SERPINA1	serpin family A member 1
PDGFC	platelet derived growth factor C
TNFSF13B	TNF superfamily member 13b
FAAP20	FA core complex associated protein 20
DUSP14	dual specificity phosphatase 14
FXD5	FXD domain containing ion transport regulator 5
AC011448.1	readthrough between NDUFA13 and YJEFN3
NDUFA13	NADH:ubiquinone oxidoreductase subunit A13
TPM3	tropomyosin 3
SLC44A2	solute carrier family 44 member 2
ETV7	ETS variant 7
KLHL8	kelch like family member 8
PDE5A	phosphodiesterase 5A
PXN	paxillin
MLXIPL	MLX interacting protein like
TET2	tet methylcytosine dioxygenase 2
MXD1	MAX dimerization protein 1
GYPB	glycophorin B (MNS blood group)

CYP3A5	cytochrome P450 family 3 subfamily A member 5
RBMS2	RNA binding motif single stranded interacting protein 2
PICALM	phosphatidylinositol binding clathrin assembly protein
CAVIN2	caveolae associated protein 2
USP7	ubiquitin specific peptidase 7
ACAD10	acyl-CoA dehydrogenase family member 10
TNFRSF1A	TNF receptor superfamily member 1A
EHD4	EH domain containing 4
BTBD2	BTB domain containing 2
PRELID3B	PRELI domain containing 3B
PRPF3	pre-mRNA processing factor 3
RPH3A	rabphilin 3A
MFN2	mitofusin 2
ATP4A	ATPase H ⁺ /K ⁺ transporting subunit alpha
TRPS1	transcriptional repressor GATA binding 1
TBX3	T-box 3
PGD	phosphogluconate dehydrogenase
KLF9	Kruppel like factor 9
BCOR	BCL6 corepressor
MRPL42	mitochondrial ribosomal protein L42
PARP1	poly(ADP-ribose) polymerase 1
SEPTIN5	septin 5
MFSD2A	major facilitator superfamily domain containing 2A
PDS5B	PDS5 cohesin associated factor B
YLP1	YLP motif containing 1
CD33	CD33 molecule
MXI1	MAX interactor 1, dimerization protein
GMCL2	germ cell-less 2, spermatogenesis associated
GPR137	G protein-coupled receptor 137
BAD	BCL2 associated agonist of cell death
FAM171A2	family with sequence similarity 171 member A2
HAVCR1	hepatitis A virus cellular receptor 1
CDC42EP3	CDC42 effector protein 3
GABBR1	gamma-aminobutyric acid type B receptor subunit 1
H1FNT	H1 histone family member N, testis specific
F2R	coagulation factor II thrombin receptor
C5orf67	chromosome 5 open reading frame 67
MEX3C	mex-3 RNA binding family member C
SYK	spleen associated tyrosine kinase
PSMB7	proteasome subunit beta 7
TNFSF10	TNF superfamily member 10
SMLR1	small leucine rich protein 1
SPRY1	sprouty RTK signaling antagonist 1

DNAJC5B	DnaJ heat shock protein family (Hsp40) member C5 beta
EEPD1	endonuclease/exonuclease/phosphatase family domain containing 1
KIT	KIT proto-oncogene, receptor tyrosine kinase
GSTA5	glutathione S-transferase alpha 5
DHX40	DEAH-box helicase 40
ATCB9	ATP binding cassette subfamily B member 9
DPYD	dihydropyrimidine dehydrogenase
NFYC	nuclear transcription factor Y subunit gamma
OR2V2	olfactory receptor family 2 subfamily V member 2
CHRM3	cholinergic receptor muscarinic 3
ALPK2	alpha kinase 2

Supplementary Table 2: The list of genes associated with NAFLD retrieved from the Open Target Genetics platform (<https://genetics.opentargets.org>)

Gene symbol	Gene name
PNPLA3	patatin like phospholipase domain containing 3
SAMM50	SAMM50 sorting and assembly machinery component
GCKR	glucokinase regulator
GATAD2A	GATA zinc finger domain containing 2A
PDE4D	phosphodiesterase 4D
PWWP3A	PWWP domain containing 3A, DNA repair factor
NR1H3	nuclear receptor subfamily 1 group H member 3
ZNF512	zinc finger protein 512
NR3C2	nuclear receptor subfamily 3 group C member 2
CYP26B1	cytochrome P450 family 26 subfamily B member 1
DCLK1	doublecortin like kinase 1
PTPRU	protein tyrosine phosphatase receptor type U
NGF	nerve growth factor
YIPF1	Yip1 domain family member 1
TCF7L2	transcription factor 7 like 2
ST3GAL4	ST3 beta-galactoside alpha-2,3-sialyltransferase 4
HS3ST1	heparan sulfate-glucosamine 3-sulfotransferase 1
ESR1	estrogen receptor 1
GC	GC vitamin D binding protein
LCP1	lymphocyte cytosolic protein 1
SLC38A8	solute carrier family 38 member 8
ADRA2A	adrenoceptor alpha 2A
TIMP2	TIMP metalloproteinase inhibitor 2
BMP6	bone morphogenetic protein 6
ABCB11	ATP binding cassette subfamily B member 11
PLPPR4	phospholipid phosphatase related 4
HLA-DQB1	major histocompatibility complex, class II, DQ beta 1
COL13A1	collagen type XIII alpha 1 chain
FDFT1	farnesyl-diphosphate farnesyltransferase 1
QPCTL	glutaminyl-peptide cyclotransferase like
CRACR2A	calcium release activated channel regulator 2A
SDK1	sidekick cell adhesion molecule 1
PRKCA	protein kinase C alpha
TRAF3	TNF receptor associated factor 3
ADH1C	alcohol dehydrogenase 1C (class I), gamma polypeptide
PALLD	palladin, cytoskeletal associated protein
ETS1	ETS proto-oncogene 1, transcription factor
PZP	PZP alpha-2-macroglobulin like
ALDH8A1	aldehyde dehydrogenase 8 family member A1

AGTR2	angiotensin II receptor type 2
MICB	MHC class I polypeptide-related sequence B
CYP2C9	cytochrome P450 family 2 subfamily C member 9
IL2RA	interleukin 2 receptor subunit alpha
SLC9A9	solute carrier family 9 member A9
EHBP1L1	EH domain binding protein 1 like 1
HERPUD2	HERPUD family member 2
FARP1	FERM, ARH/RhoGEF and pleckstrin domain protein 1
TLCD4-RWDD3	TLCD4-RWDD3 readthrough
NFIC	nuclear factor I C
ST8SIA1	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 1
ACTR5	actin related protein 5
MTRNR2L11	MT-RNR2 like 11
TEX36	testis expressed 36
MACROD2	mono-ADP ribosylhydrolase 2
CACNA2D1	calcium voltage-gated channel auxiliary subunit alpha2delta 1
SEL1L3	SEL1L family member 3
SIK1	salt inducible kinase 1
RAB37	RAB37, member RAS oncogene family
HNRNPA3	heterogeneous nuclear ribonucleoprotein A3
CNTN5	contactin 5
KHDRBS3	KH RNA binding domain containing, signal transduction associated 3
SVIL	supervillin
CHST2	carbohydrate sulfotransferase 2
NUDT4	nudix hydrolase 4
IL18RAP	interleukin 18 receptor accessory protein
FAM174A	family with sequence similarity 174 member A
MRPL39	mitochondrial ribosomal protein L39
PCSK5	proprotein convertase subtilisin/kexin type 5
CDH4	cadherin 4
CDH2	cadherin 2
NDRG2	NDRG family member 2
C1orf94	chromosome 1 open reading frame 94
SLC22A18	solute carrier family 22 member 18
PCSK2	proprotein convertase subtilisin/kexin type 2
SOX17	SRY-box 17
ADAP2	ArfGAP with dual PH domains 2
SGSM2	small G protein signaling modulator 2
IL25	interleukin 25
PKD2L1	polycystin 2 like 1, transient receptor potential cation channel
MSRA	methionine sulfoxide reductase A
SLC22A4	solute carrier family 22 member 4

GABRB3	gamma-aminobutyric acid type A receptor beta3 subunit
RAB11B	RAB11B, member RAS oncogene family
ATP13A2	ATPase cation transporting 13A2
DUT	deoxyuridine triphosphatase
ADAM18	ADAM metallopeptidase domain 18
FHIT	fragile histidine triad diadenosine triphosphatase
HLA-DRB1	major histocompatibility complex, class II, DR beta 1
IDS	iduronate 2-sulfatase
BTNL2	butyrophilin like 2
CCL4L2	C-C motif chemokine ligand 4 like 2
ACTN1	actinin alpha 1
KRT18P32	keratin 18 pseudogene 32
NPLOC4	NPL4 homolog, ubiquitin recognition factor
EHBP1	EH domain binding protein 1
EFR3B	EFR3 homolog B
ARL14	ADP ribosylation factor like GTPase 14
TRIM4	tripartite motif containing 4
PADI4	peptidyl arginine deiminase 4
HLA-DRA	major histocompatibility complex, class II, DR alpha
TP63	tumor protein p63
DLEU7	deleted in lymphocytic leukemia 7
HLA-DQA2	major histocompatibility complex, class II, DQ alpha 2
TRIP11	thyroid hormone receptor interactor 11
CHRNA3	cholinergic receptor nicotinic alpha 3 subunit
PC	pyruvate carboxylase
CTNNA2	catenin alpha 2
SLC30A7	solute carrier family 30 member 7
HUNK	hormonally up-regulated Neu-associated kinase
RYR3	ryanodine receptor 3
BATF	basic leucine zipper ATF-like transcription factor
HIKESHI	heat shock protein nuclear import factor hikeshi
CCND2	cyclin D2
VGLL4	vestigial like family member 4
NXPE2	neurexophilin and PC-esterase domain family member 2
FAF1	Fas associated factor 1
SLC35F1	solute carrier family 35 member F1
WDR37	WD repeat domain 37
SCAMP3	secretory carrier membrane protein 3
CIITA	class II major histocompatibility complex transactivator
CDH8	cadherin 8
ADAMTS20	ADAM metallopeptidase with thrombospondin type 1 motif 20
IL22RA2	interleukin 22 receptor subunit alpha 2
POPDC3	popeye domain containing 3

SGCD	sarcoglycan delta
ANKS1A	ankyrin repeat and sterile alpha motif domain containing 1A
LHFPL3	LHFPL tetraspan subfamily member 3
UGT1A10	UDP glucuronosyltransferase family 1 member A10
PITX1	paired like homeodomain 1
	core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase 1
C1GALT1	
PLCB1	phospholipase C beta 1
STAT2	signal transducer and activator of transcription 2
ERAP1	endoplasmic reticulum aminopeptidase 1
PTPN22	protein tyrosine phosphatase non-receptor type 22
MUC7	mucin 7, secreted
RBMS1	RNA binding motif single stranded interacting protein 1
	translocase of inner mitochondrial membrane domain containing 1
TIMMDC1	
ST6GAL1	ST6 beta-galactoside alpha-2,6-sialyltransferase 1
HIST1H2BJ	histone cluster 1 H2B family member j
METTL1	methyltransferase like 1
PHF21A	PHD finger protein 21A
ZMAT4	zinc finger matrin-type 4
TYK2	tyrosine kinase 2
WDFY4	WDFY family member 4
SHLD1	shieldin complex subunit 1
ADGRD1	adhesion G protein-coupled receptor D1
NOTCH4	notch receptor 4
HLA-DQB2	major histocompatibility complex, class II, DQ beta 2
AGXT2	alanine--glyoxylate aminotransferase 2
RASGRF1	Ras protein specific guanine nucleotide releasing factor 1
TRHDE	thyrotropin releasing hormone degrading enzyme
TNFRSF13B	TNF receptor superfamily member 13B
PICALM	phosphatidylinositol binding clathrin assembly protein
RBPMS	RNA binding protein, mRNA processing factor
IL12A	interleukin 12A
COL5A1	collagen type V alpha 1 chain
HYKK	hydroxylysine kinase
	transient receptor potential cation channel subfamily M member 6
TRPM6	
FAM49B	family with sequence similarity 49 member B
DIP2C	disco interacting protein 2 homolog C