Supplemental Table S2: The gene list for differentially expressed genes in the liver of patients carrying the rs72613567 (-/-) genotype relative to the expression levels of patients homozygous for the A-INS allele

Gene Symbol	Gene Name	Regulation	Fold Change	p value
ABCA9	ATP-binding cassette, sub-family A (ABC1), member 9	up	3.39	0.0462993
ADAMTSL5	ADAMTS-like 5	up	2.04	0.0396808
ANKRD45	ankyrin repeat domain 45	up	2.25	0.0480314
ANP32A-IT1	ANP32A intronic transcript 1 (non-protein coding)	up	3.84	0.0353008
AP1B1	adaptor-related protein complex 1, beta 1 subunit	up	2.66	0.0462595
BMP8B	bone morphogenetic protein 8b	up	3.39	0.0320174
C2orf49	chromosome 2 open reading frame 49	up	2.34	0.004706
CAPZB	capping protein (actin filament) muscle Z-line, beta	up	2.43	1.19E-04
CASP10	caspase 10, apoptosis-related cysteine peptidase	up	2.16	0.0206747
CELF6	CUGBP, Elav-like family member 6	up	2.16	0.0311686
COL27A1	collagen, type XXVII, alpha 1	up	2.41	0.0452788
CRYBB2P1	crystallin, beta B2 pseudogene 1	up	4.34	0.0195731
CTSL	cathepsin L	up	2.23	0.034996
CYTH1	cytohesin 1	up	3.48	0.0291492
FAM151A	family with sequence similarity 151, member A	up	2.04	0.0343721
FAM212A	family with sequence similarity 212, member A	up	3.93	0.0363373
FAT3	FAT atypical cadherin 3	up	4.47	0.0389702
FOXP1	forkhead box P1	up	2.08	0.0472945
GJD4	gap junction protein, delta 4, 40.1kDa	up	2.03	0.035218
GNG13	guanine nucleotide binding protein (G protein), gamma 13	up	14.26	0.0221911
GSN	gelsolin	up	2.83	0.049937
HAMP	hepcidin antimicrobial peptide	up	2.1	0.0114148
HNRNPAB	heterogeneous nuclear ribonucleoprotein A/B	up	2.4	0.0170917
HRASLS5	HRAS-like suppressor family, member 5	up	2.47	0.0271769

HSCB	HscB mitochondrial iron-sulfur cluster co-chaperone	up	2.44	0.031648
ID4	inhibitor of DNA binding 4, dominant negative helix-loop-helix protein	up	3.59	0.0486833
KIAA1654	KIAA1654 protein	up	2.44	0.045243
KIAA1804	mixed lineage kinase 4	up	2.12	0.0100922
KRBA2	KRAB-A domain containing 2	up	2.8	0.041867
KRT81	keratin 81, type II	up	2.01	0.0407078
LANCL3	LanC lantibiotic synthetase component C-like 3 (bacterial)	up	2.36	0.0055868
LINC01197	long intergenic non-protein coding RNA 1197	up	10.35	0.0402064
LINC01488	long intergenic non-protein coding RNA 1488	up	5.5	0.0032362
lnc-BHLHE41-2:7	RASSF8 antisense RNA 1	up	2.78	0.0422531
lnc-CHL1-1	lnc-CHL1-1:1	up	2.15	0.0413147
lnc-SEZ6L2-1	lnc-SEZ6L2-1:1	up	2.62	0.0227637
LOC101927285	uncharacterized LOC101927285	up	2.05	0.0033293
LOC101929622	Uncharacterized LOC101929622	up	2.23	0.0461935
LOC102725353	uncharacterized LOC102725353	up	3.15	0.0425273
LOC284014	uncharacterized LOC284014	up	2.47	0.0438751
LOC494150	prohibitin pseudogene	up	2.33	0.0268813
LOC729609	uncharacterized LOC729609	up	2.35	0.0292545
MFSD7	major facilitator superfamily domain containing 7	up	2.98	0.0245548
MMACHC	methylmalonic aciduria (cobalamin deficiency) cblC type, with homocystinuria	up	6.31	0.0479286
MON1B	MON1 secretory trafficking family member B	up	3.94	0.0374259
MRGPRF-AS1	MRGPRF antisense RNA 1	up	2.82	0.0386637
MRPS16	mitochondrial ribosomal protein S16	up	3.01	0.0335315
MSTO1	misato 1, mitochondrial distribution and morphology regulator	up	3.73	0.0327853
MUC5AC	mucin 5AC, oligomeric mucus/gel-forming	up	8.77	0.0364223
NMT1	N-myristoyltransferase 1	up	2.31	9.06E-04

NPIPB5	nuclear pore complex interacting protein family, member B5	up	2.46	0.0252674
NUPL2	nucleoporin like 2	up	3.29	0.0134238
PALM3	paralemmin 3	up	2.29	0.0372098
RBMX2	RNA binding motif protein, X-linked 2	up	2.23	0.0495764
RPL32	ribosomal protein L32	up	6.67	0.0361019
SCGB3A1	secretoglobin, family 3A, member 1	up	3.57	0.0479767
SLC2A11	solute carrier family 2 (facilitated glucose transporter), member 11	up	2.63	0.0396241
SLC2A6	solute carrier family 2 (facilitated glucose transporter), member 6	up	2.46	0.0338288
SPRR2D	small proline-rich protein 2D	up	2.54	0.0435365
SUZ12P1	suppressor of zeste 12 homolog pseudogene 1	up	3.06	0.0351428
TEKT4P2	tektin 4 pseudogene 2	up	5.69	0.0496765
TM6SF2	transmembrane 6 superfamily member 2	up	3.22	0.0180299
TMED7-ICAM2	TMED7-TICAM2 readthrough	up	2.05	0.0308908
TMEM201	transmembrane protein 201	up	2.36	0.0209321
TMEM52	transmembrane protein 52	up	2.32	0.0252226
TMSB4X	thymosin beta 4, X-linked	up	3.73	0.0256983
TNRC6C	trinucleotide repeat containing 6C	up	2.1	0.0053377
TRPC6	transient receptor potential cation channel, subfamily C, member 6	up	2.02	0.0218516
U2AF1	U2 small nuclear RNA auxiliary factor 1	up	2.18	0.0015082
WIPF3	WAS/WASL interacting protein family, member 3	up	7.39	0.044222
XRCC3	X-ray repair complementing defective repair in Chinese hamster cells 3	up	2.65	0.0422438
ZBTB20-AS1	ZBTB20 antisense RNA 1	up	2.41	0.0217724
ACTA1	actin, alpha 1, skeletal muscle	down	5.5	0.0386477
ADCY1	adenylate cyclase 1 (brain)	down	2.35	0.0380738
ADH1A	alcohol dehydrogenase 1A (class I), alpha polypeptide	down	2.39	0.0310509

ALDH1L1	aldehyde dehydrogenase 1 family, member L1	down	2.37	0.0489657
ANXA6	annexin A6	down	2.17	0.0152409
APOC1	apolipoprotein C-I	down	2.14	0.0468484
B2M	beta-2-microglobulin	down	3.14	0.0228742
C3	complement component 3	down	3.36	0.027257
CALM2	calmodulin 2 (phosphorylase kinase, delta)	down	2.48	0.0144093
CFB	complement factor B	down	2.71	0.0492516
CFH	complement factor H	down	3.61	0.0202421
CFH	complement factor H	down	2.17	0.0015635
CFHR1	complement factor H-related 1	down	2.47	0.0423887
CFHR4	complement factor H-related 4	down	3.3	0.0052714
CGN		cingulin	down	2.01
CREB3L3	cAMP responsive element binding protein 3-like 3	down	2.28	3.22E-04
CSTB	cystatin B (stefin B)	down	2.34	0.0084127
CTDSP2	CTD (carboxy-terminal domain,RNA polymerase II, polypeptide A) small phosphatase 2	down	2.2	0.0249645
CTSB	cathepsin B	down	2.08	0.0114165
DBI	diazepam binding inhibitor (GABA receptor modulator, acyl-CoA binding protein)	down	3.14	0.0200239
DDT	D-dopachrome tautomerase	down	2.21	0.018368
EEF1A1	eukaryotic translation elongation factor 1 alpha 1	down	2.49	0.0157782
EEF1A1	eukaryotic translation elongation factor 1 alpha 1	down	4.25	0.0427931
EIF3H	eukaryotic translation initiation factor 3, subunit H	down	2	0.0294679
F2	coagulation factor II (thrombin)	down	2.5	0.046989
FGG	fibrinogen gamma chain	down	3.04	0.0422065
FGL1	fibrinogen-like 1	down	4.01	0.0064635
FTH1	ferritin, heavy polypeptide 1	down	2.05	0.004762
FTH1	ferritin, heavy polypeptide 1	down	2.32	0.015742
H19	H19, imprinted maternally expressed transcript (non-protein	down	2.42	0.0024268

	coding)			
H3F3A	H3 histone, family 3A	down	2.28	0.0315726
HBB	hemoglobin, beta	down	4.71	3.81E-04
HBD	hemoglobin, delta	down	3.76	0.0084196
HINT1	histidine triad nucleotide binding protein 1	down	3.31	0.0498857
HLA-A	major histocompatibility complex, class I, A	down	2.43	0.0118741
HLA-B	major histocompatibility complex, class I, B	down	3.11	6.68E-04
HLA-B	major histocompatibility complex, class I, B	down	2.48	0.0051926
HLA-B	major histocompatibility complex, class I, B	down	2.22	0.0059736
HLA-C	major histocompatibility complex, class I, C	down	2.32	0.0020935
HLA-DMB	major histocompatibility complex, class II, DM beta	down	2.32	0.0134408
HLA-DOA	major histocompatibility complex, class II, DO alpha	down	2.35	0.016079
HLA-DPA1	major histocompatibility complex, class II, DP alpha 1	down	2.28	0.017891
HLA-DPB1	major histocompatibility complex, class II, DP beta 1	down	3.37	0.0019298
HLA-DPB1	major histocompatibility complex, class II, DP beta 1	down	2.06	0.0177327
HLA-DRB4	major histocompatibility complex, class II, DR beta 4	down	2.14	0.0297846
HNRNPA1	heterogeneous nuclear ribonucleoprotein A1	down	2.07	0.0472559
HRG	histidine-rich glycoprotein	down	2.9	0.0207603
IFITM1	interferon induced transmembrane protein 1	down	2.01	0.013859
INHBB	inhibin, beta B	down	2.87	0.0053778
IRS2	insulin receptor substrate 2	down	2.12	0.0319211
ITIH3	inter-alpha-trypsin inhibitor heavy chain 3	down	2.32	0.0098177
KNG1	kininogen 1	down	2.24	0.0476804
MGST3	microsomal glutathione S-transferase 3	down	2.26	0.0290824
NAPRT	nicotinate phosphoribosyltransferase	down	2	0.0239072
OCIAD2	OCIA domain containing 2	down	2	0.0468033
PGM1	phosphoglucomutase 1	down	2.15	0.0399774
PSPH	phosphoserine phosphatase	down	4.15	0.0419853
RPL11	ribosomal protein L11	down	2.33	0.0194719

RPL15	ribosomal protein L15	down	2.37	0.0286675
RPL23A	ribosomal protein L23a	down	2.15	0.0094156
RPL26	ribosomal protein L26	down	2.71	0.0158642
RPL30	ribosomal protein L30	down	2.43	0.0317708
RPL31	ribosomal protein L31	down	2.38	0.0465085
RPL41	ribosomal protein L41	down	3.23	0.0180157
RPL5	ribosomal protein L5	down	2.11	0.0321531
RPL6	ribosomal protein L6	down	3.49	0.0352559
RPLP0	ribosomal protein, large, P0	down	2.77	0.0384759
RPS14	ribosomal protein S14	down	2.19	0.0422126
RPS15A	ribosomal protein S15a	down	2.02	0.0018423
RPS15A	ribosomal protein S15a	down	2.38	0.023422
RPS18	ribosomal protein S18	down	2.71	0.0212399
RPS25	ribosomal protein S25	down	2.09	0.0407624
RPS27	ribosomal protein S27	down	2.49	0.0412466
RPS29	ribosomal protein S29	down	2.9	0.026976
RPS29	ribosomal protein S29	down	2.15	0.0203665
RPS7	ribosomal protein S7	down	2.61	0.0272166
RPS7	ribosomal protein S7	down	2.79	0.0419834
SEPT9	septin 9	down	2.16	0.0134801
SERPINA3	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 3	down	2.21	0.02756
SERPINC1	serpin peptidase inhibitor, clade C (antithrombin), member 1	down	4.63	0.0473931
SLC3A1	solute carrier family 3 (amino acid transporter heavy chain), member 1	down	3.06	0.0073644
SNHG5	small nucleolar RNA host gene 5 (non-protein coding)	down	2.11	0.0392264
SRP14	signal recognition particle 14kDa (homologous Alu RNA binding protein)	down	2.17	0.03249
TMBIM6	transmembrane BAX inhibitor motif containing 6	down	2.11	0.0218545

TOMM7	translocase of outer mitochondrial membrane 7 homolog (yeast)	down	3.63	0.0280067
UBC	ubiquitin C	down	2.24	0.037487
UBC	ubiquitin C	down	2.3	0.0389987
UBD	ubiquitin D	down	4.96	0.0132937