

Appendix table A.6.20.1. A combined list of differentially expressed genes from all experiments

Gene	No. Assays	Product	Cell component	Angio Score	No. Published Endo/TEM articles	Endo LogFC	Angio LogFC	Assay Ids
ROBO4	1	roundabout homolog 4, magic roundabout (Drosophila)	M	58	6	8	1.41	R
KDR	1	kinase insert domain receptor (a type III receptor tyrosine kinase)	M	94	6	4	-0.81	P
PECAM1	2	platelet/endothelial cell adhesion molecule	M	70	6	5.56	-0.33	P,R
EMCN	1	endomucin	M	47	5	6.37	-1.51	R
VWF	2	von Willebrand factor	E	30	5	8.81	0.25	P,R
COL4A2	2	collagen, type IV, alpha 2	E	30	5	-3.29	1.06	N,P
ESM1	3	endothelial cell-specific molecule 1	E	68	5	8.4	0.3	N,R,C
HEYL	1	hairy/enhancer-of-split related with YRPW motif-like	I	18	4	-6.1	0.08	N
CD93	1	CD93 molecule	M	23	4	7.87	-0.33	P
CTGF	1	connective tissue growth factor	E	31	4	1.87	-0.7	R
CLEC14A	2	C-type lectin domain family 14, member A	M	38	4	6.18	-0.98	N,R
MCAM	2	melanoma cell adhesion molecule	M	65	4	1.95	-0.7	N,P
SPARC	2	secreted protein, acidic, cysteine-rich (osteonectin)	E	41	4	0.2	1.2	P,C
EDN1	2	endothelin 1	E	87	4	4.05	-0.8	N,R
COL4A1	2	collagen, type IV, alpha 1	E	28	4	2.09	1.47	N,P
CDH5	3	cadherin 5, type 2 (vascular endothelium)	M	90	4	8.5	1.1	P,R,C
ITGB1	3	integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12)	M	32	4	0.63	-0.17	N,P,R
EFEMP1	4	EGF containing fibulin-like extracellular matrix protein 1	E	17	4	4.5	0.3	N,P,R,C
FABP4	1	fatty acid binding protein 4, adipocyte	I	27	3	11.96	-0.26	R
ERG	1	v-ets erythroblastosis virus E26 oncogene homolog (avian)	I	31	3	7.4	1.41	R
GPR124	1	G protein-coupled receptor 124	M	43	3	-1.15	2.99	P
ANTXR1	1	anthrax toxin receptor 1	M	40	3	0.86	-0.83	P
CD248	1	CD248 molecule, endosialin	M	70	3	-3.57	0.07	N

PLVAP	1	plasmalemma vesicle associated protein	M	57	3	-6.1	1.28	N
SPARCL1	1	SPARC-like 1 (hevin)	E	23	3	7.3	0.4	C
TMSB4X	1	thymosin beta 4, X-linked	E	35	3	4.06	-0.55	R
MGP	1	matrix Gla protein	E	44	3	-2.72	-0.81	R
PLXDC1	1	plexin domain containing 1	E	53	3	-3.2	1.79	N
RHOJ	2	ras homolog gene family, member J	I	23	3	7.74	-1.18	N,R
THY1	2	Thy-1 cell surface antigen	I	32	3	-9.43	0.67	N,P
ECSCR	2	endothelial cell-specific chemotaxis regulator	M	83	3	8.3	1.6	R,C
TIE1	2	tyrosine kinase with immunoglobulin-like and EGF-like domains 1	M	62	3	2.4	-1.61	P,R
ITGA5	2	integrin, alpha 5 (fibronectin receptor, alpha polypeptide)	M	33	3	1.24	-0.21	P,R
EGFL7	2	EGF-like-domain, multiple 7	E	60	3	-3.57	-0.7	N,R
ELTD1	3	EGF, latrophilin and seven transmembrane domain containing 1	M	10	3	7.99	-0.29	N,P,R
MMP1	3	matrix metalloproteinase 1 (interstitial collagenase)	E	24	3	12.1	1.4	N,R,C
MMRN1	3	multimerin 1	E	42	3	9.54	0.97	N,P,R
MMP2	3	matrix metalloproteinase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase)	E	38	3	-1.02	1.41	N,P,R
COL1A1	3	collagen, type I, alpha 1	E	6	3	-9.18	1.71	N,P,L
ENG	4	endoglin	M	59	3	3.6	1.1	N,P,R,C
ANGPT2	4	angiopoietin 2	E	66	3	10.7	2.3	N,P,R,C
SOX7	1	SRY (sex determining region Y)-box 7	I	23	2	8.2	-0.89	R
NCL	1	nucleolin	I	16	2	-0.67	0.84	P
DYNLL1	1	dynein, light chain, LC8-type 1	I	10	2	0.75	-0.18	P
ANPEP	1	alanine (membrane) aminopeptidase	I	25	2	-4.3	-1.35	P
ACTR3	1	ARP3 actin-related protein 3 homolog (yeast)	I	3	2	0.72	0.28	P
SOX18	1	SRY (sex determining region Y)-box 18	I	36	2	5.69	-1.02	N
UBD	1	ubiquitin D	I	18	2	-0.43	0.86	N
ZNF521	1	zinc finger protein 521	I	17	2	6.61	0.66	N
RGS1	1	regulator of G-protein signaling 1	I	14	2	2.72	0.4	N

MFNG	1	MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase	I	6	2	-2.99	2.08	N
FAM83H	1	family with sequence similarity 83, member H	I	0	2	-6.1	0.14	N
TNFRSF21	1	tumor necrosis factor receptor superfamily, member 21	M	18	2	0.2	1	C
ACVRL1	1	activin A receptor type II-like 1	M	44	2	6.14	-1.1	R
TEK	1	TEK tyrosine kinase, endothelial	M	77	2	7.3	-0.92	P
NRP1	1	neuropilin 1	M	66	2	2.68	-0.34	P
LYVE1	1	lymphatic vessel endothelial hyaluronan receptor 1	M	53	2	4.94	-0.36	P
FJX1	1	four jointed box 1 (Drosophila)	M	50	2	-0.43	2.04	N
CXCR7	1	chemokine (C-X-C motif) receptor 7	M	49	2	-1.68	-0.04	N
CLDN5	1	claudin 5	M	49	2	1.75	-0.5	N
CD34	1	CD34 molecule	M	39	2	5.73	-0.91	N
AKAP13	1	A kinase (PRKA) anchor protein 13	M	11	2	-2.54	0.47	N
RASD2	1	RASD family, member 2	M	7	2	4.15	-2.06	N
SLAMF8	1	SLAM family member 8	M	0	2		3.69	N
VCAN	1	versican	E	24	2	-10.49	1.24	P
TNFAIP6	1	tumor necrosis factor, alpha-induced protein 6	E	42	2		1.82	P
NID2	1	nidogen 2 (osteonidogen)	E	11	2	-0.03	1.12	P
COL6A2	1	collagen, type VI, alpha 2	E	9	2	-10.49	0.09	P
COL1A2	1	collagen, type I, alpha 2	E	6	2	-8.77	0.99	P
S100A8	1	S100 calcium binding protein A8	E	23	2	2.84	-0.26	N
HILPDA	1	hypoxia inducible lipid droplet-associated	E	50	2	-0.73	1.77	N
OLFML2B	1	olfactomedin-like 2B	E	0	2		1.54	N
PLOD1	2	procollagen-lysine 1, 2-oxoglutarate 5-dioxygenase 1	I	12	2	0.7	0.8	P,C
VIM	2	vimentin	I	21	2	1.8	2.15	P,R
CAV1	2	caveolin 1, caveolae protein, 22kDa	I	39	2	4.78	-1.23	P,R
ANXA1	2	annexin A1	I	25	2	3.64	-0.57	P,R
HSP90AA1	2	heat shock protein 90kDa alpha (cytosolic), class A member 1	I	22	2	-1.2	-0.24	N,P
ICAM2	2	intercellular adhesion molecule 2	M	35	2	1.9	0.4	R,C

PODXL	2	podocalyxin-like	M	37	2	4.69	-0.22	P,R
CALCRL	2	calcitonin receptor-like	M	25	2	8	-1.05	P,R
ITGAV	2	integrin, alpha V (vitronectin receptor, alpha polypeptide, antigen CD51)	M	45	2	1.5	-0.26	N,P
INSR	2	insulin receptor	M	5	2	4.3	-0.57	N,P
ENTPD1	2	ectonucleoside triphosphate diphosphohydrolase 1	M	40	2	-0.33	-0.51	N,P
DEFB1	2	defensin, beta 1	E	10	2	0.8	0.8	N,C
SERPINE1	2	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1	E	30	2	2.83	-1.05	N,R
PGF	2	placental growth factor	E	68	2	-3.57	3.08	N,R
HHIP	2	hedgehog interacting protein	E	13	2	9.22	-0.96	N,R
MMP11	2	matrix metalloproteinase 11 (stromelysin 3)	E	36	2	-7.03	2.66	N,L
MMRN2	2	multimerin 2	E	13	2	6.71	-0.97	N,P
EGFL6	2	EGF-like-domain, multiple 6	E	20	2	-7.03	2.98	N,P
COL18A1	2	collagen, type XVIII, alpha 1	E	70	2	-2.13	0.92	N,P
TXNDC5	3	thioredoxin domain containing 5 (endoplasmic reticulum)	I	12	2	2.5	1.3	N,R,C
SOX4	3	SRY (sex determining region Y)-box 4	I	29	2	5.98	1.37	N,L,R
PXDN	3	peroxidasin homolog (Drosophila)	M	37	2	0.7	0.9	P,R,C
MYCT1	3	myc target 1	M	0	2	8.5	5	N,R,C
ITGB3	3	integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61)	M	27	2	-2.24	-1.95	N,P,R
FOLH1	3	folate hydrolase (prostate-specific membrane antigen) 1	M	31	2		-1.18	N,P,L
LAMA4	3	laminin, alpha 4	E	36	2	2	0.7	P,R,C
IGFBP7	3	insulin-like growth factor binding protein 7	E	63	2	0.2	0.6	N,P,C
APLN	3	apelin	E	38	2	7.8	0.8	N,R,C
THBS1	3	thrombospondin 1	E	55	2	3.24	-0.84	N,P,R
HSPG2	3	heparan sulfate proteoglycan 2	E	32	2	-1.28	0.15	N,P,R
COL5A1	3	collagen, type V, alpha 1	E	9	2	-9.43	1.7	N,P,R
COL3A1	3	collagen, type III, alpha 1	E	14	2	-12.44	2.12	N,P,L
VAMP5	1	vesicle-associated membrane protein 5 (myobrevin)	I	0	1	2.4	0	C
SPTLC1	1	serine palmitoyltransferase, long chain base subunit 1	I	5	1	1.1	0.1	C

DNAJC10	1	DnaJ (Hsp40) homolog, subfamily C, member 10	I	11	1	2.7	0.4	C
ATP5G1	1	ATP synthase, H ⁺ transporting, mitochondrial Fo complex, subunit C1 (subunit 9)	I	0	1	1.3	0.8	C
WWTR1	1	WW domain containing transcription regulator 1	I	41	1	2.63	-0.1	R
WSB1	1	WD repeat and SOCS box containing 1	I	6	1	2.84	-0.41	R
VEPH1	1	ventricular zone expressed PH domain homolog 1 (zebrafish)	I	9	1	7.01	-1.89	R
TK1	1	thymidine kinase 1, soluble	I	26	1	-7.09	2.17	R
SMURF2	1	SMAD specific E3 ubiquitin protein ligase 2	I	17	1	6.81	-0.7	R
SHFM1	1	split hand/foot malformation (ectrodactyly) type 1	I	17	1	3.91	0.54	R
S100A6	1	S100 calcium binding protein A6	I	29	1	1.45	-0.61	R
RRM2	1	ribonucleotide reductase M2	I	23	1	-1.8	2.84	R
RPL21	1	ribosomal protein L21	I	0	1	-0.86	0.02	R
RPL13A	1	ribosomal protein L13a	I	3	1	-1.95	0.7	R
PRDM1	1	PR domain containing 1, with ZNF domain	I	21	1	8.89	-0.17	R
POMP	1	proteasome maturation protein	I	0	1	4.09	-0.58	R
PNRC2	1	proline-rich nuclear receptor coactivator 2	I	0	1	3.29	1.04	R
PLOD2	1	procollagen-lysine, 2-oxoglutarate 5-dioxygenase 2	I	13	1	0.96	-0.31	R
PIR	1	pirin (iron-binding nuclear protein)	I	13	1	3.81	-0.89	R
LYL1	1	lymphoblastic leukemia derived sequence 1	I	13	1	-4.85	2.04	R
GSTO1	1	glutathione S-transferase omega 1	I	10	1	0.04	0.02	R
GNG12	1	guanine nucleotide binding protein (G protein), gamma 12	I	0	1	0.76	-0.82	R
GNG11	1	guanine nucleotide binding protein (G protein), gamma 11	I	7	1	3.51	-0.04	R
GMFG	1	glia maturation factor, gamma	I	7	1	3.95	-0.44	R
GIMAP7	1	GTPase, IMAP family member 7	I	0	1	7.55	-0.38	R
FAM124	1	family with sequence similarity 124B	I	0	1	6.41	-0.7	R
B								
FABP5	1	fatty acid binding protein 5 (psoriasis-associated)	I	19	1	2.79	0.46	R
EHD4	1	EH-domain containing 4	I	12	1	1.22	-0.15	R
DRAM1	1	DNA-damage regulated autophagy modulator 1	I	58	1	2.37	-0.05	R
CDC42	1	cell division cycle 42 (GTP binding protein, 25kDa)	I	15	1	6.35	-0.25	R

ARHGAP18	1	Rho GTPase activating protein 18	I	20	1	3	-0.7	R
ARAP3	1	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 3	I	0	1	-1.68	0.51	R
MKI67	1	antigen identified by monoclonal antibody Ki-67	I	40	1	-0.08	3.31	L
KIFC1	1	kinesin family member C1	I	6	1	-7.03	6.22	L
FAM96A	1	family with sequence similarity 96, member A	I	0	1	-1.65	-0.21	L
CDCA8	1	cell division cycle associated 8	I	8	1	-0.42	1.52	L
VCP	1	valosin containing protein	I	8	1	-2.33	0.94	P
UBA52	1	ubiquitin A-52 residue ribosomal protein fusion product 1	I	7	1	0.42	0.1	P
TUBB6	1	tubulin, beta 6 class V	I	20	1	0.94	0.47	P
TUBA1A	1	tubulin, alpha 1a	I	6	1	-1.28	3.76	P
TKT	1	transketolase	I	9	1	-2.47	0.7	P
TGM2	1	transglutaminase 2 (C polypeptide, protein-glutamine-gamma-glutamyltransferase)	I	20	1	0.71	-0.32	P
SURF4	1	surfeit 4	I	5	1	-1.87	0.39	P
SDC1	1	syndecan 1	I	35	1	-9.97	-0.27	P
RPS27A	1	ribosomal protein S27a	I	8	1	0.15	-0.03	P
RPL5	1	ribosomal protein L5	I	12	1	-0.92	0.66	P
RPL30	1	ribosomal protein L30	I	7	1	0.54	0.13	P
RPL26	1	ribosomal protein L26	I	10	1	0.12	0.01	P
PPM1F	1	protein phosphatase, Mg2+/Mn2+ dependent, 1F	I	5	1	0.11	-0.23	P
PLXNC1	1	plexin C1	I	25	1	-6.1	-1.74	P
PGD	1	phosphogluconate dehydrogenase	I	4	1	0.66	0.46	P
OIT3	1	oncoprotein induced transcript 3	I	0	1		-1.57	P
NONO	1	non-POU domain containing, octamer-binding	I	8	1	-0.43	0.7	P
NDUFS1	1	NADH dehydrogenase (ubiquinone) Fe-S protein 1, 75kDa (NADH-coenzyme Q reductase)	I	0	1	1.48	-1.23	P
NAT1	1	N-acetyltransferase 1 (arylamine N-acetyltransferase)	I	8	1	3.51	-0.7	P
MYLK	1	myosin light chain kinase	I	30	1	-0.41	-0.8	P
LTA4H	1	leukotriene A4 hydrolase	I	8	1	1.01	-0.29	P

LMNA	1	lamin A/C	I	7	1	-2.02	0.18	P
LDHB	1	lactate dehydrogenase B	I	16	1	-1.28	-0.49	P
HSP90AB1	1	heat shock protein 90kDa alpha (cytosolic), class B member 1	I	14	1	-1.03	0.82	P
HMGCS2	1	3-hydroxy-3-methylglutaryl-CoA synthase 2 (mitochondrial)	I	14	1	-9.15	-0.82	P
HDLBP	1	high density lipoprotein binding protein	I	5	1	-0.99	0.31	P
ERBB2	1	v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian)	I	44	1	-7.03	1.56	P
EIF4G2	1	eukaryotic translation initiation factor 4 gamma, 2	I	0	1	0.33	0.56	P
DDX5	1	DEAD (Asp-Glu-Ala-Asp) box polypeptide 5	I	18	1	0.13	0.05	P
COPG	1	coatamer protein complex, subunit gamma	I	0	1			P
CNN2	1	calponin 2	I	13	1	-1.5	0.06	P
ACTA1	1	actin, alpha 1, skeletal muscle	I	7	1	3.29	-0.03	P
SLC7A5	1	solute carrier family 7 (amino acid transporter light chain, L system), member 5	I	32	1	-10.29	-0.33	N
SPRR3	1	small proline-rich protein 3	I	27	1	1.32	-6.85	N
SHROOM1	1	shroom family member 1	I	25	1	1.23	-1.32	N
FOXQ1	1	forkhead box Q1	I	25	1		-1.37	N
RGS5	1	regulator of G-protein signaling 5	I	24	1	-1.97	-0.03	N
BAG3	1	BCL2-associated athanogene 3	I	22	1	-0.66	-0.41	N
LEF1	1	lymphoid enhancer-binding factor 1	I	19	1		0.29	N
DHRS2	1	dehydrogenase/reductase (SDR family) member 2	I	16	1	-7.03	0.45	N
MGC16121	1	hypothetical protein MGC16121	I	0	1	2.31	0.09	N
SNAI1	1	snail homolog 1 (Drosophila)	I	57	1	-1.71	0.85	N
PHB	1	prohibitin	I	34	1	-2.25	0.06	N
HEY1	1	hairy/enhancer-of-split related with YRPW motif 1	I	33	1	3.51	1.86	N
NOSTRIN	1	nitric oxide synthase trafficker	I	31	1	4.86	0.24	N
CKAP2	1	cytoskeleton associated protein 2	I	30	1	0.94	1.14	N

ENC1	1	ectodermal-neural cortex 1 (with BTB-like domain)	I	26	1	-2.03	0.61	N
UBC	1	ubiquitin C	I	23	1	-1.23	0.83	N
RHOB	1	ras homolog gene family, member B	I	23	1	1.87	-0.85	N
IRF7	1	interferon regulatory factor 7	I	21	1	-4.54	1.01	N
HSPB1	1	heat shock 27kDa protein 1	I	21	1	-2.6	1.12	N
FAU	1	Finkel-Biskis-Reilly murine sarcoma virus (FBR-MuSV) ubiquitously expressed	I	21	1	-2.3	0.82	N
MOAP1	1	modulator of apoptosis 1	I	20	1	-0.98	0.68	N
MAP2K3	1	mitogen-activated protein kinase kinase 3	I	18	1	-2	-1.15	N
PLCE1	1	phospholipase C, epsilon 1	I	18	1	0.82	2.48	N
TNNI2	1	troponin I type 2 (skeletal, fast)	I	18	1		-0.7	N
RASGRF2	1	Ras protein-specific guanine nucleotide-releasing factor 2	I	17	1	0.26	-0.55	N
PLA2G4C	1	phospholipase A2, group IVC (cytosolic, calcium-independent)	I	16	1	5.93	-1.11	N
GRWD1	1	glutamate-rich WD repeat containing 1	I	15	1	-1.07	-0.34	N
HOXA9	1	homeobox A9	I	15	1	-0.69	0.7	N
DROSHA	1	drosha, ribonuclease type III	I	14	1	-0.14	1	N
PLA2G4A	1	phospholipase A2, group IVA (cytosolic, calcium-dependent)	I	14	1	5.21	-2.24	N
ASCL2	1	achaete-scute complex homolog 2 (Drosophila)	I	14	1		2.76	N
UBN1	1	ubiquitin 1	I	13	1	-1.52	0.63	N
RPS18	1	ribosomal protein S18	I	13	1	-0.35	0.77	N
RPS27	1	ribosomal protein S27	I	13	1	0.15	-0.31	N
RPLP2	1	ribosomal protein, large, P2	I	12	1	-1.37	1.03	N
SMG6	1	smg-6 homolog, nonsense mediated mRNA decay factor (C. elegans)	I	11	1	-0.21	0.22	N
MECOM	1	MDS1 and EVI1 complex locus	I	11	1	1.51	-1.29	N
C10orf10	1	chromosome 10 open reading frame 10	I	11	1	3.18	-0.82	N
HOXB2	1	homeobox B2	I	10	1	-1.71	5.96	N
CSTA	1	cystatin A (stefin A)	I	10	1	-0.37	-3.67	N
RPL41	1	ribosomal protein L41	I	10	1	0.98	-0.63	N
NAV1	1	neuron navigator 1	I	9	1	0.53	1.19	N

NR2F6	1	nuclear receptor subfamily 2, group F, member 6	I	8	1	-6.1	0.34	N
RUNX1	1	runt-related transcription factor 1	I	8	1	-3.79	-0.15	N
PRC1	1	protein regulator of cytokinesis 1	I	8	1	-1.18	2.43	N
SCO2	1	SCO cytochrome oxidase deficient homolog 2 (yeast)	I	8	1	-0.17	0.73	N
GTPBP4	1	GTP binding protein 4	I	8	1	-0.12	0.15	N
ABI1	1	abl-interactor 1	I	8	1	-0.05	-0.44	N
RPL37	1	ribosomal protein L37	I	7	1	-0.56	0	N
MOV10	1	Mov10, Moloney leukemia virus 10, homolog (mouse)	I	7	1	-0.52	0.44	N
POLR3H	1	polymerase (RNA) III (DNA directed) polypeptide H (22.9kD)	I	7	1	-0.17	0.03	N
MRPS27	1	mitochondrial ribosomal protein S27	I	7	1	-0.13	1.35	N
TNNC2	1	troponin C type 2 (fast)	I	7	1	3.51	0.45	N
HOXB6	1	homeobox B6	I	6	1	-3.04	-0.18	N
ZNF644	1	zinc finger protein 644	I	6	1	0.65	0.01	N
RANBP1	1	RAN binding protein 1	I	6	1	2.47	1.4	N
EXOC6	1	exocyst complex component 6	I	6	1	3.27	-0.19	N
RGS4	1	regulator of G-protein signaling 4	I	5	1	-0.07	-2.41	N
EFTUD2	1	elongation factor Tu GTP binding domain containing 2	I	4	1	-1.69	1.51	N
CNP	1	2',3'-cyclic nucleotide 3' phosphodiesterase	I	4	1	-1.28	-0.35	N
RPL17	1	ribosomal protein L17	I	4	1	-1.16	0.08	N
CS	1	citrate synthase	I	4	1	-0.72	0.8	N
BCKDHB	1	branched chain keto acid dehydrogenase E1, beta polypeptide	I	4	1	-0.68	-0.77	N
EXOSC10	1	exosome component 10	I	3	1	-0.61	-0.4	N
RPL24	1	ribosomal protein L24	I	3	1	-0.44	-0.04	N
PSME3	1	proteasome (prosome, macropain) activator subunit 3 (PA28 gamma; Ki)	I	2	1	-1.19	0.6	N
POLR2L	1	polymerase (RNA) II (DNA directed) polypeptide L, 7.6kDa	I	1	1	0.93	-0.59	N
TPPP3	1	tubulin polymerization-promoting protein family member 3	I	0	1	-7.03	0.56	N
FNDC3A	1	fibronectin type III domain containing 3A	I	0	1	-2.47	-0.83	N
WDR46	1	WD repeat domain 46	I	0	1	-1.95	0.06	N

DCTD	1	dCMP deaminase	I	0	1	-1.95	0.18	N
SPR	1	sepiapterin reductase (7,8-dihydrobiopterin:NADP+ oxidoreductase)	I	0	1	-1.92	-0.12	N
RPL36	1	ribosomal protein L36	I	0	1	-0.72	0.52	N
RPL37A	1	ribosomal protein L37a	I	0	1	-0.71	0.91	N
MMS19	1	MMS19 nucleotide excision repair homolog (<i>S. cerevisiae</i>)	I	0	1	-0.24	1.75	N
PGM2	1	phosphoglucomutase 2	I	0	1	-0.15	-0.7	N
OSBPL3	1	oxysterol binding protein-like 3	I	0	1	0.14	-0.32	N
TARS	1	threonyl-tRNA synthetase	I	0	1	0.68	-0.08	N
PPWD1	1	peptidylprolyl isomerase domain and WD repeat containing 1	I	0	1	1.59	0.17	N
EIF4E2	1	eukaryotic translation initiation factor 4E family member 2	I	0	1	1.91	0.29	N
ADAP2	1	ArfGAP with dual PH domains 2	I	0	1	2.31	1.82	N
FAM198B	1	family with sequence similarity 198, member B	I	0	1	2.88	0.42	N
LOC645638	1	WDNM1-like pseudogene	I	0	1	3.03	-1.26	N
RMND5A	1	required for meiotic nuclear division 5 homolog A (<i>S. cerevisiae</i>)	I	0	1	3.27	-0.4	N
QSER1	1	glutamine and serine rich 1	I	0	1	5.08	-0.42	N
WLS	1	wntless homolog (<i>Drosophila</i>)	M	5	1	0.3	0.4	C
VOPP1	1	vesicular, overexpressed in cancer, prosurvival protein 1	M	9	1	0.4	1.2	C
VAMP3	1	vesicle-associated membrane protein 3 (cellubrevin)	M	3	1	0.6	0.2	C
UNC5B	1	unc-5 homolog B (<i>C. elegans</i>)	M	32	1	0.8	0.8	C
TRAM2	1	translocation associated membrane protein 2	M	0	1	1.6	1	C
TNFRSF1A	1	tumor necrosis factor receptor superfamily, member 1A	M	62	1	0.3	0.6	C
TMEM43	1	transmembrane protein 43	M	0	1	2.9	0.8	C
TMEM204	1	transmembrane protein 204	M	14	1	3.7	0.1	C
SLC43A3	1	solute carrier family 43, member 3	M	0	1	0.5	0.7	C
SLC39A9	1	solute carrier family 39 (zinc transporter), member 9	M	0	1	0.4	0	C

SLC38A7	1	solute carrier family 38, member 7	M	17	1	0.7	0.3	C
SLC38A3	1	solute carrier family 38, member 3	M	11	1	6.3	1.3	C
SLC35A5	1	solute carrier family 35, member A5	M	20	1	6.4	0.3	C
SLC30A6	1	solute carrier family 30 (zinc transporter), member 6	M	0	1	5.9	0.1	C
SLC29A1	1	solute carrier family 29 (nucleoside transporters), member 1	M	18	1	1.3	1.4	C
SCARB2	1	scavenger receptor class B, member 2	M	10	1	1.4	0.4	C
PIGT	1	phosphatidylinositol glycan anchor biosynthesis, class T	M	5	1	0.5	0.4	C
PCDH12	1	protocadherin 12	M	36	1	5.5	5.6	C
MANSC1	1	MANSC domain containing 1	M	0	1	2.9	0.1	C
LRRC8C	1	leucine rich repeat containing 8 family, member C	M	0	1	1.7	0.4	C
IFI27	1	interferon, alpha-inducible protein 27	M	13	1	1.3	0.7	C
HEXB	1	hexosaminidase B (beta polypeptide)	M	5	1	0.8	0.5	C
GPR65	1	G protein-coupled receptor 65	M	21	1	2.7	0.1	C
FZD4	1	frizzled family receptor 4	M	20	1	6.6	0.5	C
ESYT1	1	extended synaptotagmin-like protein 1	M	0	1	0.1	0.5	C
DDR2	1	discoidin domain receptor tyrosine kinase 2	M	17	1	0.6	1.4	C
CXCR4	1	chemokine (C-X-C motif) receptor 4	M	28	1	0.6	0.6	C
CHST8	1	carbohydrate (N-acetylgalactosamine 4-O) sulfotransferase 8	M	0	1	1.8	6	C
BDKRB2	1	bradykinin receptor B2	M	28	1	2.7	1.7	C
APLP2	1	amyloid beta (A4) precursor-like protein 2	M	8	1	1	0.2	C
ADAM15	1	ADAM metalloproteinase domain 15	M	35	1	0.9	0.2	C
SNAP23	1	synaptosomal-associated protein, 23kDa	M	3	1	2.27	-1.12	R
SLC35F2	1	solute carrier family 35, member F2	M	11	1	6.7	-1.42	R
PLSCR4	1	phospholipid scramblase 4	M	0	1	7.68	0.07	R
EPHA2	1	EPH receptor A2	M	46	1	-4.54	-0.1	R
CD59	1	CD59 molecule, complement regulatory protein	M	18	1	4.03	-0.83	R
MBOAT7	1	membrane bound O-acyltransferase domain containing 7	M	8	1	-1.33	-0.32	L
XPNPEP2	1	X-prolyl aminopeptidase (aminopeptidase P) 2, membrane-bound	M	16	1		-1.02	P
TFRC	1	transferrin receptor (p90, CD71)	M	11	1	-4.62	-0.17	P

SLITRK6	1	SLIT and NTRK-like family, member 6	M	11	1	-7.03	0.27	P
SLCO2A1	1	solute carrier organic anion transporter family, member 2A1	M	13	1	0.41	-1.15	P
SLCO1C1	1	solute carrier organic anion transporter family, member 1C1	M	9	1		-1.42	P
PTPRM	1	protein tyrosine phosphatase, receptor type, M	M	23	1	1.15	-1.24	P
PTPRF	1	protein tyrosine phosphatase, receptor type, F	M	12	1	-0.68	0.37	P
PTPRB	1	protein tyrosine phosphatase, receptor type, B	M	25	1	4.62	-1.02	P
PCDH1	1	protocadherin 1	M	7	1	1.04	-0.7	P
NPR3	1	natriuretic peptide receptor C/guanylate cyclase C (atrionatriuretic peptide receptor C)	M	14	1		-2.52	P
MRC2	1	mannose receptor, C type 2	M	16	1	-5.69	0.96	P
ITGB4	1	integrin, beta 4	M	26	1	-6.51	0.65	P
ITGA4	1	integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor)	M	34	1	1.4	-0.33	P
ITGA1	1	integrin, alpha 1	M	21	1	0.93	-0.5	P
IL1R1	1	interleukin 1 receptor, type I	M	14	1	-2.38	0.53	P
HLA-DRA	1	major histocompatibility complex, class II, DR alpha	M	8	1	-6.69	0.17	P
GFRA1	1	GDNF family receptor alpha 1	M	13	1	-0.54	-1.28	P
EPHB3	1	EPH receptor B3	M	19	1	-7.03	0.94	P
ENPEP	1	glutamyl aminopeptidase (aminopeptidase A)	M	13	1	-7.03	-1.47	P
CSPG4	1	chondroitin sulfate proteoglycan 4	M	35	1		0.92	P
CDCP1	1	CUB domain containing protein 1	M	59	1	-2.57	-0.01	P
CD44	1	CD44 molecule (Indian blood group)	M	47	1	-1.59	0.37	P
CD36	1	CD36 molecule (thrombospondin receptor)	M	23	1	1.88	-0.12	P
CAP1	1	CAP, adenylate cyclase-associated protein 1 (yeast)	M	8	1	-0.69	-0.06	P
CADM1	1	cell adhesion molecule 1	M	65	1	-2.38	0.56	P
ANTXR2	1	anthrax toxin receptor 2	M	19	1	0.19	-0.78	P
CLDN3	1	claudin 3	M	44	1		1.3	N
TACSTD2	1	tumor-associated calcium signal transducer 2	M	26	1	-9.67	-0.83	N
ADAM12	1	ADAM metallopeptidase domain 12	M	24	1	-1.71	1.82	N
JAM2	1	junctional adhesion molecule 2	M	43	1	3.29	-0.19	N

TIAM1	1	T-cell lymphoma invasion and metastasis 1	M	30	1	-6.1	1.34	N
TMBIM1	1	transmembrane BAX inhibitor motif containing 1	M	25	1	-1.03	-0.31	N
RAPGEF3	1	Rap guanine nucleotide exchange factor (GEF) 3	M	21	1	4.02	-1.18	N
MPZL2	1	myelin protein zero-like 2	M	14	1	1.72	-1.89	N
APCDD1	1	adenomatosis polyposis coli down-regulated 1	M	10	1	-7.59	1.19	N
SLC38A5	1	solute carrier family 38, member 5	M	10	1	-7.59	1.94	N
CD19	1	CD19 molecule	M	8	1	-10.06	-0.14	N
SCNN1A	1	sodium channel, nonvoltage-gated 1 alpha	M	8	1	-8	-0.36	N
SLC11A1	1	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 1	M	7	1		0.61	N
LSR	1	lipolysis stimulated lipoprotein receptor	M	6	1		-0.46	N
KIAA1919	1	KIAA1919	M	0	1	-1.15	1.97	N
SCAMP4	1	secretory carrier membrane protein 4	M	0	1	-0.67	-0.05	N
TM6SF1	1	transmembrane 6 superfamily member 1	M	0	1	6.08	-0.55	N
SHE	1	Src homology 2 domain containing E	E	0	1	7.1	0.5	C
KDEL1	1	KDEL (Lys-Asp-Glu-Leu) containing 1	E	0	1	3	0.9	C
CETP	1	cholesteryl ester transfer protein, plasma	E	18	1	3	1.4	C
C17orf72	1	chromosome 17 open reading frame 72	E	0	1	0.8	1.2	C
TFPI	1	tissue factor pathway inhibitor (lipoprotein-associated coagulation inhibitor)	E	33	1	5.57	-0.57	R
CYR61	1	cysteine-rich, angiogenic inducer, 61	E	54	1	1.23	-0.51	R
CCL2	1	chemokine (C-C motif) ligand 2	E	27	1	4.26	-0.66	R
WDR1	1	WD repeat domain 1	E	10	1	-0.81	0.65	P
VTN	1	vitronectin	E	29	1	-8.79	-2.1	P
TNC	1	tenascin C	E	38	1	-3.39	1.48	P
ST14	1	suppression of tumorigenicity 14 (colon carcinoma)	E	34	1	-8.57	1.37	P
SPON1	1	spondin 1, extracellular matrix protein	E	10	1	-7.03	0.14	P
SLIT2	1	slit homolog 2 (Drosophila)	E	38	1		-0.13	P
SERPINB	1	serpin peptidase inhibitor, clade B (ovalbumin), member 5	E	68	1	2.72	-0.99	P

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NPNT	1	nephronectin	E	11	1		-0.8	P
NID1	1	nidogen 1	E	10	1	1.96	0.17	P
LPA	1	lipoprotein, Lp(a)	E	25	1	-6.1		P
HAPLN1	1	hyaluronan and proteoglycan link protein 1	E	6	1	-6.1	6.33	P
GSN	1	gelsolin	E	14	1	-0.17	0.11	P
GPI	1	glucose-6-phosphate isomerase	E	28	1	3.24	0.02	P
GC	1	group-specific component (vitamin D binding protein)	E	6	1	-3.36	-2.05	P
FSTL1	1	folliculin-like 1	E	22	1	0.19	-0.17	P
EDIL3	1	EGF-like repeats and discoidin I-like domains 3	E	50	1	-7.03	-1.98	P
CTSB	1	cathepsin B	E	30	1	0.8	-0.37	P
COL6A3	1	collagen, type VI, alpha 3	E	8	1	-6.1	1.22	P
COL6A1	1	collagen, type VI, alpha 1	E	12	1	-4.32	1.17	P
COL12A1	1	collagen, type XII, alpha 1	E	22	1	-4.61	0.35	P
CLU	1	clusterin	E	25	1	-2.8	1.33	P
CD55	1	CD55 molecule, decay accelerating factor for complement (Cromer blood group)	E	20	1	-1.85	-0.22	P
C7	1	complement component 7	E	15	1	3.7	-1.54	P
C4A	1	complement component 4A (Rodgers blood group)	E	4	1		0.39	P
A2M	1	alpha-2-macroglobulin	E	9	1	3.8	-0.46	P
SPP1	1	secreted phosphoprotein 1	E	32	1	-9.16	-1.19	N
STC1	1	stanniocalcin 1	E	42	1	-0.08	-1.82	N
PDGFD	1	platelet derived growth factor D	E	34	1	-2.24	-0.23	N
HTRA3	1	HtrA serine peptidase 3	E	26	1		-0.06	N
ANXA8	1	annexin A8	E	17	1	-6.1	-1.26	N
INHBB	1	inhibin, beta B	E	8	1	-6.1	1.7	N
VEGFC	1	vascular endothelial growth factor C	E	93	1	-1.68	0.61	N
MMP14	1	matrix metalloproteinase 14 (membrane-inserted)	E	50	1	-1.36	0.1	N
LGALS3B	1	lectin, galactoside-binding, soluble, 3 binding protein	E	44	1	-6.28	0.82	N
P								

MMP9	1	matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)	E	34	1	-3.21	7.48	N
LGALS1	1	lectin, galactoside-binding, soluble, 1	E	31	1	0.07	-0.13	N
WFDC2	1	WAP four-disulfide core domain 2	E	29	1	-8.79	-0.7	N
TGFA	1	transforming growth factor, alpha	E	26	1	1.86	-0.19	N
STC2	1	stanniocalcin 2	E	25	1	-4.72	0.51	N
MMP3	1	matrix metalloproteinase 3 (stromelysin 1, progelatinase)	E	20	1	-7.03	1.77	N
NTS	1	neurotensin	E	16	1	-10.72	3.69	N
PLTP	1	phospholipid transfer protein	E	11	1	-3.57	0.13	N
TXNRD1	2	thioredoxin reductase 1	I	23	1	2.4	-0.42	N,R
SPOCD1	2	SPOC domain containing 1	I	0	1	-3.61	4.25	N,R
SEPT7	2	septin 7	I	5	1	-0.05	-0.6	P,R
RPS7	2	ribosomal protein S7	I	6	1	-0.36	0.71	P,R
RPS26	2	ribosomal protein S26	I	3	1	1.3	-0.63	N,R
MOV10L1	2	Mov10l1, Moloney leukemia virus 10-like 1, homolog (mouse)	I	0	1	4.6	4.25	N,R
HNRNPH1	2	heterogeneous nuclear ribonucleoprotein H1 (H)	I	11	1	2.66	-0.31	P,R
HMGB1	2	high mobility group box 1	I	22	1	0.24	-0.13	P,R
FKBP1A	2	FK506 binding protein 1A, 12kDa	I	3	1	1.74	0.1	N,R
FAM43A	2	family with sequence similarity 43, member A	I	0	1	2.56	1.14	N,R
EIF2S3	2	eukaryotic translation initiation factor 2, subunit 3 gamma, 52kDa	I	6	1	5.01	0.58	P,R
EEF1E1	2	eukaryotic translation elongation factor 1 epsilon 1	I	21	1	2.84	0.36	N,R
CDK2AP1	2	cyclin-dependent kinase 2 associated protein 1	I	23	1	3.44	-0.47	N,R
C15orf54	2	chromosome 15 open reading frame 54	I	0	1	5.49	-0.7	N,R
BMX	2	BMX non-receptor tyrosine kinase	I	47	1	7.02	-4.16	N,R
ALDH1A1	2	aldehyde dehydrogenase 1 family, member A1	I	31	1	4.21	-1.91	P,R
MCM4	2	minichromosome maintenance complex component 4	I	9	1	-1.1	1.08	N,L
FOLH1B	2	folate hydrolase 1B	I	29	1			N,L
ETV4	2	ets variant 4	I	52	1	-5.98	7.15	N,L

CENPF	2	centromere protein F, 350/400kDa (mitosin)	I	15	1	0	3.69	N,L
SND1	2	staphylococcal nuclease and tudor domain containing 1	I	6	1	-1.89	1.03	N,P
S100P	2	S100 calcium binding protein P	I	38	1	1.75	-0.94	N,P
RPS14	2	ribosomal protein S14	I	7	1	-0.79	0.48	N,P
HSPA8	2	heat shock 70kDa protein 8	I	15	1	-0.75	1.65	N,P
ATP5H	2	ATP synthase, H ⁺ transporting, mitochondrial Fo complex, subunit d	I	0	1	8.31	0.9	N,P
ALDH6A1	2	aldehyde dehydrogenase 6 family, member A1	I	0	1	-2.64	-2.67	N,P
AHNAK2	2	AHNAK nucleoprotein 2	I	0	1	-0.87	0.76	N,P
ACACA	2	acetyl-CoA carboxylase alpha	I	18	1	-1.54	0.5	N,P
THBD	2	thrombomodulin	M	43	1	4.8	0.3	P,C
SLC7A7	2	solute carrier family 7 (amino acid transporter light chain, y+L system), member 7	M	4	1	0.6	0.9	N,C
SELE	2	selectin E	M	53	1	6.1	0	N,C
RPN1	2	ribophorin I	M	5	1	0	0.5	P,C
PLXNA2	2	plexin A2	M	10	1	3.3	1.2	P,C
PEAR1	2	platelet endothelial aggregation receptor 1	M	60	1	5.2	0.3	R,C
LIFR	2	leukemia inhibitory factor receptor alpha	M	15	1	1.9	0.1	P,C
JAM3	2	junctional adhesion molecule 3	M	57	1	0.1	0.9	P,C
ESAM	2	endothelial cell adhesion molecule	M	29	1	1.5	0.2	P,C
EFNA5	2	ephrin-A5	M	24	1	5.1	0.8	R,C
DLL4	2	delta-like 4 (Drosophila)	M	60	1	3.7	0.4	N,C
ACP2	2	acid phosphatase 2, lysosomal	M	4	1	3.7	0.6	P,C
SPHK1	2	sphingosine kinase 1	M	34	1	0.05	2.63	N,R
RALA	2	v-ral simian leukemia viral oncogene homolog A (ras related)	M	26	1	3.2	0.72	N,R
NRP2	2	neuropilin 2	M	69	1	0.4	-0.79	P,R
NRG1	2	neuregulin 1	M	14	1	-0.74	-1.17	N,R
F2R	2	coagulation factor II (thrombin) receptor	M	47	1	0.65	-0.16	N,R
ECE1	2	endothelin converting enzyme 1	M	74	1	-0.31	0.2	P,R
SLC2A1	2	solute carrier family 2 (facilitated glucose transporter), member 1	M	30	1	-0.11	1.28	N,P

ROBO1	2	roundabout, axon guidance receptor, homolog 1 (Drosophila)	M	32	1	-3.2	-1.38	N,P
PTK7	2	PTK7 protein tyrosine kinase 7	M	14	1	-1.92	2.56	N,P
FGFR3	2	fibroblast growth factor receptor 3	M	24	1	0.82	0	N,P
EPCAM	2	epithelial cell adhesion molecule	M	38	1	-8.57	0.6	N,P
ENPP2	2	ectonucleotide pyrophosphatase/phosphodiesterase 2	M	51	1	2.65	-3.44	N,P
DSG2	2	desmoglein 2	M	13	1	-3.19	0.17	N,P
CLDN1	2	claudin 1	M	37	1	-8.23	-0.78	N,P
CD276	2	CD276 molecule	M	35	1	-2.64	0.9	N,P
PSAP	2	prosaposin	E	9	1	0.9	0.5	P,C
POSTN	2	periostin, osteoblast specific factor	E	40	1	1	2.5	P,C
ITIH5	2	inter-alpha (globulin) inhibitor H5	E	29	1	0.1	1.1	P,C
HBEGF	2	heparin-binding EGF-like growth factor	E	29	1	0.7	1	N,C
EFNA1	2	ephrin-A1	E	35	1	0.3	0.3	N,C
DKK3	2	dickkopf homolog 3 (Xenopus laevis)	E	49	1	0.5	0.3	P,C
CCL20	2	chemokine (C-C motif) ligand 20	E	24	1	4.2	3.4	N,C
CALU	2	calumenin	E	2	1	2	0.6	R,C
C1orf54	2	chromosome 1 open reading frame 54	E	0	1	1.3	0.7	N,C
BMP6	2	bone morphogenetic protein 6	E	17	1	6.7	0.6	R,C
TNFSF18	2	tumor necrosis factor (ligand) superfamily, member 18	E	46	1	4.6		N,R
TFPI2	2	tissue factor pathway inhibitor 2	E	51	1	0.86	-2.58	N,R
SULF1	2	sulfatase 1	E	29	1	-2.14	-0.19	N,R
SRPX	2	sushi-repeat containing protein, X-linked	E	44	1	6.79	-0.03	P,R
PRSS23	2	protease, serine, 23	E	12	1	3.13	-0.45	N,R
NTN4	2	netrin 4	E	50	1	3.73	-2.11	N,R
LTBP2	2	latent transforming growth factor beta binding protein 2	E	8	1	-0.38	-0.57	P,R
LOX	2	lysyl oxidase	E	34	1	0.07	-0.41	N,R
INHBA	2	inhibin, beta A	E	20	1	-1.23	0.29	N,R
FN1	2	fibronectin 1	E	22	1	-1.28	0.41	P,R
COL8A1	2	collagen, type VIII, alpha 1	E	36	1	0.54	-0.92	N,R

COL5A2	2	collagen, type V, alpha 2	E	5	1	-1.27	2.71	P,R
SFRP2	2	secreted frizzled-related protein 2	E	26	1		1.14	N,L
P4HB	2	prolyl 4-hydroxylase, beta polypeptide	E	9	1	-3.2	0.99	P,L
VWA1	2	von Willebrand factor A domain containing 1	E	29	1	-7.03	0.65	N,P
SPINK5	2	serine peptidase inhibitor, Kazal type 5	E	4	1	3.03	-0.48	N,P
MXRA5	2	matrix-remodelling associated 5	E	17	1	-7.03	1.24	N,P
LAMC3	2	laminin, gamma 3	E	23	1		2.35	N,P
HSPD1	2	heat shock 60kDa protein 1 (chaperonin)	E	21	1	-1.9	0.84	N,P
FAP	2	fibroblast activation protein, alpha	E	36	1	-2.08	2.5	N,P
CST3	2	cystatin C	E	13	1	-2.9	1.22	N,P
COL15A1	2	collagen, type XV, alpha 1	E	30	1	4.15	1.2	N,P
COL11A1	2	collagen, type XI, alpha 1	E	22	1		1.48	N,P
CFB	2	complement factor B	E	6	1	-9.78	-0.74	N,P
BMP1	2	bone morphogenetic protein 1	E	9	1	-5.33	-0.01	N,P
DAD1	3	defender against cell death 1	I	8	1	2.6	0.2	P,R,C
UBE2C	3	ubiquitin-conjugating enzyme E2C	I	28	1	-1.2	3.62	N,L,R
TOP2A	3	topoisomerase (DNA) II alpha 170kDa	I	24	1	0.3	3.78	N,L,R
SERPINH 1	3	serpin peptidase inhibitor, clade H (heat shock protein 47), member 1, (collagen binding protein 1)	I	13	1	-2.02	1.11	N,P,R
PLS3	3	plastin 3	I	24	1	1.74	0.92	N,P,R
NQO1	3	NAD(P)H dehydrogenase, quinone 1	I	15	1	1.38	0.42	N,P,R
FLNB	3	filamin B, beta	I	12	1	-0.09	0.26	N,P,R
CKS2	3	CDC28 protein kinase regulatory subunit 2	I	35	1	2.52	0.85	N,L,R
STAB1	3	stabilin 1	M	53	1	0.4	1.6	N,P,C
NRCAM	3	neuronal cell adhesion molecule	M	13	1	5.7	0.9	N,P,C
PROCR	3	protein C receptor, endothelial	M	80	1	-0.36	0.4	N,P,R
CD109	3	CD109 molecule	M	24	1	4.16	-1.76	N,P,R
TNFSF4	3	tumor necrosis factor (ligand) superfamily, member 4	E	24	1	6	1.8	N,R,C
MMP10	3	matrix metalloproteinase 10 (stromelysin 2)	E	30	1	7.5	1.1	N,R,C

BGN	3	biglycan	E	19	1	1	1.5	N,R,C
TINAGL1	3	tubulointerstitial nephritis antigen-like 1	E	7	1	1.71	-1.8	N,P,R
SRPX2	3	sushi-repeat containing protein, X-linked 2	E	29	1	2.1	-0.44	N,P,R
ANXA2	3	annexin A2	E	27	1	0.79	-0.37	N,P,R
PPIA	4	peptidylprolyl isomerase A (cyclophilin A)	E	9	1	-0.92	0.12	N,P,L, R
WDR33	1	WD repeat domain 33	I	0		0.2	0.2	C
UST	1	uronyl-2-sulfotransferase	I	0		1.1	0.1	C
UQCR10	1	ubiquinol-cytochrome c reductase, complex III subunit X	I	7		2.5	0.1	C
UNC50	1	unc-50 homolog (C. elegans)	I	0		1.5	0.4	C
TUBD1	1	tubulin, delta 1	I	14		1.8	0.1	C
TMEM143	1	transmembrane protein 143	I	17		1.8	0.7	C
TAPBP	1	TAP binding protein (tapasin)	I	10		0	0.1	C
STX8	1	syntaxin 8	I	3		1.6	1.8	C
ST8SIA4	1	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 4	I	19		2.9	1.2	C
ST3GAL5	1	ST3 beta-galactoside alpha-2,3-sialyltransferase 5	I	8		3.9	0.8	C
SRSF8	1	serine/arginine-rich splicing factor 8	I	0		0.4	0.1	C
SRRM1	1	serine/arginine repetitive matrix 1	I	3		0.6	0	C
SPCS3	1	signal peptidase complex subunit 3 homolog (S. cerevisiae)	I	0		1.2	0.3	C
SNX13	1	sorting nexin 13	I	0		1.7	0.4	C
SMCR7L	1	Smith-Magenis syndrome chromosome region, candidate 7-like	I	0		1.6	0.3	C
SLC27A3	1	solute carrier family 27 (fatty acid transporter), member 3	I	9		2.7	0.2	C
SLC27A1	1	solute carrier family 27 (fatty acid transporter), member 1	I	17		3	0.9	C
SLC26A7	1	solute carrier family 26, member 7	I	17		1.8	0.9	C
SGCB	1	sarcoglycan, beta (43kDa dystrophin-associated glycoprotein)	I	10		0.9	0.8	C
SFXN4	1	sideroflexin 4	I	0		2.7	0.2	C
SELK	1	selenoprotein K	I	9		1.9	0.4	C
SEC11C	1	SEC11 homolog C (S. cerevisiae)	I	0		2.3	0.1	C
RNF34	1	ring finger protein 34	I	38		2.1	0.1	C

RNF185	1	ring finger protein 185	I	0	0	1	C
RNF182	1	ring finger protein 182	I	0	0.8	2.5	C
RBM24	1	RNA binding motif protein 24	I	0	2.7	1.7	C
PRKD1	1	protein kinase D1	I	22	1.6	2.5	C
PLA2G16	1	phospholipase A2, group XVI	I	50	2.8	0.1	C
PISD	1	phosphatidylserine decarboxylase	I	0	0.3	0.9	C
PIGX	1	phosphatidylinositol glycan anchor biosynthesis, class X	I	0	2.1	1.1	C
PIGN	1	phosphatidylinositol glycan anchor biosynthesis, class N	I	0	1.3	0.4	C
PIGB	1	phosphatidylinositol glycan anchor biosynthesis, class B	I	0	3	0.5	C
PHTF2	1	putative homeodomain transcription factor 2	I	8	3.3	0.2	C
PGAP3	1	post-GPI attachment to proteins 3	I	23	0.8	0.3	C
PDIA5	1	protein disulfide isomerase family A, member 5	I	8	1.3	0.9	C
P4HA2	1	prolyl 4-hydroxylase, alpha polypeptide II	I	21	0.8	0.2	C
P4HA1	1	prolyl 4-hydroxylase, alpha polypeptide I	I	18	1	0.5	C
NR2E3	1	nuclear receptor subfamily 2, group E, member 3	I	3	0.8	4.7	C
NME3	1	non-metastatic cells 3, protein expressed in	I	19	0.8	0.1	C
NKPD1	1	NTPase, KAP family P-loop domain containing 1	I	0	1.8	2.8	C
NDUFB6	1	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 6, 17kDa	I	4	0.2	0.6	C
NDUFB3	1	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 3, 12kDa	I	8	4.6	0.4	C
NDUFA4	1	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4, 9kDa	I	0	2.3	0.1	C
NANOGN B	1	NANOG neighbor homeobox	I	0	0.8	2.8	C
MRPL27	1	mitochondrial ribosomal protein L27	I	0	1.6	0.8	C
MRPL24	1	mitochondrial ribosomal protein L24	I	0	2.2	1.5	C
MRPL21	1	mitochondrial ribosomal protein L21	I	0	1.4	0.8	C
MOGAT3	1	monoacylglycerol O-acyltransferase 3	I	0	0.8	5.6	C
MLLT10	1	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 10	I	3	0.3	0.5	C
MFN2	1	mitofusin 2	I	6	0.1	0.3	C
MDFIC	1	MyoD family inhibitor domain containing	I	6	1	0.5	C

MAN2A1	1	mannosidase, alpha, class 2A, member 1	I	0	2.8	1.4	C
LPCAT4	1	lysophosphatidylcholine acyltransferase 4	I	0	0.8	0.8	C
LNK1	1	ligand of numb-protein X 1	I	20	2.7	0.4	C
LMAN2L	1	lectin, mannose-binding 2-like	I	0	1.2	0.7	C
LCORL	1	ligand dependent nuclear receptor corepressor-like	I	0	2.3	0.9	C
JHDM1D	1	jumonji C domain containing histone demethylase 1 homolog D (S. cerevisiae)	I	14	4	0.7	C
HYAL2	1	hyaluronoglucosaminidase 2	I	34	2.7	0.3	C
HTATIP2	1	HIV-1 Tat interactive protein 2, 30kDa	I	37	0.2	0.4	C
HIF3A	1	hypoxia inducible factor 3, alpha subunit	I	71	4.4	0	C
H6PD	1	hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase)	I	0	0.5	0.5	C
GZMH	1	granzyme H (cathepsin G-like 2, protein h-CCPX)	I	18	1.1	0.6	C
GRPEL1	1	GrpE-like 1, mitochondrial (E. coli)	I	0	3.1	0	C
GRAMD4	1	GRAM domain containing 4	I	38	1	1.3	C
GPD2	1	glycerol-3-phosphate dehydrogenase 2 (mitochondrial)	I	0	0.4	1	C
GOSR1	1	golgi SNAP receptor complex member 1	I	0	0.6	0.1	C
GOLGB1	1	golgin B1	I	0	1	0.5	C
GNS	1	glucosamine (N-acetyl)-6-sulfatase	I	0	0.8	0.6	C
GNPTAB	1	N-acetylglucosamine-1-phosphate transferase, alpha and beta subunits	I	0	0.9	0.2	C
FUT9	1	fucosyltransferase 9 (alpha (1,3) fucosyltransferase)	I	6	0.8	0.4	C
FUT11	1	fucosyltransferase 11 (alpha (1,3) fucosyltransferase)	I	0	2.3	0.6	C
FUT1	1	fucosyltransferase 1 (galactoside 2-alpha-L-fucosyltransferase, H blood group)	I	29	0.7	0.4	C
FOXRED2	1	FAD-dependent oxidoreductase domain containing 2	I	0	1.5	1.4	C
FKBP7	1	FK506 binding protein 7	I	0	2.6	0.4	C
FBXW7	1	F-box and WD repeat domain containing 7	I	46	7	0.1	C
FANCM	1	Fanconi anemia, complementation group M	I	7	3.7	0.6	C
EVC	1	Ellis van Creveld syndrome	I	9	1.8	1.4	C
ERO1L	1	ERO1-like (S. cerevisiae)	I	8	1.1	0.4	C

EDEM3	1	ER degradation enhancer, mannosidase alpha-like 3	I	7	1.7	0.2	C
EDEM1	1	ER degradation enhancer, mannosidase alpha-like 1	I	0	3	1.3	C
DPM3	1	dolichyl-phosphate mannosyltransferase polypeptide 3	I	14	2.7	0.8	C
DHODH	1	dihydroorotate dehydrogenase	I	8	2.3	1.1	C
DEGS1	1	degenerative spermatocyte homolog 1, lipid desaturase (Drosophila)	I	8	0.7	0.3	C
CYP2R1	1	cytochrome P450, family 2, subfamily R, polypeptide 1	I	0	3.3	0.4	C
CYP11B1	1	cytochrome P450, family 11, subfamily B, polypeptide 1	I	8	2.3	0.3	C
CPT1C	1	carnitine palmitoyltransferase 1C	I	14	0.8	0.2	C
COX18	1	COX18 cytochrome c oxidase assembly homolog (S. cerevisiae)	I	9	0.5	0.5	C
COX10	1	COX10 homolog, cytochrome c oxidase assembly protein, heme A: farnesyltransferase (yeast)	I	5	0.9	0.2	C
CHST5	1	carbohydrate (N-acetylglucosamine 6-O) sulfotransferase 5	I	24	0.1	0.4	C
CABLES1	1	Cdk5 and Abl enzyme substrate 1	I	25	2.4	0.3	C
BNIP1	1	BCL2/adenovirus E1B 19kDa interacting protein 1	I	0	3.5	0.9	C
B4GALT1	1	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 1	I	16	1.9	0.2	C
B3GNT1	1	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 1	I	9	3.7	0.6	C
ATP6V0A2	1	ATPase, H ⁺ transporting, lysosomal V0 subunit a2	I	3	0.1	0.5	C
ATP11A	1	ATPase, class VI, type 11A	I	0	0.2	1.9	C
ASB11	1	ankyrin repeat and SOCS box containing 11	I	0	2.3	0.6	C
ARSB	1	arylsulfatase B	I	7	2.3	0.4	C
ALG6	1	asparagine-linked glycosylation 6, alpha-1,3-glucosyltransferase homolog (S. cerevisiae)	I	0	0.1	0.3	C
AGPAT5	1	1-acylglycerol-3-phosphate O-acyltransferase 5 (lysophosphatidic acid acyltransferase, epsilon)	I	6	0.8	0.1	C
AGA	1	aspartylglucosaminidase	I	0	1	0.7	C
ACBD5	1	acyl-CoA binding domain containing 5	I	0	1.4	0.5	C
ABCD4	1	ATP-binding cassette, sub-family D (ALD), member 4	I	0	0.8	0	C

ABCB6	1	ATP-binding cassette, sub-family B (MDR/TAP), member 6	I	7	0.8	1.2	C
ZNF846	1	zinc finger protein 846	I	0	0.82	-0.3	R
ZNF814	1	zinc finger protein 814	I	0	2.34	0.38	R
ZNF716	1	zinc finger protein 716	I	0	0.41	0.26	R
ZNF578	1	zinc finger protein 578	I	0	2.89	2.37	R
ZNF562	1	zinc finger protein 562	I	0	3.93	-0.43	R
ZNF556	1	zinc finger protein 556	I	0	1.75	-0.7	R
ZNF286A	1	zinc finger protein 286A	I	0	2.66	-0.19	R
ZNF22	1	zinc finger protein 22 (KOX 15)	I	0	3.12	0.59	R
ZMYM5	1	zinc finger, MYM-type 5	I	0	4.41	-1.28	R
ZFX	1	zinc finger protein, X-linked	I	6	5.04	-0.06	R
ZC3HAV1 L	1	zinc finger CCCH-type, antiviral 1-like	I	0	0.93	-0.7	R
ZC3HAV1	1	zinc finger CCCH-type, antiviral 1	I	8	2.46	0.04	R
ZC3H12D	1	zinc finger CCCH-type containing 12D	I	45	0.14	-0.18	R
WHAMM P3	1	WAS protein homolog associated with actin, golgi membranes and microtubules pseudogene 3	I	0	6.71	-0.58	R
WBP5	1	WW domain binding protein 5	I	11	3.92	-0.74	R
VPS29	1	vacuolar protein sorting 29 homolog (<i>S. cerevisiae</i>)	I	0	2.56	-0.7	R
UBE2V2	1	ubiquitin-conjugating enzyme E2 variant 2	I	3	-1.33	-1.29	R
UBE2B	1	ubiquitin-conjugating enzyme E2B	I	7	2.6	-1.06	R
UBA6	1	ubiquitin-like modifier activating enzyme 6	I	5	5.37	0.78	R
TXNDC9	1	thioredoxin domain containing 9	I	0	-0.78	-1.34	R
TRIM59	1	tripartite motif containing 59	I	17	4.6	-0.32	R
TRIM13	1	tripartite motif containing 13	I	40	2.46	-0.52	R
TRAPPC2	1	trafficking protein particle complex 2	I	3	2.61	0.16	R
TRA2A	1	transformer 2 alpha homolog (<i>Drosophila</i>)	I	6	3.45	-0.6	R
TPM4	1	tropomyosin 4	I	10	-0.07	0.36	R
TMSB4X P8	1	unknown	I	0			R

CNEP1R1	1	unknown	I	0	1.8	1.26	R
TIGD1	1	tigger transposable element derived 1	I	0	-0.03	-0.65	R
TIAL1	1	TIA1 cytotoxic granule-associated RNA binding protein-like 1	I	12	2.72	-0.02	R
THUMPD1	1	THUMP domain containing 1	I	0	3.11	-0.9	R
THAP5	1	THAP domain containing 5	I	10	6.2	0.05	R
TGFB111	1	transforming growth factor beta 1 induced transcript 1	I	21	-3.63	-2.38	R
TDP2	1	tyrosyl-DNA phosphodiesterase 2	I	17	0.82	-1.97	R
TBL1XR1	1	transducin (beta)-like 1 X-linked receptor 1	I	7	2.46	0.22	R
TATDN3	1	TatD DNase domain containing 3	I	20	2.07	-0.25	R
TAF9B	1	TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31kDa	I	10	-0.75	-0.98	R
TAF9	1	TAF9 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 32kDa	I	6	1.48	-0.4	R
SYNJ2BP	1	synaptojanin 2 binding protein	I	7	4.59	-0.62	R
SWAP70	1	SWAP switching B-cell complex 70kDa subunit	I	0	1.83	-1.76	R
SUMO2	1	SMT3 suppressor of mif two 3 homolog 2 (S. cerevisiae)	I	8	-0.91	-0.05	R
SUMO1	1	SMT3 suppressor of mif two 3 homolog 1 (S. cerevisiae)	I	13	0.4	-0.51	R
STRN3	1	striatin, calmodulin binding protein 3	I	9	5.38	-1.7	R
SRSF6	1	serine/arginine-rich splicing factor 6	I	6	4.08	0.35	R
SRSF11	1	serine/arginine-rich splicing factor 11	I	5	-0.4	-0.63	R
SRSF10	1	serine/arginine-rich splicing factor 10	I	0	0.67	-0.42	R
SRP9	1	signal recognition particle 9kDa	I	11	-0.71	-0.39	R
SRP14	1	signal recognition particle 14kDa (homologous Alu RNA binding protein)	I	12	1.98	-0.21	R
SNX6	1	sorting nexin 6	I	12	-0.04	-0.44	R
SNRPG	1	small nuclear ribonucleoprotein polypeptide G	I	9	1.46	1.46	R
SNRPA1	1	small nuclear ribonucleoprotein polypeptide A'	I	0	2.75	0.47	R
SNORD14B	1	small nucleolar RNA, C/D box 14B	I	0	0.82	2.76	R

SNORD14A	1	small nucleolar RNA, C/D box 14A	I	0	0.82	-0.7	R
SNORD13	1	small nucleolar RNA, C/D box 13	I	0			R
SNORD102	1	small nucleolar RNA, C/D box 102	I	0	2.31		R
SNORA27	1	small nucleolar RNA, H/ACA box 27	I	0	2.31		R
SNAPC1	1	small nuclear RNA activating complex, polypeptide 1, 43kDa	I	8	3.5	0.36	R
SMU1	1	smu-1 suppressor of mec-8 and unc-52 homolog (C. elegans)	I	0	1.89	-1.04	R
SKP1	1	S-phase kinase-associated protein 1	I	18	1.28	-0.54	R
SKAP2	1	src kinase associated phosphoprotein 2	I	4	2.69	0	R
SKA1	1	spindle and kinetochore associated complex subunit 1	I	0	0.04	0.06	R
SHOX	1	short stature homeobox	I	1	0.23	0.14	R
SF3B14	1	splicing factor 3B, 14 kDa subunit	I	5	3.58	-1.37	R
SERF2	1	small EDRK-rich factor 2	I	0	3.44	-0.36	R
SEPT6	1	septin 6	I	4	-0.95	0.43	R
SEPT11	1	septin 11	I	11	0.58	-0.37	R
SEPT10	1	septin 10	I	20	0.72	-0.65	R
SEP15	1	15 kDa selenoprotein	I	15	-0.64	0.16	R
SENP5	1	SUMO1/sentrin specific peptidase 5	I	14	3.47	1.39	R
SDHD	1	succinate dehydrogenase complex, subunit D, integral membrane protein	I	51	-1.39	-2.06	R
SARNP	1	SAP domain containing ribonucleoprotein	I	4	1.43	0.55	R
SAR1A	1	SAR1 homolog A (S. cerevisiae)	I	0	5.91	0.55	R
RWDD2B	1	RWD domain containing 2B	I	8	3.05	-0.77	R
RTN4IP1	1	reticulon 4 interacting protein 1	I	0	-1.91	0.85	R
RSU1	1	Ras suppressor protein 1	I	21	1.48	-0.9	R
RPS6KA3	1	ribosomal protein S6 kinase, 90kDa, polypeptide 3	I	10	1.05	-0.29	R
RPS17	1	ribosomal protein S17	I	3	-3.35	-0.05	R

RPL9	1	ribosomal protein L9	I	0	-1.02	0.13	R
RPL7L1	1	ribosomal protein L7-like 1	I	0	1.4	0.68	R
RPL36AL	1	ribosomal protein L36a-like	I	10	3.4	0.16	R
RPL34	1	ribosomal protein L34	I	5	1.2	-0.2	R
RPL23	1	ribosomal protein L23	I	0	1.74	-0.75	R
RPL18AP3	1	ribosomal protein L18a pseudogene 3	I	0			R
RPL18A	1	ribosomal protein L18a	I	3	-2.82	-0.19	R
RNY4	1	RNA, Ro-associated Y4	I	0	-7.03	-5.09	R
RNY3	1	RNA, Ro-associated Y3	I	0	1.4	1.24	R
RNY1	1	RNA, Ro-associated Y1	I	0	3.29	4.65	R
RNU6-21	1	RNA, U6 small nuclear 21	I	0			R
RNU6-15	1	RNA, U6 small nuclear 15	I	0		-4.16	R
RNU6-1	1	RNA, U6 small nuclear 1	I	0	0.82	4.65	R
RNF5	1	ring finger protein 5	I	6	-0.09	0.21	R
RNF144B	1	ring finger protein 144B	I	15	5.18	-1.35	R
RN7SL2	1	RNA, 7SL, cytoplasmic 2	I	0	-4.72	-0.65	R
RN7SL1	1	RNA, 7SL, cytoplasmic 1	I	0	-3.31	-0.39	R
RN7SK	1	RNA, 7SK small nuclear	I	4	4.15	-0.34	R
RN28S1	1	RNA, 28S ribosomal 1	I	33			R
RN18S1	1	RNA, 18S ribosomal 1	I	50			R
RIN2	1	Ras and Rab interactor 2	I	8	8.2	-0.22	R
RDX	1	radixin	I	13	4.84	-0.37	R
RBMS2	1	RNA binding motif, single stranded interacting protein 2	I	0	0.36	-0.44	R
RBM8A	1	RNA binding motif protein 8A	I	4	0.36	-0.19	R
RBM39	1	RNA binding motif protein 39	I	13	1.05	-0.11	R
RBM34	1	RNA binding motif protein 34	I	0	-0.05	-0.14	R
RBBP5	1	retinoblastoma binding protein 5	I	15	2.5	-0.46	R
RAP1GDS1	1	RAP1, GTP-GDP dissociation stimulator 1	I	5	3.44	0.92	R

RAP1B	1	RAP1B, member of RAS oncogene family	I	14	0.39	0.85	R
RAD21-AS1	1	unknown	I	0	-0.74	-0.7	R
RAD17	1	RAD17 homolog (S. pombe)	I	8	0.19	-1.24	R
RAB33B	1	RAB33B, member RAS oncogene family	I	0	6.18	-0.36	R
RAB2B	1	RAB2B, member RAS oncogene family	I	0	2.5	-0.24	R
PTMA	1	prothymosin, alpha	I	12	-0.4	0.38	R
PTGIS	1	prostaglandin I2 (prostacyclin) synthase	I	27	-1.65	1.66	R
PSME1	1	proteasome (prosome, macropain) activator subunit 1 (PA28 alpha)	I	7	1.99	1.17	R
PSMD14	1	proteasome (prosome, macropain) 26S subunit, non-ATPase, 14	I	3	1.77	-0.32	R
PSMC1	1	proteasome (prosome, macropain) 26S subunit, ATPase, 1	I	4	0.31	0.34	R
PRR11	1	proline rich 11	I	0	1.11	0.58	R
PRKCH	1	protein kinase C, eta	I	18	1.97	-0.41	R
PPP6R3	1	protein phosphatase 6, regulatory subunit 3	I	4	4.88	-0.51	R
PPP3CA	1	protein phosphatase 3, catalytic subunit, alpha isozyme	I	9	5.13	-0.66	R
PPP1CB	1	protein phosphatase 1, catalytic subunit, beta isozyme	I	12	3.15	-0.24	R
PPIE	1	peptidylprolyl isomerase E (cyclophilin E)	I	0	0.46	-0.74	R
POU5F1	1	POU class 5 homeobox 1	I	28	-1.06	-0.14	R
PLK1	1	polo-like kinase 1	I	21	-4.61	1.86	R
PHACTR2	1	phosphatase and actin regulator 2	I	8	12.01	-1.34	R
PGM3	1	phosphoglucomutase 3	I	14	0.99	0.29	R
PGGT1B	1	protein geranylgeranyltransferase type I, beta subunit	I	8	2.92	-0.48	R
PGBD1	1	piggyBac transposable element derived 1	I	0	1.75	-0.3	R
PDE6A	1	phosphodiesterase 6A, cGMP-specific, rod, alpha	I	4	-0.23	-0.44	R
PDE4C	1	phosphodiesterase 4C, cAMP-specific	I	6	1.4	-0.15	R
PDCD10	1	programmed cell death 10	I	36	1.48	-1.49	R
PCNA	1	proliferating cell nuclear antigen	I	16	-0.8	0	R
PCMTD1	1	protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 1	I	0	2.74	-1.16	R

PAWR	1	PRKC, apoptosis, WT1, regulator	I	33	-0.57	0.29	R
PAN3	1	PAN3 poly(A) specific ribonuclease subunit homolog (S. cerevisiae)	I	0	4.47	0.07	R
PAK1IP1	1	PAK1 interacting protein 1	I	0	2.39	-0.7	R
OTUD6A	1	OTU domain containing 6A	I	0	1.62	1	R
ORAI2	1	ORAI calcium release-activated calcium modulator 2	I	0	0.71	-0.02	R
NXNL2	1	nucleoredoxin-like 2	I	0	-0.69	-0.53	R
NUP50	1	nucleoporin 50kDa	I	0	0.76	-0.44	R
NUAK2	1	NUAK family, SNF1-like kinase, 2	I	33	-0.67	0	R
NS3BP	1	NS3BP	I	0			R
NR2F2	1	nuclear receptor subfamily 2, group F, member 2	I	24	1.78	0.07	R
NOP10	1	NOP10 ribonucleoprotein homolog (yeast)	I	0	2.86	-0.04	R
NOL9	1	nucleolar protein 9	I	0	2.68	0.23	R
NME6	1	non-metastatic cells 6, protein expressed in (nucleoside-diphosphate kinase)	I	0	0.14	-1.05	R
NLRP12	1	NLR family, pyrin domain containing 12	I	14	1.61	-0.26	R
NHSL1	1	NHS-like 1	I	0	5.83	0.29	R
NFIB	1	nuclear factor I/B	I	25	5.79	-0.23	R
LINC00152	1	unknown	I	0	9.21	-0.29	R
LINC00114	1	unknown	I	33	2.72	0.27	R
LINC00083	1	unknown	I	0			R
NCK1	1	NCK adaptor protein 1	I	12	0.18	0.29	R
MYL12B	1	myosin, light chain 12B, regulatory	I	0	2.6	-0.39	R
MTPAP	1	mitochondrial poly(A) polymerase	I	4	3.38	0.08	R
MTND4P	1	unknown	I	0			R
MTND1P15	1	MT-ND1 pseudogene 15	I	0			R

MRPS36	1	mitochondrial ribosomal protein S36	I	0	0.69	-1.93	R
MRPS14	1	mitochondrial ribosomal protein S14	I	0	7.52	0.68	R
MRPL42	1	mitochondrial ribosomal protein L42	I	0	2.17	0	R
MRPL20	1	mitochondrial ribosomal protein L20	I	0	2.34	0.24	R
MORF4L1	1	mortality factor 4 like 1	I	17	1.01	-0.24	R
MORC2-AS1	1	MORC2 antisense RNA 1 (non-protein coding)	I	0	7.22	0.7	R
MIS18BP1	1	MIS18 binding protein 1	I	0	6.89	0.6	R
MIR548H2	1	microRNA 548h-2	I	0			R
MIR548D2	1	microRNA 548d-2	I	25		2.76	R
MIR548C	1	microRNA 548c	I	0	-3.57	0.23	R
MIR302B	1	microRNA 302b	I	0	0.82		R
MIR29B1	1	microRNA 29b-1	I	42	0.82		R
MIR25	1	microRNA 25	I	50			R
MIR186	1	microRNA 186	I	29	0.82	-4.16	R
MIR1302-1	1	microRNA 1302-1	I	0			R
MIR1290	1	microRNA 1290	I	0		-4.16	R
MIR1274B	1	unknown	I	0			R
MIR1273A	1	unknown	I	0			R
MIR1254-1	1	unknown	I	0	1.75		R
MEX3D	1	mex-3 homolog D (C. elegans)	I	0	5.27	1.28	R
MEMO1	1	mediator of cell motility 1	I	15	-1.3	-0.58	R
MED21	1	mediator complex subunit 21	I	3	0.97	0.29	R

MDM2	1	Mdm2 p53 binding protein homolog (mouse)	I	55	3.67	-0.03	R
MDFI	1	MyoD family inhibitor	I	12	-6.1	4.21	R
MARCKS	1	myristoylated alanine-rich protein kinase C substrate	I	11	5.69	-0.07	R
MAPK1IP1L	1	mitogen-activated protein kinase 1 interacting protein 1-like	I	0	2.45	-1.14	R
MAP7D3	1	MAP7 domain containing 3	I	0	3.22	-0.23	R
MAP1LC3C	1	microtubule-associated protein 1 light chain 3 gamma	I	0	1.05	0.53	R
LXN	1	latexin	I	13	1.27	0.05	R
LSM5	1	LSM5 homolog, U6 small nuclear RNA associated (S. cerevisiae)	I	0	-0.11	0.29	R
LSM3	1	LSM3 homolog, U6 small nuclear RNA associated (S. cerevisiae)	I	0	1.77	-0.4	R
LSM2	1	LSM2 homolog, U6 small nuclear RNA associated (S. cerevisiae)	I	3	-2.74	1.12	R
LSM12	1	LSM12 homolog (S. cerevisiae)	I	0	4.08	0.18	R
LRRC37BP1	1	leucine rich repeat containing 37B pseudogene 1	I	0	2.52	-0.2	R
LRRC18	1	leucine rich repeat containing 18	I	0	-6.1	1.51	R
LOC730268	1	anaphase-promoting complex subunit 1-like	I	0	0.39	-1.64	R
LOC729973	1	hypothetical LOC729973	I	0			R
LOC729317	1	voltage-dependent anion channel 2 pseudogene	I	0			R
LOC729291	1	hypothetical protein LOC729291	I	0			R
LOC729046	1	ribosomal protein L17 pseudogene	I	0			R
LOC728758	1	protein (peptidylprolyl cis/trans isomerase) NIMA-interacting, 4 (parvulin) pseudogene	I	0	0.54	0.51	R
LOC728532	1	dynein, cytoplasmic 1, intermediate chain 2 pseudogene	I	0			R
LRRC37A	1	unknown	I	0			R

16P								
LOC6470	1	hypothetical LOC647070	I	0				R
70								
LOC6468	1	hypothetical LOC646851	I	0	0.82	-0.08		R
51								
LOC6467	1	hypothetical LOC646719	I	0	-0.66	-0.34		R
19								
LOC6465	1	hypothetical LOC646576	I	25	5.27	0.26		R
76								
LOC6441	1	hypothetical LOC644173	I	0				R
73								
LOC6438	1	u3 small nucleolar ribonucleoprotein protein MPP10-like	I	0				R
02								
LOC6437	1	caspase 4, apoptosis-related cysteine peptidase pseudogene	I	0	6.18	-0.7		R
33								
LOC4941	1	mitochondrial carrier triple repeat 1 pseudogene	I	0	4.35	-1.67		R
41								
LOC4422	1	glycine cleavage system protein H pseudogene	I	0				R
93								
H3F3AP4	1	unknown	I	0	0.01	0.9		R
LOC4010	1	hypothetical LOC401098	I	0				R
98								
LOC4005	1	hypothetical LOC400590	I	0	5.49	-0.83		R
90								
LOC3398	1	hypothetical LOC339803	I	0	3.62	2.37		R
03								
LOC2845	1	hypothetical LOC284551	I	0	-0.58	-0.44		R
51								
LOC2837	1	FSHD region gene 1 pseudogene	I	0	-1.2	-0.12		R
88								
LOC1003	1	hypothetical LOC100302401	I	0	2.31	-0.87		R
02401								

LOC100288366	1	hypothetical LOC100288366	I	0	-1.03	0.82	R
LOC100272146	1	nuclear factor (erythroid-derived 2)-like 3 pseudogene	I	0			R
LOC100216001	1	hypothetical LOC100216001	I	0	7.38	4.65	R
LOC100190986	1	hypothetical LOC100190986	I	0	0.64	-3.35	R
LOC100131756	1	hypothetical LOC100131756	I	0			R
ANKRD18EP	1	unknown	I	0			R
LOC100130938	1	hypothetical LOC100130938	I	0	3.29	-0.7	R
LOC100130764	1	p150-like	I	0			R
LOC100130298	1	hCG1816373-like	I	0			R
LOC100129434	1	hypothetical LOC100129434	I	0	-1.15	-0.46	R
LOC100128288	1	hypothetical LOC100128288	I	0	0.38	-0.92	R
LOC100128126	1	hypothetical LOC100128126	I	0	3.87	0.09	R
LOC100127904	1	hypothetical LOC100127904	I	0			R
LOC100127894	1	hypothetical protein LOC100127894	I	0			R
LINC00263	1	unknown	I	33	3.51	-0.5	R
LIMS3	1	LIM and senescent cell antigen-like domains 3	I	0	1.93	0.02	R
LIMS1	1	LIM and senescent cell antigen-like domains 1	I	18	1.14	0.29	R

LIMA1	1	LIM domain and actin binding 1	I	15	0.38	-0.54	R
LDLRAD2	1	low density lipoprotein receptor class A domain containing 2	I	0			R
LCLAT1	1	lysocardiolipin acyltransferase 1	I	9	3.37	-1.06	R
KDELC2	1	KDEL (Lys-Asp-Glu-Leu) containing 2	I	0	1.02	-0.61	R
AJUBA	1	unknown	I	22	-0.18	0.39	R
INGX	1	inhibitor of growth family, X-linked, pseudogene	I	60	3.29	-1.02	R
ING3	1	inhibitor of growth family, member 3	I	30	1.98	1.26	R
IGF2BP2	1	insulin-like growth factor 2 mRNA binding protein 2	I	7	0.68	-0.94	R
HSPB11	1	heat shock protein family B (small), member 11	I	8	3.47	1.66	R
HSBP1	1	heat shock factor binding protein 1	I	10	2.13	0.99	R
HNF1A-AS1	1	HNF1A antisense RNA 1 (non-protein coding)	I	0	1.62	0.8	R
HAUS1	1	HAUS augmin-like complex, subunit 1	I	0	4.02	0.58	R
GSTCD	1	glutathione S-transferase, C-terminal domain containing	I	11	1.37	-0.7	R
GSDMA	1	gasdermin A	I	21	-0.6	0.2	R
GNRHR2	1	gonadotropin-releasing hormone (type 2) receptor 2	I	11		1.51	R
GDF7	1	growth differentiation factor 7	I	0		-5.66	R
GAS5	1	growth arrest-specific 5 (non-protein coding)	I	17	0.02	1.02	R
GABPB1	1	GA binding protein transcription factor, beta subunit 1	I	10	1.82	-1.28	R
FRA10AC1	1	fragile site, folic acid type, rare, fra(10)(q23.3) or fra(10)(q24.2) candidate 1	I	10	0.65	-0.66	R
FOXP1	1	forkhead box P1	I	32	6.24	0.18	R
FOXC2	1	forkhead box C2 (MFH-1, mesenchyme forkhead 1)	I	20		-4.16	R
FOSL1	1	FOS-like antigen 1	I	42	-4.59	-0.13	R
FNIP1	1	folliculin interacting protein 1	I	29	5.44	0.44	R
FLJ31306	1	hypothetical LOC379025	I	0	2.57	0.33	R
FLJ23152	1	hypothetical protein LOC401236	I	0		-5.09	R
FKBP9	1	FK506 binding protein 9, 63 kDa	I	0	3.61	-0.09	R
FKBP14	1	FK506 binding protein 14, 22 kDa	I	0	0.35	-0.46	R
FBXL20	1	F-box and leucine-rich repeat protein 20	I	14	0.94	0.42	R

FAM76A	1	family with sequence similarity 76, member A	I	0	4.95	0.48	R
FAM45A	1	family with sequence similarity 45, member A	I	0	0.59	-0.07	R
FAM111A	1	family with sequence similarity 111, member A	I	13	3.2	0.13	R
FAM103A1	1	family with sequence similarity 103, member A1	I	0	1.21	-0.48	R
FAM101A	1	family with sequence similarity 101, member A	I	0		4.25	R
EIF4B	1	eukaryotic translation initiation factor 4B	I	5	0.92	0.15	R
EEA1	1	early endosome antigen 1	I	0	3	-1.58	R
DYNLT1	1	dynein, light chain, Tctex-type 1	I	11	3.35	-0.5	R
DUXA	1	double homeobox A	I	0	1.32	-1.02	R
DNAJC8	1	DnaJ (Hsp40) homolog, subfamily C, member 8	I	0	0.93	-0.2	R
DNAJC3	1	DnaJ (Hsp40) homolog, subfamily C, member 3	I	16	5.88	-0.73	R
DMC1	1	DMC1 dosage suppressor of mck1 homolog, meiosis-specific homologous recombination (yeast)	I	10	1.46	-0.15	R
DMBX1	1	diencephalon/mesencephalon homeobox 1	I	0	0.05	0.02	R
DKFZP434I0714	1	hypothetical protein DKFZP434I0714	I	0	-3.57	3.69	R
DDX52	1	DEAD (Asp-Glu-Ala-Asp) box polypeptide 52	I	0	0.63	-0.22	R
DCLRE1C	1	DNA cross-link repair 1C	I	2	2.73	0.76	R
DCAF13	1	DDB1 and CUL4 associated factor 13	I	0	2.85	-0.6	R
CYP51A1	1	cytochrome P450, family 51, subfamily A, polypeptide 1	I	0	1.82	-0.44	R
CSNK1A1	1	casein kinase 1, alpha 1	I	23	3.49	0.88	R
CRX	1	cone-rod homeobox	I	5	1.77	0.67	R
CPNE8	1	copine VIII	I	0	4.73	-0.51	R
COX7B	1	cytochrome c oxidase subunit VIIb	I	9	2.38	-0.7	R
COX6A1	1	cytochrome c oxidase subunit VIa polypeptide 1	I	0	2.18	-0.52	R
COMMD2	1	COMM domain containing 2	I	0	0.73	-0.48	R

COMMD 10	1	COMM domain containing 10	I	10	0.06	-0.94	R
CNOT6L	1	CCR4-NOT transcription complex, subunit 6-like	I	0	4.24	0.49	R
CNN3	1	calponin 3, acidic	I	0	3.73	-0.5	R
CHP2	1	calcineurin B homologous protein 2	I	44	1.48	-0.65	R
CHP1	1	unknown	I	7			R
CFL1P1	1	cofilin 1 (non-muscle) pseudogene 1	I	0	-0.74	-0.48	R
CENPK	1	centromere protein K	I	0	0.55	1.92	R
CEACAM 22P	1	carcinoembryonic antigen-related cell adhesion molecule 2, pseudogene	I	0	-0.18	0.29	R
CDC26	1	cell division cycle 26 homolog (S. cerevisiae)	I	5	3.79	-0.22	R
CCNG1	1	cyclin G1	I	27	0.23	0.22	R
CCDC90B	1	coiled-coil domain containing 90B	I	0	1.72	-0.7	R
CCDC72	1	coiled-coil domain containing 72	I	0	3.04	0.29	R
CBWD5	1	COBW domain containing 5	I	0	5.89	-0.7	R
CBWD2	1	COBW domain containing 2	I	0	3.08	-0.32	R
CBWD1	1	COBW domain containing 1	I	0	1.32	-1.65	R
CAST	1	calpastatin	I	9	-0.77	-0.88	R
CASP4	1	caspase 4, apoptosis-related cysteine peptidase	I	17	3.2	0.39	R
CASP2	1	caspase 2, apoptosis-related cysteine peptidase	I	27	4.37	-1.22	R
CARD16	1	caspase recruitment domain family, member 16	I	9	5.17	-0.7	R
CARD11	1	caspase recruitment domain family, member 11	I	8	-9.43	-1.42	R
CA5B	1	carbonic anhydrase VB, mitochondrial	I	10	-0.1	-0.39	R
C8orf44	1	chromosome 8 open reading frame 44	I	0	-1.09	-0.83	R
C6orf62	1	chromosome 6 open reading frame 62	I	0	6.83	0.13	R
C22orf29	1	chromosome 22 open reading frame 29	I	0	3.04	1.6	R
AP5S1	1	unknown	I	0	4.31	1.26	R
FAM217 B	1	unknown	I	0	-0.09	0.01	R
C1GALT1	1	C1GALT1-specific chaperone 1	I	5	3.45	-2.13	R

C1								
C18orf54	1	chromosome 18 open reading frame 54	I	0	7.84	1.82	R	
FAM210	1	unknown	I	0	3.87	-0.82	R	
A								
TEFM	1	unknown	I	0	1.65	0.96	R	
C15orf40	1	chromosome 15 open reading frame 40	I	0	1.68	-0.42	R	
C14orf64	1	chromosome 14 open reading frame 64	I	0		0.28	R	
C14orf17	1	chromosome 14 open reading frame 178	I	0	-0.52	0.03	R	
8								
C14orf11	1	chromosome 14 open reading frame 119	I	0	-0.87	-0.1	R	
9								
C12orf77	1	chromosome 12 open reading frame 77	I	0	3.03	0.42	R	
C11orf91	1	chromosome 11 open reading frame 91	I	0	3.87	2.76	R	
C11orf44	1	chromosome 11 open reading frame 44	I	0	2.72	-0.39	R	
C10orf46	1	chromosome 10 open reading frame 46	I	0	5.17	0.62	R	
C10orf32	1	chromosome 10 open reading frame 32	I	0	0.95	-0.59	R	
BZW1	1	basic leucine zipper and W2 domains 1	I	5	-0.49	0.18	R	
BUB3	1	budding uninhibited by benzimidazoles 3 homolog (yeast)	I	15	1.65	0.76	R	
BLOC1S3	1	biogenesis of lysosomal organelles complex-1, subunit 3	I	0	4.18	1.58	R	
BET1	1	blocked early in transport 1 homolog (S. cerevisiae)	I	0	2.52	-1.25	R	
BCYRN1	1	brain cytoplasmic RNA 1 (non-protein coding)	I	14	-4	-1.3	R	
BCL10	1	B-cell CLL/lymphoma 10	I	28	3.15	-1.68	R	
ATRX	1	alpha thalassemia/mental retardation syndrome X-linked	I	5	2.24	-0.33	R	
ATP5E	1	ATP synthase, H ⁺ transporting, mitochondrial F1 complex, epsilon subunit	I	5	3.1	-0.03	R	
ATG12	1	ATG12 autophagy related 12 homolog (S. cerevisiae)	I	8	4.07	-0.97	R	
ATF6	1	activating transcription factor 6	I	8	3.61	-0.14	R	
ARRDC3	1	arrestin domain containing 3	I	8	4.01	-0.59	R	
ARPC1A	1	actin related protein 2/3 complex, subunit 1A, 41kDa	I	5	1.18	0.09	R	
ARL6IP5	1	ADP-ribosylation-like factor 6 interacting protein 5	I	5	1.73	-0.76	R	

ARL6IP1	1	ADP-ribosylation factor-like 6 interacting protein 1	I	10	2.87	-0.23	R
ARHGDIB	1	Rho GDP dissociation inhibitor (GDI) beta	I	24	0.92	-0.67	R
ARF6	1	ADP-ribosylation factor 6	I	11	3.78	0.52	R
APOBEC3 C	1	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3C	I	0	0.58	-0.57	R
ANKRD40	1	ankyrin repeat domain 40	I	25	5.29	0.35	R
AFAP1	1	actin filament associated protein 1	I	0	0.94	1.04	R
AEBP2	1	AE binding protein 2	I	0	4.31	0.15	R
ACTG1	1	actin, gamma 1	I	8	-2.4	1.88	R
ZWINT	1	ZW10 interactor	I	10	-0.96	0.44	L
ZNF581	1	zinc finger protein 581	I	0	-1.92	-0.7	L
XLOC_001851	1		I	0			L
WT1-AS	1	WT1 antisense RNA (non-protein coding)	I	50		0.26	L
UHRF1	1	ubiquitin-like with PHD and ring finger domains 1	I	16	0.05	2.76	L
UBE2T	1	ubiquitin-conjugating enzyme E2T (putative)	I	20	-1.29	1.12	L
TPI1P2	1	triosephosphate isomerase 1 pseudogene 2	I	0	1.75	3.69	L
TNNT1	1	troponin T type 1 (skeletal, slow)	I	2		-0.13	L
SPAG5	1	sperm associated antigen 5	I	13	-0.12	1.41	L
SLBP	1	stem-loop binding protein	I	3	-0.21	2.08	L
SAC3D1	1	SAC3 domain containing 1	I	0	0.82	0.18	L
RPL28	1	ribosomal protein L28	I	0	-3.93	0.48	L
RECQL4	1	RecQ protein-like 4	I	15	-7.03	6.22	L
RAD54L	1	RAD54-like (<i>S. cerevisiae</i>)	I	14	-3.57	2.18	L
RAD51	1	RAD51 homolog (<i>S. cerevisiae</i>)	I	20	-2.16	1.26	L
RAC3	1	ras-related C3 botulinum toxin substrate 3 (rho family, small GTP binding protein Rac3)	I	21	-8.98	2.63	L
PTTG3P	1	pituitary tumor-transforming 3, pseudogene	I	25			L
PTTG2	1	pituitary tumor-transforming 2	I	50			L

PRRX1	1	paired related homeobox 1	I	14	-7.59	-0.12	L
PRR19	1	proline rich 19	I	0	-7.03	1.05	L
POLG2	1	polymerase (DNA directed), gamma 2, accessory subunit	I	10	4.5	0.1	L
PKMYT1	1	protein kinase, membrane associated tyrosine/threonine 1	I	8	-4.19	-0.29	L
PITX1	1	paired-like homeodomain 1	I	13	-1.85	-0.64	L
PHF19	1	PHD finger protein 19	I	29	-0.43	2.96	L
PAFAH1B3	1	platelet-activating factor acetylhydrolase 1b, catalytic subunit 3 (29kDa)	I	6	-2.23	2.38	L
OIP5	1	Opa interacting protein 5	I	20	1.75	4.25	L
NUF2	1	NUF2, NDC80 kinetochore complex component, homolog (S. cerevisiae)	I	15	-1.65	1.2	L
NUDT1	1	nudix (nucleoside diphosphate linked moiety X)-type motif 1	I	11	-8	1.84	L
NLN	1	neurolysin (metallopeptidase M3 family)	I	6	-0.14	0.82	L
NEK2	1	NIMA (never in mitosis gene a)-related kinase 2	I	11	-1.17	0.25	L
MYLK2	1	myosin light chain kinase 2	I	6			L
MXD1	1	MAX dimerization protein 1	I	20	4.78	-0.43	L
MRPS33	1	mitochondrial ribosomal protein S33	I	0	1.03	0.33	L
MNX1	1	motor neuron and pancreas homeobox 1	I	12		1.77	L
MND1	1	meiotic nuclear divisions 1 homolog (S. cerevisiae)	I	0	-3.62	4.65	L
MLF1IP	1	MLF1 interacting protein	I	4	-0.88	1.14	L
MGC12982	1	uncharacterized protein MGC12982	I	0	-7.59	2.4	L
METTL12	1	methyltransferase like 12	I	0	3.03	-0.14	L
LOC647086	1	chromosome 20 open reading frame 27 pseudogene	I	0		3.69	L
LOC645249	1	uncharacterized LOC645249	I	0		5.23	L
LOC340340	1	uncharacterized LOC340340	I	0			L
LOC284889	1	uncharacterized LOC284889	I	33	0.82	1.28	L

LOC100652764	1	uncharacterized LOC100652764	I	0	0.82	2.18	L
LEPREL4	1	leprecan-like 4	I	17	-1.3	0.54	L
KLHDC7B	1	kelch domain containing 7B	I	0		-6.06	L
KIF4A	1	kinesin family member 4A	I	11	-0.26	-1.02	L
KIF26B	1	kinesin family member 26B	I	0		0.6	L
KIF15	1	kinesin family member 15	I	11	0.24	2.63	L
KIF11	1	kinesin family member 11	I	11	2.13	-0.32	L
IQGAP3	1	IQ motif containing GTPase activating protein 3	I	0	3.03	2.87	L
IAH1	1	isoamyl acetate-hydrolyzing esterase 1 homolog (<i>S. cerevisiae</i>)	I	0	-1.07	0.08	L
HOOK2	1	hook homolog 2 (<i>Drosophila</i>)	I	0	-7.03	-0.33	L
HJURP	1	Holliday junction recognition protein	I	0	-0.88	1.09	L
HIST2H3A	1	histone cluster 2, H3a	I	2			L
HIST2H2BF	1	histone cluster 2, H2bf	I	0	0.82	-1.11	L
HIST2H2AB	1	histone cluster 2, H2ab	I	4			L
HIST1H3F	1	histone cluster 1, H3f	I	13			L
HIST1H3D	1	histone cluster 1, H3d	I	8	-2.64	-2.92	L
HIST1H3B	1	histone cluster 1, H3b	I	2			L
HIST1H2BO	1	histone cluster 1, H2bo	I	0			L
HIST1H2BM	1	histone cluster 1, H2bm	I	5			L
HIST1H2BL	1	histone cluster 1, H2bl	I	4			L
HIST1H2BJ	1	histone cluster 1, H2bj	I	6			L

HIST1H2BI	1	histone cluster 1, H2bi	I	9			L
HIST1H2BH	1	histone cluster 1, H2bh	I	0			L
HIST1H2BD	1	histone cluster 1, H2bd	I	4		-1.46	L
HIST1H2BB	1	histone cluster 1, H2bb	I	0			L
HIST1H2AL	1	histone cluster 1, H2al	I	7			L
HIST1H2AK	1	histone cluster 1, H2ak	I	5			L
HIST1H2AI	1	histone cluster 1, H2ai	I	20		-6.1	L
HIST1H2AH	1	histone cluster 1, H2ah	I	5			L
HIST1H2AD	1	histone cluster 1, H2ad	I	0			L
HIST1H2AC	1	histone cluster 1, H2ac	I	0		-4.54 -1.12	L
HIST1H2AB	1	histone cluster 1, H2ab	I	0			L
HES2	1	hairy and enhancer of split 2 (Drosophila)	I	25		-0.24 -1.08	L
GTSE1	1	G-2 and S-phase expressed 1	I	7		-2.64 2.58	L
GIN51	1	GIN5 complex subunit 1 (Psf1 homolog)	I	14		-0.96 2.14	L
FAM83A	1	family with sequence similarity 83, member A	I	33		-1.85 0.51	L
FAM64A	1	family with sequence similarity 64, member A	I	0		-0.88 6.44	L
EXO1	1	exonuclease 1	I	6		3.87 6.33	L
EME1	1	essential meiotic endonuclease 1 homolog 1 (S. pombe)	I	4		-0.74 0.23	L
ELMOD2	1	ELMO/CED-12 domain containing 2	I	0		-1.09 0.51	L
EIF4EBP1	1	eukaryotic translation initiation factor 4E binding protein 1	I	21		-3.21 1.12	L

E2F8	1	E2F transcription factor 8	I	15		1.51	L
E2F1	1	E2F transcription factor 1	I	39	-4.54	1.82	L
CTSC	1	cathepsin C	I	2	-0.75	0	L
CRYBA1	1	crystallin, beta A1	I	0			L
COX3	1	cytochrome c oxidase III	I	0			L
CISD2	1	CDGSH iron sulfur domain 2	I	0	-1.43	-0.3	L
CHSY3	1	chondroitin sulfate synthase 3	I	0		0.23	L
CHEK1	1	checkpoint kinase 1	I	26	-0.98	-0.08	L
CERS6	1	ceramide synthase 6	I	21	-1.66	0.45	L
CENPE	1	centromere protein E, 312kDa	I	6	6.27	2.48	L
CDT1	1	chromatin licensing and DNA replication factor 1	I	5	-9.3	7.02	L
CDCA7	1	cell division cycle associated 7	I	15	2.31	3.09	L
CDCA5	1	cell division cycle associated 5	I	5	-9.56	1.79	L
CDCA2	1	cell division cycle associated 2	I	0	0.54	1.24	L
CDC45	1	cell division cycle 45 homolog (<i>S. cerevisiae</i>)	I	5	-3.2	2.76	L
CDC25C	1	cell division cycle 25 homolog C (<i>S. pombe</i>)	I	14	-0.88	3.49	L
CCNA2	1	cyclin A2	I	26	-0.76	7.21	L
CBX3	1	chromobox homolog 3	I	6	-1.36	0.16	L
CASC5	1	cancer susceptibility candidate 5	I	23	-1.36	0.79	L
C6orf125	1	chromosome 6 open reading frame 125	I	0			L
C20orf27	1	chromosome 20 open reading frame 27	I	7	-8.57	0.76	L
C16orf87	1	chromosome 16 open reading frame 87	I	0	-2.24	-0.62	L
C16orf59	1	chromosome 16 open reading frame 59	I	0	-6.1	0.79	L
BUB1B	1	budding uninhibited by benzimidazoles 1 homolog beta (yeast)	I	22	-2.08	6.33	L
BOLA2B	1	bolA homolog 2B (<i>E. coli</i>)	I	0	-2.96	-0.25	L
BCL2A1	1	BCL2-related protein A1	I	25	-7.03	-0.7	L
ASPM	1	asp (abnormal spindle) homolog, microcephaly associated (<i>Drosophila</i>)	I	11	5.39	2.24	L
ARNTL2	1	aryl hydrocarbon receptor nuclear translocator-like 2	I	19	4.7	0.39	L

ARHGAP11B	1	Rho GTPase activating protein 11B	I	0		1.2	L
AMPD2	1	adenosine monophosphate deaminase 2	I	0	-4.91	-0.54	L
YWHAG	1	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma polypeptide	I	17	-0.06	-0.05	P
YWHAE	1	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide	I	12	0.35	0.05	P
YWHAB	1	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta polypeptide	I	20	0.26	-0.46	P
YEATS2	1	YEATS domain containing 2	I	0	-2.64	0.76	P
XPNPEP1	1	X-prolyl aminopeptidase (aminopeptidase P) 1, soluble	I	4	0.51	1.01	P
VSX1	1	visual system homeobox 1	I	6	1.75	-1.64	P
VDAC2	1	voltage-dependent anion channel 2	I	0	-1.56	1.04	P
VCL	1	vinculin	I	15	1.91	0.33	P
USO1	1	USO1 vesicle docking protein homolog (yeast)	I	2	-0.07	-0.38	P
UROC1	1	urocanase domain containing 1	I	13		-4.54	P
UQCRC1	1	ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1	I	11	-1.33	1.15	P
UQCRC2	1	ubiquinol-cytochrome c reductase core protein II	I	0	-0.92	-0.19	P
TUFM	1	Tu translation elongation factor, mitochondrial	I	3	-4.04	-0.53	P
TUBB4B	1	tubulin, beta 4B class IVb	I	15	-4.34	0.63	P
TUBA8	1	tubulin, alpha 8	I	7		-0.7	P
TUBA3D	1	tubulin, alpha 3d	I	11	-2.64		P
TUBA1C	1	tubulin, alpha 1c	I	9	-2.27	1.35	P
TTC39C	1	tetratricopeptide repeat domain 39C	I	0	0.28	0.32	P
TSPO	1	translocator protein (18kDa)	I	14	-3.63	0.04	P
TRAP1	1	TNF receptor-associated protein 1	I	33	-4.39	0.21	P
TRAM1	1	translocation associated membrane protein 1	I	11	-0.05	-0.07	P
TPM3	1	tropomyosin 3	I	7	-0.67	-0.33	P
TOMM70	1	translocase of outer mitochondrial membrane 70 homolog A (S.	I	4	1.54	-0.25	P

A		cerevisiae)					
TMEM14C	1	transmembrane protein 14C	I	0	-0.41	-0.34	P
TLN1	1	talin 1	I	14	-5.56	-0.13	P
TGM4	1	transglutaminase 4 (prostate)	I	18		-4.07	P
TCP1	1	t-complex 1	I	9	-0.96	1.2	P
TALDO1	1	transaldolase 1	I	3	-1.06	-0.05	P
TAGLN	1	transgelin	I	40	-11.32	-1.21	P
TACC1	1	transforming, acidic coiled-coil containing protein 1	I	33	3.3	-1.09	P
SYNCRIP	1	synaptotagmin binding, cytoplasmic RNA interacting protein	I	4	-0.39	0.16	P
SYK	1	spleen tyrosine kinase	I	16	-6.42	-0.18	P
SULT6B1	1	sulfotransferase family, cytosolic, 6B, member 1	I	0			P
SULT2B1	1	sulfotransferase family, cytosolic, 2B, member 1	I	3	-1.71	-0.26	P
SULT1C4	1	sulfotransferase family, cytosolic, 1C, member 4	I	0	3.03	0.26	P
SUCLG2	1	succinate-CoA ligase, GDP-forming, beta subunit	I	0	-0.4	-0.97	P
SUCLG1	1	succinate-CoA ligase, alpha subunit	I	0	-0.73	-1.75	P
ST13	1	suppression of tumorigenicity 13 (colon carcinoma) (Hsp70 interacting protein)	I	16	1.14	0.22	P
SPTB	1	spectrin, beta, erythrocytic	I	0	-7.03	0.44	P
SPTAN1	1	spectrin, alpha, non-erythrocytic 1 (alpha-fodrin)	I	3	-1.97	0.49	P
SNRPD1	1	small nuclear ribonucleoprotein D1 polypeptide 16kDa	I	4	0.78	-0.36	P
SMC1B	1	structural maintenance of chromosomes 1B	I	11			P
SMC1A	1	structural maintenance of chromosomes 1A	I	5	-1.01	0.29	P
SLC8A1	1	solute carrier family 8 (sodium/calcium exchanger), member 1	I	16		-0.44	P
SLC44A1	1	solute carrier family 44, member 1	I	10	2.65	-0.52	P
SLC25A6	1	solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 6	I	15	-4.16	0.75	P
SLC25A4	1	solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 4	I	7	-0.11	-0.96	P
SLC25A3	1	solute carrier family 25 (mitochondrial carrier; phosphate	I	6	-2.87	0.09	P

		carrier), member 3						
SLC25A20	1	solute carrier family 25 (carnitine/acylcarnitine translocase), member 20	I	4	0.69	-0.57	P	
SLC25A13	1	solute carrier family 25, member 13 (citrin)	I	3	-0.09	0.64	P	
SLC16A7	1	solute carrier family 16, member 7 (monocarboxylic acid transporter 2)	I	21		-1.68	P	
SLC13A3	1	solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3	I	0	-6.1	-1.81	P	
SHMT1	1	serine hydroxymethyltransferase 1 (soluble)	I	6	-1.44	-1.31	P	
SGCG	1	sarcoglycan, gamma (35kDa dystrophin-associated glycoprotein)	I	6			P	
SGCD	1	sarcoglycan, delta (35kDa dystrophin-associated glycoprotein)	I	10		-1.45	P	
SFXN1	1	sideroflexin 1	I	0	1.18	-1	P	
SFPQ	1	splicing factor proline/glutamine-rich	I	9	-0.63	0.73	P	
SFMBT1	1	Scm-like with four mbt domains 1	I	13	-6.1	-0.44	P	
SF3B3	1	splicing factor 3b, subunit 3, 130kDa	I	0	0.22	0.31	P	
SERPINB10	1	serpin peptidase inhibitor, clade B (ovalbumin), member 10	I	33			P	
SERBP1	1	SERPINE1 mRNA binding protein 1	I	3	-1.49	0.51	P	
SEPT8	1	septin 8	I	4	0.37	0.68	P	
SEC61A1	1	Sec61 alpha 1 subunit (<i>S. cerevisiae</i>)	I	4	-2.64	0.43	P	
SEC24A	1	SEC24 family, member A (<i>S. cerevisiae</i>)	I	0	0.1	-1.02	P	
SEC23A	1	Sec23 homolog A (<i>S. cerevisiae</i>)	I	4	0.73	-0.85	P	
SDHA	1	succinate dehydrogenase complex, subunit A, flavoprotein (Fp)	I	12	-1.29	-0.2	P	
SCP2	1	sterol carrier protein 2	I	4	0.89	-1.67	P	
SCCPDH	1	saccharopine dehydrogenase (putative)	I	0	-1.46	-0.29	P	
RTN4	1	reticulon 4	I	15	-0.05	-1.21	P	
RPS4X	1	ribosomal protein S4, X-linked	I	5	-0.62	0.29	P	
RPS23	1	ribosomal protein S23	I	4	-0.07	0.09	P	
RPS10	1	ribosomal protein S10	I	9	-3.57	1.08	P	

RPL8	1	ribosomal protein L8	I	4	-3.47	0.4	P
RPL3	1	ribosomal protein L3	I	2	-1.65	0.4	P
RPL15	1	ribosomal protein L15	I	0	-0.78	0.78	P
RPL14	1	ribosomal protein L14	I	9	-1.66	1.53	P
RPL12	1	ribosomal protein L12	I	6	-1.58	0.38	P
RPL11	1	ribosomal protein L11	I	23	-0.36	-0.16	P
RHOC	1	ras homolog gene family, member C	I	29	-3.05	0.4	P
RHOA	1	ras homolog gene family, member A	I	29	-1.22	-1.7	P
RGMA	1	RGM domain family, member A	I	4	-6.1	1.41	P
RAI1	1	retinoic acid induced 1	I	7	-7.03	1.86	P
RAC2	1	ras-related C3 botulinum toxin substrate 2 (rho family, small GTP binding protein Rac2)	I	9	-3.82	1	P
RAB8B	1	RAB8B, member RAS oncogene family	I	0	1.26	0.29	P
RAB3GA P1	1	RAB3 GTPase activating protein subunit 1 (catalytic)	I	0	-0.11	-0.23	P
RAB27A	1	RAB27A, member RAS oncogene family	I	7	0.26	-0.89	P
RAB10	1	RAB10, member RAS oncogene family	I	0	-2.73	1.23	P
PTBP2	1	polypyrimidine tract binding protein 2	I	8	3.7	0.55	P
PTBP1	1	polypyrimidine tract binding protein 1	I	2	-3.55	0.7	P
PSMD2	1	proteasome (prosome, macropain) 26S subunit, non-ATPase, 2	I	6	-1.25	0.72	P
PSMD13	1	proteasome (prosome, macropain) 26S subunit, non-ATPase, 13	I	4	-1.12	0.52	P
PSMA7	1	proteasome (prosome, macropain) subunit, alpha type, 7	I	5	0.05	0.11	P
PSMA4	1	proteasome (prosome, macropain) subunit, alpha type, 4	I	0	-0.58	-1.34	P
PRPS2	1	phosphoribosyl pyrophosphate synthetase 2	I	6	2.27	-0.63	P
PRPF8	1	PRP8 pre-mRNA processing factor 8 homolog (S. cerevisiae)	I	3	-0.88	-0.22	P
PRPF4B	1	PRP4 pre-mRNA processing factor 4 homolog B (yeast)	I	3	1.2	-0.65	P
PREP	1	prolyl endopeptidase	I	7	-0.03	0.21	P
PRDX3	1	peroxiredoxin 3	I	13	-0.82	-1.61	P
PRDX1	1	peroxiredoxin 1	I	18	-0.3	-0.58	P
PPP2R2D	1	protein phosphatase 2, regulatory subunit B, delta	I	0	-8.31	0.67	P

PPP2R2B	1	protein phosphatase 2, regulatory subunit B, beta	I	13	-8	-0.88	P
PPP2R2A	1	protein phosphatase 2, regulatory subunit B, alpha	I	19	1.24	0.17	P
PLSCR1	1	phospholipid scramblase 1	I	14	-2.93	-0.62	P
PHEX	1	phosphate regulating endopeptidase homolog, X-linked	I	13		-4.16	P
PGAM1	1	phosphoglycerate mutase 1 (brain)	I	6	-3.34	0.36	P
PFKL	1	phosphofructokinase, liver	I	3	-6.68	1.05	P
PDIA3	1	protein disulfide isomerase family A, member 3	I	7	-0.23	0.59	P
PDHA1	1	pyruvate dehydrogenase (lipoamide) alpha 1	I	4	-1.09	-0.22	P
PCK2	1	phosphoenolpyruvate carboxykinase 2 (mitochondrial)	I	0	-3.94	0.38	P
PCCB	1	propionyl CoA carboxylase, beta polypeptide	I	6	-0.61	0.15	P
PCBP3	1	poly(rC) binding protein 3	I	5		5.64	P
PAH	1	phenylalanine hydroxylase	I	0	-9.15	-2.49	P
PAFAH1B2	1	platelet-activating factor acetylhydrolase 1b, catalytic subunit 2 (30kDa)	I	14	4.96	-0.33	P
PABPC4	1	poly(A) binding protein, cytoplasmic 4 (inducible form)	I	5	-2.92	0.9	P
PABPC1	1	poly(A) binding protein, cytoplasmic 1	I	6	-1.33	1.33	P
OXCT1	1	3-oxoacid CoA transferase 1	I	0	-0.46	-0.75	P
OCIAD1	1	OCIA domain containing 1	I	0	0.53	0.25	P
NUDT16L1	1	nudix (nucleoside diphosphate linked moiety X)-type motif 16-like 1	I	0	-2.64	-0.04	P
NNT	1	nicotinamide nucleotide transhydrogenase	I	0	-1.8	-0.57	P
NME4	1	non-metastatic cells 4, protein expressed in	I	0	-3.36	-0.31	P
NEU2	1	sialidase 2 (cytosolic sialidase)	I	7			P
NEFL	1	neurofilament, light polypeptide	I	2	-11.29	-0.96	P
NDUFV1	1	NADH dehydrogenase (ubiquinone) flavoprotein 1, 51kDa	I	0	-7.09	0.5	P
ND5	1	NADH dehydrogenase subunit 5	I	5			P
ND4	1	NADH dehydrogenase, subunit 4 (complex I)	I	3			P
ND2	1	MTND2	I	13			P
ND1	1	NADH dehydrogenase, subunit 1 (complex I)	I	4			P
NCSTN	1	nicastatin	I	5	-0.12	0.61	P

NCAM1	1	neural cell adhesion molecule 1	I	20	-8.57	0.66	P
NAP1L1	1	nucleosome assembly protein 1-like 1	I	0	-0.15	0.09	P
NAMPT	1	nicotinamide phosphoribosyltransferase	I	18	-0.26	-0.16	P
NADKD1	1	NAD kinase domain containing 1	I	0	1.15	-0.7	P
MYH9	1	myosin, heavy chain 9, non-muscle	I	7	-2.91	1	P
MYH7	1	myosin, heavy chain 7, cardiac muscle, beta	I	1		-0.89	P
MYH11	1	myosin, heavy chain 11, smooth muscle	I	9	3.51	-1.82	P
MYH10	1	myosin, heavy chain 10, non-muscle	I	7	1.63	-0.39	P
MTTP	1	microsomal triglyceride transfer protein	I	11	-6.1	-0.48	P
MTHFD1	1	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1, methenyltetrahydrofolate cyclohydrolase, formyltetrahydrofolate synthetase	I	6	-0.99	1.1	P
MSN	1	moesin	I	34	-0.7	-0.11	P
MOXD1	1	monooxygenase, DBH-like 1	I	0		-0.78	P
MOGAT1	1	monoacylglycerol O-acyltransferase 1	I	0			P
MINPP1	1	multiple inositol-polyphosphate phosphatase 1	I	23	-1.25	-0.7	P
MGST1	1	microsomal glutathione S-transferase 1	I	4	-1.18	-0.94	P
MDH1	1	malate dehydrogenase 1, NAD (soluble)	I	3	1.82	-1.45	P
MAT1A	1	methionine adenosyltransferase I, alpha	I	3		-0.96	P
LRPPRC	1	leucine-rich PPR-motif containing	I	10	0.11	-0.04	P
LMNB2	1	lamin B2	I	5	-3.62	2.31	P
LGSN	1	lengsin, lens protein with glutamine synthetase domain	I	9	-1.66	1.51	P
LDHA	1	lactate dehydrogenase A	I	20	0.64	-0.04	P
LCP1	1	lymphocyte cytosolic protein 1 (L-plastin)	I	24	-8.46	-0.55	P
LASP1	1	LIM and SH3 protein 1	I	14	-0.27	0.88	P
LAP3	1	leucine aminopeptidase 3	I	0	1.92	-0.05	P
L1CAM	1	L1 cell adhesion molecule	I	23	-7.59	0.38	P
KRT75	1	keratin 75	I	0		1.51	P
KPNB1	1	karyopherin (importin) beta 1	I	6	0.15	-1.11	P

KPNA4	1	karyopherin alpha 4 (importin alpha 3)	I	1	2.07	-0.7	P
KLF2	1	Kruppel-like factor 2 (lung)	I	50		1.14	P
KLF15	1	Kruppel-like factor 15	I	16	-3.57	-0.41	P
KIAA1731	1	KIAA1731	I	0	-1.33	1.12	P
KDEL2	1	KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 2	I	0	0.08	-0.48	P
KARS	1	lysyl-tRNA synthetase	I	2	-0.99	-0.02	P
IRG1	1	immunoresponsive 1 homolog (mouse)	I	0			P
INADL	1	InaD-like (Drosophila)	I	3	0.1	-1.27	P
IMPDH2	1	IMP (inosine 5'-monophosphate) dehydrogenase 2	I	10	-3.89	0.68	P
IMMT	1	inner membrane protein, mitochondrial	I	3	0.35	0.39	P
IFT81	1	intraflagellar transport 81 homolog (Chlamydomonas)	I	0	1.23	-1.02	P
IDH3A	1	isocitrate dehydrogenase 3 (NAD+) alpha	I	0	0.21	-0.11	P
IDH1	1	isocitrate dehydrogenase 1 (NADP+), soluble	I	39	0.34	-0.51	P
HSPE1	1	heat shock 10kDa protein 1 (chaperonin 10)	I	18	4.18	0.96	P
HSPA9	1	heat shock 70kDa protein 9 (mortalin)	I	23	-1.7	0.2	P
HSPA5	1	heat shock 70kDa protein 5 (glucose-regulated protein, 78kDa)	I	19	-1.22	0.3	P
HSP90B1	1	heat shock protein 90kDa beta (Grp94), member 1	I	24	-0.68	-0.17	P
HSDL2	1	hydroxysteroid dehydrogenase like 2	I	0	1.05	-1.17	P
HSD17B4	1	hydroxysteroid (17-beta) dehydrogenase 4	I	9	0.82	-0.15	P
HPGDS	1	hematopoietic prostaglandin D synthase	I	8		-1.26	P
HPD	1	4-hydroxyphenylpyruvate dioxygenase	I	0	-9.15	-4.63	P
HP1BP3	1	heterochromatin protein 1, binding protein 3	I	7	0.8	0.55	P
HNRNPU L2	1	heterogeneous nuclear ribonucleoprotein U-like 2	I	0	-2.93	-0.39	P
HNRNPU	1	heterogeneous nuclear ribonucleoprotein U (scaffold attachment factor A)	I	5	-0.54	-0.54	P
HNRNPR	1	heterogeneous nuclear ribonucleoprotein R	I	5	-1.17	0.79	P
HNRNPM	1	heterogeneous nuclear ribonucleoprotein M	I	5	-1.66	0.75	P

HNRNPD	1	heterogeneous nuclear ribonucleoprotein D (AU-rich element RNA binding protein 1, 37kDa)	I	12	-0.72	0.84	P
HNRNPA B	1	heterogeneous nuclear ribonucleoprotein A/B	I	10	-2.03	1.35	P
HNRNPA 3	1	heterogeneous nuclear ribonucleoprotein A3	I	7	-0.43	-0.03	P
HNRNPA 2B1	1	heterogeneous nuclear ribonucleoprotein A2/B1	I	18	-0.03	0.06	P
HNMT	1	histamine N-methyltransferase	I	2	-1.1	-1.1	P
HMGCS1	1	3-hydroxy-3-methylglutaryl-CoA synthase 1 (soluble)	I	0	1.23	-0.9	P
HK1	1	hexokinase 1	I	7	-3.69	0.31	P
HIST2H3 D	1	histone cluster 2, H3d	I	0			P
HIST1H4 A	1	histone cluster 1, H4a	I	9			P
HIST1H1 D	1	histone cluster 1, H1d	I	5			P
HIBCH	1	3-hydroxyisobutyryl-CoA hydrolase	I	8	1.25	-2.65	P
HGD	1	homogentisate 1,2-dioxygenase	I	0	-8	-0.74	P
HBZ	1	hemoglobin, zeta	I	0			P
HBE1	1	hemoglobin, epsilon 1	I	0		4.25	P
HADHB	1	hydroxyacyl-CoA dehydrogenase/3-ketoacyl-CoA thiolase/enoyl-CoA hydratase (trifunctional protein), beta subunit	I	5	1.44	-0.96	P
HADHA	1	hydroxyacyl-CoA dehydrogenase/3-ketoacyl-CoA thiolase/enoyl-CoA hydratase (trifunctional protein), alpha subunit	I	3	-1.25	0.09	P
GSTZ1	1	glutathione transferase zeta 1	I	9	-3.21	-0.24	P
GSTA1	1	glutathione S-transferase alpha 1	I	8	-9.15	-1.2	P
GRSF1	1	G-rich RNA sequence binding factor 1	I	0	-0.43	0.64	P
GRHPR	1	glyoxylate reductase/hydroxypyruvate reductase	I	0	-2.28	0.14	P
GPX4	1	glutathione peroxidase 4 (phospholipid hydroperoxidase)	I	15	-3.85	-0.21	P
GPD1L	1	glycerol-3-phosphate dehydrogenase 1-like	I	7	-2.64	-0.19	P

GOT2	1	glutamic-oxaloacetic transaminase 2, mitochondrial (aspartate aminotransferase 2)	I	5	-2.1	0.33	P
GOT1	1	glutamic-oxaloacetic transaminase 1, soluble (aspartate aminotransferase 1)	I	5	-1.27	-0.58	P
GOLT1B	1	golgi transport 1B	I	7	-1.06	-0.77	P
GNB2L1	1	guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1	I	15	-1.69	0.33	P
GNAI2	1	guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 2	I	10	-4.16	0.92	P
GLUL	1	glutamate-ammonia ligase	I	5	-0.66	0.17	P
GLUD1	1	glutamate dehydrogenase 1	I	4	-0.71	-0.82	P
GDI2	1	GDP dissociation inhibitor 2	I	15	-1.3	-0.32	P
GCAT	1	glycine C-acetyltransferase	I	0	-4.14	-0.55	P
GBAS	1	glioblastoma amplified sequence	I	6	0.23	-0.16	P
GART	1	phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase	I	9	-1.06	1.32	P
GARS	1	glycyl-tRNA synthetase	I	3	-2.06	1.13	P
GALM	1	galactose mutarotase (aldose 1-epimerase)	I	10	-1.65	-1.2	P
GALC	1	galactosylceramidase	I	3	-0.8	-1.33	P
GABPA	1	GA binding protein transcription factor, alpha subunit 60kDa	I	10	0.05	-0.6	P
FUS	1	fused in sarcoma	I	13	-3.26	1.32	P
FTCD	1	formiminotransferase cyclodeaminase	I	19		-2.69	P
FNDC1	1	fibronectin type III domain containing 1	I	14		0.85	P
FKBP3	1	FK506 binding protein 3, 25kDa	I	14	0.37	-0.96	P
FERMT2	1	fermitin family member 2	I	14	0.14	-0.17	P
FECH	1	ferrochelatase	I	2	-0.28	-0.26	P
FDXR	1	ferredoxin reductase	I	12	-3.57	-0.89	P
FBP1	1	fructose-1,6-bisphosphatase 1	I	4	-7.03	-1.16	P
FAT1	1	FAT tumor suppressor homolog 1 (Drosophila)	I	28	-10.22	0.04	P

FASTKD1	1	FAST kinase domains 1	I	0	0.62	0.29	P
FAAH	1	fatty acid amide hydrolase	I	7		-0.84	P
EZR	1	ezrin	I	33	-1.75	1.29	P
ETFDH	1	electron-transferring-flavoprotein dehydrogenase	I	8	-0.03	-0.44	P
ETFA	1	electron-transfer-flavoprotein, alpha polypeptide	I	0	-1.39	-0.84	P
ESD	1	esterase D	I	9	-1.04	-0.79	P
EPHX1	1	epoxide hydrolase 1, microsomal (xenobiotic)	I	9	-9.3	0.23	P
EPB42	1	erythrocyte membrane protein band 4.2	I	3		2.76	P
EPB41	1	erythrocyte membrane protein band 4.1 (elliptocytosis 1, RH-linked)	I	6	-1.07	0.17	P
ENO1	1	enolase 1, (alpha)	I	20	-0.79	0.76	P
EML4	1	echinoderm microtubule associated protein like 4	I	24	-1	1.04	P
EIF5	1	eukaryotic translation initiation factor 5	I	0	-0.09	-0.04	P
EIF4A2	1	eukaryotic translation initiation factor 4A2	I	0	-1.51	0.43	P
EIF3L	1	eukaryotic translation initiation factor 3, subunit L	I	0	-1.34	1.17	P
EIF2AK3	1	eukaryotic translation initiation factor 2-alpha kinase 3	I	17	-1.28	-0.24	P
EEF2	1	eukaryotic translation elongation factor 2	I	14	-5.53	0.5	P
EEF1G	1	eukaryotic translation elongation factor 1 gamma	I	4	-2.67	0.88	P
ECI1	1	enoyl-CoA delta isomerase 1	I	0	-3.04	0.56	P
DSTN	1	destrin (actin depolymerizing factor)	I	0	0.23	0.12	P
DSP	1	desmoplakin	I	10	-5.04	0.81	P
DSG1	1	desmoglein 1	I	5		-0.7	P
DPYSL2	1	dihydropyrimidinase-like 2	I	3	5.42	-0.73	P
DOPEY2	1	dopey family member 2	I	7	-1.28	-0.7	P
DNMT3B	1	DNA (cytosine-5-)-methyltransferase 3 beta	I	30	-7.59	5.64	P
DMGDH	1	dimethylglycine dehydrogenase	I	14	-6.1	-8.42	P
DLD	1	dihydrolipoamide dehydrogenase	I	2	1.73	-0.5	P
DHX15	1	DEAH (Asp-Glu-Ala-His) box polypeptide 15	I	13	-1.01	0.43	P
DHTKD1	1	dehydrogenase E1 and transketolase domain containing 1	I	14	3.53	-0.27	P

DES	1	desmin	I	7	-6.1	-1.61	P
DDX3X	1	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, X-linked	I	14	0.47	0.13	P
DDX39B	1	DEAD (Asp-Glu-Ala-Asp) box polypeptide 39B	I	9	-3.08	-0.11	P
DDOST	1	dolichyl-diphosphooligosaccharide--protein glycosyltransferase	I	12	-1.32	0.32	P
DBT	1	dihydrolipoamide branched chain transacylase E2	I	3	1.19	-0.55	P
DARS	1	aspartyl-tRNA synthetase	I	0	0.8	0.9	P
DAK	1	dihydroxyacetone kinase 2 homolog (<i>S. cerevisiae</i>)	I	0	-3.43	-0.02	P
CYP3A4	1	cytochrome P450, family 3, subfamily A, polypeptide 4	I	5	-9.67	-1.92	P
CYP2E1	1	cytochrome P450, family 2, subfamily E, polypeptide 1	I	7	-8	-1.84	P
CYFIP1	1	cytoplasmic FMR1 interacting protein 1	I	4	0.24	0.4	P
CYCS	1	cytochrome c, somatic	I	8	-4.84	-0.58	P
CTH	1	cystathionase (cystathionine gamma-lyase)	I	14	-2.64	-2.53	P
CRAT	1	carnitine O-acetyltransferase	I	6	-7.59	-1.48	P
CPT2	1	carnitine palmitoyltransferase 2	I	3	-1.97	0.01	P
CPT1A	1	carnitine palmitoyltransferase 1A (liver)	I	10	2.55	-0.51	P
CPPED1	1	calcineurin-like phosphoesterase domain containing 1	I	0	1.08	-1.01	P
CPOX	1	coproporphyrinogen oxidase	I	2	-1.54	-1.01	P
CPNE1	1	copine I	I	10	-0.61	0.41	P
CPM	1	carboxypeptidase M	I	23	1.61	-1.02	P
COX1	1	cytochrome c oxidase subunit I	I	14			P
CORO1C	1	coronin, actin binding protein, 1C	I	4	1.77	-0.34	P
COPB2	1	coatamer protein complex, subunit beta 2 (beta prime)	I	3	-0.78	-0.01	P
CNN1	1	calponin 1, basic, smooth muscle	I	21	-6.1	-2.18	P
CNDP2	1	CNDP dipeptidase 2 (metallopeptidase M20 family)	I	0	-1.42	0.48	P
CMBL	1	carboxymethylenebutenolidase homolog (<i>Pseudomonas</i>)	I	25	0.56	-0.64	P
CLTC	1	clathrin, heavy chain (Hc)	I	4	0.54	-0.45	P
CHGB	1	chromogranin B (secretogranin 1)	I	7		0.34	P
CES1	1	carboxylesterase 1	I	10	-8.57	-2.33	P
CEP290	1	centrosomal protein 290kDa	I	8	0.56	1.08	P

CCT8	1	chaperonin containing TCP1, subunit 8 (theta)	I	8	-0.74	0.54	P
CCT7	1	chaperonin containing TCP1, subunit 7 (eta)	I	8	-3.37	1.89	P
CCT6A	1	chaperonin containing TCP1, subunit 6A (zeta 1)	I	12	-0.89	0.87	P
CCT5	1	chaperonin containing TCP1, subunit 5 (epsilon)	I	13	-0.07	0.98	P
CCT4	1	chaperonin containing TCP1, subunit 4 (delta)	I	10	-1.52	-0.2	P
CCT2	1	chaperonin containing TCP1, subunit 2 (beta)	I	11	-0.37	0.91	P
CBS	1	cystathionine-beta-synthase	I	16	-6.51	1.23	P
CBR1	1	carbonyl reductase 1	I	12	-4.54	0.62	P
CAT	1	catalase	I	15	-0.84	-0.19	P
CAPZB	1	capping protein (actin filament) muscle Z-line, beta	I	11	-3.55	1.35	P
C2CD3	1	C2 calcium-dependent domain containing 3	I	0	-2.64	-0.29	P
BSG	1	basigin (Ok blood group)	I	44	-4.83	0.07	P
BRP44	1	brain protein 44	I	6	-0.06	0.25	P
BHMT	1	betaine--homocysteine S-methyltransferase	I	9	-8	-2.5	P
ATP6	1	ATP synthase F0 subunit 6	I	3			P
ATP5I	1	ATP synthase, H+ transporting, mitochondrial Fo complex, subunit E	I	5	2.11	0.54	P
ATP5F1	1	ATP synthase, H+ transporting, mitochondrial Fo complex, subunit B1	I	0	0.31	-0.84	P
ATP5B	1	ATP synthase, H+ transporting, mitochondrial F1 complex, beta polypeptide	I	18	-1.62	0.03	P
ATP5A1	1	ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle	I	15	-0.78	-0.15	P
ATP2B2	1	ATPase, Ca++ transporting, plasma membrane 2	I	9	-6.1	-0.25	P
ATP1A1	1	ATPase, Na+/K+ transporting, alpha 1 polypeptide	I	12	-2.27	-0.14	P
ATIC	1	5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase	I	5	-3.35	1.39	P
ARF1	1	ADP-ribosylation factor 1	I	7	-4.66	1.49	P
AQP3	1	aquaporin 3 (Gill blood group)	I	11	-2.64	-1.66	P
ANXA6	1	annexin A6	I	12	-3.05	-0.38	P

ANXA5	1	annexin A5	I	18	2.08	0.66	P
ANP32A	1	acidic (leucine-rich) nuclear phosphoprotein 32 family, member A	I	27	-1	0.67	P
ANK2	1	ankyrin 2, neuronal	I	5	-6.1	-0.83	P
ANK1	1	ankyrin 1, erythrocytic	I	5	-8.31	-1.98	P
AMT	1	aminomethyltransferase	I	8	-2.64	-0.78	P
AMDHD1	1	amidohydrolase domain containing 1	I	17		-1.88	P
ALDOB	1	aldolase B, fructose-bisphosphate	I	0	-9.43	-2.38	P
ALDH9A1	1	aldehyde dehydrogenase 9 family, member A1	I	4	-2.24	-0.67	P
ALDH7A1	1	aldehyde dehydrogenase 7 family, member A1	I	3	0.63	-0.37	P
ALDH4A1	1	aldehyde dehydrogenase 4 family, member A1	I	6	-3.04	-0.36	P
ALDH3A2	1	aldehyde dehydrogenase 3 family, member A2	I	0	0.54	-1.18	P
ALDH2	1	aldehyde dehydrogenase 2 family (mitochondrial)	I	7	-1.11	-0.5	P
ALDH18A1	1	aldehyde dehydrogenase 18 family, member A1	I	3	0.21	1.24	P
ALAD	1	aminolevulinate dehydratase	I	9	-1.66	-0.57	P
AKR7A2	1	aldo-keto reductase family 7, member A2 (aflatoxin aldehyde reductase)	I	14	-2.76	-0.14	P
AKR1A1	1	aldo-keto reductase family 1, member A1 (aldehyde reductase)	I	3	-1.81	-0.65	P
AIFM1	1	apoptosis-inducing factor, mitochondrion-associated, 1	I	13	-1.54	-0.84	P
AGXT2L1	1	alanine-glyoxylate aminotransferase 2-like 1	I	0		-2.26	P
AGXT	1	alanine-glyoxylate aminotransferase	I	2	-7.03	-1.61	P
ADSL	1	adenylosuccinate lyase	I	3	-1.48	-0.1	P
ADH5	1	alcohol dehydrogenase 5 (class III), chi polypeptide	I	8	-0.46	-1.33	P
ADH1C	1	alcohol dehydrogenase 1C (class I), gamma polypeptide	I	7	-3.57	-3.22	P
ADH1B	1	alcohol dehydrogenase 1B (class I), beta polypeptide	I	4	-9.56	-1.85	P
ADD1	1	adducin 1 (alpha)	I	14	-3.77	0.85	P
ACTR2	1	ARP2 actin-related protein 2 homolog (yeast)	I	5	-0.36	-0.28	P
ACTB	1	actin, beta	I	9	-1.5	0.86	P
ACSS1	1	acyl-CoA synthetase short-chain family member 1	I	6	-7.59	-1.33	P
ACSL1	1	acyl-CoA synthetase long-chain family member 1	I	4	-2.96	-1.57	P

ACSF2	1	acyl-CoA synthetase family member 2	I	0	-6.1	-0.46	P
ACOX2	1	acyl-CoA oxidase 2, branched chain	I	11	-1.36	-1.45	P
ACOX1	1	acyl-CoA oxidase 1, palmitoyl	I	0	0.99	-1.44	P
ACO2	1	aconitase 2, mitochondrial	I	0	-4.48	0.53	P
ACO1	1	aconitase 1, soluble	I	11	-2.93	0	P
ACLY	1	ATP citrate lyase	I	9	1.79	0.72	P
ACER3	1	alkaline ceramidase 3	I	9	-2.64	0.03	P
ACAT2	1	acetyl-CoA acetyltransferase 2	I	8	-0.36	-0.81	P
ACAT1	1	acetyl-CoA acetyltransferase 1	I	2	0.82	0.18	P
ACADVL	1	acyl-CoA dehydrogenase, very long chain	I	5	-4.38	0.08	P
ACAD9	1	acyl-CoA dehydrogenase family, member 9	I	0	-0.68	0.48	P
ACAD11	1	acyl-CoA dehydrogenase family, member 11	I	8	-0.69	-0.2	P
ACACB	1	acetyl-CoA carboxylase beta	I	8	-1.68	-0.59	P
ACAA2	1	acetyl-CoA acyltransferase 2	I	20	-1.23	-1.52	P
ABCE1	1	ATP-binding cassette, sub-family E (OABP), member 1	I	6	0.14	-0.24	P
AADAC	1	arylacetamide deacetylase (esterase)	I	0	-6.1	-0.32	P
ARG2	1	arginase, type II	I	34	-2.5	-1.83	N
PTGS2	1	prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)	I	37	-0.88	-2.1	N
MIR3189	1	microRNA 3189	I	33			N
MEG3	1	maternally expressed 3 (non-protein coding)	I	31	-3.5	0.65	N
EEF1A2	1	eukaryotic translation elongation factor 1 alpha 2	I	30	-10.36	2.47	N
FHL2	1	four and a half LIM domains 2	I	29	-1.07	-0.85	N
UGT1A5	1	UDP glucuronosyltransferase 1 family, polypeptide A5	I	29			N
FAM167B	1	family with sequence similarity 167, member B	I	20		-6.85	N
UGT1A3	1	UDP glucuronosyltransferase 1 family, polypeptide A3	I	14			N
CYP24A1	1	cytochrome P450, family 24, subfamily A, polypeptide 1	I	13	-6.1	-8.98	N
UCHL1	1	ubiquitin carboxyl-terminal esterase L1 (ubiquitin thiolesterase)	I	13	-5.96	0.32	N
DUSP23	1	dual specificity phosphatase 23	I	13	0.82	-0.57	N

UGT1A4	1	UDP glucuronosyltransferase 1 family, polypeptide A4	I	13		-5.66	N
UGT1A10	1	UDP glucuronosyltransferase 1 family, polypeptide A10	I	12		1.77	N
AKR1C1	1	aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogenase 1; 20-alpha (3-alpha)-hydroxysteroid dehydrogenase)	I	11	-1.44	-0.26	N
OVOL1	1	ovo-like 1(Drosophila)	I	10		-0.44	N
UGT1A8	1	UDP glucuronosyltransferase 1 family, polypeptide A8	I	10			N
UGT1A6	1	UDP glucuronosyltransferase 1 family, polypeptide A6	I	9		-1.67	N
UGT1A9	1	UDP glucuronosyltransferase 1 family, polypeptide A9	I	6	-9.78	-2.02	N
UGT1A7	1	UDP glucuronosyltransferase 1 family, polypeptide A7	I	6			N
NREP	1	neuronal regeneration related protein homolog (rat)	I	5	-2.44	1.53	N
UGT1A1	1	UDP glucuronosyltransferase 1 family, polypeptide A1	I	5		-5.09	N
AKR1C2	1	aldo-keto reductase family 1, member C2 (dihydrodiol dehydrogenase 2; bile acid binding protein; 3-alpha hydroxysteroid dehydrogenase, type III)	I	4	-0.89	0.05	N
RPSAP58	1	ribosomal protein SA pseudogene 58	I	0	-0.31	0.23	N
NUP37	1	nucleoporin 37kDa	I	0	0.47	1.48	N
SNORA24	1	small nucleolar RNA, H/ACA box 24	I	0			N
SCARNA7	1	small Cajal body-specific RNA 7	I	0			N
HIC1	1	hypermethylated in cancer 1	I	79		-2.24	N
MYCN	1	v-myc myelocytomatosis viral related oncogene, neuroblastoma derived (avian)	I	59	2.31	1.86	N
TRAF4	1	TNF receptor-associated factor 4	I	50	-5.11	0.94	N
MIR3688-2	1	microRNA 3688-2	I	50			N
MIR205	1	microRNA 205	I	50			N
NKX3-1	1	NK3 homeobox 1	I	49	4.94	-0.92	N
KLF5	1	Kruppel-like factor 5 (intestinal)	I	47	-3.84	0.19	N
MIR21	1	microRNA 21	I	45	-2.64		N

CSRP2	1	cysteine and glycine-rich protein 2	I	42	-3.62	2.78	N
CDKN2D	1	cyclin-dependent kinase inhibitor 2D (p19, inhibits CDK4)	I	40	0.82	1.54	N
ZNFX1-AS1	1	ZNFX1 antisense RNA 1 (non-protein coding)	I	40	1.34	0.13	N
NRARP	1	NOTCH-regulated ankyrin repeat protein	I	40		2.13	N
FSCN1	1	fascin homolog 1, actin-bundling protein (Strongylocentrotus purpuratus)	I	37	-3.1	3.47	N
MIR424	1	microRNA 424	I	36			N
SIM2	1	single-minded homolog 2 (Drosophila)	I	34	-6.1	-0.44	N
GAS8	1	growth arrest-specific 8	I	33	-6.1	1.15	N
ELF3	1	E74-like factor 3 (ets domain transcription factor, epithelial-specific)	I	33	-4.54	-0.29	N
C12orf75	1	chromosome 12 open reading frame 75	I	33	-1.87	-1.06	N
RIPK4	1	receptor-interacting serine-threonine kinase 4	I	28	-7.03	-1.28	N
HSD3B1	1	hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 1	I	28		-4.16	N
GGCT	1	gamma-glutamylcyclotransferase	I	26	-2.1	-1.4	N
SOX9	1	SRY (sex determining region Y)-box 9	I	25	-4.32	0.35	N
PIM3	1	pim-3 oncogene	I	25	-2.33	-0.03	N
JUND	1	jun D proto-oncogene	I	25	-0.44	-0.12	N
MCTS1	1	malignant T cell amplified sequence 1	I	25	-0.06	0.52	N
GOLT1A	1	golgi transport 1A	I	25		-0.04	N
DNAJC12	1	DnaJ (Hsp40) homolog, subfamily C, member 12	I	25		0.86	N
TGIF2	1	TGFB-induced factor homeobox 2	I	24	0.33	1.44	N
SERTAD1	1	SERTA domain containing 1	I	23	-8	-1.43	N
PPP1R14C	1	protein phosphatase 1, regulatory (inhibitor) subunit 14C	I	23		-0.13	N
PHACTR3	1	phosphatase and actin regulator 3	I	22	0.05	1.92	N
GPX2	1	glutathione peroxidase 2 (gastrointestinal)	I	21	-7.03	1.11	N
MFSD2A	1	major facilitator superfamily domain containing 2A	I	21		-0.17	N

TSPYL2	1	TSPY-like 2	I	20	-9.3	0.01	N
ZNF121	1	zinc finger protein 121	I	20	-7.03	0.23	N
ENOSF1	1	enolase superfamily member 1	I	20	-0.02	-0.8	N
ANKRD37	1	ankyrin repeat domain 37	I	20	4.69	-0.7	N
RPPH1	1	ribonuclease P RNA component H1	I	20		2.76	N
LMO2	1	LIM domain only 2 (rhombotin-like 1)	I	19	5.08	0.45	N
HES1	1	hairy and enhancer of split 1, (Drosophila)	I	18	-1.25	0.17	N
PPARG	1	peroxisome proliferator-activated receptor gamma	I	18	1.32	-1.43	N
GZMB	1	granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1)	I	17	-8.57	1.05	N
SEPT5-GP1BB	1	SEPT5-GP1BB readthrough	I	17		2.5	N
CEBPA	1	CCAAT/enhancer binding protein (C/EBP), alpha	I	16	-6.1	0.8	N
PCGF6	1	polycomb group ring finger 6	I	15	0.56	0.28	N
HOXD10	1	homeobox D10	I	15	3.03	-6.85	N
KRT5	1	keratin 5	I	14	-11.72	1.05	N
PSMG1	1	proteasome (prosome, macropain) assembly chaperone 1	I	14	-3.92	-0.05	N
FOXS1	1	forkhead box S1	I	14		-1.11	N
SHC2	1	SHC (Src homology 2 domain containing) transforming protein 2	I	14		2.51	N
SPSB3	1	splA/ryanodine receptor domain and SOCS box containing 3	I	13	-8.98	0.8	N
UCA1	1	urothelial cancer associated 1 (non-protein coding)	I	13	-5.11	1.83	N
PLK2	1	polo-like kinase 2	I	13	-1.6	-0.07	N
CCDC58	1	coiled-coil domain containing 58	I	13	-1.25	-0.04	N
UFSP1	1	UFM1-specific peptidase 1 (non-functional)	I	13		4.97	N
EIF4A3	1	eukaryotic translation initiation factor 4A3	I	12	-3.22	1.2	N
HSPA6	1	heat shock 70kDa protein 6 (HSP70B')	I	11	-6.1	-0.3	N
DLX5	1	distal-less homeobox 5	I	11		1	N
MIR503	1	microRNA 503	I	11			N
SEPT5	1	septin 5	I	9	-7.03	1.81	N

MAPK10	1	mitogen-activated protein kinase 10	I	9	-3.57	0.06	N
G0S2	1	G0/G1switch 2	I	8	-7.59	0.1	N
TIMM17B	1	translocase of inner mitochondrial membrane 17 homolog B (yeast)	I	8	-7.03	-0.7	N
GSTM1	1	glutathione S-transferase mu 1	I	8	-4.18	-0.85	N
ARL4A	1	ADP-ribosylation factor-like 4A	I	8	-1.83	0.2	N
MAFA	1	v-maf musculoaponeurotic fibrosarcoma oncogene homolog A (avian)	I	8		3.69	N
HIST1H3I	1	histone cluster 1, H3i	I	8		3.69	N
CCNL2	1	cyclin L2	I	7	-3.76	0.94	N
GLRX3	1	glutaredoxin 3	I	7	-1.8	0.14	N
JMJD6	1	jumonji domain containing 6	I	7	-0.23	0.19	N
BNIP1	1	BCL2/adenovirus E1B 19kD interacting protein like	I	7	0.56	-0.7	N
SCIN	1	scinderin	I	7	0.82	-1.28	N
MAP1B	1	microtubule-associated protein 1B	I	7	5.55	-1.46	N
SPRR1A	1	small proline-rich protein 1A	I	6	-7.59	0.79	N
TRIP10	1	thyroid hormone receptor interactor 10	I	6	-7.03	1.32	N
ARL4D	1	ADP-ribosylation factor-like 4D	I	6	-6.1	-0.33	N
IRF6	1	interferon regulatory factor 6	I	6	-3.79	0.52	N
HIST1H2BG	1	histone cluster 1, H2bg	I	6		-0.7	N
KRT16	1	keratin 16	I	5	-9.78	2.41	N
EVPL	1	envoplakin	I	5	-6.1	2.14	N
DNAJB1	1	DnaJ (Hsp40) homolog, subfamily B, member 1	I	5	-3.14	-0.89	N
PPP1R3C	1	protein phosphatase 1, regulatory (inhibitor) subunit 3C	I	5	1.75	-0.9	N
NCAPD3	1	non-SMC condensin II complex, subunit D3	I	5	3.7	0.73	N
HHEX	1	hematopoietically expressed homeobox	I	5	5.21	-0.13	N
PTS	1	6-pyruvoyltetrahydropterin synthase	I	4	5.44	-0.44	N
POLR1C	1	polymerase (RNA) I polypeptide C, 30kDa	I	3	1.43	-0.7	N
CYP2B6	1	cytochrome P450, family 2, subfamily B, polypeptide 6	I	2	2.72	-1.47	N

KRT6A	1	keratin 6A	I	0	-10.92	-0.51	N
NEFM	1	neurofilament, medium polypeptide	I	0	-8.57	-2.02	N
KIAA0226L	1	KIAA0226-like	I	0	-8.57	1.56	N
MIR205HG	1	MIR205 host gene (non-protein coding)	I	0	-7.03	-1.57	N
KANSL1-AS1	1	KANSL1 antisense RNA 1 (non-protein coding)	I	0	-7.03	4.32	N
SNORA71A	1	small nucleolar RNA, H/ACA box 71A	I	0	-7.03		N
SNORD100	1	small nucleolar RNA, C/D box 100	I	0	-6.1	-4.16	N
DUOXA1	1	dual oxidase maturation factor 1	I	0	-6.1	-1.26	N
CCDC64	1	coiled-coil domain containing 64	I	0	-6.1	-1.17	N
AADAT	1	aminoadipate aminotransferase	I	0	-6.1	-0.44	N
FAM110C	1	family with sequence similarity 110, member C	I	0	-6.1	0.07	N
ZNF692	1	zinc finger protein 692	I	0	-6.1	0.41	N
KIFC2	1	kinesin family member C2	I	0	-6.1	2.19	N
SNORD23	1	small nucleolar RNA, C/D box 23	I	0	-6.1		N
FAM127B	1	family with sequence similarity 127, member B	I	0	-4.54	-0.37	N
LOC96610	1	BMS1 homolog, ribosome assembly protein (yeast) pseudogene	I	0	-3.99	-1.17	N
DNTTIP1	1	deoxynucleotidyltransferase, terminal, interacting protein 1	I	0	-3.62	0.61	N
ISYNA1	1	inositol-3-phosphate synthase 1	I	0	-3.61	-0.52	N
ZNF503	1	zinc finger protein 503	I	0	-3.61	0.38	N
ACCS	1	1-aminocyclopropane-1-carboxylate synthase homolog (Arabidopsis)(non-functional)	I	0	-3.57	-1.15	N
MOCS1	1	molybdenum cofactor synthesis 1	I	0	-3.57	-0.44	N

PDXP	1	pyridoxal (pyridoxine, vitamin B6) phosphatase	I	0	-3.2	1.47	N
DCTPP1	1	dCTP pyrophosphatase 1	I	0	-2.76	1.4	N
FAM118A	1	family with sequence similarity 118, member A	I	0	-2.64	-0.42	N
ZNF165	1	zinc finger protein 165	I	0	-2.64		N
SNHG6	1	small nucleolar RNA host gene 6 (non-protein coding)	I	0	-2.45	-0.38	N
RPP25	1	ribonuclease P/MRP 25kDa subunit	I	0	-2.08	0.87	N
FAM83D	1	family with sequence similarity 83, member D	I	0	-1.71	6.44	N
ZNF266	1	zinc finger protein 266	I	0	-1.44	2.03	N
LOC388796	1	hypothetical LOC388796	I	0	-1.39	1.06	N
PPAT	1	phosphoribosyl pyrophosphate amidotransferase	I	0	-1.29	0.77	N
LOC100128338	1	hypothetical LOC100128338	I	0	-1.25	-0.26	N
RPL22L1	1	ribosomal protein L22-like 1	I	0	-1.12	0.57	N
FHDC1	1	FH2 domain containing 1	I	0	-0.76	-0.35	N
IDUA	1	iduronidase, alpha-L-	I	0	-0.74	1.37	N
CCDC142	1	coiled-coil domain containing 142	I	0	-0.41	-0.26	N
SNHG15	1	small nucleolar RNA host gene 15 (non-protein coding)	I	0	-0.13	0.1	N
NUDT4P1	1	nudix (nucleoside diphosphate linked moiety X)-type motif 4 pseudogene 1	I	0	0.05	-0.48	N
C8orf58	1	chromosome 8 open reading frame 58	I	0	0.05	-0.18	N
ZSCAN12P1	1	zinc finger and SCAN domain containing 12 pseudogene 1	I	0	0.11	2.63	N
ZFAND2A	1	zinc finger, AN1-type domain 2A	I	0	0.41	1.26	N
UBE2Q2P1	1	ubiquitin-conjugating enzyme E2Q family member 2 pseudogene 1	I	0	0.82	-1.02	N
RBP7	1	retinol binding protein 7, cellular	I	0	0.82	0.68	N
LOC100506866	1	hypothetical LOC100506866	I	0	0.82	2.5	N
H2BFXP	1	H2B histone family, member X, pseudogene	I	0	0.82	4.25	N

SNORD3 5B	1	small nucleolar RNA, C/D box 35B	I	0	0.82		N
SNORD3 2A	1	small nucleolar RNA, C/D box 32A	I	0	0.82		N
C4orf46	1	chromosome 4 open reading frame 46	I	0	1.62	1.48	N
GEMIN8	1	gem (nuclear organelle) associated protein 8	I	0	1.69	0.21	N
CRNDE	1	colorectal neoplasia differentially expressed (non-protein coding)	I	0	1.75	0.18	N
ARL5B	1	ADP-ribosylation factor-like 5B	I	0	1.75	0.79	N
SNORA5 2	1	small nucleolar RNA, H/ACA box 52	I	0	1.75	2.76	N
ATP5EP2	1	ATP synthase, H ⁺ transporting, mitochondrial F1 complex, epsilon subunit pseudogene 2	I	0	1.75		N
CHMP4C	1	chromatin modifying protein 4C	I	0	2.31	-1.47	N
LOC100130331	1	actin, gamma-like	I	0	2.31	0.79	N
ANXA2P3	1	annexin A2 pseudogene 3	I	0	2.72	-4.16	N
C10orf11	1	chromosome 10 open reading frame 11	I	0	2.72	-1.42	N
CHCHD1	1	coiled-coil-helix-coiled-coil-helix domain containing 1	I	0	2.98	-0.01	N
FLJ39639	1	hypothetical protein FLJ39639	I	0	3.03	0.26	N
MRPL53	1	mitochondrial ribosomal protein L53	I	0	3.51	0.08	N
CMC1	1	COX assembly mitochondrial protein homolog (<i>S. cerevisiae</i>)	I	0	3.51	0.29	N
ARL15	1	ADP-ribosylation factor-like 15	I	0	3.7	-1.18	N
STK32A	1	serine/threonine kinase 32A	I	0		-4.16	N
SNORA4 4	1	small nucleolar RNA, H/ACA box 44	I	0		-4.16	N
ZNF77	1	zinc finger protein 77	I	0		-1.42	N
CAPS	1	calcyphosine	I	0		-1.17	N
LINC00240	1	long intergenic non-protein coding RNA 240	I	0		-0.7	N
ZC2HC1C	1	zinc finger, C2HC-type containing 1C	I	0		-0.3	N
MST1P2	1	macrophage stimulating 1 (hepatocyte growth factor-like)	I	0		-0.07	N

		pseudogene 2				
RHOV	1	ras homolog gene family, member V	I	0	0.27	N
MOCOS	1	molybdenum cofactor sulfurase	I	0	0.49	N
HSPA7	1	heat shock 70kDa protein 7 (HSP70B)	I	0	1.51	N
SNORD4	1	small nucleolar RNA, C/D box 44	I	0	2.76	N
4						
SNORD3	1	small nucleolar RNA, C/D box 36A	I	0	2.76	N
6A						
SNORA5	1	small nucleolar RNA, H/ACA box 50	I	0	2.76	N
0						
SNORA7	1	small nucleolar RNA, H/ACA box 72	I	0	3.69	N
2						
CCDC64B	1	coiled-coil domain containing 64B	I	0	4.97	N
SNORD8	1	small nucleolar RNA, C/D box 87	I	0		N
7						
SNORD7	1	small nucleolar RNA, C/D box 76	I	0		N
6						
SNORD7	1	small nucleolar RNA, C/D box 75	I	0		N
5						
SNORD6	1	small nucleolar RNA, C/D box 62B	I	0		N
2B						
SNORD6	1	small nucleolar RNA, C/D box 60	I	0		N
0						
SNORD3	1	small nucleolar RNA, C/D box 30	I	0		N
0						
SNORD1	1	small nucleolar RNA, C/D box 16	I	0		N
6						
SNORD1	1	small nucleolar RNA, C/D box 15B	I	0		N
5B						
SNORD1	1	small nucleolar RNA, C/D box 12C	I	0		N
2C						
SNORD1	1	small nucleolar RNA, C/D box 123	I	0		N

23								
SNORD1 16-17	1	small nucleolar RNA, C/D box 116-17	I	0				N
SNORD1 16-16	1	small nucleolar RNA, C/D box 116-16	I	0				N
SNORD1 16-1	1	small nucleolar RNA, C/D box 116-1	I	0				N
SNORD1 15-33	1	small nucleolar RNA, C/D box 115-33	I	0				N
SNORD1 10	1	small nucleolar RNA, C/D box 110	I	0				N
SNORD1 05B	1	small nucleolar RNA, C/D box 105B	I	0				N
SNORA4 8	1	small nucleolar RNA, H/ACA box 48	I	0				N
SNORA3 8	1	small nucleolar RNA, H/ACA box 38	I	0				N
SNORA2 3	1	small nucleolar RNA, H/ACA box 23	I	0				N
SNORA1 0	1	small nucleolar RNA, H/ACA box 10	I	0				N
RNU86	1	RNA, U86 small nucleolar	I	0				N
MIR635	1	microRNA 635	I	0				N
GSTM2P 1	1	glutathione S-transferase mu 2 (muscle) pseudogene 1	I	0				N
LOC6130 37	1	nuclear pore complex interacting protein pseudogene	I	100	-4.14	-1.2		N
DLEU2L	1	deleted in lymphocytic leukemia 2-like	I	100	-4.03	-0.23		N
CHEK2P2	1	checkpoint kinase 2 pseudogene 2	I	100				N
HIF1A	1	hypoxia inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor)	I	90	1.49	1.12		N
IRAK1BP	1	interleukin-1 receptor-associated kinase 1 binding protein 1	I	75		0.84		N

1							
NOS3	1	nitric oxide synthase 3 (endothelial cell)	I	74	-0.17	1.12	N
NUAK1	1	NUAK family, SNF1-like kinase, 1	I	64	2.3	-0.53	N
PTK6	1	PTK6 protein tyrosine kinase 6	I	64	3.29	-1.18	N
TRAF5	1	TNF receptor-associated factor 5	I	63	-0.88	-0.34	N
MEN1	1	multiple endocrine neoplasia I	I	62	-3.2	-0.4	N
CCDC34	1	coiled-coil domain containing 34	I	60	-2.06	-0.58	N
MIR650	1	microRNA 650	I	60		1	N
TYMP	1	thymidine phosphorylase	I	59	-8.57	0.37	N
MAGEA2 B	1	melanoma antigen family A, 2B	I	58			N
ORAOV1	1	oral cancer overexpressed 1	I	56	1.75	0.02	N
ZNF703	1	zinc finger protein 703	I	56		-1.64	N
PRAME	1	preferentially expressed antigen in melanoma	I	54	-7.59	-0.53	N
FHIT	1	fragile histidine triad gene	I	54	-7.03	-0.55	N
HMGA2	1	high mobility group AT-hook 2	I	54	-2.64	-0.38	N
OSGIN1	1	oxidative stress induced growth inhibitor 1	I	53	-6.1	-1.81	N
TPD52	1	tumor protein D52	I	52	-2.83	0.04	N
MYOM3	1	myomesin family, member 3	I	50	-3.57	-2.65	N
ST20	1	suppressor of tumorigenicity 20	I	50	-3.57	-0.04	N
STRADA	1	STE20-related kinase adaptor alpha	I	50	-1.09	-0.56	N
ECE2	1	endothelin converting enzyme 2	I	50	0.69	-0.19	N
HOXD- AS1	1	HOXD cluster antisense RNA 1	I	50	2.31	-0.5	N
AKR7A2P 1	1	aldo-keto reductase family 7, member A2 pseudogene 1	I	50	2.31	2.76	N
LOC1001 31825	1	hypothetical LOC100131825	I	50		-1.02	N
PAGE2B	1	P antigen family, member 2B	I	50		3.69	N
PPIAL4B	1	peptidylprolyl isomerase A (cyclophilin A)-like 4B	I	50			N

MIR943	1	microRNA 943	I	50			N
MIR936	1	microRNA 936	I	50			N
MIR622	1	microRNA 622	I	50			N
MIR4784	1	microRNA 4784	I	50			N
MIR4723	1	microRNA 4723	I	50			N
MIR4709	1	microRNA 4709	I	50			N
MIR4658	1	microRNA 4658	I	50			N
MIR4654	1	microRNA 4654	I	50			N
MIR3917	1	microRNA 3917	I	50			N
MIR3658	1	microRNA 3658	I	50			N
MIR3653	1	microRNA 3653	I	50			N
MIR3651	1	microRNA 3651	I	50			N
MIR3618	1	microRNA 3618	I	50			N
MIR3615	1	microRNA 3615	I	50			N
MIR3606	1	microRNA 3606	I	50			N
MIR1179	1	microRNA 1179	I	50			N
PTP4A3	1	protein tyrosine phosphatase type IVA, member 3	I	49		-0.26	N
MIR22	1	microRNA 22	I	48			N
ID1	1	inhibitor of DNA binding 1, dominant negative helix-loop-helix protein	I	47		-4.59 1.34	N
PROX1	1	prospero homeobox 1	I	47		-2.64 1.2	N
DLEU1	1	deleted in lymphocytic leukemia 1 (non-protein coding)	I	44		-6.1 -0.84	N
XAF1	1	XIAP associated factor 1	I	44		-0.49 -0.07	N
LLGL1	1	lethal giant larvae homolog 1 (Drosophila)	I	44		-0.24 1.22	N
TNS4	1	tensin 4	I	44		2.31 -0.7	N
MIR125A	1	microRNA 125a	I	44			N
NDRG2	1	NDRG family member 2	I	43		-7.03 -0.2	N
CCDC19	1	coiled-coil domain containing 19	I	43		-2.64 -3.39	N
LZTFL1	1	leucine zipper transcription factor-like 1	I	43		3.03 -0.26	N

AXIN2	1	axin 2	I	43		2.47	N
PTPN13	1	protein tyrosine phosphatase, non-receptor type 13 (APO-1/CD95 (Fas)-associated phosphatase)	I	42	-6.1	-0.95	N
EXTL3	1	exostoses (multiple)-like 3	I	42	-5.33	-0.65	N
DDAH1	1	dimethylarginine dimethylaminohydrolase 1	I	42	3.58	-0.42	N
DAPK1	1	death-associated protein kinase 1	I	42	4.28	1.91	N
PHLPP1	1	PH domain and leucine rich repeat protein phosphatase 1	I	41	-2.64	-0.41	N
CUL2	1	cullin 2	I	41	-0.99	-0.36	N
EGR1	1	early growth response 1	I	40	-8.79	0.03	N
P4HTM	1	prolyl 4-hydroxylase, transmembrane (endoplasmic reticulum)	I	40	-7.03	0.74	N
CHKA	1	choline kinase alpha	I	40	-1.44	0.29	N
TP63	1	tumor protein p63	I	40	0.82	-0.98	N
SNORD5 0A	1	small nucleolar RNA, C/D box 50A	I	40		2.76	N
AGSK1	1	golgin subfamily A member 2-like	I	40		3.69	N
MGMT	1	O-6-methylguanine-DNA methyltransferase	I	39	-7.59	0.53	N
BRAF	1	v-raf murine sarcoma viral oncogene homolog B1	I	39	2.31	0.61	N
FXVD3	1	FXVD domain containing ion transport regulator 3	I	38	-7.59	-0.89	N
BEX2	1	brain expressed X-linked 2	I	38	-7.59	0.87	N
GLTSCR2	1	glioma tumor suppressor candidate region gene 2	I	38	-6.5	0.67	N
ID4	1	inhibitor of DNA binding 4, dominant negative helix-loop-helix protein	I	38	-6.1	1.18	N
ING5	1	inhibitor of growth family, member 5	I	38	-1.25	1.18	N
BTG3	1	BTG family, member 3	I	38	1.48	0.06	N
MIR217	1	microRNA 217	I	38			N
NAT6	1	N-acetyltransferase 6 (GCN5-related)	I	36	-7.03	0.66	N
DDIT4	1	DNA-damage-inducible transcript 4	I	36	-6.1	0.76	N
PRKCDBP	1	protein kinase C, delta binding protein	I	36	-3.2	0.6	N
MIR29C	1	microRNA 29c	I	36		-1.54	N
TSTD1	1	thiosulfate sulfurtransferase (rhodanese)-like domain containing	I	36		-0.19	N

	1								
AIM2	1	absent in melanoma 2	I	36		2.76	N		
NACC1	1	nucleus accumbens associated 1, BEN and BTB (POZ) domain containing	I	35	-7.03	0.57	N		
UPK2	1	uroplakin 2	I	35	-7.03		N		
CDKN1A	1	cyclin-dependent kinase inhibitor 1A (p21, Cip1)	I	35	-3.53	-0.67	N		
CDK4	1	cyclin-dependent kinase 4	I	35	-3	0.46	N		
SNCG	1	synuclein, gamma (breast cancer-specific protein 1)	I	35	-2.64	-1.54	N		
RELA	1	v-rel reticuloendotheliosis viral oncogene homolog A (avian)	I	35	-2.06	0.32	N		
BBC3	1	BCL2 binding component 3	I	35	-1.71	0.54	N		
NAA10	1	N(alpha)-acetyltransferase 10, NatA catalytic subunit	I	35	-1.15	0.63	N		
ULBP1	1	UL16 binding protein 1	I	35	4.6	-1.67	N		
MIR221	1	microRNA 221	I	35		0.23	N		
CDX2	1	caudal type homeobox 2	I	35		2.4	N		
TCEB2	1	transcription elongation factor B (SIII), polypeptide 2 (18kDa, elongin B)	I	34	2.2	0.2	N		
MAGEF1	1	melanoma antigen family F, 1	I	33	-9.56	0.29	N		
ARHGEF38	1	Rho guanine nucleotide exchange factor (GEF) 38	I	33	-6.1	-1.64	N		
ZCCHC18	1	zinc finger, CCHC domain containing 18	I	33	-6.1	6.54	N		
RBM38	1	RNA binding motif protein 38	I	33	-4.52	-0.58	N		
DSE	1	dermatan sulfate epimerase	I	33	-3.89	0.29	N		
TCEAL3	1	transcription elongation factor A (SII)-like 3	I	33	-3.61	0.73	N		
EHF	1	ets homologous factor	I	33	-3.36	-1.1	N		
LRIG3	1	leucine-rich repeats and immunoglobulin-like domains 3	I	33	-2.64	-0.7	N		
ALOX12P2	1	arachidonate 12-lipoxygenase pseudogene 2	I	33	-2.64	0.27	N		
TMEM97	1	transmembrane protein 97	I	33	-1.98	0.37	N		
VBP1	1	von Hippel-Lindau binding protein 1	I	33	-0.9	0.21	N		
TPGS2	1	tubulin polyglutamylase complex subunit 2	I	33	-0.3	0.17	N		

RPS26P1	1	ribosomal protein S26 pseudogene 11	I	33	0.82	1.2	N
1							
AFMID	1	arylformamidase	I	33	1.05	-1.08	N
XRCC6BP	1	XRCC6 binding protein 1	I	33	2.31	-0.52	N
1							
ZNF420	1	zinc finger protein 420	I	33	2.31	1.51	N
ZNF134	1	zinc finger protein 134	I	33	2.31	5.81	N
SNAR-E	1	small ILF3/NF90-associated RNA E	I	33		-4.16	N
RASL11A	1	RAS-like, family 11, member A	I	33		-1.49	N
TFAP2A	1	transcription factor AP-2 alpha (activating enhancer binding protein 2 alpha)	I	33		-1.28	N
TFAP2C	1	transcription factor AP-2 gamma (activating enhancer binding protein 2 gamma)	I	33		-0.85	N
AGBL2	1	ATP/GTP binding protein-like 2	I	33		-0.7	N
MIR675	1	microRNA 675	I	33			N
MIR1909	1	microRNA 1909	I	33			N
HSP90B3	1	heat shock protein 90kDa beta (Grp94), member 3, pseudogene	I	33			N
P							
H3F3AP5	1	H3 histone, family 3A, pseudogene 5	I	33			N
HPGD	1	hydroxyprostaglandin dehydrogenase 15-(NAD)	I	32	-7.59	-2.48	N
FOXO4	1	forkhead box O4	I	32	-6.1	-0.3	N
ATF3	1	activating transcription factor 3	I	32	-3.61	-0.93	N
SLC39A6	1	solute carrier family 39 (zinc transporter), member 6	I	32	-1.17	-0.15	N
GLMN	1	glomulin, FKBP associated protein	I	32	-1.1	0.58	N
SKP2	1	S-phase kinase-associated protein 2 (p45)	I	32	4.5	-0.26	N
SOX17	1	SRY (sex determining region Y)-box 17	I	32	4.78	-0.48	N
THOC6	1	THO complex 6 homolog (Drosophila)	I	31	-8.79	0.8	N
STARD10	1	StAR-related lipid transfer (START) domain containing 10	I	31	-7.03	0.72	N
RHOD	1	ras homolog gene family, member D	I	31	-6.1	-1.02	N
RBL1	1	retinoblastoma-like 1 (p107)	I	31	0.76	-0.26	N

UPK1A	1	uroplakin 1A	I	31		-4.16	N
GLS2	1	glutaminase 2 (liver, mitochondrial)	I	30		-6.1	-1.61 N
C19orf33	1	chromosome 19 open reading frame 33	I	30		-6.1	-0.7 N
CSAG2	1	CSAG family, member 2	I	30		-6.1	N
KRT7	1	keratin 7	I	30		-4.38	-0.78 N
TEAD4	1	TEA domain family member 4	I	30		-2.64	0.45 N
LRIG2	1	leucine-rich repeats and immunoglobulin-like domains 2	I	30		-1.71	2.24 N
ZRANB1	1	zinc finger, RAN-binding domain containing 1	I	30		-1.65	-0.32 N
TXNDC17	1	thioredoxin domain containing 17	I	30		0.98	-0.65 N
MIRLET7I	1	microRNA let-7i	I	30			N
MIR29B2	1	microRNA 29b-2	I	30			N
MAGED4	1	melanoma antigen family D, 4B	I	29		-9.43	2.47 N
B							
PELP1	1	proline, glutamate and leucine rich protein 1	I	29		-4.54	0.06 N
DUSP4	1	dual specificity phosphatase 4	I	29		-3.8	-0.33 N
ID2	1	inhibitor of DNA binding 2, dominant negative helix-loop-helix protein	I	29		-3.22	0.22 N
CINP	1	cyclin-dependent kinase 2 interacting protein	I	29		-3.04	-0.12 N
AGBL5	1	ATP/GTP binding protein-like 5	I	29		-2.83	-0.33 N
LIMK1	1	LIM domain kinase 1	I	29		-2.64	0.4 N
TMEM115	1	transmembrane protein 115	I	29		-2.64	0.79 N
RHEB	1	Ras homolog enriched in brain	I	29		-2.35	-0.07 N
UCK2	1	uridine-cytidine kinase 2	I	29		-1.97	1.37 N
BRK1	1	BRICK1, SCAR/WAVE actin-nucleating complex subunit	I	29		-1.57	-0.73 N
ROCK2	1	Rho-associated, coiled-coil containing protein kinase 2	I	29		-0.8	-0.32 N
MARVELD1	1	MARVEL domain containing 1	I	29		-0.46	0.45 N
RASL10A	1	RAS-like, family 10, member A	I	29		0.82	1.56 N
RAP1GA	1	RAP1 GTPase activating protein	I	29			-0.14 N

P								
MIR132	1	microRNA 132	I	29				N
PIM1	1	pim-1 oncogene	I	28	-3.63	0.91		N
HK2	1	hexokinase 2	I	28	-3.36	1.09		N
DNAJB4	1	DnaJ (Hsp40) homolog, subfamily B, member 4	I	28	1.53	-0.62		N
SRC	1	v-src sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (avian)	I	28	1.75	-0.15		N
CSAG3	1	CSAG family, member 3	I	28				N
FASN	1	fatty acid synthase	I	27	-10.22	-1.22		N
RAB25	1	RAB25, member RAS oncogene family	I	27	-8	1.15		N
RERG	1	RAS-like, estrogen-regulated, growth inhibitor	I	27	-6.1	-1.16		N
LZTS2	1	leucine zipper, putative tumor suppressor 2	I	27	-5.11	-0.35		N
TP53I3	1	tumor protein p53 inducible protein 3	I	27	-0.24	-1.19		N
WDR76	1	WD repeat domain 76	I	27	-0.24	2.26		N
EDARAD	1	EDAR-associated death domain	I	27			3.69	N
D								
PIN1	1	peptidylprolyl cis/trans isomerase, NIMA-interacting 1	I	26	-9.3	0.65		N
JUNB	1	jun B proto-oncogene	I	26	-8	0.26		N
TRIB3	1	tribbles homolog 3 (Drosophila)	I	26	-6.42	3.09		N
CHEK2	1	CHK2 checkpoint homolog (S. pombe)	I	26	0.69	1.12		N
TTK	1	TTK protein kinase	I	26	0.69	4.97		N
PLK4	1	polo-like kinase 4	I	26	1.75	2.5		N
ADC	1	arginine decarboxylase	I	26		-0.78		N
NKX2-1	1	NK2 homeobox 1	I	26		1.44		N
HOPX	1	HOP homeobox	I	25	-9.3	0.55		N
SIVA1	1	SIVA1, apoptosis-inducing factor	I	25	-8.98	1.64		N
DUSP2	1	dual specificity phosphatase 2	I	25	-7.59	-1.28		N
ANXA10	1	annexin A10	I	25	-7.03	-5.09		N
PDCD2L	1	programmed cell death 2-like	I	25	-7.03	-0.32		N
SNORA4	1	small nucleolar RNA, H/ACA box 42	I	25	-6.1			N

2								
NAPSB	1	napsin B aspartic peptidase pseudogene	I	25	-4	1.09	N	
RBP1	1	retinol binding protein 1, cellular	I	25	-3.61	0.58	N	
PLEKHG5	1	pleckstrin homology domain containing, family G (with RhoGef domain) member 5	I	25	-3.04	1.27	N	
TATDN1	1	TatD DNase domain containing 1	I	25	-2.85	-1.94	N	
H19	1	H19, imprinted maternally expressed transcript (non-protein coding)	I	25	-2.64	2.12	N	
TP53BP1	1	tumor protein p53 binding protein 1	I	25	-2.38	0.44	N	
PYCARD	1	PYD and CARD domain containing	I	25	-2.33	0.76	N	
RRNAD1	1	ribosomal RNA adenine dimethylase domain containing 1	I	25	-2.33	0.82	N	
IP6K2	1	inositol hexakisphosphate kinase 2	I	25	-1.93	1.94	N	
POLR3GL	1	polymerase (RNA) III (DNA directed) polypeptide G (32kD)-like	I	25	-1.65	-0.46	N	
DGKA	1	diacylglycerol kinase, alpha 80kDa	I	25	-1.07	0.47	N	
HDAC1	1	histone deacetylase 1	I	25	-0.76	0.92	N	
PDRG1	1	p53 and DNA-damage regulated 1	I	25	-0.16	-0.57	N	
CITED4	1	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 4	I	25	0.82	-1.49	N	
OCIAD2	1	OCIA domain containing 2	I	25	1.04	0.51	N	
DEPDC1B	1	DEP domain containing 1B	I	25	3.29	0.84	N	
CREB3L4	1	cAMP responsive element binding protein 3-like 4	I	25	3.7	-0.88	N	
SGPP2	1	sphingosine-1-phosphate phosphatase 2	I	25		-1.68	N	
CCDC73	1	coiled-coil domain containing 73	I	25		-1.67	N	
VGLL1	1	vestigial like 1 (Drosophila)	I	25		-1.26	N	
ARL10	1	ADP-ribosylation factor-like 10	I	25		-0.7	N	
GRHL3	1	grainyhead-like 3 (Drosophila)	I	25		0.79	N	
STK33	1	serine/threonine kinase 33	I	25		1.14	N	
SFTA3	1	surfactant associated 3	I	25		1.14	N	
PAGE2	1	P antigen family, member 2 (prostate associated)	I	25		2.76	N	
ST7-OT3	1	ST7 overlapping transcript 3	I	25		3.69	N	

AURKC	1	aurora kinase C	I	25		3.69	N
SNORD11B	1	small nucleolar RNA, C/D box 111B	I	25			N
RNU6ATAC	1	RNA, U6atac small nuclear (U12-dependent splicing)	I	25			N
MIR484	1	microRNA 484	I	25			N
PPP1R13L	1	protein phosphatase 1, regulatory (inhibitor) subunit 13 like	I	24	-7.59	0.61	N
NPAS2	1	neuronal PAS domain protein 2	I	24	-3.57	0.26	N
SAT2	1	spermidine/spermine N1-acetyltransferase family member 2	I	24	-2.96	0.36	N
IGF2BP1	1	insulin-like growth factor 2 mRNA binding protein 1	I	24	-2.64	2.35	N
MAGED1	1	melanoma antigen family D, 1	I	24	-1.99	1.29	N
PRCC	1	papillary renal cell carcinoma (translocation-associated)	I	24	-1.16	1.06	N
DUSP7	1	dual specificity phosphatase 7	I	24	-1.15	-0.18	N
CUL9	1	cullin 9	I	24	-0.88	0.38	N
PDCD5	1	programmed cell death 5	I	24	0.13	0.94	N
PTP4A1	1	protein tyrosine phosphatase type IVA, member 1	I	24	0.28	-0.12	N
RAD51C	1	RAD51 homolog C (<i>S. cerevisiae</i>)	I	24	1.16	-0.9	N
SPRY1	1	sprouty homolog 1, antagonist of FGF signaling (<i>Drosophila</i>)	I	24	2.31	1.46	N
PSMD10	1	proteasome (prosome, macropain) 26S subunit, non-ATPase, 10	I	24	3.31	0.98	N
CHN2	1	chimerin (chimaerin) 2	I	24		-1.34	N
MAPRE3	1	microtubule-associated protein, RP/EB family, member 3	I	24		1.09	N
MIR146A	1	microRNA 146a	I	24			N
BIN1	1	bridging integrator 1	I	23	-9.88	-0.35	N
ARHGAP35	1	Rho GTPase activating protein 35	I	23	-6.21	0.19	N
MAPKAPK2	1	mitogen-activated protein kinase-activated protein kinase 2	I	23	-5.83	0.33	N
URGCP	1	upregulator of cell proliferation	I	23	-4.85	-0.38	N
LAPTM4	1	lysosomal protein transmembrane 4 beta	I	23	-3.37	0.93	N

B								
JUN	1	jun proto-oncogene	I	23	-3.22	1.28	N	
ID3	1	inhibitor of DNA binding 3, dominant negative helix-loop-helix protein	I	23	-1.65	1.06	N	
RRM1	1	ribonucleotide reductase M1	I	23	-1.1	0.15	N	
STMN1	1	stathmin 1	I	23	-0.59	0.75	N	
ASPH	1	aspartate beta-hydroxylase	I	23	-0.48	-0.74	N	
PPP1R14	1	protein phosphatase 1, regulatory (inhibitor) subunit 14A	I	23		0.03	N	
A								
BCL2L1	1	BCL2-like 1	I	22	-6.43	0.54	N	
CAMTA2	1	calmodulin binding transcription activator 2	I	22	-6.1	-1	N	
TCEAL2	1	transcription elongation factor A (SII)-like 2	I	22	-6.1	0.13	N	
HES4	1	hairy and enhancer of split 4 (Drosophila)	I	22	-6.1	1.38	N	
PIM2	1	pim-2 oncogene	I	22	-4.4	2.43	N	
CASP3	1	caspase 3, apoptosis-related cysteine peptidase	I	22	-2.96	0.21	N	
SERTAD3	1	SERTA domain containing 3	I	22	-2.64	-0.51	N	
SOCS6	1	suppressor of cytokine signaling 6	I	22	-1.52	-0.7	N	
ANXA4	1	annexin A4	I	22	-0.63	0.52	N	
MAGI3	1	membrane associated guanylate kinase, WW and PDZ domain containing 3	I	22	-0.5	-0.42	N	
SHPK	1	sedoheptulokinase	I	22	-0.26	-1.06	N	
AJUBA	1	ajuba LIM protein	I	22	-0.18	0.39	N	
PREX2	1	phosphatidylinositol-3,4,5-trisphosphate-dependent Rac exchange factor 2	I	22	-0.17	-4.16	N	
FAM53C	1	family with sequence similarity 53, member C	I	22	-0.03	-0.06	N	
FAM173	1	family with sequence similarity 173, member B	I	22	0.21	-0.34	N	
B								
DNAJB9	1	DnaJ (Hsp40) homolog, subfamily B, member 9	I	22	0.88	-0.75	N	
USP22	1	ubiquitin specific peptidase 22	I	22	1.02	-1.04	N	
GATA3	1	GATA binding protein 3	I	22	3.03	-2.67	N	

ACER2	1	alkaline ceramidase 2	I	22	3.51		N
PRICKLE4	1	prickle homolog 4 (Drosophila)	I	22		-0.14	N
ERN1	1	endoplasmic reticulum to nucleus signaling 1	I	22		0.84	N
ARHGEF5	1	Rho guanine nucleotide exchange factor (GEF) 5	I	21	-7.59	1.27	N
CDC25A	1	cell division cycle 25 homolog A (S. pombe)	I	21	-6.1	5.23	N
MAP2K2	1	mitogen-activated protein kinase kinase 2	I	21	-4.61	1.34	N
FAM84B	1	family with sequence similarity 84, member B	I	21	-1.91	-0.3	N
NOP2	1	NOP2 nucleolar protein homolog (yeast)	I	21	-1.66	1.76	N
PLCD1	1	phospholipase C, delta 1	I	21	-1.15	0.46	N
CTBP1	1	C-terminal binding protein 1	I	21	-0.46	0.15	N
SMOX	1	spermine oxidase	I	21	1.75	1.77	N
TBX3	1	T-box 3	I	21	2.72	-0.97	N
NR4A1	1	nuclear receptor subfamily 4, group A, member 1	I	21		-0.19	N
MIR429	1	microRNA 429	I	21		3.69	N
HES5	1	hairy and enhancer of split 5 (Drosophila)	I	21		4.97	N
BTBD11	1	BTB (POZ) domain containing 11	I	20	-7.03	-0.92	N
STK11IP	1	serine/threonine kinase 11 interacting protein	I	20	-7.03	0.1	N
BCKDK	1	branched chain ketoacid dehydrogenase kinase	I	20	-5.98	1.05	N
NADSYN1	1	NAD synthetase 1	I	20	-4.59	0.41	N
UPP1	1	uridine phosphorylase 1	I	20	-4.3	-0.37	N
THSD1	1	thrombospondin, type I, domain containing 1	I	20	-4.14	1.82	N
C16orf7	1	chromosome 16 open reading frame 7	I	20	-3.57	1.09	N
ZNF668	1	zinc finger protein 668	I	20	-3.57	1.33	N
DPH2	1	DPH2 homolog (S. cerevisiae)	I	20	-2.86	0.09	N
NEAT1	1	nuclear paraspeckle assembly transcript 1 (non-protein coding)	I	20	-2.85	-0.57	N
MACC1	1	metastasis associated in colon cancer 1	I	20	-2.42	0.26	N
BLMH	1	bleomycin hydrolase	I	20	-1.51	0.01	N
EP300	1	E1A binding protein p300	I	20	-1.43	0.91	N

PRMT5	1	protein arginine methyltransferase 5	I	20	-1.39	0.5	N
GMIP	1	GEM interacting protein	I	20	-1.36	0.97	N
TPTEP1	1	transmembrane phosphatase with tensin homology pseudogene 1	I	20	-1.1	-1.02	N
SETD7	1	SET domain containing (lysine methyltransferase) 7	I	20	-0.61	0.29	N
UQCC	1	ubiquinol-cytochrome c reductase complex chaperone	I	20	-0.52	0.46	N
NFATC4	1	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 4	I	20	0	1.56	N
PRR15	1	proline rich 15	I	20	0.82	-0.54	N
GLTSCR1	1	glioma tumor suppressor candidate region gene 1	I	20	0.82	1.82	N
NEMF	1	nuclear export mediator factor	I	20	1.52	-1.16	N
LPIN3	1	lipin 3	I	20	1.91	0.05	N
FAM83E	1	family with sequence similarity 83, member E	I	20	2.31	-0.44	N
WDPCP	1	WD repeat containing planar cell polarity effector	I	20	2.31	0.28	N
TTC7B	1	tetratricopeptide repeat domain 7B	I	20	3.03	0.22	N
SCML1	1	sex comb on midleg-like 1 (Drosophila)	I	20	3.29	0.72	N
CCNA1	1	cyclin A1	I	20	3.87	-1.68	N
CCDC23	1	coiled-coil domain containing 23	I	20	5.01	1.36	N
GUSBP4	1	glucuronidase, beta pseudogene 4	I	20		-5.09	N
FUZ	1	fuzzy homolog (Drosophila)	I	20		0.08	N
ZNF296	1	zinc finger protein 296	I	20		0.58	N
SAP30	1	Sin3A-associated protein, 30kDa	I	19	-6.1	2.5	N
KRT8	1	keratin 8	I	19	-5.03	1.08	N
ACY1	1	aminoacylase 1	I	19	-2.64	-1.7	N
KLHL13	1	kelch-like 13 (Drosophila)	I	19	-2.64	-0.7	N
GADD45 G	1	growth arrest and DNA-damage-inducible, gamma	I	19	-2.64	-0.01	N
DNAJC2	1	DnaJ (Hsp40) homolog, subfamily C, member 2	I	19	-1.97	-1.55	N
SMAD3	1	SMAD family member 3	I	19	-0.91	0.5	N
HDAC3	1	histone deacetylase 3	I	19	-0.89	1.14	N

NMI	1	N-myc (and STAT) interactor	I	19	0.13	-1.7	N
SMARCC1	1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily c, member 1	I	19	0.23	0.99	N
PDK1	1	pyruvate dehydrogenase kinase, isozyme 1	I	19	0.41	-0.53	N
HOXD3	1	homeobox D3	I	19		-4.28	N
TLX1	1	T-cell leukemia homeobox 1	I	19		5.23	N
LARP6	1	La ribonucleoprotein domain family, member 6	I	18	-8.57	0.22	N
MAD2L2	1	MAD2 mitotic arrest deficient-like 2 (yeast)	I	18	-8	0.03	N
TOX3	1	TOX high mobility group box family member 3	I	18	-8	0.8	N
CREB3L1	1	cAMP responsive element binding protein 3-like 1	I	18	-7.59	1.57	N
FAF1	1	Fas (TNFRSF6) associated factor 1	I	18	-4.61	0.56	N
PJA1	1	pjara ring finger 1	I	18	-3.62	1.29	N
RRP1	1	ribosomal RNA processing 1 homolog (S. cerevisiae)	I	18	-3.36	0.87	N
SCARA3	1	scavenger receptor class A, member 3	I	18	-3.2	0.2	N
CEBPB	1	CCAAT/enhancer binding protein (C/EBP), beta	I	18	-2.96	-0.15	N
MCM7	1	minichromosome maintenance complex component 7	I	18	-2.3	1.71	N
FIBP	1	fibroblast growth factor (acidic) intracellular binding protein	I	18	-2.23	-0.25	N
AKIRIN2	1	akirin 2	I	18	-1.81	0.53	N
CKAP4	1	cytoskeleton-associated protein 4	I	18	-1.45	0.17	N
TAF1D	1	TATA box binding protein (TBP)-associated factor, RNA polymerase I, D, 41kDa	I	18	-1.17	-0.92	N
OTUB1	1	OTU domain, ubiquitin aldehyde binding 1	I	18	-0.95	-0.16	N
SOD2	1	superoxide dismutase 2, mitochondrial	I	18	-0.95	0.4	N
UXT	1	ubiquitously-expressed transcript	I	18	-0.88	0.53	N
PRRC2C	1	proline-rich coiled-coil 2C	I	18	-0.68	0.48	N
HDAC8	1	histone deacetylase 8	I	18	-0.28	-0.05	N
DMXL2	1	Dmx-like 2	I	18	0.05	-0.44	N
HMGCR	1	3-hydroxy-3-methylglutaryl-CoA reductase	I	18	0.5	-0.7	N
DNAJC15	1	DnaJ (Hsp40) homolog, subfamily C, member 15	I	18	2.52	-0.2	N
ZNF23	1	zinc finger protein 23 (KIX 16)	I	18	3.87	1	N

WIPI1	1	WD repeat domain, phosphoinositide interacting 1	I	18	4.13	-0.59	N
CYP4B1	1	cytochrome P450, family 4, subfamily B, polypeptide 1	I	18		-4.66	N
PDF	1	peptide deformylase (mitochondrial)	I	18			N
CCDC85B	1	coiled-coil domain containing 85B	I	17	-8	1.09	N
ESRP1	1	epithelial splicing regulatory protein 1	I	17	-7.03	0.19	N
DACH2	1	dachshund homolog 2 (Drosophila)	I	17	-6.1	0.79	N
ZC3H12A	1	zinc finger CCCH-type containing 12A	I	17	-3.84	0.87	N
DOM3Z	1	dom-3 homolog Z (C. elegans)	I	17	-3.57	-0.44	N
PLAGL2	1	pleiomorphic adenoma gene-like 2	I	17	-3.36	2.56	N
SIRT3	1	sirtuin 3	I	17	-3.04	-0.17	N
SRF	1	serum response factor (c-fos serum response element-binding transcription factor)	I	17	-2.45	-0.12	N
MPP1	1	membrane protein, palmitoylated 1, 55kDa	I	17	-2.16	-1.66	N
YARS	1	tyrosyl-tRNA synthetase	I	17	-2.13	1.24	N
AATF	1	apoptosis antagonizing transcription factor	I	17	-1.97	-0.03	N
SCD	1	stearoyl-CoA desaturase (delta-9-desaturase)	I	17	-1.93	-0.03	N
HSD11B2	1	hydroxysteroid (11-beta) dehydrogenase 2	I	17	-1.71	-1.13	N
HSPA1A	1	heat shock 70kDa protein 1A	I	17	-1.57	0.98	N
NINL	1	ninein-like	I	17	-0.88	1.04	N
SETD8	1	SET domain containing (lysine methyltransferase) 8	I	17	-0.52	0.79	N
TMEM38A	1	transmembrane protein 38A	I	17	-0.37	-0.7	N
USP33	1	ubiquitin specific peptidase 33	I	17	0.1	-0.77	N
OTUD1	1	OTU domain containing 1	I	17	0.21	-0.05	N
MEAF6	1	MYST/Esa1-associated factor 6	I	17	0.47	0.53	N
POLB	1	polymerase (DNA directed), beta	I	17	0.56	-0.45	N
PPP2R5C	1	protein phosphatase 2, regulatory subunit B', gamma	I	17	1.08	-0.19	N
ZNF618	1	zinc finger protein 618	I	17	1.62	1.29	N
MYCL1	1	v-myc myelocytomatosis viral oncogene homolog 1, lung carcinoma derived (avian)	I	17	1.75	4.65	N

IPMK	1	inositol polyphosphate multikinase	I	17	1.98	-1.06	N
RNF145	1	ring finger protein 145	I	17	1.98	-0.35	N
NT5DC3	1	5'-nucleotidase domain containing 3	I	17	2.38	-0.16	N
ULK4	1	unc-51-like kinase 4 (C. elegans)	I	17	3.7	-0.7	N
GTDC1	1	glycosyltransferase-like domain containing 1	I	17	3.87	-1.85	N
PMS2P4	1	postmeiotic segregation increased 2 pseudogene 4	I	17	4.28	-0.13	N
LAMP3	1	lysosomal-associated membrane protein 3	I	17	6.57	-1.86	N
HORMA D1	1	HORMA domain containing 1	I	17		-6.06	N
ALS2CR1 2	1	amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 12	I	17		-1.9	N
MSX2	1	msh homeobox 2	I	17		-0.14	N
RGL3	1	ral guanine nucleotide dissociation stimulator-like 3	I	17		1.48	N
ABLM2	1	actin binding LIM protein family, member 2	I	17		1.66	N
RUNX2	1	runt-related transcription factor 2	I	17		2.24	N
HDAC11	1	histone deacetylase 11	I	16	-7.03	-0.46	N
HDAC5	1	histone deacetylase 5	I	16	-7.03	1.29	N
KAT5	1	K(lysine) acetyltransferase 5	I	16	-6.1	-0.12	N
TRIP6	1	thyroid hormone receptor interactor 6	I	16	-4.93	-0.67	N
STAT5A	1	signal transducer and activator of transcription 5A	I	16	-4.03	0.61	N
DFNA5	1	deafness, autosomal dominant 5	I	16	-3.76	-0.63	N
ELK1	1	ELK1, member of ETS oncogene family	I	16	-2.64	0.22	N
PIAS3	1	protein inhibitor of activated STAT, 3	I	16	-2.16	0.15	N
SRP68	1	signal recognition particle 68kDa	I	16	-1.95	0.12	N
PPP3R1	1	protein phosphatase 3, regulatory subunit B, alpha	I	16	-0.88	-0.8	N
ACSL4	1	acyl-CoA synthetase long-chain family member 4	I	16	-0.58	-1.48	N
MSI2	1	musashi homolog 2 (Drosophila)	I	16	-0.43	0.22	N
OBFC1	1	oligonucleotide/oligosaccharide-binding fold containing 1	I	16	0	-0.27	N
TFCP2	1	transcription factor CP2	I	16	0	-0.1	N
AKR1C3	1	aldo-keto reductase family 1, member C3 (3-alpha	I	16	0.38	-0.97	N

		hydroxysteroid dehydrogenase, type II)						
MAPK11	1	mitogen-activated protein kinase 11	I	16	0.82	0.86	N	
ABL2	1	v-abl Abelson murine leukemia viral oncogene homolog 2	I	16	0.9	-0.47	N	
NCOA2	1	nuclear receptor coactivator 2	I	16	1.75	1.56	N	
CASP1	1	caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, convertase)	I	16	2.13	-0.12	N	
NEDD8	1	neural precursor cell expressed, developmentally down-regulated 8	I	16	3.12	0.3	N	
ELF2	1	E74-like factor 2 (ets domain transcription factor)	I	16	3.87	-0.81	N	
PPP1R1B	1	protein phosphatase 1, regulatory (inhibitor) subunit 1B	I	16	4.28	0.21	N	
UPK3A	1	uroplakin 3A	I	16		-7.04	N	
GMDS	1	GDP-mannose 4,6-dehydratase	I	16		2.27	N	
TRO	1	trophinin	I	15	-8.98	-0.18	N	
NHLH2	1	nescient helix loop helix 2	I	15	-7.03	5.45	N	
RPH3AL	1	rabphilin 3A-like (without C2 domains)	I	15	-6.1	0.86	N	
EHMT2	1	euchromatic histone-lysine N-methyltransferase 2	I	15	-5.33	-0.02	N	
MCM2	1	minichromosome maintenance complex component 2	I	15	-4.78	1.04	N	
ALDH1A3	1	aldehyde dehydrogenase 1 family, member A3	I	15	-4.2	-1.88	N	
MAP7	1	microtubule-associated protein 7	I	15	-3.57	-0.65	N	
RGS3	1	regulator of G-protein signaling 3	I	15	-3.48	-0.26	N	
PDE3A	1	phosphodiesterase 3A, cGMP-inhibited	I	15	-3.2	-1.69	N	
NR2F1	1	nuclear receptor subfamily 2, group F, member 1	I	15	-2.64	-0.46	N	
ARNTL	1	aryl hydrocarbon receptor nuclear translocator-like	I	15	-1.68	-0.53	N	
ZNF131	1	zinc finger protein 131	I	15	-1.36	0.39	N	
DNAJC9	1	DnaJ (Hsp40) homolog, subfamily C, member 9	I	15	-0.88	0.54	N	
WARS2	1	tryptophanyl tRNA synthetase 2, mitochondrial	I	15	0.05	-1.6	N	
DRG1	1	developmentally regulated GTP binding protein 1	I	15	0.32	-0.9	N	
ERV3-1	1	endogenous retrovirus group 3, member 1	I	15	0.41	-1.23	N	
CAMK2G	1	calcium/calmodulin-dependent protein kinase II gamma	I	15	0.69	-1.11	N	
PLEKHA6	1	pleckstrin homology domain containing, family A member 6	I	15	0.82	0	N	

DPYSL4	1	dihydropyrimidinase-like 4	I	15	0.82	1.37	N
LPCAT2	1	lysophosphatidylcholine acyltransferase 2	I	15	0.86	-0.5	N
RNF181	1	ring finger protein 181	I	15	2.5	-0.1	N
FBXO4	1	F-box protein 4	I	15	4.15	-0.44	N
ATP5J	1	ATP synthase, H ⁺ transporting, mitochondrial Fo complex, subunit F6	I	15	4.25	-0.06	N
ZNF267	1	zinc finger protein 267	I	15	4.5	2.35	N
NFATC2	1	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2	I	15	5.07	0.53	N
B3GALT4	1	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 4	I	15		0.85	N
HOXA1	1	homeobox A1	I	15			N
DENND2D	1	DENN/MADD domain containing 2D	I	14	-8.31	0.54	N
SH3D21	1	SH3 domain containing 21	I	14	-7.59	-1.98	N
PHF13	1	PHD finger protein 13	I	14	-7.03	0.92	N
AURKAIP1	1	aurora kinase A interacting protein 1	I	14	-5.84	0.93	N
DUSP5	1	dual specificity phosphatase 5	I	14	-5.69	0.2	N
PRKCB	1	protein kinase C, beta	I	14	-4.91	-0.53	N
STK25	1	serine/threonine kinase 25	I	14	-4.91	0.17	N
CDK2AP2	1	cyclin-dependent kinase 2 associated protein 2	I	14	-4.61	-0.16	N
C1orf112	1	chromosome 1 open reading frame 112	I	14	-4.14	1.77	N
DNAJC19	1	DnaJ (Hsp40) homolog, subfamily C, member 19	I	14	-4.05	-1.24	N
RNASEH2A	1	ribonuclease H2, subunit A	I	14	-3.89	1.91	N
NPRL3	1	nitrogen permease regulator-like 3 (S. cerevisiae)	I	14	-3.41	0.8	N
PIK3R2	1	phosphoinositide-3-kinase, regulatory subunit 2 (beta)	I	14	-3.04	1.95	N
KDM6A	1	lysine (K)-specific demethylase 6A	I	14	-2.96	0.42	N
PA2G4	1	proliferation-associated 2G4, 38kDa	I	14	-2.7	0.23	N

XIST	1	X (inactive)-specific transcript (non-protein coding)	I	14	-1.92	0.12	N
HERC2P9	1	hect domain and RLD 2 pseudogene 9	I	14	-1.85	0.51	N
CDC42EP2	1	CDC42 effector protein (Rho GTPase binding) 2	I	14	-1.71	0.61	N
ZNF138	1	zinc finger protein 138	I	14	-1.66	0.23	N
ZNF449	1	zinc finger protein 449	I	14	-1.66	0.26	N
PEG10	1	paternally expressed 10	I	14	-1.65	0.84	N
PCTP	1	phosphatidylcholine transfer protein	I	14	-1.44	-0.89	N
SH3PXD2B	1	SH3 and PX domains 2B	I	14	-1.43	0.78	N
HSD17B7	1	hydroxysteroid (17-beta) dehydrogenase 7	I	14	-1.25	1.15	N
HMGB2	1	high mobility group box 2	I	14	-1.02	1.73	N
E2F6	1	E2F transcription factor 6	I	14	-0.86	1.97	N
CTSE	1	cathepsin E	I	14	-0.74	1.82	N
RGNEF	1	190 kDa guanine nucleotide exchange factor	I	14	-0.28	-0.89	N
CIR1	1	corepressor interacting with RBPJ, 1	I	14	-0.24	-0.6	N
KALRN	1	kalirin, RhoGEF kinase	I	14	-0.18	-1.48	N
ATG5	1	ATG5 autophagy related 5 homolog (<i>S. cerevisiae</i>)	I	14	-0.11	-0.88	N
TOB2	1	transducer of ERBB2, 2	I	14	0	-0.41	N
WEE1	1	WEE1 homolog (<i>S. pombe</i>)	I	14	0.03	-0.49	N
SRP19	1	signal recognition particle 19kDa	I	14	0.2	-0.81	N
NAGA	1	N-acetylgalactosaminidase, alpha-	I	14	0.24	0.23	N
PARK7	1	parkinson protein 7	I	14	0.28	0.31	N
PLA2G4E	1	phospholipase A2, group IVE	I	14	0.41	2.18	N
YPEL2	1	yippee-like 2 (<i>Drosophila</i>)	I	14	0.56	0.17	N
PCNP	1	PEST proteolytic signal containing nuclear protein	I	14	0.76	-0.33	N
RALGAP A2	1	Ral GTPase activating protein, alpha subunit 2 (catalytic)	I	14	1.1	0.17	N
BCL7B	1	B-cell CLL/lymphoma 7B	I	14	2.72	0.03	N
MT1A	1	metallothionein 1A	I	14	2.72	1.51	N

LURAP1	1	leucine rich adaptor protein 1	I	14	3.03	-0.12	N
ZNRD1	1	zinc ribbon domain containing 1	I	14	3.87	1.86	N
SPRR2A	1	small proline-rich protein 2A	I	14		-0.7	N
GUCY1A2	1	guanylate cyclase 1, soluble, alpha 2	I	14		-0.7	N
CAPNS2	1	calpain, small subunit 2	I	14		-0.7	N
KIAA1199	1	KIAA1199	I	14		1.57	N
PRR12	1	proline rich 12	I	14		2.13	N
RNU4ATAC	1	RNA, U4atac small nuclear (U12-dependent splicing)	I	14			N
HDC	1	histidine decarboxylase	I	14			N
TMEM176B	1	transmembrane protein 176B	I	13	-7.59	-0.66	N
NPL	1	N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase)	I	13	-7.03	-1.75	N
UBXN6	1	UBX domain protein 6	I	13	-6.1	0.3	N
NR4A2	1	nuclear receptor subfamily 4, group A, member 2	I	13	-6.1	0.49	N
CPNE7	1	copine VII	I	13	-6.1	2.26	N
EIF2C2	1	eukaryotic translation initiation factor 2C, 2	I	13	-5.11	0.51	N
SERGEF	1	secretion regulating guanine nucleotide exchange factor	I	13	-4.85	-0.36	N
PAF1	1	Paf1, RNA polymerase II associated factor, homolog (S. cerevisiae)	I	13	-3.63	0.97	N
PCGF1	1	polycomb group ring finger 1	I	13	-3.2	-0.06	N
BORA	1	bora, aurora kinase A activator	I	13	-3.2	1.56	N
ASH2L	1	ash2 (absent, small, or homeotic)-like (Drosophila)	I	13	-2.86	-0.36	N
ATPIF1	1	ATPase inhibitory factor 1	I	13	-2.44	-0.23	N
MAPKBP1	1	mitogen-activated protein kinase binding protein 1	I	13	-2.08	-0.09	N
RNF213	1	ring finger protein 213	I	13	-2.04	0.12	N
TRMT11	1	tRNA methyltransferase 11 homolog (S. cerevisiae)	I	13	-1.92	-0.8	N

DDTL	1	D-dopachrome tautomerase-like	I	13	-1.71	-1.47	N
KCTD13	1	potassium channel tetramerisation domain containing 13	I	13	-1.71	1.54	N
ANKRD1	1	ankyrin repeat domain 1 (cardiac muscle)	I	13	-0.9	-1.26	N
PDE7A	1	phosphodiesterase 7A	I	13	-0.46	-0.31	N
NIT2	1	nitrilase family, member 2	I	13	-0.4	-1.37	N
FAM82A 2	1	family with sequence similarity 82, member A2	I	13	-0.26	0.91	N
SCD5	1	stearoyl-CoA desaturase 5	I	13	-0.07	0.35	N
RFK	1	riboflavin kinase	I	13	0.19	-0.47	N
RANBP9	1	RAN binding protein 9	I	13	0.28	0.42	N
ALPK1	1	alpha-kinase 1	I	13	0.47	0.87	N
SAT1	1	spermidine/spermine N1-acetyltransferase 1	I	13	0.69	-1.58	N
LDHD	1	lactate dehydrogenase D	I	13	0.82	-3.25	N
USHBP1	1	Usher syndrome 1C binding protein 1	I	13	0.82	-2.2	N
HOXB8	1	homeobox B8	I	13	0.82	-0.7	N
SH3KBP1	1	SH3-domain kinase binding protein 1	I	13	0.82	0.1	N
TOMM6	1	translocase of outer mitochondrial membrane 6 homolog (yeast)	I	13	1.4	1.64	N
LHX6	1	LIM homeobox 6	I	13	1.4	5.64	N
SUDS3	1	suppressor of defective silencing 3 homolog (S. cerevisiae)	I	13	1.68	0.13	N
N6AMT1	1	N-6 adenine-specific DNA methyltransferase 1 (putative)	I	13	1.75	-0.13	N
TOB1	1	transducer of ERBB2, 1	I	13	2.45	-0.09	N
PLEKHG6	1	pleckstrin homology domain containing, family G (with RhoGef domain) member 6	I	13	3.51	0.07	N
RAB3D	1	RAB3D, member RAS oncogene family	I	13	3.55	-0.96	N
SOCS4	1	suppressor of cytokine signaling 4	I	13	4.5	-0.8	N
SCHIP1	1	schwannomin interacting protein 1	I	13	5.21	-0.33	N
USF1	1	upstream transcription factor 1	I	13	5.21	-0.29	N
PHYHIP	1	phytanoyl-CoA 2-hydroxylase interacting protein	I	13		-1.23	N
PNCK	1	pregnancy up-regulated non-ubiquitously expressed CaM kinase	I	13		-0.57	N
ESYT3	1	extended synaptotagmin-like protein 3	I	13		0.02	N

FBXL16	1	F-box and leucine-rich repeat protein 16	I	13	0.35	N
MLXIPL	1	MLX interacting protein-like	I	13	0.82	N
ZNF32	1	zinc finger protein 32	I	13	1.45	N
DUOXA2	1	dual oxidase maturation factor 2	I	13	1.82	N
PRDM15	1	PR domain containing 15	I	13	2.24	N
POU5F1B	1	POU class 5 homeobox 1B	I	13	5.45	N
FKBP8	1	FK506 binding protein 8, 38kDa	I	12	-10.36	1.14 N
ACTG2	1	actin, gamma 2, smooth muscle, enteric	I	12	-7.59	-2.17 N
DOT1L	1	DOT1-like, histone H3 methyltransferase (<i>S. cerevisiae</i>)	I	12	-7.59	-0.06 N
RGN	1	regucalcin (senescence marker protein-30)	I	12	-7.03	-2.15 N
MCM5	1	minichromosome maintenance complex component 5	I	12	-5.19	2.31 N
MED15	1	mediator complex subunit 15	I	12	-4.61	0.64 N
EEF1D	1	eukaryotic translation elongation factor 1 delta (guanine nucleotide exchange protein)	I	12	-4.24	1.36 N
NDUFB7	1	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 7, 18kDa	I	12	-2.64	-1.02 N
RAB34	1	RAB34, member RAS oncogene family	I	12	-2.46	-0.09 N
PREB	1	prolactin regulatory element binding	I	12	-2.38	0.97 N
SIRT2	1	sirtuin 2	I	12	-2.33	-0.35 N
FPGS	1	folylpolyglutamate synthase	I	12	-1.97	0.37 N
VDAC1	1	voltage-dependent anion channel 1	I	12	-0.97	0.69 N
NOD1	1	nucleotide-binding oligomerization domain containing 1	I	12	-0.96	2.13 N
BRAP	1	BRCA1 associated protein	I	12	-0.43	-0.7 N
SPECC1	1	sperm antigen with calponin homology and coiled-coil domains 1	I	12	-0.42	0.7 N
UIMC1	1	ubiquitin interaction motif containing 1	I	12	-0.4	-0.26 N
LSM1	1	LSM1 homolog, U6 small nuclear RNA associated (<i>S. cerevisiae</i>)	I	12	0.69	-0.93 N
CRKL	1	v-crk sarcoma virus CT10 oncogene homolog (avian)-like	I	12	1.21	-1.34 N
SYNJ2	1	synaptojanin 2	I	12	1.38	-0.44 N
TAF3	1	TAF3 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 140kDa	I	12	1.75	2.87 N
TCEAL4	1	transcription elongation factor A (SII)-like 4	I	12	2.99	-0.31 N

ALAS2	1	aminolevulinate, delta-, synthase 2	I	11	-11.96	2.87	N
KRT23	1	keratin 23 (histone deacetylase inducible)	I	11	-10.55	-0.83	N
CXorf57	1	chromosome X open reading frame 57	I	11	-8.57	1.05	N
ZNF385A	1	zinc finger protein 385A	I	11	-8	-0.44	N
AUTS2	1	autism susceptibility candidate 2	I	11	-8	-0.03	N
CHAC1	1	ChaC, cation transport regulator homolog 1 (E. coli)	I	11	-7.59	-1.16	N
NUDT22	1	nudix (nucleoside diphosphate linked moiety X)-type motif 22	I	11	-7.03	-0.26	N
ABCA2	1	ATP-binding cassette, sub-family A (ABC1), member 2	I	11	-7.03	0.66	N
DGKI	1	diacylglycerol kinase, iota	I	11	-6.1	-5.09	N
HLF	1	hepatic leukemia factor	I	11	-6.1	-2.19	N
CDK5	1	cyclin-dependent kinase 5	I	11	-6.1	0.73	N
DET1	1	de-etiolated homolog 1 (Arabidopsis)	I	11	-6.1	1.77	N
CECR2	1	cat eye syndrome chromosome region, candidate 2	I	11	-6.1	5.81	N
DEDD2	1	death effector domain containing 2	I	11	-5.52	0.24	N
C1orf35	1	chromosome 1 open reading frame 35	I	11	-5.52	0.87	N
VSNL1	1	visinin-like 1	I	11	-4.18	-1.08	N
UBXN1	1	UBX domain protein 1	I	11	-4.13	0.73	N
C11orf31	1	chromosome 11 open reading frame 31	I	11	-3.63	0.17	N
TEAD3	1	TEA domain family member 3	I	11	-3.57	-0.12	N
DUSP16	1	dual specificity phosphatase 16	I	11	-2.81	0.18	N
GSTM2	1	glutathione S-transferase mu 2 (muscle)	I	11	-2.64	-0.57	N
HSPA14	1	heat shock 70kDa protein 14	I	11	-2.64	0.68	N
GSTM3	1	glutathione S-transferase mu 3 (brain)	I	11	-2.62	-0.46	N
TOMM34	1	translocase of outer mitochondrial membrane 34	I	11	-2.33	-0.47	N
FADS2	1	fatty acid desaturase 2	I	11	-2.28	-2.61	N
TBCC	1	tubulin folding cofactor C	I	11	-2.24	-1.04	N
PRDX5	1	peroxiredoxin 5	I	11	-2.06	0.39	N
NHP2	1	NHP2 ribonucleoprotein homolog (yeast)	I	11	-1.87	0.78	N
RNF2	1	ring finger protein 2	I	11	-1.73	-0.7	N

C17orf28	1	chromosome 17 open reading frame 28	I	11	-1.71	0	N
YOD1	1	YOD1 OTU deubiquinating enzyme 1 homolog (<i>S. cerevisiae</i>)	I	11	-1.68	-1.9	N
L3MBTL4	1	l(3)mbt-like 4 (<i>Drosophila</i>)	I	11	-1.36	-0.7	N
TBC1D7	1	TBC1 domain family, member 7	I	11	-1.25	0.22	N
GMNN	1	geminin, DNA replication inhibitor	I	11	-1.16	-1.17	N
KDM2B	1	lysine (K)-specific demethylase 2B	I	11	-1.1	-0.01	N
TAF1	1	TAF1 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 250kDa	I	11	-1.07	0.87	N
RRP1B	1	ribosomal RNA processing 1 homolog B (<i>S. cerevisiae</i>)	I	11	-0.96	0.51	N
WHSC1L1	1	Wolf-Hirschhorn syndrome candidate 1-like 1	I	11	-0.81	-0.15	N
CERS5	1	ceramide synthase 5	I	11	-0.67	0.61	N
GALNT7	1	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 7 (GalNAc-T7)	I	11	-0.56	0.35	N
BCAS2	1	breast carcinoma amplified sequence 2	I	11	-0.54	-1.74	N
FAM13A	1	family with sequence similarity 13, member A	I	11	-0.52	-0.65	N
BLZF1	1	basic leucine zipper nuclear factor 1	I	11	-0.35	1.4	N
AIMP2	1	aminoacyl tRNA synthetase complex-interacting multifunctional protein 2	I	11	-0.24	-0.37	N
CRTC3	1	CREB regulated transcription coactivator 3	I	11	-0.17	-0.2	N
NDST2	1	N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 2	I	11	-0.17	0.51	N
FAM118B	1	family with sequence similarity 118, member B	I	11	0	-0.95	N
SRXN1	1	sulfiredoxin 1	I	11	0.05	0.03	N
SLC35B3	1	solute carrier family 35, member B3	I	11	0.11	-0.05	N
ACBD3	1	acyl-CoA binding domain containing 3	I	11	0.18	-0.96	N
CCNK	1	cyclin K	I	11	0.41	-0.26	N
COQ3	1	coenzyme Q3 homolog, methyltransferase (<i>S. cerevisiae</i>)	I	11	0.54	-0.87	N
FBXO27	1	F-box protein 27	I	11	0.71	0.68	N
PLA2G4D	1	phospholipase A2, group IVD (cytosolic)	I	11	0.82	-6.38	N

METTL3	1	methyltransferase like 3	I	11	1.05	-0.15	N
CREB3L2	1	cAMP responsive element binding protein 3-like 2	I	11	2.03	0.04	N
C11orf30	1	chromosome 11 open reading frame 30	I	11	2.72	-1.4	N
HOXD1	1	homeobox D1	I	11	3.03	-2.61	N
GSR	1	glutathione reductase	I	11	3.29	-0.62	N
ZNF35	1	zinc finger protein 35	I	11	3.29	-0.48	N
CAPN13	1	calpain 13	I	11		-1.68	N
LINC0031	1	long intergenic non-protein coding RNA 312	I	11		-0.39	N
2							
TRIM31	1	tripartite motif containing 31	I	11		-0.06	N
CAPN8	1	calpain 8	I	11		-0.04	N
C11orf93	1	chromosome 11 open reading frame 93	I	11		0.6	N
CLIC3	1	chloride intracellular channel 3	I	11		2.69	N
DCLK3	1	doublecortin-like kinase 3	I	11			N
FAM50A	1	family with sequence similarity 50, member A	I	10	-8.57	0.58	N
BAHD1	1	bromo adjacent homology domain containing 1	I	10	-8.57	0.84	N
HDAC10	1	histone deacetylase 10	I	10	-7.03	1.33	N
TRAPPC1	1	trafficking protein particle complex 1	I	10	-6.57	0.19	N
RNPEPL1	1	arginyl aminopeptidase (aminopeptidase B)-like 1	I	10	-6.21	-0.09	N
GSTA2	1	glutathione S-transferase alpha 2	I	10	-6.1	-0.83	N
TSSC4	1	tumor suppressing subtransferable candidate 4	I	10	-6.1	-0.09	N
PRAM1	1	PML-RARA regulated adaptor molecule 1	I	10	-6.1	3.69	N
PTMS	1	parathymosin	I	10	-4.76	1.33	N
RFC4	1	replication factor C (activator 1) 4, 37kDa	I	10	-4.19	0.87	N
TBCB	1	tubulin folding cofactor B	I	10	-3.89	1.07	N
TADA3	1	transcriptional adaptor 3	I	10	-3.71	0.64	N
ATG7	1	ATG7 autophagy related 7 homolog (S. cerevisiae)	I	10	-3.62	1.21	N
MKNK2	1	MAP kinase interacting serine/threonine kinase 2	I	10	-3.22	0.5	N
TGIF1	1	TGFB-induced factor homeobox 1	I	10	-3.15	-0.4	N

COMMD 5	1	COMM domain containing 5	I	10	-3.12	-0.7	N
CYP2S1	1	cytochrome P450, family 2, subfamily S, polypeptide 1	I	10	-2.64	2.51	N
CHD3	1	chromodomain helicase DNA binding protein 3	I	10	-1.92	0.05	N
NDUFA3	1	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 3, 9kDa	I	10	-1.85	-0.36	N
PDIK1L	1	PDLIM1 interacting kinase 1 like	I	10	-1.71	0.45	N
U2AF1L4	1	U2 small nuclear RNA auxiliary factor 1-like 4	I	10	-1.68	-0.04	N
TOR1B	1	torsin family 1, member B (torsin B)	I	10	-1.65	-0.18	N
RNF8	1	ring finger protein 8	I	10	-1.65	0.74	N
EEF1B2	1	eukaryotic translation elongation factor 1 beta 2	I	10	-1.4	0.26	N
PAFAH2	1	platelet-activating factor acetylhydrolase 2, 40kDa	I	10	-0.88	-0.48	N
HAUS3	1	HAUS augmin-like complex, subunit 3	I	10	-0.8	0.54	N
USP10	1	ubiquitin specific peptidase 10	I	10	-0.65	0.99	N
DAP3	1	death associated protein 3	I	10	-0.59	0.55	N
MTRR	1	5-methyltetrahydrofolate-homocysteine methyltransferase reductase	I	10	-0.58	-0.46	N
KLHL2	1	kelch-like 2, Mayven (Drosophila)	I	10	-0.56	-0.81	N
C12orf32	1	chromosome 12 open reading frame 32	I	10	-0.36	0.36	N
FOXK2	1	forkhead box K2	I	10	-0.2	1.66	N
CCDC132	1	coiled-coil domain containing 132	I	10	-0.18	-0.47	N
SMC4	1	structural maintenance of chromosomes 4	I	10	0.33	0.25	N
UFD1L	1	ubiquitin fusion degradation 1 like (yeast)	I	10	0.53	0.44	N
COMMD 1	1	copper metabolism (Murr1) domain containing 1	I	10	0.76	-0.01	N
C22orf28	1	chromosome 22 open reading frame 28	I	10	0.79	0.29	N
FAM63A	1	family with sequence similarity 63, member A	I	10	0.82	-0.84	N
KLHDC8B	1	kelch domain containing 8B	I	10	0.82	0.19	N
ZNF155	1	zinc finger protein 155	I	10	0.82	0.23	N
TRIM32	1	tripartite motif containing 32	I	10	1.23	-0.7	N
NAV2	1	neuron navigator 2	I	10	1.37	0.1	N

TIPRL	1	TIP41, TOR signaling pathway regulator-like (<i>S. cerevisiae</i>)	I	10	2.1	2.4	N
KLHL4	1	kelch-like 4 (<i>Drosophila</i>)	I	10	2.4	1.2	N
NDUFA6	1	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 6, 14kDa	I	10	2.63	-0.46	N
LIN52	1	lin-52 homolog (<i>C. elegans</i>)	I	10	3.51	0.84	N
DDIT4L	1	DNA-damage-inducible transcript 4-like	I	10	3.7	-2.09	N
HSCB	1	HscB iron-sulfur cluster co-chaperone homolog (<i>E. coli</i>)	I	10	5.33	0.39	N
AKTIP	1	AKT interacting protein	I	10	5.64	-0.53	N
MAPK12	1	mitogen-activated protein kinase 12	I	10		0.07	N
ZNF19	1	zinc finger protein 19	I	10		0.54	N
MTCP1	1	mature T-cell proliferation 1	I	10		0.79	N
SMARCD2	1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 2	I	9	-8.79	0.65	N
HINT2	1	histidine triad nucleotide binding protein 2	I	9	-7.03	0.05	N
GYLTL1B	1	glycosyltransferase-like 1B	I	9	-6.1	-1.06	N
UCP2	1	uncoupling protein 2 (mitochondrial, proton carrier)	I	9	-5.34	1.24	N
FBRS	1	fibrosin	I	9	-4.76	0.29	N
RAD23A	1	RAD23 homolog A (<i>S. cerevisiae</i>)	I	9	-4.59	-0.05	N
CDK16	1	cyclin-dependent kinase 16	I	9	-4.3	0.06	N
RBCK1	1	RanBP-type and C3HC4-type zinc finger containing 1	I	9	-3.62	0.76	N
MED25	1	mediator complex subunit 25	I	9	-3.57	1.38	N
LIG3	1	ligase III, DNA, ATP-dependent	I	9	-3.36	0.86	N
RAD54B	1	RAD54 homolog B (<i>S. cerevisiae</i>)	I	9	-2.96	0.6	N
CSTF2	1	cleavage stimulation factor, 3' pre-RNA, subunit 2, 64kDa	I	9	-2.64	-0.12	N
ZBTB20	1	zinc finger and BTB domain containing 20	I	9	-2.33	-1.45	N
PARP12	1	poly (ADP-ribose) polymerase family, member 12	I	9	-1.85	0.03	N
SH2D3A	1	SH2 domain containing 3A	I	9	-1.71	-0.23	N
DGCR8	1	DiGeorge syndrome critical region gene 8	I	9	-1.71	0.2	N
PARP2	1	poly (ADP-ribose) polymerase 2	I	9	-1.36	-0.12	N
MTMR4	1	myotubularin related protein 4	I	9	-1.28	-0.5	N

PRMT2	1	protein arginine methyltransferase 2	I	9	-1.23	0.33	N
ANAPC1	1	anaphase promoting complex subunit 1	I	9	-1.15	-0.32	N
EFR3B	1	EFR3 homolog B (<i>S. cerevisiae</i>)	I	9	-1.15	0.15	N
MLXIP	1	MLX interacting protein	I	9	-1.07	0.09	N
WDR59	1	WD repeat domain 59	I	9	-0.56	0.29	N
ARHGAP12	1	Rho GTPase activating protein 12	I	9	-0.37	-0.85	N
GPSM2	1	G-protein signaling modulator 2	I	9	-0.17	0.07	N
AKAP1	1	A kinase (PRKA) anchor protein 1	I	9	0.19	-0.07	N
IFT172	1	intraflagellar transport 172 homolog (<i>Chlamydomonas</i>)	I	9	0.3	-0.09	N
ASCC3	1	activating signal cointegrator 1 complex subunit 3	I	9	0.73	1.12	N
DCTN6	1	dynactin 6	I	9	0.82	0.82	N
USP35	1	ubiquitin specific peptidase 35	I	9	0.82	1.51	N
EIF2S1	1	eukaryotic translation initiation factor 2, subunit 1 alpha, 35kDa	I	9	1.18	0.09	N
CSTB	1	cystatin B (stefin B)	I	9	1.26	1.59	N
HS2ST1	1	heparan sulfate 2-O-sulfotransferase 1	I	9	2.23	-2.03	N
FOXC1	1	forkhead box C1	I	9	2.68	-1.32	N
FRAT2	1	frequently rearranged in advanced T-cell lymphomas 2	I	9	3.29	2.4	N
ALDH3B2	1	aldehyde dehydrogenase 3 family, member B2	I	9		-2.54	N
S100A7A	1	S100 calcium binding protein A7A	I	9		-1.26	N
SPAG17	1	sperm associated antigen 17	I	9		-0.7	N
PLCH2	1	phospholipase C, eta 2	I	9		1.04	N
HIST1H3A	1	histone cluster 1, H3a	I	9		2.76	N
HIST1H3J	1	histone cluster 1, H3j	I	9			N
PPL	1	periplakin	I	8	-10.14	-0.35	N
ARAP1	1	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1	I	8	-9.43	1	N
CYP2C8	1	cytochrome P450, family 2, subfamily C, polypeptide 8	I	8	-9.15	-0.67	N
SSH3	1	slingshot homolog 3 (<i>Drosophila</i>)	I	8	-8.79	-1.17	N
VARS2	1	valyl-tRNA synthetase 2, mitochondrial (putative)	I	8	-8.57	1	N

NCAPH2	1	non-SMC condensin II complex, subunit H2	I	8	-8.57	1.18	N
MZB1	1	marginal zone B and B1 cell-specific protein	I	8	-8.31	2.14	N
DNAJB2	1	DnaJ (Hsp40) homolog, subfamily B, member 2	I	8	-8	-0.55	N
NEBL	1	nebulette	I	8	-7.59	1.1	N
ERCC2	1	excision repair cross-complementing rodent repair deficiency, complementation group 2	I	8	-7.59	1.26	N
PPFIBP2	1	PTPRF interacting protein, binding protein 2 (liprin beta 2)	I	8	-7.03	0.96	N
VAV1	1	vav 1 guanine nucleotide exchange factor	I	8	-7.03	1.05	N
FBXO10	1	F-box protein 10	I	8	-7.03	2.4	N
TM7SF2	1	transmembrane 7 superfamily member 2	I	8	-6.1	-0.12	N
FCHSD1	1	FCH and double SH3 domains 1	I	8	-6.1	0.28	N
CNO	1	cappuccino homolog (mouse)	I	8	-6.1	0.73	N
DERL3	1	Der1-like domain family, member 3	I	8	-6.1	1.12	N
LRCH4	1	leucine-rich repeats and calponin homology (CH) domain containing 4	I	8	-5.52	-0.7	N
RNF167	1	ring finger protein 167	I	8	-5.52	0.15	N
NFYC	1	nuclear transcription factor Y, gamma	I	8	-5.11	0.53	N
PRMT1	1	protein arginine methyltransferase 1	I	8	-5.04	0.6	N
LSM10	1	LSM10, U7 small nuclear RNA associated	I	8	-4.85	2.27	N
ASRGL1	1	asparaginase like 1	I	8	-4.18	-1.09	N
ZNF76	1	zinc finger protein 76	I	8	-4.18	-0.12	N
PARL	1	presenilin associated, rhomboid-like	I	8	-4.18	0.45	N
RGS9	1	regulator of G-protein signaling 9	I	8	-3.57	-2.6	N
POU2AF1	1	POU class 2 associating factor 1	I	8	-3.5	0.23	N
MALL	1	mal, T-cell differentiation protein-like	I	8	-2.64	-0.39	N
ANKRD1	1	ankyrin repeat domain 13 family, member D	I	8	-2.64	-0.18	N
3D							
RAB11FI	1	RAB11 family interacting protein 1 (class I)	I	8	-2.64	-0.17	N
P1							
CYP4F11	1	cytochrome P450, family 4, subfamily F, polypeptide 11	I	8	-2.64	0.1	N

PAPD7	1	PAP associated domain containing 7	I	8	-2.64	0.42	N
SAMM50	1	sorting and assembly machinery component 50 homolog (<i>S. cerevisiae</i>)	I	8	-2.49	0.53	N
TOP3A	1	topoisomerase (DNA) III alpha	I	8	-2.42	-0.18	N
FBL	1	fibrillarin	I	8	-2.21	1.07	N
ZNF300	1	zinc finger protein 300	I	8	-2.08	1.41	N
MSRB1	1	methionine sulfoxide reductase B1	I	8	-2.07	-0.7	N
HSH2D	1	hematopoietic SH2 domain containing	I	8	-1.85	-0.19	N
TBL1X	1	transducin (beta)-like 1X-linked	I	8	-1.37	1.07	N
FBXO6	1	F-box protein 6	I	8	-1.36	-0.34	N
C15orf44	1	chromosome 15 open reading frame 44	I	8	-1.33	0.25	N
FLNC	1	filamin C, gamma	I	8	-1.25	-0.32	N
DHRS9	1	dehydrogenase/reductase (SDR family) member 9	I	8	-1.15	-1.69	N
TOE1	1	target of EGR1, member 1 (nuclear)	I	8	-1.15	0.07	N
TXNL1	1	thioredoxin-like 1	I	8	-0.92	-0.29	N
CRIP1	1	cysteine-rich PDZ-binding protein	I	8	-0.82	-0.21	N
TOM1L1	1	target of myb1 (chicken)-like 1	I	8	-0.74	-1.09	N
RPIA	1	ribose 5-phosphate isomerase A	I	8	-0.67	1.53	N
DIMT1	1	DIM1 dimethyladenosine transferase 1 homolog (<i>S. cerevisiae</i>)	I	8	-0.66	-0.33	N
GPBP1	1	GC-rich promoter binding protein 1	I	8	-0.54	0.01	N
PDXDC1	1	pyridoxal-dependent decarboxylase domain containing 1	I	8	-0.54	0.22	N
SEC61B	1	Sec61 beta subunit	I	8	-0.15	0.17	N
RASD1	1	RAS, dexamethasone-induced 1	I	8	0.24	-0.85	N
CAMK1D	1	calcium/calmodulin-dependent protein kinase ID	I	8	0.24	1.79	N
TLE3	1	transducin-like enhancer of split 3 (<i>E(sp1)</i> homolog, <i>Drosophila</i>)	I	8	0.41	0.85	N
PPIL4	1	peptidylprolyl isomerase (cyclophilin)-like 4	I	8	0.78	-0.7	N
FA2H	1	fatty acid 2-hydroxylase	I	8	0.82	-1.52	N
ST6GALNAC3	1	ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 3	I	8	0.94	-0.3	N
MAD2L1	1	MAD2L1 binding protein	I	8	1.05	0.51	N

BP								
PAPOLG	1	poly(A) polymerase gamma	I	8	1.15	-0.12	N	
DUSP14	1	dual specificity phosphatase 14	I	8	1.25	-0.26	N	
CDC42SE2	1	CDC42 small effector 2	I	8	1.53	0.9	N	
C2CD4B	1	C2 calcium-dependent domain containing 4B	I	8	1.75	3.98	N	
UBLCP1	1	ubiquitin-like domain containing CTD phosphatase 1	I	8	1.98	-0.48	N	
MSL3	1	male-specific lethal 3 homolog (Drosophila)	I	8	2.15	-0.44	N	
MRI1	1	methylthioribose-1-phosphate isomerase homolog (S. cerevisiae)	I	8	2.44	-0.65	N	
NT5DC1	1	5'-nucleotidase domain containing 1	I	8	4.02	-1.5	N	
THSD7A	1	thrombospondin, type I, domain containing 7A	I	8	4.28	-1.17	N	
PCP4	1	Purkinje cell protein 4	I	8		-0.89	N	
TBKBP1	1	TBK1 binding protein 1	I	8		-0.04	N	
ARC	1	activity-regulated cytoskeleton-associated protein	I	8		0.29	N	
GYG2	1	glycogenin 2	I	8		0.45	N	
LMO3	1	LIM domain only 3 (rhombotin-like 2)	I	8		0.84	N	
PDX1	1	pancreatic and duodenal homeobox 1	I	8		4.25	N	
KRT6B	1	keratin 6B	I	7	-10.22	1.86	N	
RNF126	1	ring finger protein 126	I	7	-8.98	-0.01	N	
GATM	1	glycine amidinotransferase (L-arginine:glycine amidinotransferase)	I	7	-8.57	-2.83	N	
POLE	1	polymerase (DNA directed), epsilon	I	7	-8.57	1.07	N	
CHERP	1	calcium homeostasis endoplasmic reticulum protein	I	7	-7.59	0.27	N	
TCF20	1	transcription factor 20 (AR1)	I	7	-7.59	1.32	N	
RIN1	1	Ras and Rab interactor 1	I	7	-7.59	1.58	N	
KAT2A	1	K(lysine) acetyltransferase 2A	I	7	-7.59	1.59	N	
NAT2	1	N-acetyltransferase 2 (arylamine N-acetyltransferase)	I	7	-7.03	-0.39	N	
MRPS34	1	mitochondrial ribosomal protein S34	I	7	-4.85	0.09	N	
STMN3	1	stathmin-like 3	I	7	-4.4	1.59	N	
MX1	1	myxovirus (influenza virus) resistance 1, interferon-inducible	I	7	-4.21	0.26	N	

		protein p78 (mouse)						
MVK	1	mevalonate kinase	I	7	-4.18	-0.85	N	
GPS2	1	G protein pathway suppressor 2	I	7	-3.84	-0.12	N	
POR	1	P450 (cytochrome) oxidoreductase	I	7	-3.61	-0.25	N	
PHF12	1	PHD finger protein 12	I	7	-3.57	1.28	N	
SCO1	1	SCO cytochrome oxidase deficient homolog 1 (yeast)	I	7	-3.43	0.14	N	
NCOA5	1	nuclear receptor coactivator 5	I	7	-3.36	-0.41	N	
ENO2	1	enolase 2 (gamma, neuronal)	I	7	-2.81	0.92	N	
CHN1	1	chimerin (chimaerin) 1	I	7	-2.64	-0.57	N	
POLR1A	1	polymerase (RNA) I polypeptide A, 194kDa	I	7	-2.64	0.4	N	
SOX15	1	SRY (sex determining region Y)-box 15	I	7	-2.64	1.77	N	
PSMC3	1	proteasome (prosome, macropain) 26S subunit, ATPase, 3	I	7	-2.32	0.1	N	
ZNRF1	1	zinc and ring finger 1	I	7	-2.24	1.91	N	
C16orf57	1	chromosome 16 open reading frame 57	I	7	-2.16	0.76	N	
EBNA1BP2	1	EBNA1 binding protein 2	I	7	-2.15	1.19	N	
HIST1H4H	1	histone cluster 1, H4h	I	7	-2.08	-1.64	N	
GYS1	1	glycogen synthase 1 (muscle)	I	7	-2.01	-0.07	N	
ABHD10	1	abhydrolase domain containing 10	I	7	-1.92	-0.79	N	
SMG5	1	smg-5 homolog, nonsense mediated mRNA decay factor (C. elegans)	I	7	-1.91	0.32	N	
TFAM	1	transcription factor A, mitochondrial	I	7	-1.88	-0.38	N	
PPME1	1	protein phosphatase methylesterase 1	I	7	-1.74	0.19	N	
SLC25A37	1	solute carrier family 25, member 37	I	7	-1.73	0.79	N	
HIST1H4E	1	histone cluster 1, H4e	I	7	-1.71	-2.6	N	
OGDHL	1	oxoglutarate dehydrogenase-like	I	7	-1.71	-0.7	N	
ZFYVE1	1	zinc finger, FYVE domain containing 1	I	7	-1.44	1.27	N	

PRPF19	1	PRP19/PSO4 pre-mRNA processing factor 19 homolog (<i>S. cerevisiae</i>)	I	7	-1.15	1.53	N
CBFB	1	core-binding factor, beta subunit	I	7	-1.1	0.03	N
ASCC1	1	activating signal cointegrator 1 complex subunit 1	I	7	-1.01	0.34	N
GNG4	1	guanine nucleotide binding protein (G protein), gamma 4	I	7	-0.92	1.56	N
PPIL3	1	peptidylprolyl isomerase (cyclophilin)-like 3	I	7	-0.89	-0.85	N
ALDH1B1	1	aldehyde dehydrogenase 1 family, member B1	I	7	-0.74	-1.59	N
POLR1B	1	polymerase (RNA) I polypeptide B, 128kDa	I	7	-0.52	0.29	N
FXN	1	frataxin	I	7	-0.42	-0.45	N
CREM	1	cAMP responsive element modulator	I	7	-0.23	-0.53	N
USP14	1	ubiquitin specific peptidase 14 (tRNA-guanine transglycosylase)	I	7	-0.13	0.8	N
MED17	1	mediator complex subunit 17	I	7	-0.02	0.29	N
AARS2	1	alanyl-tRNA synthetase 2, mitochondrial (putative)	I	7	0.06	-0.18	N
CC2D2A	1	coiled-coil and C2 domain containing 2A	I	7	0.32	-0.25	N
FAM54B	1	family with sequence similarity 54, member B	I	7	0.58	-0.03	N
TTPA	1	tocopherol (alpha) transfer protein	I	7	0.82	-6.38	N
SLC25A14	1	solute carrier family 25 (mitochondrial carrier, brain), member 14	I	7	0.82	-0.96	N
SDCBP2	1	syndecan binding protein (syntenin) 2	I	7	0.82	0.05	N
TIMM8B	1	translocase of inner mitochondrial membrane 8 homolog B (yeast)	I	7	0.92	0.92	N
PDZD11	1	PDZ domain containing 11	I	7	1.25	0.38	N
LSG1	1	large subunit GTPase 1 homolog (<i>S. cerevisiae</i>)	I	7	1.39	0.23	N
NAF1	1	nuclear assembly factor 1 homolog (<i>S. cerevisiae</i>)	I	7	2.31	0.79	N
PHPT1	1	phosphohistidine phosphatase 1	I	7	2.68	0.08	N
IQSEC2	1	IQ motif and Sec7 domain 2	I	7	3.03	-0.59	N
GMPS	1	guanine monophosphate synthetase	I	7	3.87	0.72	N
CAMK4	1	calcium/calmodulin-dependent protein kinase IV	I	7		-1.64	N
MACROD2	1	MACRO domain containing 2	I	7		-1.26	N

ESPN	1	espin	I	7	-1.11	N	
POLN	1	polymerase (DNA directed) nu	I	7	-0.7	N	
JPH1	1	junctophilin 1	I	7	0.73	N	
NR1I2	1	nuclear receptor subfamily 1, group I, member 2	I	7	1.2	N	
RPGRIP1 L	1	RPGRIP1-like	I	7	2.98	N	
SYN3	1	synapsin III	I	7	3.08	N	
NR0B1	1	nuclear receptor subfamily 0, group B, member 1	I	7	3.56	N	
MYO1G	1	myosin IG	I	6	-8.98	0.86	N
LPCAT1	1	lysophosphatidylcholine acyltransferase 1	I	6	-8.79	0.53	N
KIF1A	1	kinesin family member 1A	I	6	-8.31	-0.66	N
PPAN	1	peter pan homolog (Drosophila)	I	6	-8.31	0.21	N
GEM	1	GTP binding protein overexpressed in skeletal muscle	I	6	-7.59	-0.7	N
ACAP1	1	ArfGAP with coiled-coil, ankyrin repeat and PH domains 1	I	6	-7.59	-0.55	N
LONP1	1	lon peptidase 1, mitochondrial	I	6	-7.09	0.35	N
SH3GLB2	1	SH3-domain GRB2-like endophilin B2	I	6	-7.03	0.45	N
TUBG2	1	tubulin, gamma 2	I	6	-6.1	-0.92	N
HIST1H2 AG	1	histone cluster 1, H2ag	I	6	-6.1		N
HOXC10	1	homeobox C10	I	6	-5.52	-1.05	N
RCL1	1	RNA terminal phosphate cyclase-like 1	I	6	-5.11	-0.38	N
G6PC3	1	glucose 6 phosphatase, catalytic, 3	I	6	-5.04	0.87	N
PEPD	1	peptidase D	I	6	-4.76	-0.26	N
GCSH	1	glycine cleavage system protein H (aminomethyl carrier)	I	6	-4.34	-1.13	N
CLIP2	1	CAP-GLY domain containing linker protein 2	I	6	-4.34	1.61	N
POLD2	1	polymerase (DNA directed), delta 2, regulatory subunit 50kDa	I	6	-4.04	0.37	N
PMVK	1	phosphomevalonate kinase	I	6	-3.57	-0.7	N
MRPS26	1	mitochondrial ribosomal protein S26	I	6	-3.57	0.75	N
PSMB9	1	proteasome (prosome, macropain) subunit, beta type, 9 (large multifunctional peptidase 2)	I	6	-3.57	1.58	N

CDC42EP1	1	CDC42 effector protein (Rho GTPase binding) 1	I	6	-3.43	0.43	N
IMPDH1	1	IMP (inosine 5'-monophosphate) dehydrogenase 1	I	6	-2.96	1.34	N
ALDH3B1	1	aldehyde dehydrogenase 3 family, member B1	I	6	-2.64	-1.23	N
CYTH2	1	cytohesin 2	I	6	-2.64	0.92	N
TRAFD1	1	TRAF-type zinc finger domain containing 1	I	6	-2.57	0.33	N
TMEM9	1	transmembrane protein 9	I	6	-2.49	0.26	N
RNF220	1	ring finger protein 220	I	6	-2.38	0.16	N
IRF2BP1	1	interferon regulatory factor 2 binding protein 1	I	6	-2.33	0.96	N
CRSL1	1	cardiolipin synthase 1	I	6	-2.27	0.37	N
NKAP	1	NFkB activating protein	I	6	-2.06	-0.33	N
ECH1	1	enoyl CoA hydratase 1, peroxisomal	I	6	-2	-0.82	N
OSGEP	1	O-sialoglycoprotein endopeptidase	I	6	-2	-0.56	N
COPS7A	1	COP9 constitutive photomorphogenic homolog subunit 7A (Arabidopsis)	I	6	-1.87	0.48	N
DLG5	1	discs, large homolog 5 (Drosophila)	I	6	-1.81	-0.39	N
CHM	1	choroideremia (Rab escort protein 1)	I	6	-1.76	-0.94	N
CDC16	1	cell division cycle 16 homolog (S. cerevisiae)	I	6	-1.71	-0.1	N
CYB5R1	1	cytochrome b5 reductase 1	I	6	-1.66	-0.29	N
NAT10	1	N-acetyltransferase 10 (GCN5-related)	I	6	-1.43	0.4	N
GORASP1	1	golgi reassembly stacking protein 1, 65kDa	I	6	-1.39	0.01	N
ELOVL6	1	ELOVL fatty acid elongase 6	I	6	-1.36	1.12	N
FHOD1	1	formin homology 2 domain containing 1	I	6	-1.34	0.67	N
LUC7L2	1	LUC7-like 2 (S. cerevisiae)	I	6	-1.19	-0.38	N
METTL1	1	methyltransferase like 1	I	6	-1.15	0.09	N
FKBP2	1	FK506 binding protein 2, 13kDa	I	6	-1.1	-0.63	N
AK1	1	adenylate kinase 1	I	6	-0.81	0.52	N
CROT	1	carnitine O-octanoyltransferase	I	6	-0.43	0.51	N
CLNS1A	1	chloride channel, nucleotide-sensitive, 1A	I	6	-0.41	0.2	N

TRIT1	1	tRNA isopentenyltransferase 1	I	6	-0.37	0.14	N
PDE8A	1	phosphodiesterase 8A	I	6	-0.34	-0.76	N
TBCA	1	tubulin folding cofactor A	I	6	-0.3	0.91	N
RARS	1	arginyl-tRNA synthetase	I	6	-0.06	-0.24	N
CETN2	1	centrin, EF-hand protein, 2	I	6	0.04	-0.23	N
ZW10	1	ZW10, kinetochore associated, homolog (Drosophila)	I	6	0.41	-0.92	N
ANAPC4	1	anaphase promoting complex subunit 4	I	6	0.41	-0.29	N
PNPO	1	pyridoxamine 5'-phosphate oxidase	I	6	0.61	-0.74	N
MFN1	1	mitofusin 1	I	6	0.69	-0.7	N
C7orf10	1	chromosome 7 open reading frame 10	I	6	0.82	0.51	N
PEX11B	1	peroxisomal biogenesis factor 11 beta	I	6	1.2	-0.41	N
ANKRD28	1	ankyrin repeat domain 28	I	6	1.28	-0.5	N
AGMAT	1	agmatine ureohydrolase (agmatinase)	I	6	1.32	-2.49	N
ME1	1	malic enzyme 1, NADP(+)-dependent, cytosolic	I	6	1.55	-0.59	N
PTRH2	1	peptidyl-tRNA hydrolase 2	I	6	1.75	-0.33	N
SACS	1	spastic ataxia of Charlevoix-Saguenay (sacsin)	I	6	2.51	2.48	N
CENPI	1	centromere protein I	I	6	2.72	4.25	N
FAM213A	1	family with sequence similarity 213, member A	I	6	2.96	-0.33	N
CABYR	1	calcium binding tyrosine-(Y)-phosphorylation regulated	I	6	3.03	-0.7	N
SURF1	1	surfeit 1	I	6	3.29	-0.8	N
TNNT3	1	troponin T type 3 (skeletal, fast)	I	6		-1.28	N
KBTBD7	1	kelch repeat and BTB (POZ) domain containing 7	I	6		-0.13	N
PADI3	1	peptidyl arginine deiminase, type III	I	6			N
CSNK2A1P	1	casein kinase 2, alpha 1 polypeptide pseudogene	I	6			N
SMARCD3	1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 3	I	5	-8.98	1.5	N
SNTB1	1	syntrophin, beta 1 (dystrophin-associated protein A1, 59kDa,	I	5	-7.03	0.51	N

		basic component 1)						
RND1	1	Rho family GTPase 1	I	5	-6.1	-0.19	N	
UPF1	1	UPF1 regulator of nonsense transcripts homolog (yeast)	I	5	-5.33	-0.39	N	
MRPS6	1	mitochondrial ribosomal protein S6	I	5	-5.28	-0.56	N	
TBRG4	1	transforming growth factor beta regulator 4	I	5	-4.3	0.69	N	
ARHGAP 32	1	Rho GTPase activating protein 32	I	5	-4.18	-0.04	N	
GBF1	1	golgi brefeldin A resistant guanine nucleotide exchange factor 1	I	5	-3.85	0.68	N	
RFXANK	1	regulatory factor X-associated ankyrin-containing protein	I	5	-3.79	0.54	N	
PMPCA	1	peptidase (mitochondrial processing) alpha	I	5	-3.63	0.62	N	
WBSCR2 2	1	Williams Beuren syndrome chromosome region 22	I	5	-3.08	0.5	N	
WIP12	1	WD repeat domain, phosphoinositide interacting 2	I	5	-2.64	0.08	N	
GAMT	1	guanidinoacetate N-methyltransferase	I	5	-2.64	0.1	N	
PDE4DIP	1	phosphodiesterase 4D interacting protein	I	5	-2.64	0.3	N	
GSS	1	glutathione synthetase	I	5	-2.45	1.28	N	
COQ2	1	coenzyme Q2 homolog, prenyltransferase (yeast)	I	5	-2.08	0.54	N	
AARS	1	alanyl-tRNA synthetase	I	5	-1.98	0.84	N	
PINK1	1	PTEN induced putative kinase 1	I	5	-1.74	-0.22	N	
VPS33B	1	vacuolar protein sorting 33 homolog B (yeast)	I	5	-1.65	-0.79	N	
CLASP1	1	cytoplasmic linker associated protein 1	I	5	-1.65	0.71	N	
IDI1	1	isopentenyl-diphosphate delta isomerase 1	I	5	-1.47	0.62	N	
FARSA	1	phenylalanyl-tRNA synthetase, alpha subunit	I	5	-1.2	-0.31	N	
RPS19	1	ribosomal protein S19	I	5	-0.9	1.25	N	
CHCHD3	1	coiled-coil-helix-coiled-coil-helix domain containing 3	I	5	-0.89	-0.04	N	
OFD1	1	oral-facial-digital syndrome 1	I	5	-0.68	1.81	N	
BZW2	1	basic leucine zipper and W2 domains 2	I	5	-0.66	-1.03	N	
ARID4B	1	AT rich interactive domain 4B (RBP1-like)	I	5	-0.6	-0.1	N	
FBXO22	1	F-box protein 22	I	5	-0.59	1.04	N	
CETN3	1	centrin, EF-hand protein, 3	I	5	-0.51	-0.04	N	

TDG	1	thymine-DNA glycosylase	I	5	-0.46	-1.69	N
COPS8	1	COP9 constitutive photomorphogenic homolog subunit 8 (Arabidopsis)	I	5	-0.46	-0.03	N
SOCS7	1	suppressor of cytokine signaling 7	I	5	-0.46	1.08	N
SRSF2	1	serine/arginine-rich splicing factor 2	I	5	-0.14	0.4	N
TMF1	1	TATA element modulatory factor 1	I	5	-0.12	-1.26	N
SSB	1	Sjogren syndrome antigen B (autoantigen La)	I	5	-0.11	-0.1	N
VPS25	1	vacuolar protein sorting 25 homolog (S. cerevisiae)	I	5	-0.1	-0.3	N
FTO	1	fat mass and obesity associated	I	5	-0.08	-1.18	N
HOXA10	1	homeobox A10	I	5	-0.08	0.22	N
AHSA1	1	AHA1, activator of heat shock 90kDa protein ATPase homolog 1 (yeast)	I	5	-0.08	0.7	N
PKD3	1	pyruvate dehydrogenase kinase, isozyme 3	I	5	0.06	-0.04	N
MYNN	1	myoneurin	I	5	0.15	-0.92	N
PARD6B	1	par-6 partitioning defective 6 homolog beta (C. elegans)	I	5	0.39	-0.62	N
PPP1R8	1	protein phosphatase 1, regulatory (inhibitor) subunit 8	I	5	0.49	0.03	N
NDUFV2	1	NADH dehydrogenase (ubiquinone) flavoprotein 2, 24kDa	I	5	0.56	-0.78	N
PPT2	1	palmitoyl-protein thioesterase 2	I	5	0.69	-0.26	N
RAB13	1	RAB13, member RAS oncogene family	I	5	0.75	0.01	N
FANCL	1	Fanconi anemia, complementation group L	I	5	0.82	0.41	N
SPRR1B	1	small proline-rich protein 1B	I	5	0.82	0.58	N
NR2C1	1	nuclear receptor subfamily 2, group C, member 1	I	5	0.9	-0.87	N
CYP21A1 P	1	cytochrome P450, family 21, subfamily A, polypeptide 1 pseudogene	I	5	1.04	4.65	N
PFDN2	1	prefoldin subunit 2	I	5	1.75	0.91	N
DIAPH2	1	diaphanous homolog 2 (Drosophila)	I	5	1.81	1.41	N
ERH	1	enhancer of rudimentary homolog (Drosophila)	I	5	1.92	0.76	N
DGKH	1	diacylglycerol kinase, eta	I	5	2.31	-2.2	N
LUC7L	1	LUC7-like (S. cerevisiae)	I	5	2.31	0.69	N
C14orf1	1	chromosome 14 open reading frame 1	I	5	2.93	-0.46	N

TBC1D4	1	TBC1 domain family, member 4	I	5	3.55	0.92	N
SRP54	1	signal recognition particle 54kDa	I	5	3.65	-0.75	N
CYP26B1	1	cytochrome P450, family 26, subfamily B, polypeptide 1	I	5		-0.96	N
GSTT2	1	glutathione S-transferase theta 2	I	5		0.42	N
MYT1	1	myelin transcription factor 1	I	5		1.38	N
SPTBN2	1	spectrin, beta, non-erythrocytic 2	I	4	-7.59	-0.48	N
CDC34	1	cell division cycle 34 homolog (<i>S. cerevisiae</i>)	I	4	-7.59	0.87	N
IVL	1	involucrin	I	4	-7.59	6.22	N
NLRP2	1	NLR family, pyrin domain containing 2	I	4	-7.03	-0.13	N
NFIX	1	nuclear factor I/X (CCAAT-binding transcription factor)	I	4	-7.03	0.81	N
HCP5	1	HLA complex P5 (non-protein coding)	I	4	-6.21	0.03	N
TAF13	1	TAF13 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 18kDa	I	4	-6.1	-4.16	N
PADI2	1	peptidyl arginine deiminase, type II	I	4	-6.1	-0.89	N
CAPN10	1	calpain 10	I	4	-4.14	-0.7	N
BAIAP2L1	1	BAI1-associated protein 2-like 1	I	4	-3.92	0.63	N
GK	1	glycerol kinase	I	4	-3.62	-1.77	N
SPG7	1	spastic paraplegia 7 (pure and complicated autosomal recessive)	I	4	-3.21	0.3	N
GCNT2	1	glucosaminyl (N-acetyl) transferase 2, I-branching enzyme (I blood group)	I	4	-2.78	0.42	N
CENPH	1	centromere protein H	I	4	-2.64	1.26	N
CLK2	1	CDC-like kinase 2	I	4	-2.38	0.39	N
CYP3A5	1	cytochrome P450, family 3, subfamily A, polypeptide 5	I	4	-2.24	-0.63	N
TUSC3	1	tumor suppressor candidate 3	I	4	-2.2	0.25	N
RAD18	1	RAD18 homolog (<i>S. cerevisiae</i>)	I	4	-2.08	1.59	N
HPRT1	1	hypoxanthine phosphoribosyltransferase 1	I	4	-1.95	-0.65	N
KRR1	1	KRR1, small subunit (SSU) processome component, homolog (yeast)	I	4	-1.95	-0.16	N
APH1A	1	anterior pharynx defective 1 homolog A (<i>C. elegans</i>)	I	4	-1.81	0.3	N

HOXB5	1	homeobox B5	I	4	-1.71	-0.08	N
PSMD6	1	proteasome (prosome, macropain) 26S subunit, non-ATPase, 6	I	4	-1.56	-1.28	N
TADA2A	1	transcriptional adaptor 2A	I	4	-1.44	-0.39	N
L3MBTL2	1	l(3)mbt-like 2 (Drosophila)	I	4	-1.34	2.17	N
KHDRBS3	1	KH domain containing, RNA binding, signal transduction associated 3	I	4	-1.2	0.87	N
ERLIN2	1	ER lipid raft associated 2	I	4	-1.17	-1.01	N
LBH	1	limb bud and heart development homolog (mouse)	I	4	-1.06	1.61	N
PSMD7	1	proteasome (prosome, macropain) 26S subunit, non-ATPase, 7	I	4	-1	-0.03	N
ZRANB2	1	zinc finger, RAN-binding domain containing 2	I	4	-0.95	-0.34	N
SETMAR	1	SET domain and mariner transposase fusion gene	I	4	-0.8	-0.97	N
GAR1	1	GAR1 ribonucleoprotein homolog (yeast)	I	4	-0.74	0.86	N
SSR4	1	signal sequence receptor, delta (translocon-associated protein delta)	I	4	-0.5	-0.27	N
ATP6V1D	1	ATPase, H ⁺ transporting, lysosomal 34kDa, V1 subunit D	I	4	-0.46	-0.41	N
NDUFB9	1	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 9, 22kDa	I	4	-0.3	-0.06	N
KIAA0020	1	KIAA0020	I	4	-0.21	0.75	N
COPS2	1	COP9 constitutive photomorphogenic homolog subunit 2 (Arabidopsis)	I	4	0.03	-0.4	N
COG5	1	component of oligomeric golgi complex 5	I	4	0.03	0.47	N
CCP110	1	centriolar coiled coil protein 110kDa	I	4	0.21	-0.96	N
TLE4	1	transducin-like enhancer of split 4 (E(sp1) homolog, Drosophila)	I	4	0.41	-0.37	N
ATF7	1	activating transcription factor 7	I	4	0.62	-0.78	N
RAB3B	1	RAB3B, member RAS oncogene family	I	4	0.69	-0.29	N
DDC	1	dopa decarboxylase (aromatic L-amino acid decarboxylase)	I	4	0.82	-0.79	N
PSME2	1	proteasome (prosome, macropain) activator subunit 2 (PA28 beta)	I	4	1.22	0.68	N
PSMA3	1	proteasome (prosome, macropain) subunit, alpha type, 3	I	4	1.59	0.25	N
WDR3	1	WD repeat domain 3	I	4	1.75	-1.39	N

CASP12	1	caspase 12 (gene/pseudogene)	I	4	1.75		N
NEDD4L	1	neural precursor cell expressed, developmentally down-regulated 4-like	I	4	1.96	-1.03	N
SUOX	1	sulfite oxidase	I	4	2.3	-0.58	N
PACRG	1	PARK2 co-regulated	I	4	2.72	-0.12	N
NR0B2	1	nuclear receptor subfamily 0, group B, member 2	I	4		-1.11	N
HOXC13	1	homeobox C13	I	4		-0.7	N
SYNGAP1	1	synaptic Ras GTPase activating protein 1	I	4		1.12	N
FXR2	1	fragile X mental retardation, autosomal homolog 2	I	3	-8.57	1.19	N
ACD	1	adrenocortical dysplasia homolog (mouse)	I	3	-8.31	-0.27	N
WHSC2	1	Wolf-Hirschhorn syndrome candidate 2	I	3	-8	0.39	N
AP1M2	1	adaptor-related protein complex 1, mu 2 subunit	I	3	-7.59	0.29	N
GALK1	1	galactokinase 1	I	3	-7.59	1.47	N
HBA1	1	hemoglobin, alpha 1	I	3	-6.1	0.48	N
OASL	1	2'-5'-oligoadenylate synthetase-like	I	3	-4.59	1.7	N
CLEC16A	1	C-type lectin domain family 16, member A	I	3	-4.14	0.19	N
NDE1	1	nudE nuclear distribution gene E homolog 1 (A. nidulans)	I	3	-4.03	2.22	N
FKBP4	1	FK506 binding protein 4, 59kDa	I	3	-3.98	1.18	N
ACSM3	1	acyl-CoA synthetase medium-chain family member 3	I	3	-3.57	-1.04	N
GGA1	1	golgi-associated, gamma adaptin ear containing, ARF binding protein 1	I	3	-2.96	0.23	N
RFX5	1	regulatory factor X, 5 (influences HLA class II expression)	I	3	-2.64	-0.57	N
NDUFS3	1	NADH dehydrogenase (ubiquinone) Fe-S protein 3, 30kDa (NADH-coenzyme Q reductase)	I	3	-2.64	0.27	N
OAS1	1	2'-5'-oligoadenylate synthetase 1, 40/46kDa	I	3	-2.47	0.5	N
SSRP1	1	structure specific recognition protein 1	I	3	-1.68	0.86	N
NOP56	1	NOP56 ribonucleoprotein homolog (yeast)	I	3	-1.52	0.54	N
FOXP2	1	forkhead box P2	I	3	-1.49	-1.24	N
SAE1	1	SUMO1 activating enzyme subunit 1	I	3	-0.9	0.67	N
OAT	1	ornithine aminotransferase	I	3	-0.79	-0.75	N

FIS1	1	fission 1 (mitochondrial outer membrane) homolog (<i>S. cerevisiae</i>)	I	3	-0.58	0.5	N
PRPF4	1	PRP4 pre-mRNA processing factor 4 homolog (yeast)	I	3	-0.29	0.34	N
MSX1	1	msh homeobox 1	I	3	-0.24	0.43	N
NUTF2	1	nuclear transport factor 2	I	3	0.23	1.08	N
CPSF2	1	cleavage and polyadenylation specific factor 2, 100kDa	I	3	0.47	-0.46	N
ORC5	1	origin recognition complex, subunit 5	I	3	0.56	-0.96	N
SYNE2	1	spectrin repeat containing, nuclear envelope 2	I	3	0.69	-0.42	N
CRYBB2	1	crystallin, beta B2	I	3	0.82	-5.66	N
TNNC1	1	troponin C type 1 (slow)	I	3	0.82	-0.36	N
POLR2G	1	polymerase (RNA) II (DNA directed) polypeptide G	I	3	1.46	-0.37	N
CYP21A2	1	cytochrome P450, family 21, subfamily A, polypeptide 2	I	3			N
HBB	1	hemoglobin, beta	I	2	-12.95	-0.2	N
GTF2H4	1	general transcription factor IIH, polypeptide 4, 52kDa	I	2	-8.79	-0.05	N
RCC1	1	regulator of chromosome condensation 1	I	2	-4.2	-1.21	N
NEU1	1	sialidase 1 (lysosomal sialidase)	I	2	-3.5	-0.09	N
SF3A1	1	splicing factor 3a, subunit 1, 120kDa	I	2	-3.44	0.86	N
VAPB	1	VAMP (vesicle-associated membrane protein)-associated protein B and C	I	2	-3.09	-0.61	N
PSMD3	1	proteasome (prosome, macropain) 26S subunit, non-ATPase, 3	I	2	-2.96	0.8	N
NXF1	1	nuclear RNA export factor 1	I	2	-2.9	0.25	N
SCAP	1	SREBF chaperone	I	2	-2.16	1.71	N
EYA1	1	eyes absent homolog 1 (<i>Drosophila</i>)	I	2	-1.71	-0.13	N
POLR2H	1	polymerase (RNA) II (DNA directed) polypeptide H	I	2	-0.94	0.43	N
KPNA1	1	karyopherin alpha 1 (importin alpha 5)	I	2	-0.9	-0.27	N
DCTN2	1	dynactin 2 (p50)	I	2	-0.74	0.31	N
VKORC1	1	vitamin K epoxide reductase complex, subunit 1	I	2	-0.29	-0.31	N
RPS16	1	ribosomal protein S16	I	2	-0.15	-0.18	N
ILF2	1	interleukin enhancer binding factor 2, 45kDa	I	2	0.11	0.63	N
SNRPD2	1	small nuclear ribonucleoprotein D2 polypeptide 16.5kDa	I	2	0.43	0.71	N

FXR1	1	fragile X mental retardation, autosomal homolog 1	I	2	1.12	0.84	N
RPA3	1	replication protein A3, 14kDa	I	2	5.39	0.46	N
AMPH	1	amphiphysin	I	2		-0.7	N
DBP	1	D site of albumin promoter (albumin D-box) binding protein	I	2		0.17	N
ATRIP	1	ATR interacting protein	I	2		1.2	N
HBG2	1	hemoglobin, gamma G	I	1	-6.1	4.96	N
POLR2J	1	polymerase (RNA) II (DNA directed) polypeptide J, 13.3kDa	I	1	-1.85	-0.12	N
ARSA	1	arylsulfatase A	I	1	-0.91	-1.06	N
POLR2C	1	polymerase (RNA) II (DNA directed) polypeptide C, 33kDa	I	1	-0.15	0.13	N
WFS1	1	Wolfram syndrome 1 (wolframin)	I	1	0.41	-0.44	N
LYPLA2	1	lysophospholipase II	I	0	-10.36	0.16	N
NUP188	1	nucleoporin 188kDa	I	0	-10.06	0.61	N
IGLL5	1	immunoglobulin lambda-like polypeptide 5	I	0	-10	0.14	N
LOC400927	1	TPTE and PTEN homologous inositol lipid phosphatase pseudogene	I	0	-9.97	-0.7	N
YDJC	1	YdjC homolog (bacterial)	I	0	-9.67	-0.08	N
LAD1	1	ladinin 1	I	0	-9.56	0.38	N
HBD	1	hypophosphatemic bone disease	I	0	-9.56		N
YIF1A	1	Yip1 interacting factor homolog A (<i>S. cerevisiae</i>)	I	0	-9.3	1.05	N
TC2N	1	tandem C2 domains, nuclear	I	0	-8.98	-0.7	N
NMRAL1	1	NmrA-like family domain containing 1	I	0	-8.98	-0.03	N
GRAMD1A	1	GRAM domain containing 1A	I	0	-8.79	-0.2	N
FAM58A	1	family with sequence similarity 58, member A	I	0	-8.79	0.1	N
SDS	1	serine dehydratase	I	0	-8.57	-4.85	N
PTDSS2	1	phosphatidylserine synthase 2	I	0	-8.57	-1.09	N
WDR18	1	WD repeat domain 18	I	0	-8.57	-0.64	N
IFI6	1	interferon, alpha-inducible protein 6	I	0	-8.57	0.23	N
RHPN2	1	rhophilin, Rho GTPase binding protein 2	I	0	-8.57	0.28	N
CHPF	1	chondroitin polymerizing factor	I	0	-8.57	0.36	N

GMEB2	1	glucocorticoid modulatory element binding protein 2	I	0	-8.57	0.82	N
C12orf52	1	chromosome 12 open reading frame 52	I	0	-8.57	0.92	N
LOC400027	1	hypothetical LOC400027	I	0	-8.31	-0.7	N
UBE2M	1	ubiquitin-conjugating enzyme E2M	I	0	-8.31	-0.33	N
SSNA1	1	Sjogren syndrome nuclear autoantigen 1	I	0	-8.31	-0.27	N
ELOF1	1	elongation factor 1 homolog (<i>S. cerevisiae</i>)	I	0	-8.31	0.29	N
TRABD	1	TraB domain containing	I	0	-8.31	0.75	N
RAB17	1	RAB17, member RAS oncogene family	I	0	-8	-2.28	N
TTC32	1	tetratricopeptide repeat domain 32	I	0	-8	-1.62	N
NAGPA	1	N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase	I	0	-8	-0.25	N
TPCN2	1	two pore segment channel 2	I	0	-8	0.03	N
GRHL1	1	grainyhead-like 1 (<i>Drosophila</i>)	I	0	-7.59	-2.65	N
SPEF1	1	sperm flagellar 1	I	0	-7.59	-2.24	N
LHPP	1	phospholysine phosphohistidine inorganic pyrophosphate phosphatase	I	0	-7.59	-2.05	N
LOC339535	1	hypothetical LOC339535	I	0	-7.59	-1.28	N
FAM20A	1	family with sequence similarity 20, member A	I	0	-7.59	-0.78	N
DOK6	1	docking protein 6	I	0	-7.59	-0.06	N
ZMAT5	1	zinc finger, matrin-type 5	I	0	-7.59	0.7	N
WDR74	1	WD repeat domain 74	I	0	-7.59	0.75	N
THAP4	1	THAP domain containing 4	I	0	-7.59	0.85	N
DUS1L	1	dihydrouridine synthase 1-like (<i>S. cerevisiae</i>)	I	0	-7.59	0.93	N
HDDC3	1	HD domain containing 3	I	0	-7.59	1.28	N
DCAF15	1	DDB1 and CUL4 associated factor 15	I	0	-7.59	1.54	N
BICC1	1	bicaudal C homolog 1 (<i>Drosophila</i>)	I	0	-7.59	3.69	N
ZNF799	1	zinc finger protein 799	I	0	-7.03	-6.38	N
CYP4F3	1	cytochrome P450, family 4, subfamily F, polypeptide 3	I	0	-7.03	-1.85	N

FLJ31485	1	hypothetical LOC440119	I	0	-7.03	-1.42	N
LOC643837	1	hypothetical LOC643837	I	0	-7.03	-1.21	N
SH2D4A	1	SH2 domain containing 4A	I	0	-7.03	-1.08	N
PABPC1L	1	poly(A) binding protein, cytoplasmic 1-like	I	0	-7.03	-0.79	N
CUX2	1	cut-like homeobox 2	I	0	-7.03	-0.3	N
TTI1	1	Tel2 interacting protein 1 homolog (S. pombe)	I	0	-7.03	-0.19	N
ATPAF2	1	ATP synthase mitochondrial F1 complex assembly factor 2	I	0	-7.03	-0.08	N
RPP25L	1	ribonuclease P/MRP 25kDa subunit-like	I	0	-7.03	-0.05	N
CAMKMT	1	calmodulin-lysine N-methyltransferase	I	0	-7.03	0.08	N
RDH13	1	retinol dehydrogenase 13 (all-trans/9-cis)	I	0	-7.03	0.13	N
KPTN	1	kaptin (actin binding protein)	I	0	-7.03	0.4	N
ILKAP	1	integrin-linked kinase-associated serine/threonine phosphatase	I	0	-7.03	0.46	N
ATHL1	1	ATH1, acid trehalase-like 1 (yeast)	I	0	-7.03	0.47	N
TRAPPC6A	1	trafficking protein particle complex 6A	I	0	-7.03	0.61	N
ZER1	1	zer-1 homolog (C. elegans)	I	0	-7.03	0.74	N
C7orf43	1	chromosome 7 open reading frame 43	I	0	-7.03	0.76	N
TJAP1	1	tight junction associated protein 1 (peripheral)	I	0	-7.03	0.86	N
ZNF415	1	zinc finger protein 415	I	0	-7.03	1.7	N
C17orf53	1	chromosome 17 open reading frame 53	I	0	-7.03	1.77	N
C16orf13	1	chromosome 16 open reading frame 13	I	0	-7.03	1.79	N
WDR90	1	WD repeat domain 90	I	0	-7.03	2.13	N
ZNF467	1	zinc finger protein 467	I	0	-7.03	2.77	N
ZNF550	1	zinc finger protein 550	I	0	-7.03		N
INTS4L2	1	integrator complex subunit 4-like 2	I	0	-6.1	-5.09	N
C1orf126	1	chromosome 1 open reading frame 126	I	0	-6.1	-5.09	N
FLJ42875	1	hypothetical LOC440556	I	0	-6.1	-3.26	N
CYS1	1	cystin 1	I	0	-6.1	-2.8	N
ZNF750	1	zinc finger protein 750	I	0	-6.1	-2.6	N

SLC25A18	1	solute carrier family 25 (mitochondrial carrier), member 18	I	0	-6.1	-2.58	N
FAM149A	1	family with sequence similarity 149, member A	I	0	-6.1	-2.1	N
LOC100132247	1	nuclear pore complex interacting protein related gene	I	0	-6.1	-1.33	N
FAM46C	1	family with sequence similarity 46, member C	I	0	-6.1	-1.23	N
C1orf116	1	chromosome 1 open reading frame 116	I	0	-6.1	-1.17	N
KIAA1257	1	KIAA1257	I	0	-6.1	-1.11	N
LOC100506963	1	hypothetical LOC100506963	I	0	-6.1	-0.7	N
LOC100129518	1	hypothetical LOC100129518	I	0	-6.1	-0.7	N
FCHO1	1	FCH domain only 1	I	0	-6.1	-0.7	N
CDRT1	1	CMT1A duplicated region transcript 1	I	0	-6.1	-0.7	N
ZNF503-AS2	1	ZNF503 antisense RNA 2 (non-protein coding)	I	0	-6.1	-0.62	N
DNAJC27	1	DnaJ (Hsp40) homolog, subfamily C, member 27	I	0	-6.1	-0.51	N
C1orf51	1	chromosome 1 open reading frame 51	I	0	-6.1	-0.51	N
FAM158A	1	family with sequence similarity 158, member A	I	0	-6.1	-0.19	N
ZNF512B	1	zinc finger protein 512B	I	0	-6.1	-0.17	N
INO80B	1	INO80 complex subunit B	I	0	-6.1	-0.12	N
KAZN	1	kazrin, periplakin interacting protein	I	0	-6.1	-0.04	N
ANKS3	1	ankyrin repeat and sterile alpha motif domain containing 3	I	0	-6.1	-0.01	N
AMDHD2	1	amidohydrolase domain containing 2	I	0	-6.1	-0.01	N
MYH14	1	myosin, heavy chain 14, non-muscle	I	0	-6.1	0.02	N
ZNF764	1	zinc finger protein 764	I	0	-6.1	0.03	N
HNRNPU-AS1	1	HNRNPU antisense RNA 1 (non-protein coding)	I	0	-6.1	0.07	N

ZNF558	1	zinc finger protein 558	I	0	-6.1	0.13	N
LOC728377	1	Rho guanine nucleotide exchange factor (GEF) 5 pseudogene	I	0	-6.1	0.42	N
LOC283070	1	hypothetical LOC283070	I	0	-6.1	0.53	N
GFPT2	1	glutamine-fructose-6-phosphate transaminase 2	I	0	-6.1	0.6	N
ARAP2	1	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 2	I	0	-6.1	0.6	N
MRPL54	1	mitochondrial ribosomal protein L54	I	0	-6.1	0.64	N
FAM160A2	1	family with sequence similarity 160, member A2	I	0	-6.1	0.65	N
CCDC159	1	coiled-coil domain containing 159	I	0	-6.1	0.66	N
C19orf47	1	chromosome 19 open reading frame 47	I	0	-6.1	0.85	N
C21orf119	1	chromosome 21 open reading frame 119	I	0	-6.1	0.86	N
SMYD5	1	SMYD family member 5	I	0	-6.1	0.87	N
REXO1	1	REX1, RNA exonuclease 1 homolog (S. cerevisiae)	I	0	-6.1	0.87	N
ZNF473	1	zinc finger protein 473	I	0	-6.1	1.2	N
LOC100527964	1	hypothetical LOC100527964	I	0	-6.1	1.24	N
LOC100288069	1	hypothetical LOC100288069	I	0	-6.1	1.77	N
NSUN5P2	1	NOP2/Sun domain family, member 5 pseudogene 2	I	0	-6.1	1.81	N
C15orf42	1	chromosome 15 open reading frame 42	I	0	-6.1	2.18	N
PSMG4	1	proteasome (prosome, macropain) assembly chaperone 4	I	0	-6.1	2.48	N
HBQ1	1	hemoglobin, theta 1	I	0	-6.1	2.76	N
TFAP2E	1	transcription factor AP-2 epsilon (activating enhancer binding protein 2 epsilon)	I	0	-6.1	3.69	N
KLF1	1	Kruppel-like factor 1 (erythroid)	I	0	-6.1	4.25	N
NCKAP5L	1	NCK-associated protein 5-like	I	0	-6.1	5.45	N
SNORD5	1	small nucleolar RNA, C/D box 56	I	0	-6.1		N

6								
SNORD1	1	small nucleolar RNA, C/D box 17	I	0	-6.1			N
7								
SNORA4	1	small nucleolar RNA, H/ACA box 40	I	0	-6.1			N
0								
RPL17-C18ORF3	1	RPL17-C18orf32 readthrough	I	0	-6.1			N
2								
FAM129C	1	family with sequence similarity 129, member C	I	0	-6.1			N
TCEA2	1	transcription elongation factor A (SII), 2	I	0	-5.84	-0.14		N
PLEKHG4	1	pleckstrin homology domain containing, family G (with RhoGef domain) member 4	I	0	-5.84	0.26		N
ZMYM3	1	zinc finger, MYM-type 3	I	0	-5.78	-0.55		N
VPS72	1	vacuolar protein sorting 72 homolog (<i>S. cerevisiae</i>)	I	0	-5.69	0.16		N
AP2S1	1	adaptor-related protein complex 2, sigma 1 subunit	I	0	-5.69	0.55		N
ZNF737	1	zinc finger protein 737	I	0	-5.52	0.07		N
SNF8	1	SNF8, ESCRT-II complex subunit, homolog (<i>S. cerevisiae</i>)	I	0	-5.52	0.36		N
GPAM	1	glycerol-3-phosphate acyltransferase, mitochondrial	I	0	-5.33	0.1		N
MRPS2	1	mitochondrial ribosomal protein S2	I	0	-5.33	0.21		N
VAC14	1	Vac14 homolog (<i>S. cerevisiae</i>)	I	0	-5.33	1.43		N
TFCP2L1	1	transcription factor CP2-like 1	I	0	-5.17	-1.6		N
TIMM44	1	translocase of inner mitochondrial membrane 44 homolog (yeast)	I	0	-5.11	-0.33		N
SLC27A4	1	solute carrier family 27 (fatty acid transporter), member 4	I	0	-5.11	-0.12		N
ITPA	1	inosine triphosphatase (nucleoside triphosphate pyrophosphatase)	I	0	-5.11	0.59		N
IER2	1	immediate early response 2	I	0	-5.02	0.47		N
SDR39U1	1	short chain dehydrogenase/reductase family 39U, member 1	I	0	-4.91	0.52		N
HS1BP3	1	HCLS1 binding protein 3	I	0	-4.85	0.65		N
USE1	1	unconventional SNARE in the ER 1 homolog (<i>S. cerevisiae</i>)	I	0	-4.85	1.02		N

ACSF3	1	acyl-CoA synthetase family member 3	I	0	-4.85	1.27	N
AP1M1	1	adaptor-related protein complex 1, mu 1 subunit	I	0	-4.83	1.25	N
MLF2	1	myeloid leukemia factor 2	I	0	-4.76	0.54	N
RFTN1	1	raftlin, lipid raft linker 1	I	0	-4.62	2.4	N
DPM1	1	dolichyl-phosphate mannosyltransferase polypeptide 1, catalytic subunit	I	0	-4.58	-1.16	N
BATF	1	basic leucine zipper transcription factor, ATF-like	I	0	-4.54	-0.39	N
HKDC1	1	hexokinase domain containing 1	I	0	-4.54	-0.07	N
FAM73B	1	family with sequence similarity 73, member B	I	0	-4.54	0.05	N
LRCH3	1	leucine-rich repeats and calponin homology (CH) domain containing 3	I	0	-4.54	0.09	N
C11orf49	1	chromosome 11 open reading frame 49	I	0	-4.54	0.18	N
NR2C2AP	1	nuclear receptor 2C2-associated protein	I	0	-4.54	0.37	N
GET4	1	golgi to ER traffic protein 4 homolog (S. cerevisiae)	I	0	-4.54	0.91	N
MEX3A	1	mex-3 homolog A (C. elegans)	I	0	-4.54	3.22	N
TMED3	1	transmembrane emp24 protein transport domain containing 3	I	0	-4.48	0.12	N
IDH3G	1	isocitrate dehydrogenase 3 (NAD+) gamma	I	0	-4.34	0.38	N
RPUSD3	1	RNA pseudouridylate synthase domain containing 3	I	0	-4.34	0.78	N
MPST	1	mercaptopyruvate sulfurtransferase	I	0	-4.18	-0.35	N
FAM108A1	1	family with sequence similarity 108, member A1	I	0	-4.14	-0.43	N
HAUS7	1	HAUS augmin-like complex, subunit 7	I	0	-4.14	-0.31	N
EXOSC4	1	exosome component 4	I	0	-4.14	0.29	N
ZNF672	1	zinc finger protein 672	I	0	-4.14	0.67	N
SGSM2	1	small G protein signaling modulator 2	I	0	-4.14	1.41	N
RPS9	1	ribosomal protein S9	I	0	-4.07	0.98	N
BCAT2	1	branched chain amino-acid transaminase 2, mitochondrial	I	0	-4.03	-1.74	N
LPP-AS2	1	LPP antisense RNA 2 (non-protein coding)	I	0	-4.03	0.66	N
KRI1	1	KRI1 homolog (S. cerevisiae)	I	0	-3.94	1.14	N
PYCR2	1	pyrroline-5-carboxylate reductase family, member 2	I	0	-3.92	0.4	N

ZFP62	1	zinc finger protein 62 homolog (mouse)	I	0	-3.92	0.96	N
VPS26B	1	vacuolar protein sorting 26 homolog B (S. pombe)	I	0	-3.92	1.02	N
CLN6	1	ceroid-lipofuscinosis, neuronal 6, late infantile, variant	I	0	-3.92	2.26	N
LPCAT3	1	lysophosphatidylcholine acyltransferase 3	I	0	-3.89	-1	N
C21orf59	1	chromosome 21 open reading frame 59	I	0	-3.84	-0.31	N
TIMM50	1	translocase of inner mitochondrial membrane 50 homolog (S. cerevisiae)	I	0	-3.84	0.64	N
C1orf106	1	chromosome 1 open reading frame 106	I	0	-3.84	1.5	N
PIPSL	1	PIP5K1A and PSMD4-like, pseudogene	I	0	-3.63	-0.14	N
ACYP2	1	acylphosphatase 2, muscle type	I	0	-3.62	-0.12	N
MIR22HG	1	MIR22 host gene (non-protein coding)	I	0	-3.61	-1.26	N
LZTR1	1	leucine-zipper-like transcription regulator 1	I	0	-3.61	-0.7	N
WBSCR16	1	Williams-Beuren syndrome chromosome region 16	I	0	-3.61	-0.44	N
LOC100188947	1	hypothetical LOC100188947	I	0	-3.61	-0.19	N
VMAC	1	vimentin-type intermediate filament associated coiled-coil protein	I	0	-3.61	0.54	N
GATS	1	GATS, stromal antigen 3 opposite strand	I	0	-3.61	1.65	N
LOC100506207	1	hypothetical LOC100506207	I	0	-3.57	-2.24	N
EPS8L1	1	EPS8-like 1	I	0	-3.57	-0.76	N
COQ4	1	coenzyme Q4 homolog (S. cerevisiae)	I	0	-3.57	-0.46	N
C20orf7	1	chromosome 20 open reading frame 7	I	0	-3.57	-0.33	N
RRS1	1	RRS1 ribosome biogenesis regulator homolog (S. cerevisiae)	I	0	-3.57	0.12	N
SIPA1L3	1	signal-induced proliferation-associated 1 like 3	I	0	-3.57	0.29	N
TRMT1	1	TRM1 tRNA methyltransferase 1 homolog (S. cerevisiae)	I	0	-3.57	1.08	N
FAM131A	1	family with sequence similarity 131, member A	I	0	-3.57	1.15	N
ZNF385D	1	zinc finger protein 385D	I	0	-3.57	1.77	N

NEURL1B	1	neuralized homolog 1B (Drosophila)	I	0	-3.57	4.21	N
LOC100129917	1	hypothetical LOC100129917	I	0	-3.57		N
NIF3L1	1	NIF3 NGG1 interacting factor 3-like 1 (S. pombe)	I	0	-3.55	0.67	N
CNPY3	1	canopy 3 homolog (zebrafish)	I	0	-3.48	0.85	N
AEN	1	apoptosis enhancing nuclease	I	0	-3.43	1.56	N
MAP7D1	1	MAP7 domain containing 1	I	0	-3.41	0.32	N
TBC1D22A	1	TBC1 domain family, member 22A	I	0	-3.36	-0.16	N
MECR	1	mitochondrial trans-2-enoyl-CoA reductase	I	0	-3.31	-0.33	N
PLEKHM1	1	pleckstrin homology domain containing, family M (with RUN domain) member 1	I	0	-3.29	0.77	N
TRIM2	1	tripartite motif containing 2	I	0	-3.26	0.05	N
C12orf76	1	chromosome 12 open reading frame 76	I	0	-3.2	-1.28	N
TCFL5	1	transcription factor-like 5 (basic helix-loop-helix)	I	0	-3.2	-0.84	N
CYB5D1	1	cytochrome b5 domain containing 1	I	0	-3.2	-0.83	N
DNAAF2	1	dynein, axonemal, assembly factor 2	I	0	-3.2	-0.58	N
C19orf66	1	chromosome 19 open reading frame 66	I	0	-3.2	-0.52	N
ZSWIM4	1	zinc finger, SWIM-type containing 4	I	0	-3.2	-0.48	N
WDR4	1	WD repeat domain 4	I	0	-3.2	1.84	N
KRT6C	1	keratin 6C	I	0	-3.2	2.69	N
CNIH	1	cornichon homolog (Drosophila)	I	0	-3.16	-1.15	N
PPIL1	1	peptidylprolyl isomerase (cyclophilin)-like 1	I	0	-3.12	-0.76	N
CLPX	1	ClpX caseinolytic peptidase X homolog (E. coli)	I	0	-3.12	0.28	N
MICAL2	1	microtubule associated monooxygenase, calponin and LIM domain containing 2	I	0	-3.09	-0.57	N
SLC27A5	1	solute carrier family 27 (fatty acid transporter), member 5	I	0	-3.04	-1.11	N
NDUFB10	1	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 10, 22kDa	I	0	-3	0.75	N
NOP14	1	NOP14 nucleolar protein homolog (yeast)	I	0	-2.96	0.15	N

C16orf80	1	chromosome 16 open reading frame 80	I	0	-2.96	0.94	N
SLC25A36	1	solute carrier family 25, member 36	I	0	-2.86	-0.64	N
OAS2	1	2'-5'-oligoadenylate synthetase 2, 69/71kDa	I	0	-2.86	1.53	N
HEBP2	1	heme binding protein 2	I	0	-2.83	-0.07	N
RER1	1	RER1 retention in endoplasmic reticulum 1 homolog (S. cerevisiae)	I	0	-2.81	0.88	N
DDX54	1	DEAD (Asp-Glu-Ala-Asp) box polypeptide 54	I	0	-2.79	0.6	N
UBTD1	1	ubiquitin domain containing 1	I	0	-2.64	-2.45	N
PEX11A	1	peroxisomal biogenesis factor 11 alpha	I	0	-2.64	-1.68	N
USP53	1	ubiquitin specific peptidase 53	I	0	-2.64	-1.57	N
ZNF682	1	zinc finger protein 682	I	0	-2.64	-1.11	N
AVPI1	1	arginine vasopressin-induced 1	I	0	-2.64	-1.02	N
ACOX3	1	acyl-CoA oxidase 3, pristanoyl	I	0	-2.64	-1.02	N
LOC644172	1	mitogen-activated protein kinase 8 interacting protein 1 pseudogene	I	0	-2.64	-0.7	N
CCDC9	1	coiled-coil domain containing 9	I	0	-2.64	-0.7	N
ARSE	1	arylsulfatase E (chondrodysplasia punctata 1)	I	0	-2.64	-0.53	N
RPL39L	1	ribosomal protein L39-like	I	0	-2.64	-0.44	N
OBFC2B	1	oligonucleotide/oligosaccharide-binding fold containing 2B	I	0	-2.64	-0.33	N
ZNF783	1	zinc finger family member 783	I	0	-2.64	-0.18	N
TST	1	thiosulfate sulfurtransferase (rhodanese)	I	0	-2.64	-0.12	N
ANKRD22	1	ankyrin repeat domain 22	I	0	-2.64	-0.12	N
TTLL4	1	tubulin tyrosine ligase-like family, member 4	I	0	-2.64	-0.06	N
COG8	1	component of oligomeric golgi complex 8	I	0	-2.64	-0.04	N
SNAP47	1	synaptosomal-associated protein, 47kDa	I	0	-2.64	-0.01	N
TMEM214	1	transmembrane protein 214	I	0	-2.64	0.04	N
RUFY1	1	RUN and FYVE domain containing 1	I	0	-2.64	0.13	N

GLE1	1	GLE1 RNA export mediator homolog (yeast)	I	0	-2.64	0.22	N
ZNF426	1	zinc finger protein 426	I	0	-2.64	0.28	N
ZNF767	1	zinc finger family member 767	I	0	-2.64	0.29	N
XPOT	1	exportin, tRNA (nuclear export receptor for tRNAs)	I	0	-2.64	0.29	N
FAM216 A	1	family with sequence similarity 216, member A	I	0	-2.64	0.42	N
DEC2	1	2,4-dienoyl CoA reductase 2, peroxisomal	I	0	-2.64	0.57	N
FBXO18	1	F-box protein, helicase, 18	I	0	-2.64	0.65	N
TANC2	1	tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 2	I	0	-2.64	0.69	N
ZNF85	1	zinc finger protein 85	I	0	-2.64	0.84	N
NT5C3L	1	5'-nucleotidase, cytosolic III-like	I	0	-2.64	0.88	N
FAM84A	1	family with sequence similarity 84, member A	I	0	-2.64	0.92	N
TTC8	1	tetratricopeptide repeat domain 8	I	0	-2.64	1.02	N
YRDC	1	yrdC domain containing (E. coli)	I	0	-2.64	1.12	N
CNOT3	1	CCR4-NOT transcription complex, subunit 3	I	0	-2.64	1.36	N
IFI44L	1	interferon-induced protein 44-like	I	0	-2.64	1.91	N
DDX11	1	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 11	I	0	-2.64	2.14	N
MLEC	1	malectin	I	0	-2.48	0.06	N
LOC493754	1	RAB guanine nucleotide exchange factor (GEF) 1 pseudogene	I	0	-2.47	0.81	N
LACTB2	1	lactamase, beta 2	I	0	-2.45	-0.83	N
TRIM11	1	tripartite motif containing 11	I	0	-2.4	-0.12	N
NCS1	1	neuronal calcium sensor 1	I	0	-2.38	-0.47	N
C6orf132	1	chromosome 6 open reading frame 132	I	0	-2.33	-1.28	N
RSAD2	1	radical S-adenosyl methionine domain containing 2	I	0	-2.33	-0.7	N
FAM213 B	1	family with sequence similarity 213, member B	I	0	-2.33	0.06	N
RIC8B	1	resistance to inhibitors of cholinesterase 8 homolog B (C. elegans)	I	0	-2.33	0.37	N

FAM219 A	1	family with sequence similarity 219, member A	I	0	-2.33	0.84	N
EIF2B4	1	eukaryotic translation initiation factor 2B, subunit 4 delta, 67kDa	I	0	-2.3	-0.1	N
FAM98A	1	family with sequence similarity 98, member A	I	0	-2.27	0.29	N
TMEM206	1	transmembrane protein 206	I	0	-2.24	-0.19	N
ZNF667	1	zinc finger protein 667	I	0	-2.24	0.29	N
TPT1-AS1	1	TPT1 antisense RNA 1	I	0	-2.24	1.2	N
HDGFRP2	1	hepatoma-derived growth factor-related protein 2	I	0	-2.24	2.01	N
MYO19	1	myosin XIX	I	0	-2.23	1.33	N
LOC440354	1	PI-3-kinase-related kinase SMG-1 pseudogene	I	0	-2.19	-0.82	N
SPRYD3	1	SPRY domain containing 3	I	0	-2.19	0.06	N
ZNHIT1	1	zinc finger, HIT-type containing 1	I	0	-2.16	0.2	N
REPIN1	1	replication initiator 1	I	0	-2.16	0.85	N
ACADSB	1	acyl-CoA dehydrogenase, short/branched chain	I	0	-2.15	-1.27	N
MFF	1	mitochondrial fission factor	I	0	-2.13	0.1	N
MRPS7	1	mitochondrial ribosomal protein S7	I	0	-2.09	-0.31	N
ALDH8A1	1	aldehyde dehydrogenase 8 family, member A1	I	0	-2.08	-1.69	N
HSBP1L1	1	heat shock factor binding protein 1-like 1	I	0	-2.08	-0.94	N
NDUFS6	1	NADH dehydrogenase (ubiquinone) Fe-S protein 6, 13kDa (NADH-coenzyme Q reductase)	I	0	-2.08	-0.55	N
SLC25A29	1	solute carrier family 25, member 29	I	0	-2.08	1.19	N
ATAT1	1	alpha tubulin acetyltransferase 1	I	0	-2.08	2.3	N
LOC728190	1	hypothetical LOC728190	I	0	-2.07	-0.52	N
DCAF8	1	DDB1 and CUL4 associated factor 8	I	0	-2.07	-0.12	N
DRG2	1	developmentally regulated GTP binding protein 2	I	0	-2.07	0.58	N
MRPL43	1	mitochondrial ribosomal protein L43	I	0	-2.06	-0.16	N

COMMD4	1	COMM domain containing 4	I	0	-2.06	0.33	N
PSMD8	1	proteasome (prosome, macropain) 26S subunit, non-ATPase, 8	I	0	-2.06	0.82	N
COX4NB	1	COX4 neighbor	I	0	-2.06	0.86	N
NOL6	1	nucleolar protein family 6 (RNA-associated)	I	0	-1.97	-0.54	N
LOC202781	1	hypothetical LOC202781	I	0	-1.92	-1.68	N
CHCHD5	1	coiled-coil-helix-coiled-coil-helix domain containing 5	I	0	-1.92	-0.52	N
ETHE1	1	ethylmalonic encephalopathy 1	I	0	-1.92	0.52	N
DBNDD1	1	dysbindin (dystrobrevin binding protein 1) domain containing 1	I	0	-1.92	0.78	N
TOMM40L	1	translocase of outer mitochondrial membrane 40 homolog (yeast)-like	I	0	-1.87	0.07	N
GPKOW	1	G patch domain and KOW motifs	I	0	-1.87	0.25	N
SLC25A12	1	solute carrier family 25 (mitochondrial carrier, Aralar), member 12	I	0	-1.81	0.06	N
METTL17	1	methyltransferase like 17	I	0	-1.8	0.47	N
ELP4	1	elongation protein 4 homolog (<i>S. cerevisiae</i>)	I	0	-1.78	-0.55	N
SPOPL	1	speckle-type POZ protein-like	I	0	-1.78	0	N
C17orf81	1	chromosome 17 open reading frame 81	I	0	-1.78	0.29	N
FLAD1	1	FAD1 flavin adenine dinucleotide synthetase homolog (<i>S. cerevisiae</i>)	I	0	-1.74	0.64	N
MIR614	1	microRNA 614	I	0	-1.71	-2.2	N
TTC22	1	tetratricopeptide repeat domain 22	I	0	-1.71	-0.92	N
MDM1	1	Mdm1 nuclear protein homolog (mouse)	I	0	-1.71	-0.48	N
ZNF514	1	zinc finger protein 514	I	0	-1.71	-0.29	N
BDH1	1	3-hydroxybutyrate dehydrogenase, type 1	I	0	-1.71	-0.22	N
SLC2A4RG	1	SLC2A4 regulator	I	0	-1.71	-0.16	N
PCP4L1	1	Purkinje cell protein 4 like 1	I	0	-1.71	0.02	N
AHSA2	1	AHA1, activator of heat shock 90kDa protein ATPase homolog 2 (yeast)	I	0	-1.71	0.18	N

ABCF3	1	ATP-binding cassette, sub-family F (GCN20), member 3	I	0	-1.71	0.63	N
C4orf33	1	chromosome 4 open reading frame 33	I	0	-1.71	1.2	N
CRAMP1	1	Crm, cramped-like (Drosophila)	I	0	-1.71	1.46	N
L							
C9orf89	1	chromosome 9 open reading frame 89	I	0	-1.71	1.91	N
SUPV3L1	1	suppressor of var1, 3-like 1 (S. cerevisiae)	I	0	-1.68	-0.52	N
CLSTN3	1	calsyntenin 3	I	0	-1.68	-0.42	N
PANK4	1	pantothenate kinase 4	I	0	-1.68	-0.12	N
UHRF1BP1	1	UHRF1 binding protein 1-like	I	0	-1.68	-0.06	N
1L							
ZFAND3	1	zinc finger, AN1-type domain 3	I	0	-1.68	0.24	N
C19orf43	1	chromosome 19 open reading frame 43	I	0	-1.68	0.36	N
KLHDC4	1	kelch domain containing 4	I	0	-1.68	0.61	N
INTS9	1	integrator complex subunit 9	I	0	-1.68	0.81	N
SRBD1	1	S1 RNA binding domain 1	I	0	-1.68	2.14	N
RPAP2	1	RNA polymerase II associated protein 2	I	0	-1.66	-0.04	N
DYRK4	1	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 4	I	0	-1.66	0.19	N
PHF5A	1	PHD finger protein 5A	I	0	-1.66	0.61	N
ANKIB1	1	ankyrin repeat and IBR domain containing 1	I	0	-1.65	-0.45	N
SLC50A1	1	solute carrier family 50 (sugar transporter), member 1	I	0	-1.65	-0.38	N
COQ9	1	coenzyme Q9 homolog (S. cerevisiae)	I	0	-1.65	0.01	N
AP1S3	1	adaptor-related protein complex 1, sigma 3 subunit	I	0	-1.6	-0.7	N
SLC35B1	1	solute carrier family 35, member B1	I	0	-1.59	0	N
MRPS31	1	mitochondrial ribosomal protein S31	I	0	-1.55	-0.38	N
SF3B5	1	splicing factor 3b, subunit 5, 10kDa	I	0	-1.52	0.01	N
ARF5	1	ADP-ribosylation factor 5	I	0	-1.51	0.53	N
METTL13	1	methyltransferase like 13	I	0	-1.5	0.97	N
FAM214A	1	family with sequence similarity 214, member A	I	0	-1.49	-1.88	N
SAMD5	1	sterile alpha motif domain containing 5	I	0	-1.49	-1.7	N

R3HDM1	1	R3H domain containing 1	I	0	-1.48	-0.41	N
PSME4	1	proteasome (prosome, macropain) activator subunit 4	I	0	-1.48	0.65	N
DCTN3	1	dynactin 3 (p22)	I	0	-1.48	1.28	N
DDX27	1	DEAD (Asp-Glu-Ala-Asp) box polypeptide 27	I	0	-1.48	1.56	N
DDX39A	1	DEAD (Asp-Glu-Ala-Asp) box polypeptide 39A	I	0	-1.47	1.21	N
ZNF394	1	zinc finger protein 394	I	0	-1.46	-0.17	N
PHKG2	1	phosphorylase kinase, gamma 2 (testis)	I	0	-1.44	-0.57	N
C2orf29	1	chromosome 2 open reading frame 29	I	0	-1.44	0.29	N
TRNP1	1	TMF1-regulated nuclear protein 1	I	0	-1.44	0.4	N
BCS1L	1	BCS1-like (<i>S. cerevisiae</i>)	I	0	-1.44	0.55	N
ATP5SL	1	ATP5S-like	I	0	-1.43	-0.97	N
LARP1B	1	La ribonucleoprotein domain family, member 1B	I	0	-1.4	-1.06	N
SCAMP3	1	secretory carrier membrane protein 3	I	0	-1.4	-0.47	N
DNASE2	1	deoxyribonuclease II, lysosomal	I	0	-1.39	-0.8	N
C3orf75	1	chromosome 3 open reading frame 75	I	0	-1.39	-0.22	N
CIRH1A	1	cirrhosis, autosomal recessive 1A (cirhin)	I	0	-1.39	-0.04	N
IWS1	1	IWS1 homolog (<i>S. cerevisiae</i>)	I	0	-1.37	0.11	N
C18orf21	1	chromosome 18 open reading frame 21	I	0	-1.36	-1.02	N
CMPK2	1	cytidine monophosphate (UMP-CMP) kinase 2, mitochondrial	I	0	-1.36	-0.3	N
NCDN	1	neurochondrin	I	0	-1.36	0.21	N
LOC644554	1	hypothetical LOC644554	I	0	-1.36	0.26	N
MANEA	1	mannosidase, endo-alpha	I	0	-1.36	0.27	N
MCCC2	1	methylcrotonoyl-CoA carboxylase 2 (beta)	I	0	-1.34	-0.29	N
TMEM11	1	transmembrane protein 11	I	0	-1.34	-0.1	N
TECR	1	trans-2,3-enoyl-CoA reductase	I	0	-1.34	-0.07	N
EIF2AK1	1	eukaryotic translation initiation factor 2-alpha kinase 1	I	0	-1.34	0.88	N
CPNE5	1	copine V	I	0	-1.34	1.94	N
CCDC14	1	coiled-coil domain containing 14	I	0	-1.33	1.23	N

SPTSSA	1	serine palmitoyltransferase, small subunit A	I	0	-1.32	0.59	N
NMD3	1	NMD3 homolog (S. cerevisiae)	I	0	-1.31	-1.57	N
LOC646214	1	p21 protein (Cdc42/Rac)-activated kinase 2 pseudogene	I	0	-1.29	-0.07	N
PANK2	1	pantothenate kinase 2	I	0	-1.28	0.84	N
ARL4C	1	ADP-ribosylation factor-like 4C	I	0	-1.27	0.42	N
CDKN2AI	1	CDKN2A interacting protein N-terminal like	I	0	-1.25	1.48	N
PNL							
TSHZ3	1	teashirt zinc finger homeobox 3	I	0	-1.25	1.65	N
MRPS25	1	mitochondrial ribosomal protein S25	I	0	-1.21	0.11	N
DYNC2LI1	1	dynein, cytoplasmic 2, light intermediate chain 1	I	0	-1.17	-0.57	N
PLEKHA5	1	pleckstrin homology domain containing, family A member 5	I	0	-1.16	-0.87	N
HLA-F-AS1	1	HLA-F antisense RNA 1 (non-protein coding)	I	0	-1.15	-2.92	N
ZNF385B	1	zinc finger protein 385B	I	0	-1.15	-2.38	N
COG7	1	component of oligomeric golgi complex 7	I	0	-1.15	-1.02	N
CEP76	1	centrosomal protein 76kDa	I	0	-1.15	-0.44	N
RAB12	1	RAB12, member RAS oncogene family	I	0	-1.15	-0.13	N
BREA2	1	breast cancer estrogen-induced apoptosis 2	I	0	-1.15	0.02	N
INTS4	1	integrator complex subunit 4	I	0	-1.15	0.29	N
MEX3C	1	mex-3 homolog C (C. elegans)	I	0	-1.15	0.34	N
ZNF496	1	zinc finger protein 496	I	0	-1.15	1.51	N
FTH1P3	1	ferritin, heavy polypeptide 1 pseudogene 3	I	0	-1.15	4.25	N
ALG3	1	asparagine-linked glycosylation 3, alpha-1,3-mannosyltransferase homolog (S. cerevisiae)	I	0	-1.1	-0.62	N
MRPL46	1	mitochondrial ribosomal protein L46	I	0	-1.1	0.29	N
USP36	1	ubiquitin specific peptidase 36	I	0	-1.1	1.02	N
TBC1D25	1	TBC1 domain family, member 25	I	0	-1.1	1.02	N
STRBP	1	spermatid perinuclear RNA binding protein	I	0	-1.09	-0.51	N

CDRT4	1	CMT1A duplicated region transcript 4	I	0	-1.09	0.42	N
MRPL52	1	mitochondrial ribosomal protein L52	I	0	-1.09	1.22	N
ASCC2	1	activating signal cointegrator 1 complex subunit 2	I	0	-1.09	1.25	N
ELMO2	1	engulfment and cell motility 2	I	0	-1.08	0.99	N
KIF3C	1	kinesin family member 3C	I	0	-1.08	1.76	N
ZNF483	1	zinc finger protein 483	I	0	-1.02	-0.7	N
AP1G2	1	adaptor-related protein complex 1, gamma 2 subunit	I	0	-1	0.54	N
MRPS23	1	mitochondrial ribosomal protein S23	I	0	-0.99	-0.26	N
MRPS35	1	mitochondrial ribosomal protein S35	I	0	-0.98	-0.38	N
SEC13	1	SEC13 homolog (S. cerevisiae)	I	0	-0.95	0.29	N
ZCCHC3	1	zinc finger, CCHC domain containing 3	I	0	-0.94	0.22	N
KIAA0090	1	KIAA0090	I	0	-0.91	0.15	N
C22orf25	1	chromosome 22 open reading frame 25	I	0	-0.9	0.83	N
ZNF74	1	zinc finger protein 74	I	0	-0.88	0.81	N
LARP4	1	La ribonucleoprotein domain family, member 4	I	0	-0.87	-1.39	N
ODF2	1	outer dense fiber of sperm tails 2	I	0	-0.86	-0.84	N
C17orf75	1	chromosome 17 open reading frame 75	I	0	-0.85	-0.75	N
SUPT5H	1	suppressor of Ty 5 homolog (S. cerevisiae)	I	0	-0.8	0.77	N
MTRNR2L2	1	MT-RNR2-like 2	I	0	-0.79	-1.81	N
ZNF451	1	zinc finger protein 451	I	0	-0.74	-0.49	N
TSPYL4	1	TSPY-like 4	I	0	-0.74	-0.26	N
GOLGA1	1	golgin A1	I	0	-0.74	-0.24	N
OLFM1	1	olfactomedin 1	I	0	-0.74	0.29	N
LOC400456	1	hypothetical LOC400456	I	0	-0.74	0.29	N
SNHG9	1	small nucleolar RNA host gene 9 (non-protein coding)	I	0	-0.69	-0.42	N
POLR2F	1	polymerase (RNA) II (DNA directed) polypeptide F	I	0	-0.69	0.73	N
DHX16	1	DEAH (Asp-Glu-Ala-His) box polypeptide 16	I	0	-0.68	-0.03	N

ABHD11	1	abhydrolase domain containing 11	I	0	-0.68	0.79	N
IFT46	1	intraflagellar transport 46 homolog (Chlamydomonas)	I	0	-0.67	-1.41	N
CCNJ	1	cyclin J	I	0	-0.67	-0.25	N
NAGK	1	N-acetylglucosamine kinase	I	0	-0.67	0.33	N
HDHD1	1	haloacid dehalogenase-like hydrolase domain containing 1	I	0	-0.66	-0.8	N
TRIM16L	1	tripartite motif containing 16-like	I	0	-0.66	0.02	N
MED18	1	mediator complex subunit 18	I	0	-0.66	0.87	N
MED13L	1	mediator complex subunit 13-like	I	0	-0.62	0.26	N
ANAPC13	1	anaphase promoting complex subunit 13	I	0	-0.6	-0.54	N
AASDHP PT	1	aminoadipate-semialdehyde dehydrogenase- phosphopantetheinyl transferase	I	0	-0.6	-0.17	N
C3orf19	1	chromosome 3 open reading frame 19	I	0	-0.6	1.33	N
C16orf72	1	chromosome 16 open reading frame 72	I	0	-0.59	-0.06	N
KIAA031 9L	1	KIAA0319-like	I	0	-0.58	0.3	N
FUBP3	1	far upstream element (FUSE) binding protein 3	I	0	-0.58	1.73	N
MBIP	1	MAP3K12 binding inhibitory protein 1	I	0	-0.56	-1.44	N
OSBPL10	1	oxysterol binding protein-like 10	I	0	-0.56	0.8	N
RUNDC1	1	RUN domain containing 1	I	0	-0.55	0.55	N
SLC25A2 3	1	solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 23	I	0	-0.52	-0.28	N
PLEK2	1	pleckstrin 2	I	0	-0.52	-0.25	N
SNAPC5	1	small nuclear RNA activating complex, polypeptide 5, 19kDa	I	0	-0.52	0.49	N
ENTPD4	1	ectonucleoside triphosphate diphosphohydrolase 4	I	0	-0.51	0.99	N
FTSJ1	1	FtsJ methyltransferase domain containing 1	I	0	-0.5	-1.37	N
FCF1	1	FCF1 small subunit (SSU) processome component homolog (S. cerevisiae)	I	0	-0.46	-1.54	N
AP3M2	1	adaptor-related protein complex 3, mu 2 subunit	I	0	-0.46	-0.7	N
ZNF770	1	zinc finger protein 770	I	0	-0.46	-0.26	N
SNHG5	1	small nucleolar RNA host gene 5 (non-protein coding)	I	0	-0.46	0.23	N

C12orf47	1	chromosome 12 open reading frame 47	I	0	-0.46	0.76	N
NHP2L1	1	NHP2 non-histone chromosome protein 2-like 1 (<i>S. cerevisiae</i>)	I	0	-0.44	0.26	N
NFXL1	1	nuclear transcription factor, X-box binding-like 1	I	0	-0.44	0.85	N
ZNF567	1	zinc finger protein 567	I	0	-0.43	-1.64	N
GOLGA8IP	1	golgin A8 family, member I, pseudogene	I	0	-0.43	-0.96	N
TRIM68	1	tripartite motif containing 68	I	0	-0.43	-0.92	N
PACRGL	1	PARK2 co-regulated-like	I	0	-0.43	-0.87	N
MOGS	1	mannosyl-oligosaccharide glucosidase	I	0	-0.43	-0.45	N
C1orf74	1	chromosome 1 open reading frame 74	I	0	-0.43	-0.44	N
IFI44	1	interferon-induced protein 44	I	0	-0.43	-0.26	N
TBCK	1	TBC1 domain containing kinase	I	0	-0.43	-0.03	N
TMED9	1	transmembrane emp24 protein transport domain containing 9	I	0	-0.43	0.16	N
C1orf216	1	chromosome 1 open reading frame 216	I	0	-0.43	0.29	N
STAM	1	signal transducing adaptor molecule (SH3 domain and ITAM motif) 1	I	0	-0.42	-0.58	N
ZNF317	1	zinc finger protein 317	I	0	-0.42	0.94	N
TTC35	1	tetratricopeptide repeat domain 35	I	0	-0.41	-0.38	N
DTWD1	1	DTW domain containing 1	I	0	-0.37	-1.58	N
ERICH1	1	glutamate-rich 1	I	0	-0.37	0.48	N
CHORDC1	1	cysteine and histidine-rich domain (CHORD) containing 1	I	0	-0.35	-0.38	N
SNRPF	1	small nuclear ribonucleoprotein polypeptide F	I	0	-0.35	0.73	N
YME1L1	1	YME1-like 1 (<i>S. cerevisiae</i>)	I	0	-0.33	-1.23	N
C18orf32	1	chromosome 18 open reading frame 32	I	0	-0.33	-0.55	N
ZBTB11	1	zinc finger and BTB domain containing 11	I	0	-0.26	-1.28	N
DYM	1	dymeclin	I	0	-0.24	-0.18	N
FN3KRP	1	fructosamine 3 kinase related protein	I	0	-0.24	-0.12	N
EIF6	1	eukaryotic translation initiation factor 6	I	0	-0.24	-0.01	N
UBE2Q1	1	ubiquitin-conjugating enzyme E2Q family member 1	I	0	-0.23	-0.04	N

PRRC1	1	proline-rich coiled-coil 1	I	0	-0.23	0.15	N
TWISTNB	1	TWIST neighbor	I	0	-0.21	0.18	N
NPHP1	1	nephronophthisis 1 (juvenile)	I	0	-0.18	0.29	N
RASSF9	1	Ras association (RalGDS/AF-6) domain family (N-terminal) member 9	I	0	-0.17	-6.06	N
C2orf43	1	chromosome 2 open reading frame 43	I	0	-0.17	-2.06	N
GAS2L3	1	growth arrest-specific 2 like 3	I	0	-0.17	-1.98	N
ZNF761	1	zinc finger protein 761	I	0	-0.17	-1.35	N
PSMG3	1	proteasome (prosome, macropain) assembly chaperone 3	I	0	-0.17	-1.25	N
FAM124A	1	family with sequence similarity 124A	I	0	-0.17	-0.32	N
LOC100506930	1	hypothetical LOC100506930	I	0	-0.17	0.12	N
SCAMP5	1	secretory carrier membrane protein 5	I	0	-0.17	0.48	N
LOC84856	1	hypothetical LOC84856	I	0	-0.11	-1.81	N
RSAD1	1	radical S-adenosyl methionine domain containing 1	I	0	-0.11	0.93	N
NDUFAB1	1	NADH dehydrogenase (ubiquinone) 1, alpha/beta subcomplex, 1, 8kDa	I	0	-0.1	0.45	N
NDUFA7	1	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 7, 14.5kDa	I	0	-0.09	1.6	N
SNRPB2	1	small nuclear ribonucleoprotein polypeptide B	I	0	-0.05	-0.23	N
MTRF1L	1	mitochondrial translational release factor 1-like	I	0	-0.03	0.33	N
ZDHHC16	1	zinc finger, DHHC-type containing 16	I	0	-0.02	-0.15	N
TPRG1L	1	tumor protein p63 regulated 1-like	I	0	-0.01	-0.07	N
ZNF232	1	zinc finger protein 232	I	0	0	-1.47	N
GAL3ST4	1	galactose-3-O-sulfotransferase 4	I	0	0	-0.87	N
C11orf46	1	chromosome 11 open reading frame 46	I	0	0	0.96	N
GTF3C2	1	general transcription factor IIIC, polypeptide 2, beta 110kDa	I	0	0.03	0.95	N
FUNDC2	1	FUN14 domain containing 2	I	0	0.04	-0.02	N

C19orf54	1	chromosome 19 open reading frame 54	I	0	0.05	-1.02	N
GUSBP1	1	glucuronidase, beta pseudogene 1	I	0	0.05	-0.78	N
UBE2O	1	ubiquitin-conjugating enzyme E2O	I	0	0.05	0.29	N
PPIH	1	peptidylprolyl isomerase H (cyclophilin H)	I	0	0.05	2.82	N
SCFD2	1	sec1 family domain containing 2	I	0	0.06	0.23	N
LRRC48	1	leucine rich repeat containing 48	I	0	0.08	-0.87	N
RBM28	1	RNA binding motif protein 28	I	0	0.08	0.28	N
SPCS1	1	signal peptidase complex subunit 1 homolog (<i>S. cerevisiae</i>)	I	0	0.12	-0.21	N
FCHO2	1	FCH domain only 2	I	0	0.13	-0.51	N
FAM114 A2	1	family with sequence similarity 114, member A2	I	0	0.13	-0.01	N
PGM2L1	1	phosphoglucomutase 2-like 1	I	0	0.15	0.14	N
MRPS10	1	mitochondrial ribosomal protein S10	I	0	0.18	-0.64	N
HAUS5	1	HAUS augmin-like complex, subunit 5	I	0	0.18	1.02	N
ZNF597	1	zinc finger protein 597	I	0	0.21	-1.26	N
C5orf22	1	chromosome 5 open reading frame 22	I	0	0.21	0.1	N
LOC100506686	1	hypothetical LOC100506686	I	0	0.24	-0.7	N
DSTNP2	1	destrin (actin depolymerizing factor) pseudogene 2	I	0	0.24	-0.7	N
LOC100505761	1	hypothetical LOC100505761	I	0	0.24	-0.36	N
TBC1D13	1	TBC1 domain family, member 13	I	0	0.24	-0.35	N
HOMER3	1	homer homolog 3 (<i>Drosophila</i>)	I	0	0.24	0.15	N
ZNHIT3	1	zinc finger, HIT-type containing 3	I	0	0.26	0.16	N
RPE	1	ribulose-5-phosphate-3-epimerase	I	0	0.28	-0.55	N
KIAA1586	1	KIAA1586	I	0	0.3	-0.39	N
GRAMD1 C	1	GRAM domain containing 1C	I	0	0.3	-0.38	N
TRMT112	1	tRNA methyltransferase 11-2 homolog (<i>S. cerevisiae</i>)	I	0	0.3	0.46	N

OTUD3	1	OTU domain containing 3	I	0	0.32	0	N
SPATS2	1	spermatogenesis associated, serine-rich 2	I	0	0.34	0.09	N
QRICH1	1	glutamine-rich 1	I	0	0.37	-0.26	N
CYB5B	1	cytochrome b5 type B (outer mitochondrial membrane)	I	0	0.38	-0.34	N
LOC147804	1	tropomyosin 3 pseudogene	I	0	0.38	-0.03	N
SGK494	1	uncharacterized serine/threonine-protein kinase Sgk494	I	0	0.39	-0.58	N
KIAA0907	1	KIAA0907	I	0	0.39	0.88	N
MUTED	1	muted homolog (mouse)	I	0	0.39	3.34	N
LOC401320	1	hypothetical LOC401320	I	0	0.41	-0.92	N
PEX26	1	peroxisomal biogenesis factor 26	I	0	0.41	-0.33	N
C19orf40	1	chromosome 19 open reading frame 40	I	0	0.41	-0.23	N
TBC1D12	1	TBC1 domain family, member 12	I	0	0.41	-0.18	N
POLR3C	1	polymerase (RNA) III (DNA directed) polypeptide C (62kD)	I	0	0.41	0.01	N
TIMM9	1	translocase of inner mitochondrial membrane 9 homolog (yeast)	I	0	0.41	0.41	N
MTERFD2	1	MTERF domain containing 2	I	0	0.41	1.03	N
CERK	1	ceramide kinase	I	0	0.42	0.03	N
SH3YL1	1	SH3 domain containing, Ysc84-like 1 (<i>S. cerevisiae</i>)	I	0	0.47	-0.94	N
ARPP19	1	cAMP-regulated phosphoprotein, 19kDa	I	0	0.48	-0.87	N
ATG3	1	ATG3 autophagy related 3 homolog (<i>S. cerevisiae</i>)	I	0	0.48	0.19	N
FAM136A	1	family with sequence similarity 136, member A	I	0	0.5	0.77	N
C1orf86	1	chromosome 1 open reading frame 86	I	0	0.5	1.16	N
DNAJC14	1	DnaJ (Hsp40) homolog, subfamily C, member 14	I	0	0.54	-0.29	N
RPLP0P2	1	ribosomal protein, large, P0 pseudogene 2	I	0	0.54	0.74	N
ATP5S	1	ATP synthase, H ⁺ transporting, mitochondrial Fo complex, subunit s (factor B)	I	0	0.54	1.12	N

NDUFS5	1	NADH dehydrogenase (ubiquinone) Fe-S protein 5, 15kDa (NADH-coenzyme Q reductase)	I	0	0.55	1.24	N
MNF1	1	mitochondrial nucleoid factor 1	I	0	0.55	1.28	N
RPL27	1	ribosomal protein L27	I	0	0.56	0.5	N
SIX4	1	SIX homeobox 4	I	0	0.57	-0.7	N
PPP1R3B	1	protein phosphatase 1, regulatory (inhibitor) subunit 3B	I	0	0.57	-0.38	N
KBTBD12	1	kelch repeat and BTB (POZ) domain containing 12	I	0	0.59	0	N
DHDDS	1	dehydrodolichyl diphosphate synthase	I	0	0.62	0.53	N
KIAA0947	1	KIAA0947	I	0	0.65	-0.62	N
7							
SESTD1	1	SEC14 and spectrin domains 1	I	0	0.69	-0.7	N
ICK	1	intestinal cell (MAK-like) kinase	I	0	0.69	-0.09	N
MPI	1	mannose phosphate isomerase	I	0	0.69	0.91	N
LOC93622	1	hypothetical LOC93622	I	0	0.69	1.09	N
2							
WBP4	1	WW domain binding protein 4 (formin binding protein 21)	I	0	0.71	-1.4	N
EXOSC1	1	exosome component 1	I	0	0.72	-0.34	N
PLEKHG7	1	pleckstrin homology domain containing, family G (with RhoGef domain) member 7	I	0	0.82	-5.66	N
SULT1B1	1	sulfotransferase family, cytosolic, 1B, member 1	I	0	0.82	-5.09	N
RPL13P5	1	ribosomal protein L13 pseudogene 5	I	0	0.82	-4.16	N
PPT2-EGFL8	1	PPT2-EGFL8 readthrough	I	0	0.82	-4.16	N
NCCRP1	1	non-specific cytotoxic cell receptor protein 1 homolog (zebrafish)	I	0	0.82	-3.17	N
SFTA1P	1	surfactant associated 1, pseudogene	I	0	0.82	-2.09	N
HOXD9	1	homeobox D9	I	0	0.82	-1.63	N
LOC284276	1	hypothetical LOC284276	I	0	0.82	-1.26	N
76							
C17orf97	1	chromosome 17 open reading frame 97	I	0	0.82	-1.16	N
PPP1R21	1	protein phosphatase 1, regulatory subunit 21	I	0	0.82	-0.7	N

LETM2	1	leucine zipper-EF-hand containing transmembrane protein 2	I	0	0.82	-0.7	N
CARD14	1	caspase recruitment domain family, member 14	I	0	0.82	-0.7	N
IQCA1	1	IQ motif containing with AAA domain 1	I	0	0.82	-0.6	N
IRX3	1	iroquois homeobox 3	I	0	0.82	-0.46	N
FLJ13197	1	hypothetical FLJ13197	I	0	0.82	-0.39	N
HSD17B14	1	hydroxysteroid (17-beta) dehydrogenase 14	I	0	0.82	-0.01	N
SNX30	1	sorting nexin family member 30	I	0	0.82	0.03	N
WDSUB1	1	WD repeat, sterile alpha motif and U-box domain containing 1	I	0	0.82	0.08	N
HOTAIRM1	1	HOXA transcript antisense RNA, myeloid-specific 1 (non-protein coding)	I	0	0.82	0.29	N
LOC100506305	1	hypothetical LOC100506305	I	0	0.82	0.4	N
RHPN1	1	rhophilin, Rho GTPase binding protein 1	I	0	0.82	0.48	N
PRICKLE3	1	prickle homolog 3 (Drosophila)	I	0	0.82	0.58	N
ZSCAN30	1	zinc finger and SCAN domain containing 30	I	0	0.82	0.86	N
C9orf16	1	chromosome 9 open reading frame 16	I	0	0.82	1.15	N
TRIM15	1	tripartite motif containing 15	I	0	0.82	1.38	N
LOC727849	1	golgin A2 pseudogene	I	0	0.82	1.41	N
LOC100506462	1	hypothetical LOC100506462	I	0	0.82	1.51	N
ADAT3	1	adenosine deaminase, tRNA-specific 3	I	0	0.82	1.59	N
ZNF211	1	zinc finger protein 211	I	0	0.82	1.77	N
ProSAPiP1	1	ProSAPiP1 protein	I	0	0.82	1.84	N
LOC100132356	1	hypothetical LOC100132356	I	0	0.82	1.99	N
SNORA31	1	small nucleolar RNA, H/ACA box 31	I	0	0.82	3.69	N
SNORD4	1	small nucleolar RNA, C/D box 47	I	0	0.82		N

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SNORA4	1	small nucleolar RNA, H/ACA box 4	I	0	0.82	N
RPL23P8	1	ribosomal protein L23 pseudogene 8	I	0	0.82	N
MIR4517	1	microRNA 4517	I	0	0.82	N
OBFC2A	1	oligonucleotide/oligosaccharide-binding fold containing 2A	I	0	0.84	-1.4 N
MRPL18	1	mitochondrial ribosomal protein L18	I	0	0.86	0.63 N
KATNAL1	1	katanin p60 subunit A-like 1	I	0	0.88	-0.26 N
DHX8	1	DEAH (Asp-Glu-Ala-His) box polypeptide 8	I	0	0.88	0.55 N
C22orf13	1	chromosome 22 open reading frame 13	I	0	0.9	0.74 N
CEP63	1	centrosomal protein 63kDa	I	0	0.93	-0.7 N
ACOT13	1	acyl-CoA thioesterase 13	I	0	0.94	-0.31 N
C3orf26	1	chromosome 3 open reading frame 26	I	0	0.94	-0.25 N
ARL1	1	ADP-ribosylation factor-like 1	I	0	0.94	-0.04 N
SS18L2	1	synovial sarcoma translocation gene on chromosome 18-like 2	I	0	0.94	2.01 N
MORN4	1	MORN repeat containing 4	I	0	1.04	-0.2 N
COG1	1	component of oligomeric golgi complex 1	I	0	1.04	-0.14 N
ARL3	1	ADP-ribosylation factor-like 3	I	0	1.04	0.29 N
C17orf69	1	chromosome 17 open reading frame 69	I	0	1.04	1.28 N
ATP6V1H	1	ATPase, H ⁺ transporting, lysosomal 50/57kDa, V1 subunit H	I	0	1.05	0.07 N
ALG1	1	asparagine-linked glycosylation 1, beta-1,4-mannosyltransferase homolog (<i>S. cerevisiae</i>)	I	0	1.09	-0.44 N
LOC100499177	1	hypothetical LOC100499177	I	0	1.09	-0.32 N
UGGT1	1	UDP-glucose glycoprotein glucosyltransferase 1	I	0	1.12	-0.21 N
C12orf45	1	chromosome 12 open reading frame 45	I	0	1.14	0.73 N
ARHGAP11A	1	Rho GTPase activating protein 11A	I	0	1.15	0.85 N
PSMB6	1	proteasome (prosome, macropain) subunit, beta type, 6	I	0	1.16	0.55 N
IPO9	1	importin 9	I	0	1.22	0.11 N
ADAT2	1	adenosine deaminase, tRNA-specific 2	I	0	1.25	1.29 N

WDR830 S	1	WD repeat domain 83 opposite strand	I	0	1.35	0.2	N
ELP2	1	elongation protein 2 homolog (<i>S. cerevisiae</i>)	I	0	1.38	-0.38	N
GEMIN6	1	gem (nuclear organelle) associated protein 6	I	0	1.4	-2.09	N
B3GNT7	1	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 7	I	0	1.4	-0.03	N
LOC100289019	1	hypothetical LOC100289019	I	0	1.4	0.12	N
MAK16	1	MAK16 homolog (<i>S. cerevisiae</i>)	I	0	1.42	-0.36	N
NDUFA2	1	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 2, 8kDa	I	0	1.46	-0.43	N
C11orf67	1	chromosome 11 open reading frame 67	I	0	1.46	0.45	N
URGCP-MRPS24	1	URGCP-MRPS24 readthrough	I	0	1.46	1.44	N
CNKSR3	1	CNKSR family member 3	I	0	1.48	-1.02	N
HMG3	1	high mobility group nucleosomal binding domain 3	I	0	1.53	0.03	N
C19orf53	1	chromosome 19 open reading frame 53	I	0	1.53	0.75	N
MAP3K13	1	mitogen-activated protein kinase kinase kinase 13	I	0	1.54	-0.38	N
ZC2HC1A	1	zinc finger, C2HC-type containing 1A	I	0	1.55	-0.16	N
WSB2	1	WD repeat and SOCS box containing 2	I	0	1.59	0.25	N
ARSJ	1	arylsulfatase family, member J	I	0	1.62	-1.98	N
ZNF626	1	zinc finger protein 626	I	0	1.62	0.87	N
FAM117 B	1	family with sequence similarity 117, member B	I	0	1.65	-0.5	N
GATAD1	1	GATA zinc finger domain containing 1	I	0	1.67	0.08	N
MCMBP	1	minichromosome maintenance complex binding protein	I	0	1.68	0.2	N
CCDC53	1	coiled-coil domain containing 53	I	0	1.68	0.98	N
MED7	1	mediator complex subunit 7	I	0	1.69	-0.81	N
MTERF	1	mitochondrial transcription termination factor	I	0	1.69	0.39	N
DNMBP	1	dynamin binding protein	I	0	1.69	0.76	N
ZNF83	1	zinc finger protein 83	I	0	1.72	1.07	N

ELOVL3	1	ELOVL fatty acid elongase 3	I	0	1.75	-8.55	N
SNORA2 5	1	small nucleolar RNA, H/ACA box 25	I	0	1.75	-6.06	N
GIPC3	1	GIPC PDZ domain containing family, member 3	I	0	1.75	-5.66	N
CBR3- AS1	1	CBR3 antisense RNA 1 (non-protein coding)	I	0	1.75	-5.09	N
EGOT	1	eosinophil granule ontogeny transcript (non-protein coding)	I	0	1.75	-3.1	N
FLJ35776	1	hypothetical LOC649446	I	0	1.75	-2.6	N
FAM98B	1	family with sequence similarity 98, member B	I	0	1.75	-2.6	N
ZNF180	1	zinc finger protein 180	I	0	1.75	-1.98	N
KRT4	1	keratin 4	I	0	1.75	-1.11	N
ECHDC3	1	enoyl CoA hydratase domain containing 3	I	0	1.75	-1.08	N
SETD3	1	SET domain containing 3	I	0	1.75	-0.85	N
C2orf15	1	chromosome 2 open reading frame 15	I	0	1.75	-0.7	N
MDP1	1	magnesium-dependent phosphatase 1	I	0	1.75	-0.51	N
HHLA3	1	HERV-H LTR-associating 3	I	0	1.75	-0.19	N
MTHFS	1	5,10-methenyltetrahydrofolate synthetase (5-formyltetrahydrofolate cyclo-ligase)	I	0	1.75	-0.12	N
TTC18	1	tetratricopeptide repeat domain 18	I	0	1.75	-0.06	N
THUMPD 2	1	THUMP domain containing 2	I	0	1.75	0.09	N
KBTBD4	1	kelch repeat and BTB (POZ) domain containing 4	I	0	1.75	0.1	N
PCBP1- AS1	1	PCBP1 antisense RNA 1 (non-protein coding)	I	0	1.75	0.58	N
HOXA2	1	homeobox A2	I	0	1.75	0.58	N
LOC2831 77	1	hypothetical LOC283177	I	0	1.75	0.78	N
PNMAL1	1	PNMA-like 1	I	0	1.75	0.82	N
RPAIN	1	RPA interacting protein	I	0	1.75	0.84	N
AAED1	1	AhpC/TSA antioxidant enzyme domain containing 1	I	0	1.75	1.48	N

LOC388152	1	hypothetical LOC388152	I	0	1.75	1.67	N
MTCP1NB	1	mature T-cell proliferation 1 neighbor	I	0	1.75	2.06	N
MORN3	1	MORN repeat containing 3	I	0	1.75		N
MRPL17	1	mitochondrial ribosomal protein L17	I	0	1.76	0.82	N
DIS3L	1	DIS3 mitotic control homolog (S. cerevisiae)-like	I	0	1.81	0.2	N
PDP1	1	pyruvate dehydrogenase phosphatase catalytic subunit 1	I	0	1.84	0.64	N
RBM45	1	RNA binding motif protein 45	I	0	1.88	-1.43	N
ZCRB1	1	zinc finger CCHC-type and RNA binding motif 1	I	0	1.88	0.03	N
ZNF117	1	zinc finger protein 117	I	0	1.93	0.37	N
KANSL2	1	KAT8 regulatory NSL complex subunit 2	I	0	1.93	2.69	N
DNAJC13	1	DnaJ (Hsp40) homolog, subfamily C, member 13	I	0	2.03	-0.33	N
C11orf73	1	chromosome 11 open reading frame 73	I	0	2.07	-0.7	N
DNAJC21	1	DnaJ (Hsp40) homolog, subfamily C, member 21	I	0	2.12	-0.78	N
ZFAND1	1	zinc finger, AN1-type domain 1	I	0	2.18	-0.05	N
FBXO17	1	F-box protein 17	I	0	2.25	0.63	N
GALK2	1	galactokinase 2	I	0	2.27	-1.39	N
TIMM21	1	translocase of inner mitochondrial membrane 21 homolog (yeast)	I	0	2.27	-1.05	N
RRP15	1	ribosomal RNA processing 15 homolog (S. cerevisiae)	I	0	2.27	0.9	N
SRPRB	1	signal recognition particle receptor, B subunit	I	0	2.29	-1.29	N
C10orf47	1	chromosome 10 open reading frame 47	I	0	2.31	-2	N
FAM200A	1	family with sequence similarity 200, member A	I	0	2.31	-1.28	N
LOC100507053	1	hypothetical LOC100507053	I	0	2.31	-0.7	N
AGMO	1	alkylglycerol monooxygenase	I	0	2.31	-0.7	N
C17orf58	1	chromosome 17 open reading frame 58	I	0	2.31	0.42	N
PDE6D	1	phosphodiesterase 6D, cGMP-specific, rod, delta	I	0	2.31	0.94	N

FUK	1	fucokinase	I	0	2.31	1.2	N
LOC283663	1	hypothetical LOC283663	I	0	2.31	1.7	N
FAM133B	1	family with sequence similarity 133, member B	I	0	2.36	-0.89	N
ELL2	1	elongation factor, RNA polymerase II, 2	I	0	2.44	-1.07	N
NDUFB2	1	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 2, 8kDa	I	0	2.51	1.01	N
ADNP2	1	ADNP homeobox 2	I	0	2.58	1.84	N
FKBP1AP1	1	FK506 binding protein 1A, 12kDa pseudogene 1	I	0	2.72	-0.14	N
BTBD6	1	BTB (POZ) domain containing 6	I	0	2.72	0.1	N
MRPL45P2	1	mitochondrial ribosomal protein L45 pseudogene 2	I	0	2.72	0.23	N
KIAA0895L	1	KIAA0895-like	I	0	2.72	0.97	N
GPATCH1	1	G patch domain containing 1	I	0	2.72	1.14	N
LOC100128822	1	hypothetical LOC100128822	I	0	2.72	1.82	N
LOC646324	1	hypothetical LOC646324	I	0	2.72		N
LOC145820	1	hypothetical LOC145820	I	0	3.03	-3.75	N
LINC00339	1	long intergenic non-protein coding RNA 339	I	0	3.03	-2.24	N
EPB41L5	1	erythrocyte membrane protein band 4.1 like 5	I	0	3.03	-0.76	N
LOC100190940	1	hypothetical LOC100190940	I	0	3.03	-0.3	N
C8orf38	1	chromosome 8 open reading frame 38	I	0	3.03	-0.29	N
MTMR9LP	1	myotubularin related protein 9-like, pseudogene	I	0	3.03	-0.23	N
NSUN6	1	NOP2/Sun domain family, member 6	I	0	3.03	1.38	N

SNORD9	1	small nucleolar RNA, C/D box 99	I	0	3.03		N
MRPL33	1	mitochondrial ribosomal protein L33	I	0	3.08	0.29	N
NARS2	1	asparaginyl-tRNA synthetase 2, mitochondrial (putative)	I	0	3.29	-0.89	N
SNX25	1	sorting nexin 25	I	0	3.29	-0.42	N
C11orf92	1	chromosome 11 open reading frame 92	I	0	3.29	-0.36	N
RGL1	1	ral guanine nucleotide dissociation stimulator-like 1	I	0	3.29	-0.04	N
STK36	1	serine/threonine kinase 36	I	0	3.29	0.1	N
MED11	1	mediator complex subunit 11	I	0	3.29	1.33	N
ASB9	1	ankyrin repeat and SOCS box containing 9	I	0	3.51	-1.08	N
SLC25A4	1	solute carrier family 25, member 45	I	0	3.51	-0.92	N
5							
PGBD2	1	piggyBac transposable element derived 2	I	0	3.51	-0.19	N
CSRP2BP	1	CSRP2 binding protein	I	0	3.51	0.57	N
TMED10	1	transmembrane emp24-like trafficking protein 10 (yeast)	I	0	3.51	0.58	N
P1		pseudogene 1					
C12orf26	1	chromosome 12 open reading frame 26	I	0	3.51	0.73	N
GOLGA6L	1	golgin A6 family-like 5 (pseudogene)	I	0	3.51	1	N
5							
ZNF630	1	zinc finger protein 630	I	0	3.51	3.69	N
PDCL3	1	phosducin-like 3	I	0	3.6	1	N
CCT6P1	1	chaperonin containing TCP1, subunit 6 (zeta) pseudogene 1	I	0	3.7	-4.44	N
ZNF559-ZNF177	1	ZNF559-ZNF177 readthrough	I	0	3.7	-0.39	N
STAC	1	SH3 and cysteine rich domain	I	0	3.7	1.05	N
C2orf27A	1	chromosome 2 open reading frame 27A	I	0	3.7	4.65	N
SUMO1P	1	SUMO1 pseudogene 3	I	0	3.87	-0.7	N
3							
RILPL1	1	Rab interacting lysosomal protein-like 1	I	0	3.87	0.35	N
UTP15	1	UTP15, U3 small nucleolar ribonucleoprotein, homolog (S. cerevisiae)	I	0	3.87	0.61	N

LOC283143	1	hypothetical LOC283143	I	0	3.87	2.18	N
ZNF600	1	zinc finger protein 600	I	0	3.87	4.97	N
IFT20	1	intraflagellar transport 20 homolog (Chlamydomonas)	I	0	4.02	0.12	N
ZNF610	1	zinc finger protein 610	I	0	4.02	1.99	N
ZNF304	1	zinc finger protein 304	I	0	4.02	2.76	N
AVIL	1	advillin	I	0	4.14	0.56	N
INO80C	1	INO80 complex subunit C	I	0	4.15	-1.69	N
B3GNT5	1	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5	I	0	4.15	-0.46	N
LOC401321	1	hypothetical LOC401321	I	0	4.15	-0.19	N
THAP2	1	THAP domain containing, apoptosis associated protein 2	I	0	4.15	1.7	N
CCDC30	1	coiled-coil domain containing 30	I	0	4.28	-2.26	N
TTC5	1	tetratricopeptide repeat domain 5	I	0	4.28	-0.48	N
AMZ2P1	1	archaelysin family metallopeptidase 2 pseudogene 1	I	0	4.28	0.51	N
RPSAP9	1	ribosomal protein SA pseudogene 9	I	0	4.28	1.56	N
NANP	1	N-acetylneuraminic acid phosphatase	I	0	4.39	1.24	N
CHIC2	1	cysteine-rich hydrophobic domain 2	I	0	4.5	-0.25	N
LOC100506178	1	hypothetical LOC100506178	I	0	4.5	-0.14	N
RPL21P44	1	ribosomal protein L21 pseudogene 44	I	0	4.6	-1.26	N
ZNF780B	1	zinc finger protein 780B	I	0	4.6	-0.18	N
WDR89	1	WD repeat domain 89	I	0	4.6	1.08	N
INTS7	1	integrator complex subunit 7	I	0	4.78	1.56	N
IFT43	1	intraflagellar transport 43 homolog (Chlamydomonas)	I	0	4.86	0.83	N
ZNF559	1	zinc finger protein 559	I	0	4.94	-0.82	N
CCNT2	1	cyclin T2	I	0	4.94	0.82	N
HEATR7A	1	HEAT repeat containing 7A	I	0	5.01	-0.7	N
QPCTL	1	glutaminyl-peptide cyclotransferase-like	I	0	5.08	-0.33	N

MORN2	1	MORN repeat containing 2	I	0	5.15	-1.48	N
ZNF547	1	zinc finger protein 547	I	0	5.15	-1.26	N
C17orf48	1	chromosome 17 open reading frame 48	I	0	5.21	-0.23	N
ZNF662	1	zinc finger protein 662	I	0	5.27	0.57	N
BCL6B	1	B-cell CLL/lymphoma 6, member B	I	0	5.77	-0.07	N
LOC100507254	1	hypothetical LOC100507254	I	0	6.04	2.76	N
PLK1S1	1	polo-like kinase 1 substrate 1	I	0	7.65	0.16	N
LINC00152	1	long intergenic non-protein coding RNA 152	I	0	9.21	-0.29	N
LINC00473	1	long intergenic non-protein coding RNA 473	I	0		-7.5	N
SNORA67	1	small nucleolar RNA, H/ACA box 67	I	0		-6.38	N
FLJ45983	1	hypothetical LOC399717	I	0		-6.38	N
LOC100144604	1	hypothetical LOC100144604	I	0		-6.06	N
CEP170P1	1	centrosomal protein 170kDa pseudogene 1	I	0		-5.66	N
C10orf129	1	chromosome 10 open reading frame 129	I	0		-5.66	N
SNORD84	1	small nucleolar RNA, C/D box 84	I	0		-5.09	N
ADH7	1	alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide	I	0		-4.38	N
SNORD38B	1	small nucleolar RNA, C/D box 38B	I	0		-4.16	N
SNORD28	1	small nucleolar RNA, C/D box 28	I	0		-4.16	N
SNORD12B	1	small nucleolar RNA, C/D box 12B	I	0		-4.16	N
SNORA16A	1	small nucleolar RNA, H/ACA box 16A	I	0		-4.16	N

KRT16P2	1	keratin 16 pseudogene 2	I	0	-4.16	N
FKBP1A-SDCBP2	1	FKBP1A-SDCBP2 readthrough (non-protein coding)	I	0	-4.16	N
CCL14-CCL15	1	CCL14-CCL15 readthrough	I	0	-4.16	N
BCRP3	1	breakpoint cluster region pseudogene 3	I	0	-4.16	N
ASPG	1	asparaginase homolog (<i>S. cerevisiae</i>)	I	0	-3.58	N
ABCC6P2	1	ATP-binding cassette, sub-family C, member 6 pseudogene 2	I	0	-3.39	N
NRGN	1	neurogranin (protein kinase C substrate, RC3)	I	0	-2.86	N
FAM181A	1	family with sequence similarity 181, member A	I	0	-2.6	N
OR7E91P	1	olfactory receptor, family 7, subfamily E, member 91 pseudogene	I	0	-2.54	N
RMRP	1	RNA component of mitochondrial RNA processing endoribonuclease	I	0	-2.2	N
C3orf25	1	chromosome 3 open reading frame 25	I	0	-2.2	N
RBFOX3	1	RNA binding protein, fox-1 homolog (<i>C. elegans</i>) 3	I	0	-2.14	N
TRIM17	1	tripartite motif containing 17	I	0	-2.09	N
ELMO3	1	engulfment and cell motility 3	I	0	-1.88	N
LOC440335	1	hypothetical LOC440335	I	0	-1.82	N
VPS37D	1	vacuolar protein sorting 37 homolog D (<i>S. cerevisiae</i>)	I	0	-1.69	N
LOC100630918	1	hypothetical LOC100630918	I	0	-1.67	N
SPRR2B	1	small proline-rich protein 2B	I	0	-1.64	N
SNORA8	1	small nucleolar RNA, H/ACA box 8	I	0	-1.64	N
SNORA18	1	small nucleolar RNA, H/ACA box 18	I	0	-1.64	N
FBXW10	1	F-box and WD repeat domain containing 10	I	0	-1.64	N
C1orf182	1	chromosome 1 open reading frame 182	I	0	-1.37	N
SIRT4	1	sirtuin 4	I	0	-1.28	N
ZNF524	1	zinc finger protein 524	I	0	-1.26	N

PVALB	1	parvalbumin	I	0	-1.17	N
SOWAHB	1	sosondowah ankyrin repeat domain family member B	I	0	-1.11	N
DNALI1	1	dynein, axonemal, light intermediate chain 1	I	0	-1.03	N
HSD17B3	1	hydroxysteroid (17-beta) dehydrogenase 3	I	0	-1.02	N
TEX9	1	testis expressed 9	I	0	-0.92	N
RBKS	1	ribokinase	I	0	-0.91	N
FAM211B	1	family with sequence similarity 211, member B	I	0	-0.84	N
C1orf88	1	chromosome 1 open reading frame 88	I	0	-0.84	N
TBC1D19	1	TBC1 domain family, member 19	I	0	-0.7	N
SNORA33	1	small nucleolar RNA, H/ACA box 33	I	0	-0.7	N
SEC16B	1	SEC16 homolog B (<i>S. cerevisiae</i>)	I	0	-0.7	N
RUFY4	1	RUN and FYVE domain containing 4	I	0	-0.7	N
PRR15L	1	proline rich 15-like	I	0	-0.7	N
LOC643650	1	hypothetical LOC643650	I	0	-0.7	N
LOC440900	1	hypothetical LOC440900	I	0	-0.7	N
LOC149134	1	hypothetical LOC149134	I	0	-0.7	N
FAM190A	1	family with sequence similarity 190, member A	I	0	-0.7	N
CYP2D7P1	1	cytochrome P450, family 2, subfamily D, polypeptide 7 pseudogene 1	I	0	-0.7	N
ALS2CR11	1	amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 11	I	0	-0.7	N
FAM183A	1	family with sequence similarity 183, member A	I	0	-0.53	N
ZNF653	1	zinc finger protein 653	I	0	-0.51	N
PRSS16	1	protease, serine, 16 (thymus)	I	0	-0.48	N

CYP39A1	1	cytochrome P450, family 39, subfamily A, polypeptide 1	I	0	-0.48	N
CAPN12	1	calpain 12	I	0	-0.48	N
RNF39	1	ring finger protein 39	I	0	-0.39	N
LOC100130776	1	hypothetical LOC100130776	I	0	-0.39	N
MIR600HG	1	MIR600 host gene (non-protein coding)	I	0	-0.38	N
IER5L	1	immediate early response 5-like	I	0	-0.32	N
GUSBP11	1	glucuronidase, beta pseudogene 11	I	0	-0.23	N
ANKRD29	1	ankyrin repeat domain 29	I	0	-0.23	N
PDIA3P	1	protein disulfide isomerase family A, member 3 pseudogene	I	0	-0.17	N
SMCR7	1	Smith-Magenis syndrome chromosome region, candidate 7	I	0	-0.14	N
EXOC3L1	1	exocyst complex component 3-like 1	I	0	-0.14	N
CASQ1	1	calsequestrin 1 (fast-twitch, skeletal muscle)	I	0	-0.14	N
CCNO	1	cyclin O	I	0	-0.13	N
ECSIT	1	ECSIT homolog (Drosophila)	I	0	-0.04	N
SUSD4	1	sushi domain containing 4	I	0	0.01	N
PIGL	1	phosphatidylinositol glycan anchor biosynthesis, class L	I	0	0.02	N
GRHL2	1	grainyhead-like 2 (Drosophila)	I	0	0.13	N
VWA5B1	1	von Willebrand factor A domain containing 5B1	I	0	0.23	N
SNORA76	1	small nucleolar RNA, H/ACA box 76	I	0	0.23	N
PSORS1C1	1	psoriasis susceptibility 1 candidate 1	I	0	0.23	N
GBP1P1	1	guanylate binding protein 1, interferon-inducible pseudogene 1	I	0	0.23	N
FLJ22447	1	hypothetical LOC400221	I	0	0.23	N
KRBOX1	1	KRAB box domain containing 1	I	0	0.26	N
C12orf36	1	chromosome 12 open reading frame 36	I	0	0.27	N
C8orf73	1	chromosome 8 open reading frame 73	I	0	0.28	N

SNX33	1	sorting nexin 33	I	0	0.29	N
SNORD104	1	small nucleolar RNA, C/D box 104	I	0	0.42	N
LOC100302650	1	hypothetical LOC100302650	I	0	0.58	N
LAMP5	1	lysosomal-associated membrane protein family, member 5	I	0	0.58	N
KRT16P3	1	keratin 16 pseudogene 3	I	0	0.68	N
ARHGAP28	1	Rho GTPase activating protein 28	I	0	0.72	N
EP400NL	1	EP400 N-terminal like	I	0	0.73	N
SERHL	1	serine hydrolase-like	I	0	0.79	N
LOC375196	1	hypothetical LOC375196	I	0	0.79	N
LOC100133161	1	hypothetical LOC100133161	I	0	0.79	N
PPP1R36	1	protein phosphatase 1, regulatory subunit 36	I	0	0.84	N
INPP5E	1	inositol polyphosphate-5-phosphatase, 72 kDa	I	0	0.96	N
KIAA1328	1	KIAA1328	I	0	1.2	N
EID3	1	EP300 interacting inhibitor of differentiation 3	I	0	1.2	N
KLHL15	1	kelch-like 15 (Drosophila)	I	0	1.24	N
FN3K	1	fructosamine 3 kinase	I	0	1.28	N
MST1P9	1	macrophage stimulating 1 (hepatocyte growth factor-like) pseudogene 9	I	0	1.32	N
CPLX1	1	complexin 1	I	0	1.44	N
LINC00085	1	long intergenic non-protein coding RNA 85	I	0	1.48	N
ZNF501	1	zinc finger protein 501	I	0	1.51	N
HIST3H2A	1	histone cluster 3, H2a	I	0	1.59	N
JPH4	1	junctionophilin 4	I	0	1.64	N

RAB3C	1	RAB3C, member RAS oncogene family	I	0	1.99	N
LOC400236	1	hypothetical LOC400236	I	0	2.25	N
SRPK3	1	SRSF protein kinase 3	I	0	2.5	N
DBIL5P	1	diazepam binding inhibitor-like 5, pseudogene	I	0	2.5	N
SNORD89	1	small nucleolar RNA, C/D box 89	I	0	2.76	N
SNORD7	1	small nucleolar RNA, C/D box 7	I	0	2.76	N
SNORD65	1	small nucleolar RNA, C/D box 65	I	0	2.76	N
SNORD58C	1	small nucleolar RNA, C/D box 58C	I	0	2.76	N
SNORD43	1	small nucleolar RNA, C/D box 43	I	0	2.76	N
SNORD35A	1	small nucleolar RNA, C/D box 35A	I	0	2.76	N
SNORD31	1	small nucleolar RNA, C/D box 31	I	0	2.76	N
SNORD25	1	small nucleolar RNA, C/D box 25	I	0	2.76	N
SNORD12	1	small nucleolar RNA, C/D box 12	I	0	2.76	N
SNORD116-26	1	small nucleolar RNA, C/D box 116-26	I	0	2.76	N
SNORD109A	1	small nucleolar RNA, C/D box 109A	I	0	2.76	N
PLEKHN1	1	pleckstrin homology domain containing, family N member 1	I	0	2.76	N
LOC554206	1	leucine carboxyl methyltransferase 1 pseudogene	I	0	2.76	N
LOC284998	1	hypothetical LOC284998	I	0	2.76	N
IQCJ-	1	IQCJ-SCHIP1 readthrough	I	0	2.76	N

SCHIP1						
FAM83G	1	family with sequence similarity 83, member G	I	0	2.76	N
CCDC96	1	coiled-coil domain containing 96	I	0	2.76	N
ARHGAP40	1	Rho GTPase activating protein 40	I	0	2.76	N
SNX31	1	sorting nexin 31	I	0	3.69	N
SNORD58A	1	small nucleolar RNA, C/D box 58A	I	0	3.69	N
SNORD22	1	small nucleolar RNA, C/D box 22	I	0	3.69	N
SCARNA12	1	small Cajal body-specific RNA 12	I	0	3.69	N
LOC100130357	1	hypothetical LOC100130357	I	0	3.69	N
FBXO41	1	F-box protein 41	I	0	3.69	N
CECR5-AS1	1	CECR5 antisense RNA 1 (non-protein coding)	I	0	3.69	N
C20orf151	1	chromosome 20 open reading frame 151	I	0	3.69	N
ZNF844	1	zinc finger protein 844	I	0	4.25	N
SNORA32	1	small nucleolar RNA, H/ACA box 32	I	0	4.25	N
HOXD4	1	homeobox D4	I	0	4.25	N
HCG4B	1	HLA complex group 4B (non-protein coding)	I	0	4.25	N
GHRLOS2	1	ghrelin opposite strand RNA 2 (non-protein coding)	I	0	4.25	N
GGTLC2	1	gamma-glutamyltransferase light chain 2	I	0	4.25	N
BTBD16	1	BTB (POZ) domain containing 16	I	0	4.25	N
FLJ34503	1	hypothetical FLJ34503	I	0	4.65	N
SPRR2D	1	small proline-rich protein 2D	I	0	4.97	N
GRAMD1B	1	GRAM domain containing 1B	I	0	4.97	N

C6orf222	1	chromosome 6 open reading frame 222	I	0	4.97	N
DAPL1	1	death associated protein-like 1	I	0	5.45	N
AKIRIN2-AS1	1	AKIRIN2 antisense RNA 1 (non-protein coding)	I	0	5.45	N
ZMYND19	1	zinc finger, MYND-type containing 19	I	0	5.64	N
MIR612	1	microRNA 612	I	0	5.64	N
DLX2	1	distal-less homeobox 2	I	0	5.81	N
HBG1	1	hemoglobin, gamma A	I	0	8.21	N
ZNF177	1	zinc finger protein 177	I	0		N
VTRNA1-3	1	vault RNA 1-3	I	0		N
UBE2MP1	1	ubiquitin-conjugating enzyme E2M pseudogene 1	I	0		N
ST20-MTHFS	1	ST20-MTHFS readthrough	I	0		N
SNORD98	1	small nucleolar RNA, C/D box 98	I	0		N
SNORD94	1	small nucleolar RNA, C/D box 94	I	0		N
SNORD93	1	small nucleolar RNA, C/D box 93	I	0		N
SNORD92	1	small nucleolar RNA, C/D box 92	I	0		N
SNORD91B	1	small nucleolar RNA, C/D box 91B	I	0		N
SNORD91A	1	small nucleolar RNA, C/D box 91A	I	0		N
SNORD90	1	small nucleolar RNA, C/D box 90	I	0		N
SNORD88B	1	small nucleolar RNA, C/D box 88B	I	0		N

SNORD8 8A	1	small nucleolar RNA, C/D box 88A	I	0	N
SNORD8 6	1	small nucleolar RNA, C/D box 86	I	0	N
SNORD8 5	1	small nucleolar RNA, C/D box 85	I	0	N
SNORD8 3A	1	small nucleolar RNA, C/D box 83A	I	0	N
SNORD8 2	1	small nucleolar RNA, C/D box 82	I	0	N
SNORD8	1	small nucleolar RNA, C/D box 8	I	0	N
SNORD7 9	1	small nucleolar RNA, C/D box 79	I	0	N
SNORD7 8	1	small nucleolar RNA, C/D box 78	I	0	N
SNORD7 4	1	small nucleolar RNA, C/D box 74	I	0	N
SNORD7 1	1	small nucleolar RNA, C/D box 71	I	0	N
SNORD7 0	1	small nucleolar RNA, C/D box 70	I	0	N
SNORD6 8	1	small nucleolar RNA, C/D box 68	I	0	N
SNORD6 7	1	small nucleolar RNA, C/D box 67	I	0	N
SNORD6 6	1	small nucleolar RNA, C/D box 66	I	0	N
SNORD6 1	1	small nucleolar RNA, C/D box 61	I	0	N
SNORD6	1	small nucleolar RNA, C/D box 6	I	0	N
SNORD5 9B	1	small nucleolar RNA, C/D box 59B	I	0	N

SNORD5 9A	1	small nucleolar RNA, C/D box 59A	I	0	N
SNORD5 8B	1	small nucleolar RNA, C/D box 58B	I	0	N
SNORD5 7	1	small nucleolar RNA, C/D box 57	I	0	N
SNORD5 5	1	small nucleolar RNA, C/D box 55	I	0	N
SNORD5 4	1	small nucleolar RNA, C/D box 54	I	0	N
SNORD5 3	1	small nucleolar RNA, C/D box 53	I	0	N
SNORD5 1	1	small nucleolar RNA, C/D box 51	I	0	N
SNORD5 0B	1	small nucleolar RNA, C/D box 50B	I	0	N
SNORD5	1	small nucleolar RNA, C/D box 5	I	0	N
SNORD4 B	1	small nucleolar RNA, C/D box 4B	I	0	N
SNORD4 A	1	small nucleolar RNA, C/D box 4A	I	0	N
SNORD4 9A	1	small nucleolar RNA, C/D box 49A	I	0	N
SNORD4 8	1	small nucleolar RNA, C/D box 48	I	0	N
SNORD4 6	1	small nucleolar RNA, C/D box 46	I	0	N
SNORD4 5C	1	small nucleolar RNA, C/D box 45C	I	0	N
SNORD4 5B	1	small nucleolar RNA, C/D box 45B	I	0	N
SNORD4	1	small nucleolar RNA, C/D box 45A	I	0	N

5A					
SNORD4	1	small nucleolar RNA, C/D box 42B	I	0	N
2B					
SNORD4	1	small nucleolar RNA, C/D box 41	I	0	N
1					
SNORD3	1	small nucleolar RNA, C/D box 38A	I	0	N
8A					
SNORD3	1	small nucleolar RNA, C/D box 37	I	0	N
7					
SNORD3	1	small nucleolar RNA, C/D box 36C	I	0	N
6C					
SNORD3	1	small nucleolar RNA, C/D box 36B	I	0	N
6B					
SNORD3	1	small nucleolar RNA, C/D box 34	I	0	N
4					
SNORD3	1	small nucleolar RNA, C/D box 33	I	0	N
3					
SNORD2	1	small nucleolar RNA, C/D box 29	I	0	N
9					
SNORD2	1	small nucleolar RNA, C/D box 27	I	0	N
7					
SNORD2	1	small nucleolar RNA, C/D box 26	I	0	N
6					
SNORD2	1	small nucleolar RNA, C/D box 24	I	0	N
4					
SNORD2	1	small nucleolar RNA, C/D box 21	I	0	N
1					
SNORD2	1	small nucleolar RNA, C/D box 20	I	0	N
0					
SNORD2	1	small nucleolar RNA, C/D box 2	I	0	N
SNORD1	1	small nucleolar RNA, C/D box 1C	I	0	N
C					

SNORD1 B	1	small nucleolar RNA, C/D box 1B	I	0	N
SNORD1 A	1	small nucleolar RNA, C/D box 1A	I	0	N
SNORD1 9B	1	small nucleolar RNA, C/D box 19B	I	0	N
SNORD1 8B	1	small nucleolar RNA, C/D box 18B	I	0	N
SNORD1 8A	1	small nucleolar RNA, C/D box 18A	I	0	N
SNORD1 5A	1	small nucleolar RNA, C/D box 15A	I	0	N
SNORD1 21A	1	small nucleolar RNA, C/D box 121A	I	0	N
SNORD1 1B	1	small nucleolar RNA, C/D box 11B	I	0	N
SNORD1 19	1	small nucleolar RNA, C/D box 119	I	0	N
SNORD1 17	1	small nucleolar RNA, C/D box 117	I	0	N
SNORD1 16-8	1	small nucleolar RNA, C/D box 116-8	I	0	N
SNORD1 16-29	1	small nucleolar RNA, C/D box 116-29	I	0	N
SNORD1 16-27	1	small nucleolar RNA, C/D box 116-27	I	0	N
SNORD1 16-25	1	small nucleolar RNA, C/D box 116-25	I	0	N
SNORD1 16-24	1	small nucleolar RNA, C/D box 116-24	I	0	N
SNORD1 16-2	1	small nucleolar RNA, C/D box 116-2	I	0	N

SNORD1 16-18	1	small nucleolar RNA, C/D box 116-18	I	0	N
SNORD1 16-14	1	small nucleolar RNA, C/D box 116-14	I	0	N
SNORD1 16-12	1	small nucleolar RNA, C/D box 116-12	I	0	N
SNORD1 14-9	1	small nucleolar RNA, C/D box 114-9	I	0	N
SNORD1 14-28	1	small nucleolar RNA, C/D box 114-28	I	0	N
SNORD1 14-26	1	small nucleolar RNA, C/D box 114-26	I	0	N
SNORD1 14-25	1	small nucleolar RNA, C/D box 114-25	I	0	N
SNORD1 14-23	1	small nucleolar RNA, C/D box 114-23	I	0	N
SNORD1 14-17	1	small nucleolar RNA, C/D box 114-17	I	0	N
SNORD1 14-14	1	small nucleolar RNA, C/D box 114-14	I	0	N
SNORD1 14-12	1	small nucleolar RNA, C/D box 114-12	I	0	N
SNORD1 14-10	1	small nucleolar RNA, C/D box 114-10	I	0	N
SNORD1 13-9	1	small nucleolar RNA, C/D box 113-9	I	0	N
SNORD1 13-7	1	small nucleolar RNA, C/D box 113-7	I	0	N
SNORD1 13-6	1	small nucleolar RNA, C/D box 113-6	I	0	N
SNORD1 13-5	1	small nucleolar RNA, C/D box 113-5	I	0	N

SNORD1 13-4	1	small nucleolar RNA, C/D box 113-4	I	0	N
SNORD1 11	1	small nucleolar RNA, C/D box 111	I	0	N
SNORD1 1	1	small nucleolar RNA, C/D box 11	I	0	N
SNORD1 05	1	small nucleolar RNA, C/D box 105	I	0	N
SNORD1 03B	1	small nucleolar RNA, C/D box 103B	I	0	N
SNORD1 01	1	small nucleolar RNA, C/D box 101	I	0	N
SNORD1 0	1	small nucleolar RNA, C/D box 10	I	0	N
SNORA9	1	small nucleolar RNA, H/ACA box 9	I	0	N
SNORA8 4	1	small nucleolar RNA, H/ACA box 84	I	0	N
SNORA8 0B	1	small nucleolar RNA, H/ACA box 80B	I	0	N
SNORA8 0	1	small nucleolar RNA, H/ACA box 80	I	0	N
SNORA7 9	1	small nucleolar RNA, H/ACA box 79	I	0	N
SNORA7 5	1	small nucleolar RNA, H/ACA box 75	I	0	N
SNORA7 1D	1	small nucleolar RNA, H/ACA box 71D	I	0	N
SNORA7 1B	1	small nucleolar RNA, H/ACA box 71B	I	0	N
SNORA6 2	1	small nucleolar RNA, H/ACA box 62	I	0	N
SNORA5	1	small nucleolar RNA, H/ACA box 5B	I	0	N

B					
SNORA5	1	small nucleolar RNA, H/ACA box 5A	I	0	N
A					
SNORA5	1	small nucleolar RNA, H/ACA box 56	I	0	N
6					
SNORA5	1	small nucleolar RNA, H/ACA box 54	I	0	N
4					
SNORA5	1	small nucleolar RNA, H/ACA box 53	I	0	N
3					
SNORA5	1	small nucleolar RNA, H/ACA box 51	I	0	N
1					
SNORA4	1	small nucleolar RNA, H/ACA box 49	I	0	N
9					
SNORA4	1	small nucleolar RNA, H/ACA box 46	I	0	N
6					
SNORA4	1	small nucleolar RNA, H/ACA box 45	I	0	N
5					
SNORA4	1	small nucleolar RNA, H/ACA box 43	I	0	N
3					
SNORA4	1	small nucleolar RNA, H/ACA box 41	I	0	N
1					
SNORA3	1	small nucleolar RNA, H/ACA box 38B (retrotransposed)	I	0	N
8B					
SNORA3	1	small nucleolar RNA, H/ACA box 36A	I	0	N
6A					
SNORA3	1	small nucleolar RNA, H/ACA box 34	I	0	N
4					
SNORA3	1	small nucleolar RNA, H/ACA box 30	I	0	N
0					
SNORA3	1	small nucleolar RNA, H/ACA box 3	I	0	N
SNORA2	1	small nucleolar RNA, H/ACA box 29	I	0	N
9					

SNORA28	1	small nucleolar RNA, H/ACA box 28	I	0	N
SNORA26	1	small nucleolar RNA, H/ACA box 26	I	0	N
SNORA22	1	small nucleolar RNA, H/ACA box 22	I	0	N
SNORA20	1	small nucleolar RNA, H/ACA box 20	I	0	N
SNORA17	1	small nucleolar RNA, H/ACA box 17	I	0	N
SNORA14B	1	small nucleolar RNA, H/ACA box 14B	I	0	N
SNORA14A	1	small nucleolar RNA, H/ACA box 14A	I	0	N
SNORA13	1	small nucleolar RNA, H/ACA box 13	I	0	N
SNORA11	1	small nucleolar RNA, H/ACA box 11	I	0	N
SNORA1	1	small nucleolar RNA, H/ACA box 1	I	0	N
SNAR-C4	1	small ILF3/NF90-associated RNA C4	I	0	N
SNAR-C3	1	small ILF3/NF90-associated RNA C3	I	0	N
SNAR-B1	1	small ILF3/NF90-associated RNA B1	I	0	N
SLED1	1	proteoglycan 3 pseudogene	I	0	N
SCARNA9L	1	small Cajal body-specific RNA 9-like (retrotransposed)	I	0	N
SCARNA4	1	small Cajal body-specific RNA 4	I	0	N
SCARNA23	1	small Cajal body-specific RNA 23	I	0	N
SCARNA22	1	small Cajal body-specific RNA 22	I	0	N
SCARNA20	1	small Cajal body-specific RNA 20	I	0	N

SCARNA18	1	small Cajal body-specific RNA 18	I	0	N
SCARNA16	1	small Cajal body-specific RNA 16	I	0	N
SCARNA14	1	small Cajal body-specific RNA 14	I	0	N
SCARNA10	1	small Cajal body-specific RNA 10	I	0	N
PRSS3P2	1	protease, serine, 3 pseudogene 2	I	0	N
PPIAL4G	1	peptidylprolyl isomerase A (cyclophilin A)-like 4G	I	0	N
PGCP1	1	progastricsin (pepsinogen C) pseudogene 1	I	0	N
PA2G4P4	1	proliferation-associated 2G4 pseudogene 4	I	0	N
NUDT9P1	1	nudix (nucleoside diphosphate linked moiety X)-type motif 9 pseudogene 1	I	0	N
NEDD8-MDP1	1	NEDD8-MDP1 readthrough	I	0	N
MUTED-TXNDC5	1	MUTED-TXNDC5 readthrough (non-protein coding)	I	0	N
MKRN9P	1	makorin ring finger protein 9, pseudogene	I	0	N
MIR765	1	microRNA 765	I	0	N
MIR711	1	microRNA 711	I	0	N
MIR639	1	microRNA 639	I	0	N
MIR636	1	microRNA 636	I	0	N
MIR611	1	microRNA 611	I	0	N
MIR550A3	1	microRNA 550a-3	I	0	N
MIR4315-2	1	microRNA 4315-2	I	0	N
MIR4260	1	microRNA 4260	I	0	N
MIR3662	1	microRNA 3662	I	0	N
MIR31H	1	MIR31 host gene (non-protein coding)	I	0	N

G					
MIR3190	1	microRNA 3190	I	0	N
MIR147B	1	microRNA 147b	I	0	N
MIR1306	1	microRNA 1306	I	0	N
MIR1304	1	microRNA 1304	I	0	N
MIR1292	1	microRNA 1292	I	0	N
MIR1291	1	microRNA 1291	I	0	N
MIR1281	1	microRNA 1281	I	0	N
MIR1260	1	microRNA 1260b	I	0	N
B					
LOC729080	1	glycine cleavage system H pseudogene	I	0	N
LOC728066	1	family with sequence similarity 133, member B pseudogene	I	0	N
LOC648809	1	elongation factor Tu GTP-binding domain-containing protein 1 pseudogene	I	0	N
LOC442459	1	X-ray repair complementing defective repair pseudogene	I	0	N
LOC407835	1	mitogen-activated protein kinase kinase 2 pseudogene	I	0	N
LOC127841	1	hypothetical LOC127841	I	0	N
LOC100289656	1	Dexi homolog (mouse) pseudogene	I	0	N
LOC100132111	1	hypothetical LOC100132111	I	0	N
LOC100128542	1	hypothetical protein LOC100128542	I	0	N
KRTAP5-9	1	keratin associated protein 5-9	I	0	N
KRTAP3-1	1	keratin associated protein 3-1	I	0	N

KPNA7	1	karyopherin alpha 7 (importin alpha 8)	I	0	N
IQCJ	1	IQ motif containing J	I	0	N
INO80B-WBP1	1	INO80B-WBP1 readthrough	I	0	N
HULC	1	highly up-regulated in liver cancer (non-protein coding)	I	0	N
HOXA10-HOXA9	1	HOXA10-HOXA9 readthrough	I	0	N
HIST1H1T	1	histone cluster 1, H1t	I	0	N
FOXI3	1	forkhead box I3	I	0	N
FMO9P	1	flavin containing monooxygenase 9 pseudogene	I	0	N
FLJ34208	1	hypothetical LOC401106	I	0	N
EEF1E1-MUTED	1	EEF1E1-MUTED readthrough	I	0	N
DPRX	1	divergent-paired related homeobox	I	0	N
CTPS	1	CTP synthase	I	0	N
CRYGS	1	crystallin, gamma S	I	0	N
COL6A4P1	1	collagen, type VI, alpha 4 pseudogene 1	I	0	N
CELP	1	carboxyl ester lipase pseudogene	I	0	N
CARD17	1	caspase recruitment domain family, member 17	I	0	N
C7orf70	1	chromosome 7 open reading frame 70	I	0	N
C17orf63	1	chromosome 17 open reading frame 63	I	0	N
C10orf131	1	chromosome 10 open reading frame 131	I	0	N
C10orf103	1	chromosome 10 open reading frame 103	I	0	N
ABHD14A-ACY1	1	ABHD14A-ACY1 readthrough (non-protein coding)	I	0	N
FAM223B	1	family with sequence similarity 223, member B (non-protein coding)	I	0	N

ZDHC6	1	zinc finger, DHHC-type containing 6	M	0	0.9	0.1	C
ZDHC20	1	zinc finger, DHHC-type containing 20	M	11	0.5	0.3	C
ZDHC13	1	zinc finger, DHHC-type containing 13	M	0	1.2	1.1	C
XKR6	1	XK, Kell blood group complex subunit-related family, member 6	M	36	3	3.7	C
WNT4	1	wingless-type MMTV integration site family, member 4	M	19	3	3.8	C
VRK2	1	vaccinia related kinase 2	M	15	5.3	1.4	C
VAMP8	1	vesicle-associated membrane protein 8 (endobrevin)	M	9	0.5	1	C
USH2A	1	Usher syndrome 2A (autosomal recessive, mild)	M	2	2.3	1.2	C
UPK3BL	1	uroplakin 3B-like	M	0	4.2	0.6	C
UBE2J1	1	ubiquitin-conjugating enzyme E2, J1, U	M	5	1.2	0.1	C
TYRO3	1	TYRO3 protein tyrosine kinase	M	15	1.8	1.3	C
TSPAN5	1	tetraspanin 5	M	0	3	0.6	C
TSPAN3	1	tetraspanin 3	M	0	1.1	1.2	C
TRPV2	1	transient receptor potential cation channel, subfamily V, member 2	M	10	0.1	0.3	C
TRPC1	1	transient receptor potential cation channel, subfamily C, member 1	M	23	0.8	0.3	C
TRDN	1	triadin	M	4	1.8	0.3	C
TPSG1	1	tryptase gamma 1	M	17	0.8	2.5	C
TNFSF8	1	tumor necrosis factor (ligand) superfamily, member 8	M	25	0.8	1	C
TMTC4	1	transmembrane and tetratricopeptide repeat containing 4	M	0	4.5	2.2	C
TMTC1	1	transmembrane and tetratricopeptide repeat containing 1	M	11	0.4	0.2	C
TMPRSS1 1D	1	transmembrane protease, serine 11D	M	7	1.8	3.7	C
TMPRSS1 1BNL	1	TMPRSS11B N terminal-like	M	0	0.8	4.3	C
TMIGD2	1	transmembrane and immunoglobulin domain containing 2	M	25	2.7	1.2	C
TMEM98	1	transmembrane protein 98	M	0	0.3	0.7	C
TMEM80	1	transmembrane protein 80	M	0	1.8	0.8	C
TMEM62	1	transmembrane protein 62	M	0	0	0.7	C

TMEM60	1	transmembrane protein 60	M	20	1.2	0.7	C
TMEM55A	1	transmembrane protein 55A	M	13	0.2	0.2	C
TMEM53	1	transmembrane protein 53	M	0	0.4	0.7	C
TMEM35	1	transmembrane protein 35	M	14	0.8	0.7	C
TMEM30A	1	transmembrane protein 30A	M	13	0.4	0	C
TMEM194B	1	transmembrane protein 194B	M	0	2.3	1.5	C
TMEM194A	1	transmembrane protein 194A	M	0	1.8	1.6	C
TMEM183B	1	transmembrane protein 183B	M	0	3.7	0.1	C
TMEM179B	1	transmembrane protein 179B	M	0	4.5	0.9	C
TMEM169	1	transmembrane protein 169	M	0	1.8	0.4	C
TMEM164	1	transmembrane protein 164	M	13	0.2	0.2	C
TMEM161B	1	transmembrane protein 161B	M	25	1.8	0.3	C
TMEM127	1	transmembrane protein 127	M	15	0.1	0.4	C
TMEM104	1	transmembrane protein 104	M	0	1.8	1	C
TMEM100	1	transmembrane protein 100	M	14	0.8	1.9	C
TMCO3	1	transmembrane and coiled-coil domains 3	M	0	1.6	0.7	C
TMCC3	1	transmembrane and coiled-coil domain family 3	M	14	1.3	0.2	C
TM7SF3	1	transmembrane 7 superfamily member 3	M	0	0.6	0.1	C
TM2D1	1	TM2 domain containing 1	M	14	2.8	0.7	C
TBC1D20	1	TBC1 domain family, member 20	M	0	0.6	0.2	C

TAOK2	1	TAO kinase 2	M	5	1.8	1.2	C
SYT9	1	synaptotagmin IX	M	0	1.8	0.2	C
SVOP	1	SV2 related protein homolog (rat)	M	0	0.8	1.6	C
SUSD1	1	sushi domain containing 1	M	0	5.5	0.4	C
STX2	1	syntaxin 2	M	9	2.2	0.7	C
STOML3	1	stomatin (EPB72)-like 3	M	0	1.8	0.2	C
STEAP1B	1	STEAP family member 1B	M	0	3.3	2.8	C
ST3GAL3	1	ST3 beta-galactoside alpha-2,3-sialyltransferase 3	M	15	2.3	0.6	C
SPPL3	1	signal peptide peptidase-like 3	M	7	5.1	0.2	C
SPN	1	sialophorin	M	27	0.5	0.4	C
SPAG4	1	sperm associated antigen 4	M	0	1.8	0.6	C
SLCO3A1	1	solute carrier organic anion transporter family, member 3A1	M	18	1	3.5	C
SLC8A3	1	solute carrier family 8 (sodium/calcium exchanger), member 3	M	5	0.8	0.1	C
SLC7A6	1	solute carrier family 7 (amino acid transporter light chain, y+L system), member 6	M	33	0.5	0.7	C
SLC7A14	1	solute carrier family 7 (orphan transporter), member 14	M	0	0.3	0.7	C
SLC6A6	1	solute carrier family 6 (neurotransmitter transporter, taurine), member 6	M	23	1.1	0.3	C
SLC6A4	1	solute carrier family 6 (neurotransmitter transporter, serotonin), member 4	M	1	4.9	1.8	C
SLC4A8	1	solute carrier family 4, sodium bicarbonate cotransporter, member 8	M	0	2.3	0.8	C
SLC46A3	1	solute carrier family 46, member 3	M	0	3.3	2.1	C
SLC41A2	1	solute carrier family 41, member 2	M	0	0.7	0.4	C
SLC35E2 B	1	solute carrier family 35, member E2B	M	0	0.3	1	C
SLC35E2	1	solute carrier family 35, member E2	M	0	0.3	1.2	C
SLC35D1	1	solute carrier family 35 (UDP-glucuronic acid/UDP-N-acetylgalactosamine dual transporter), member D1	M	0	3.5	0.8	C
SLC2A14	1	solute carrier family 2 (facilitated glucose transporter), member 14	M	0	1.8	3.7	C

SLC25A2 6	1	solute carrier family 25, member 26	M	11	0.2	1.4	C
SLC24A5	1	solute carrier family 24, member 5	M	0	0.8	1.4	C
SLC20A1	1	solute carrier family 20 (phosphate transporter), member 1	M	17	0.8	0.6	C
SLAMF6	1	SLAM family member 6	M	4	2.3	1.5	C
SIGLEC8	1	sialic acid binding Ig-like lectin 8	M	0	1.8	0.7	C
SHISA2	1	shisa homolog 2 (<i>Xenopus laevis</i>)	M	0	5.2	1.5	C
SGK196	1	protein kinase-like protein SgK196	M	0	2.3	1.2	C
SERINC5	1	serine incorporator 5	M	0	2.5	1.2	C
SERINC4	1	serine incorporator 4	M	0	0.8	0.8	C
SERINC1	1	serine incorporator 1	M	0	0.5	0.4	C
SERF1B	1	small EDRK-rich factor 1B (centromeric)	M	0	3.9	0.9	C
SEMA4F	1	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4F	M	20	3	0.6	C
SEMA3D	1	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3D	M	11	2.7	2.8	C
SEL1L3	1	sel-1 suppressor of lin-12-like 3 (<i>C. elegans</i>)	M	0	1.7	0.4	C
SEC63	1	SEC63 homolog (<i>S. cerevisiae</i>)	M	4	1.5	0.4	C
SEC61G	1	Sec61 gamma subunit	M	0	4.3	0.5	C
SEC61A2	1	Sec61 alpha 2 subunit (<i>S. cerevisiae</i>)	M	0	0.2	0.5	C
SCN3B	1	sodium channel, voltage-gated, type III, beta	M	4	0.4	0.6	C
SCN3A	1	sodium channel, voltage-gated, type III, alpha subunit	M	5	1.8	3.2	C
SCN2B	1	sodium channel, voltage-gated, type II, beta	M	0	1.8	1.1	C
SAMD8	1	sterile alpha motif domain containing 8	M	0	1.4	0.6	C
S1PR2	1	sphingosine-1-phosphate receptor 2	M	50	0.6	0.4	C
RXFP1	1	relaxin/insulin-like family peptide receptor 1	M	17	0.8	0.2	C
ROM1	1	retinal outer segment membrane protein 1	M	5	0.8	1	C
RGR	1	retinal G protein coupled receptor	M	0	0.8	3.3	C
RAET1G	1	retinoic acid early transcript 1G	M	11	0.8	4.3	C
QRFP	1	pyroglutamylated RFamide peptide receptor	M	11	0.8	0.3	C

PTPRE	1	protein tyrosine phosphatase, receptor type, E	M	13	2.5	1.7	C
PTCHD1	1	patched domain containing 1	M	0	0.8	1.2	C
PTAFR	1	platelet-activating factor receptor	M	24	0.7	0.9	C
PRTG	1	protogenin	M	0	3.5	2	C
PRRT3	1	proline-rich transmembrane protein 3	M	0	4.7	1	C
PRADC1	1	protease-associated domain containing 1	M	0	0.7	0.4	C
PQLC2	1	PQ loop repeat containing 2	M	0	2.3	0.4	C
PKD1L3	1	polycystic kidney disease 1-like 3	M	0	0.8	2.8	C
PDZD8	1	PDZ domain containing 8	M	9	0.8	1.9	C
PDCD1LG2	1	programmed cell death 1 ligand 2	M	15	4.5	0.8	C
PCDHGA7	1	protocadherin gamma subfamily A, 7	M	29	1.8	2.8	C
PCDHB7	1	protocadherin beta 7	M	11	2.3	2	C
PCDH8	1	protocadherin 8	M	14	1.6	1.4	C
PCDH15	1	protocadherin-related 15	M	6	0.8	5	C
PAQR8	1	progesterone and adipoQ receptor family member VIII	M	7	1.4	0.7	C
P2RY2	1	purinergic receptor P2Y, G-protein coupled, 2	M	27	2.3	0.3	C
O3FAR1	1	omega-3 fatty acid receptor 1	M	7	2.7	0.1	C
NPTXR	1	neuronal pentraxin receptor	M	0	1.8	0.6	C
NPFFR2	1	neuropeptide FF receptor 2	M	0	2.3	4.7	C
NIPA2	1	non imprinted in Prader-Willi/Angelman syndrome 2	M	8	0.3	0.1	C
NDST3	1	N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 3	M	7	4.5	2.4	C
NALCN	1	sodium leak channel, non-selective	M	0	2.3	3.8	C
MUC21	1	mucin 21, cell surface associated	M	0	5.1	5.5	C
MS4A2	1	membrane-spanning 4-domains, subfamily A, member 2 (Fc fragment of IgE, high affinity I, receptor for; beta polypeptide)	M	8	0.8	1.8	C
MILR1	1	mast cell immunoglobulin-like receptor 1	M	0	1.8	2.8	C
MFSD11	1	major facilitator superfamily domain containing 11	M	0	1.9	1.9	C
MEGF8	1	multiple EGF-like-domains 8	M	11	0.6	0.3	C

MCHR1	1	melanin-concentrating hormone receptor 1	M	2	2.3	0.7	C
MARVEL D3	1	MARVEL domain containing 3	M	9	4.2	0.7	C
MARVEL D2	1	MARVEL domain containing 2	M	5	4.1	0.8	C
MARCH3	1	membrane-associated ring finger (C3HC4) 3	M	0	1.7	3.3	C
MARCH1	1	membrane-associated ring finger (C3HC4) 1	M	9	0.8	0.7	C
MANEAL	1	mannosidase, endo-alpha-like	M	0	0.8	0.5	C
LYSMD3	1	LysM, putative peptidoglycan-binding, domain containing 3	M	0	2.8	0.4	C
LY6G5C	1	lymphocyte antigen 6 complex, locus G5C	M	0	0.8	0.8	C
LRRC8B	1	leucine rich repeat containing 8 family, member B	M	0	1.1	0.3	C
LRRC38	1	leucine rich repeat containing 38	M	0	1.8	0.8	C
LRRC37A	1	leucine rich repeat containing 37A	M	0	3.5	1.8	C
LRFN4	1	leucine rich repeat and fibronectin type III domain containing 4	M	14	0.8	1.4	C
LRCH1	1	leucine-rich repeats and calponin homology (CH) domain containing 1	M	0	1.2	0.3	C
LPPR4	1	lipid phosphate phosphatase-related protein type 4	M	0	0.8	2.8	C
LOC147670	1	hypothetical protein LOC147670	M	0	0.5	0.5	C
LOC100509247	1	hypothetical protein LOC100509247	M	0	0.8	0.2	C
LOC100507050	1	hypothetical LOC100507050	M	0	0.8	1.2	C
LOC100506250	1	NPIP-like protein 1-like	M	0	0.8	0	C
LMLN	1	leishmanolysin-like (metallopeptidase M8 family)	M	0	2.2	0.1	C
LILRB3	1	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3	M	5	3.7	0.3	C
LHFP	1	lipoma HMGIC fusion partner	M	0	2.8	0.3	C
LETM1	1	leucine zipper-EF-hand containing transmembrane protein 1	M	20	3.4	0.2	C
LEPR	1	leptin receptor	M	10	1.3	0.6	C

LEMD3	1	LEM domain containing 3	M	0	0.6	0.3	C
LEMD2	1	LEM domain containing 2	M	10	3	0.7	C
KRTCAP2	1	keratinocyte associated protein 2	M	0	0.9	0.9	C
KLRC2	1	killer cell lectin-like receptor subfamily C, member 2	M	0	0.8	5.5	C
KIAA1549	1	KIAA1549	M	22	0.9	0.1	C
KIAA1324	1	KIAA1324	M	20	0.1	0.3	C
KCNMB3	1	potassium large conductance calcium-activated channel, subfamily M beta member 3	M	0	4.3	5.6	C
KCNK2	1	potassium channel, subfamily K, member 2	M	9	2.3	0.8	C
KCNH7	1	potassium voltage-gated channel, subfamily H (eag-related), member 7	M	15	0.8	5	C
JKAMP	1	JNK1/MAPK8-associated membrane protein	M	8	1.4	0.7	C
JAG1	1	jagged 1	M	32	0.5	2	C
ITGA10	1	integrin, alpha 10	M	22	4.9	0.8	C
ITFG1	1	integrin alpha FG-GAP repeat containing 1	M	0	0.3	0.1	C
ISLR2	1	immunoglobulin superfamily containing leucine-rich repeat 2	M	0	0.8	1.5	C
IL13RA1	1	interleukin 13 receptor, alpha 1	M	10	0.4	0.5	C
IL12RB2	1	interleukin 12 receptor, beta 2	M	5	0.8	1.8	C
IL12RB1	1	interleukin 12 receptor, beta 1	M	5	0.2	0.2	C
IL12B	1	interleukin 12B (natural killer cell stimulatory factor 2, cytotoxic lymphocyte maturation factor 2, p40)	M	12	0.8	0.8	C
IGSF1	1	immunoglobulin superfamily, member 1	M	0	0.8	1.7	C
IFNGR1	1	interferon gamma receptor 1	M	12	2.6	0.4	C
HTR2A	1	5-hydroxytryptamine (serotonin) receptor 2A	M	4	0.8	0.9	C
HRH4	1	histamine receptor H4	M	10	2.7	1.8	C
HIATL1	1	hippocampus abundant transcript-like 1	M	0	0.3	0.8	C
HERPUD2	1	HERPUD family member 2	M	0	1.6	1.5	C

GYPE	1	glycophorin E (MNS blood group)	M	8	2.8	0.5	C
GRIN3A	1	glutamate receptor, ionotropic, N-methyl-D-aspartate 3A	M	8	1.8	2.8	C
GRIA3	1	glutamate receptor, ionotropic, AMPA 3	M	6	1.8	0.9	C
GPR63	1	G protein-coupled receptor 63	M	0	2.7	1.2	C
GPR37L1	1	G protein-coupled receptor 37 like 1	M	14	0.1	0.9	C
GPR173	1	G protein-coupled receptor 173	M	0	0.8	0.6	C
GPR171	1	G protein-coupled receptor 171	M	0	2.7	0	C
GPR155	1	G protein-coupled receptor 155	M	0	1.3	0.9	C
GPR12	1	G protein-coupled receptor 12	M	14	0.8	1.2	C
GLT8D1	1	glycosyltransferase 8 domain containing 1	M	0	1.4	0.9	C
GLG1	1	golgi glycoprotein 1	M	38	1.2	0.5	C
GJD4	1	gap junction protein, delta 4, 40.1kDa	M	0	2.7	4.3	C
GJD3	1	gap junction protein, delta 3, 31.9kDa	M	13	0.8	1.4	C
GDPD2	1	glycerophosphodiester phosphodiesterase domain containing 2	M	11	2.3	2	C
GALNT4	1	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 4 (GalNAc-T4)	M	14	0.7	0.4	C
FZD8	1	frizzled family receptor 8	M	11	0.8	0.8	C
FUT4	1	fucosyltransferase 4 (alpha (1,3) fucosyltransferase, myeloid-specific)	M	34	0.8	1.9	C
FPR3	1	formyl peptide receptor 3	M	5	0.8	2	C
FNDC3B	1	fibronectin type III domain containing 3B	M	7	1	0.6	C
FER1L5	1	fer-1-like 5 (C. elegans)	M	0	0.8	4.3	C
FCRL6	1	Fc receptor-like 6	M	0	0.8	2.8	C
FAM57A	1	family with sequence similarity 57, member A	M	22	1.1	0.9	C
FAM24B	1	family with sequence similarity 24, member B	M	0	3.5	2.4	C
FAM19A1	1	family with sequence similarity 19 (chemokine (C-C motif)-like), member A1	M	0	0.8	0.4	C
FAM18A	1	family with sequence similarity 18, member A	M	0	0.8	1.4	C
FAM174B	1	family with sequence similarity 174, member B	M	0	3.3	1.4	C

FAM163 A	1	family with sequence similarity 163, member A	M	17	0.8	5	C
FAM134 C	1	family with sequence similarity 134, member C	M	0	0.1	0.4	C
FAM134 A	1	family with sequence similarity 134, member A	M	10	1.2	0.1	C
FAM105 A	1	family with sequence similarity 105, member A	M	0	3.5	0.5	C
EXTL2	1	exostoses (multiple)-like 2	M	33	0.5	0.6	C
ENPP5	1	ectonucleotide pyrophosphatase/phosphodiesterase 5 (putative)	M	0	0.8	0.9	C
ELFN2	1	extracellular leucine-rich repeat and fibronectin type III domain containing 2	M	0	0.8	6.1	C
EFNA2	1	ephrin-A2	M	19	1.8	1.8	C
DPY19L1	1	dpy-19-like 1 (C. elegans)	M	0	4.9	0.2	C
DLL1	1	delta-like 1 (Drosophila)	M	19	0.8	1.8	C
DISP2	1	dispatched homolog 2 (Drosophila)	M	17	0.8	2.2	C
DISP1	1	dispatched homolog 1 (Drosophila)	M	9	3.5	1.9	C
DEXI	1	Dexi homolog (mouse)	M	0	3	0.5	C
CYSLTR1	1	cysteinyl leukotriene receptor 1	M	10	0.8	2.8	C
CTLA4	1	cytotoxic T-lymphocyte-associated protein 4	M	6	2.3	0.7	C
CSPG5	1	chondroitin sulfate proteoglycan 5 (neuroglycan C)	M	11	2.3	1.8	C
CSMD3	1	CUB and Sushi multiple domains 3	M	25	0.8	5.8	C
CSMD1	1	CUB and Sushi multiple domains 1	M	26	2.3	1.2	C
CSF2RB	1	colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage)	M	7	3.9	0.8	C
CMKLR1	1	chemokine-like receptor 1	M	15	0.8	0.5	C
CLEC4C	1	C-type lectin domain family 4, member C	M	12	1.8	4.3	C
CLDN15	1	claudin 15	M	47	1.8	0.5	C
CLDN14	1	claudin 14	M	32	0.8	0.8	C
CLCC1	1	chloride channel CLIC-like 1	M	0	0.8	1.1	C

CKLF	1	chemokine-like factor	M	0	1.8	2.3	C
CHRNA5	1	cholinergic receptor, nicotinic, alpha 5	M	6	4.4	1.2	C
CHODL	1	chondrolectin	M	22	2.7	0.6	C
CEACAM 21	1	carcinoembryonic antigen-related cell adhesion molecule 21	M	0	0.8	3.7	C
CDSN	1	corneodesmosin	M	0	1.8	4.7	C
CDH23	1	cadherin-related 23	M	0	0.6	2.5	C
CD96	1	CD96 molecule	M	20	0.8	1.3	C
CD8A	1	CD8a molecule	M	9	2.3	0.8	C
CD46	1	CD46 molecule, complement regulatory protein	M	12	1.3	0.2	C
CD2	1	CD2 molecule	M	10	0.5	2.9	C
CD163L1	1	CD163 molecule-like 1	M	0	6.3	4.7	C
CD101	1	CD101 molecule	M	6	2.3	1.4	C
CCRL2	1	chemokine (C-C motif) receptor-like 2	M	0	2.7	5	C
CCL22	1	chemokine (C-C motif) ligand 22	M	19	4.5	0.5	C
CCDC56	1	coiled-coil domain containing 56	M	0	0.1	0.8	C
CCDC167	1	coiled-coil domain containing 167	M	25	2.6	1.4	C
CCDC126	1	coiled-coil domain containing 126	M	0	1	0.3	C
CCDC112	1	coiled-coil domain containing 112	M	0	4.7	2.4	C
CACNG8	1	calcium channel, voltage-dependent, gamma subunit 8	M	0	0.3	1.2	C
CACNG2	1	calcium channel, voltage-dependent, gamma subunit 2	M	0	3.3	0.7	C
C7orf44	1	chromosome 7 open reading frame 44	M	0	0.3	0.1	C
C7orf23	1	chromosome 7 open reading frame 23	M	14	1.6	0.2	C
C6orf57	1	chromosome 6 open reading frame 57	M	0	2.3	0.6	C
C5orf28	1	chromosome 5 open reading frame 28	M	0	0.2	1.2	C
C3orf45	1	chromosome 3 open reading frame 45	M	0	2.3	0.4	C
C3orf18	1	chromosome 3 open reading frame 18	M	0	0.8	0.7	C
C2orf83	1	chromosome 2 open reading frame 83	M	0	0.9	5	C

C2CD2	1	C2 calcium-dependent domain containing 2	M	17	0.5	0.2	C
C1orf115	1	chromosome 1 open reading frame 115	M	0	0.6	0.4	C
C19orf18	1	chromosome 19 open reading frame 18	M	0	0.8	3.7	C
C17orf61	1	chromosome 17 open reading frame 61	M	20	0.1	1.6	C
C15orf24	1	chromosome 15 open reading frame 24	M	0	0.1	0.5	C
C14orf13	1	chromosome 14 open reading frame 135	M	0	1.6	1.2	C
5							
C14orf10	1	chromosome 14 open reading frame 101	M	0	2.7	0.2	C
1							
C10orf11	1	chromosome 10 open reading frame 111	M	0	0.2	0.3	C
1							
BTNL9	1	butyrophilin-like 9	M	0	1.8	1	C
BTN3A2	1	butyrophilin, subfamily 3, member A2	M	8	1.1	0	C
BSND	1	Bartter syndrome, infantile, with sensorineural deafness (Barttin)	M	9	0.8	1.2	C
B3GALT2	1	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide	M	7	3	1	C
2							
ATP11C	1	ATPase, class VI, type 11C	M	18	0.3	0.7	C
ATG9B	1	ATG9 autophagy related 9 homolog B (<i>S. cerevisiae</i>)	M	29	2.3	2.4	C
ART3	1	ADP-ribosyltransferase 3	M	6	0.8	1.1	C
ARSK	1	arylsulfatase family, member K	M	0	3.7	0.9	C
ARMCX6	1	armadillo repeat containing, X-linked 6	M	14	1.2	0.3	C
ANO6	1	anoctamin 6	M	7	1.5	0.8	C
ADRA1B	1	adrenergic, alpha-1B-, receptor	M	13	0.8	1.2	C
ADCY9	1	adenylate cyclase 9	M	3	1.8	0.6	C
ADCY8	1	adenylate cyclase 8 (brain)	M	5	3.7	1.7	C
ADCY6	1	adenylate cyclase 6	M	16	0.9	0.3	C
ADCY3	1	adenylate cyclase 3	M	5	0.2	1.5	C
ADAM19	1	ADAM metalloproteinase domain 19	M	22	4.2	2.2	C
ACVR1B	1	activin A receptor, type IB	M	15	4.4	0.3	C
ZMYM6N	1	ZMYM6 neighbor	M	0	6.33	-2.06	R

B								
TTYH3	1	tweety homolog 3 (Drosophila)	M	0	-1.88	0.88	R	
TNFRSF10B	1	tumor necrosis factor receptor superfamily, member 10b	M	60	-0.74	-0.44	R	
TMX1	1	thioredoxin-related transmembrane protein 1	M	6	0.62	-1.2	R	
TMTC3	1	transmembrane and tetratricopeptide repeat containing 3	M	0	4.25	-1.06	R	
TMEM41	1	transmembrane protein 41B	M	0	2.56	-0.53	R	
B								
TMEM212	1	transmembrane protein 212	M	0	-2.53	0.14	R	
TMEM167B	1	transmembrane protein 167B	M	0	1.88	-0.18	R	
TM4SF1	1	transmembrane 4 L six family member 1	M	32	0.88	-1.05	R	
SLC38A2	1	solute carrier family 38, member 2	M	6	1.51	-0.26	R	
RIT1	1	Ras-like without CAAX 1	M	11	3.64	0.19	R	
RELL1	1	RELT-like 1	M	11	7.74	-1.4	R	
REEP3	1	receptor accessory protein 3	M	0	5.53	-2.05	R	
OST4	1	oligosaccharyltransferase 4 homolog (S. cerevisiae)	M	20	2.59	-0.6	R	
OPN1SW	1	opsin 1 (cone pigments), short-wave-sensitive	M	0	1.75		R	
MYOF	1	myoferlin	M	14	-0.21	-0.89	R	
MBOAT1	1	membrane bound O-acyltransferase domain containing 1	M	0	1.83	-1.15	R	
MARCH7	1	membrane-associated ring finger (C3HC4) 7	M	6	-0.79	-0.62	R	
MARCH2	1	membrane-associated ring finger (C3HC4) 2	M	8	1.75	-0.34	R	
KCNJ2	1	potassium inwardly-rectifying channel, subfamily J, member 2	M	7	4.95	-2.2	R	
ITM2A	1	integral membrane protein 2A	M	11	5.24	-1.01	R	
IL28RA	1	interleukin 28 receptor, alpha (interferon, lambda receptor)	M	10	0.09	-0.39	R	
IL17RD	1	interleukin 17 receptor D	M	22	-1.24	-0.62	R	
FAM18B1	1	family with sequence similarity 18, member B1	M	0	-0.33	-1.88	R	
FAM176	1	family with sequence similarity 176, member B	M	0		0.68	R	

B								
FADS3	1	fatty acid desaturase 3	M	29	-4.59	2.92	R	
COL13A1	1	collagen, type XIII, alpha 1	M	9	3.7	1.24	R	
CLIC1	1	chloride intracellular channel 1	M	14	1.6	0	R	
CDK7	1	cyclin-dependent kinase 7	M	5	0.56	-1.09	R	
CAV2	1	caveolin 2	M	21	3.17	-0.54	R	
C2orf18	1	chromosome 2 open reading frame 18	M	0	5.87	-0.61	R	
ADRB1	1	adrenergic, beta-1-, receptor	M	11	6.14	-0.7	R	
TMPRSS1 3	1	transmembrane protease, serine 13	M	13	-2.64	1.26	L	
SYNDIG1	1	synapse differentiation inducing 1	M	0		0.48	L	
STYK1	1	serine/threonine/tyrosine kinase 1	M	6	-0.52	-2.26	L	
STX1A	1	syntaxin 1A (brain)	M	1	-1.68	2.51	L	
STEAP2	1	STEAP family member 2, metalloreductase	M	20	2.87	-1.53	L	
SLC35B2	1	solute carrier family 35, member B2	M	7	-0.35	0.85	L	
SLC2A5	1	solute carrier family 2 (facilitated glucose/fructose transporter), member 5	M	16	-7.59	-0.21	L	
SLC12A8	1	solute carrier family 12 (potassium/chloride transporters), member 8	M	0	-1.85	-0.7	L	
RELT	1	RELT tumor necrosis factor receptor	M	30	-3.92	1.41	L	
RCCD1	1	RCC1 domain containing 1	M	0	-5.11	1.85	L	
RAB26	1	RAB26, member RAS oncogene family	M	17		2.44	L	
PLXNA3	1	plexin A3	M	21	-8.31	1.25	L	
OR8B8	1	olfactory receptor, family 8, subfamily B, member 8	M	0			L	
KREMEN 2	1	kringle containing transmembrane protein 2	M	0	0.82	-0.7	L	
KIAA171 5	1	KIAA1715	M	0	-0.34	-0.13	L	
HMMR	1	hyaluronan-mediated motility receptor (RHAMM)	M	36	4.86	1.59	L	
ARMC10	1	armadillo repeat containing 10	M	7	-0.66	0.11	L	

ABCA12	1	ATP-binding cassette, sub-family A (ABC1), member 12	M	0		-6.38	L
VSIG4	1	V-set and immunoglobulin domain containing 4	M	0	-7.03	0.97	P
VNN2	1	vanin 2	M	12	-6.1	0.79	P
VNN1	1	vanin 1	M	0	-4.14	-2.74	P
VASN	1	vasorin	M	14	-6.1	-1.02	P
UNC5C	1	unc-5 homolog C (C. elegans)	M	20		-0.44	P
TUSC5	1	tumor suppressor candidate 5	M	67		-4.16	P
TSPAN7	1	tetraspanin 7	M	7	0.06	-0.14	P
TNFRSF6	1	tumor necrosis factor receptor superfamily, member 6b, decoy	M	46		3.97	P
B							
TMPRSS6	1	transmembrane protease, serine 6	M	15		-0.04	P
TMEM2	1	transmembrane protein 2	M	0	0.24	-0.17	P
TMEM16	1	transmembrane protein 167A	M	0	-1.38	0.28	P
7A							
TMCO1	1	transmembrane and coiled-coil domains 1	M	5	-0.24	-0.88	P
TLCD2	1	TLC domain containing 2	M	0	0.3	-0.31	P
TGFBR3	1	transforming growth factor, beta receptor III	M	22	-0.46	-1.37	P
TGFBI	1	transforming growth factor, beta-induced, 68kDa	M	10	-4.58	1.47	P
STT3A	1	STT3, subunit of the oligosaccharyltransferase complex, homolog A (S. cerevisiae)	M	0	3.5	-0.25	P
STOM	1	stomatin	M	0	1.66	-1.22	P
ST3GAL4	1	ST3 beta-galactoside alpha-2,3-sialyltransferase 4	M	6	-6.1	-0.57	P
SORCS2	1	sortilin-related VPS10 domain containing receptor 2	M	9		-0.14	P
SLC9A1	1	solute carrier family 9 (sodium/hydrogen exchanger), member 1	M	15	-3.43	0.82	P
SLC5A9	1	solute carrier family 5 (sodium/glucose cotransporter), member 9	M	0		-0.7	P
SLC4A4	1	solute carrier family 4, sodium bicarbonate cotransporter, member 4	M	3	-7.03	-1.31	P
SLC4A10	1	solute carrier family 4, sodium bicarbonate transporter, member 10	M	0		-2.38	P
SLC4A1	1	solute carrier family 4, anion exchanger, member 1 (erythrocyte	M	5	-1.34	0.61	P

		membrane protein band 3, Diego blood group)						
SLC40A1	1	solute carrier family 40 (iron-regulated transporter), member 1	M	10	-0.44	0.21	P	
SLC38A4	1	solute carrier family 38, member 4	M	15	-8.31	-3.63	P	
SLC37A4	1	solute carrier family 37 (glucose-6-phosphate transporter), member 4	M	7	-2.96	-0.75	P	
SLC2A2	1	solute carrier family 2 (facilitated glucose transporter), member 2	M	7	-8.31	-1.79	P	
SLC26A2	1	solute carrier family 26 (sulfate transporter), member 2	M	3	-0.33	0.06	P	
SLC26A1	1	solute carrier family 26 (sulfate transporter), member 1	M	25	0.82	-0.7	P	
SLC1A4	1	solute carrier family 1 (glutamate/neutral amino acid transporter), member 4	M	3	-2.9	0.58	P	
SLC16A2	1	solute carrier family 16, member 2 (monocarboxylic acid transporter 8)	M	0	-1.44	-0.18	P	
SIRPA	1	signal-regulatory protein alpha	M	22	-0.66	-0.45	P	
SEMA4G	1	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4G	M	0	-4.14	-0.12	P	
SDK1	1	sidekick homolog 1, cell adhesion molecule (chicken)	M	0	1.75	-0.38	P	
RTN3	1	reticulon 3	M	7	-1.04	0.19	P	
ROR2	1	receptor tyrosine kinase-like orphan receptor 2	M	19		0.29	P	
ROR1	1	receptor tyrosine kinase-like orphan receptor 1	M	18	-2.64	-1.26	P	
ROBO2	1	roundabout, axon guidance receptor, homolog 2 (Drosophila)	M	7		-0.12	P	
RIMS2	1	regulating synaptic membrane exocytosis 2	M	0		0.02	P	
RHAG	1	Rh-associated glycoprotein	M	0	-5.98	2.76	P	
RARRES1	1	retinoic acid receptor responder (tazarotene induced) 1	M	33	-9.43	-1.33	P	
PVRL1	1	poliovirus receptor-related 1 (herpesvirus entry mediator C)	M	10	-8.31	0.61	P	
PTPRU	1	protein tyrosine phosphatase, receptor type, U	M	8	-6.1	-0.53	P	
PTPRS	1	protein tyrosine phosphatase, receptor type, S	M	9	2.31	-0.6	P	
PTPRO	1	protein tyrosine phosphatase, receptor type, O	M	34	-7.03	0.03	P	
PTPRK	1	protein tyrosine phosphatase, receptor type, K	M	29	-0.62	-0.52	P	
PTPRG	1	protein tyrosine phosphatase, receptor type, G	M	31	3.87	-0.7	P	
PTPRC	1	protein tyrosine phosphatase, receptor type, C	M	8	-8.31	0.35	P	

PROM1	1	prominin 1	M	51	-9.43	-0.38	P
PLXNB2	1	plexin B2	M	4	-6.28	0.94	P
PLXNA1	1	plexin A1	M	26	-7.03	-0.36	P
PDGFRB	1	platelet-derived growth factor receptor, beta polypeptide	M	30	-8.79	0.33	P
PDGFRA	1	platelet-derived growth factor receptor, alpha polypeptide	M	49	-4.54	1.4	P
PCDHGC3	1	protocadherin gamma subfamily C, 3	M	7		2.08	P
PCDHB3	1	protocadherin beta 3	M	13		1.2	P
PCDH9	1	protocadherin 9	M	13	-1.36	-1.68	P
PCDH19	1	protocadherin 19	M	5		-1.98	P
PCDH18	1	protocadherin 18	M	13	-8.31	1.66	P
PCDH11X	1	protocadherin 11 X-linked	M	7	0.08	-0.62	P
P2RX1	1	purinergic receptor P2X, ligand-gated ion channel, 1	M	11	0.24	-4.16	P
OPCML	1	opioid binding protein/cell adhesion molecule-like	M	35		-3.58	P
ODZ4	1	odz, odd Oz/ten-m homolog 4 (Drosophila)	M	0		2.63	P
NTRK3	1	neurotrophic tyrosine kinase, receptor, type 3	M	20	-6.1	0.15	P
NTNG1	1	netrin G1	M	4	0.9	-2.38	P
NTM	1	neurotrimin	M	19		0.86	P
NRXN1	1	neurexin 1	M	0	-6.1	0.76	P
NOTCH2	1	notch 2	M	21	-2.98	-0.02	P
NLGN3	1	neuroligin 3	M	0	-2.64	1.55	P
NFASC	1	neurofascin	M	0		0.49	P
NEO1	1	neogenin 1	M	18	-8	0.88	P
NAALADL2	1	N-acetylated alpha-linked acidic dipeptidase-like 2	M	20	-6.1	-3.17	P
NAALAD2	1	N-acetylated alpha-linked acidic dipeptidase 2	M	11	1.75	-0.87	P
MXRA8	1	matrix-remodelling associated 8	M	14	-6.1	-0.44	P
MST1R	1	macrophage stimulating 1 receptor (c-met-related tyrosine kinase)	M	39	-6.1	1.84	P

MME	1	membrane metallo-endopeptidase	M	26	-3.2	-1.84	P
MET	1	met proto-oncogene (hepatocyte growth factor receptor)	M	44	-0.82	0.18	P
MDGA1	1	MAM domain containing glycosylphosphatidylinositol anchor 1	M	22		0.75	P
MAMDC 4	1	MAM domain containing 4	M	0	-6.1	-0.7	P
LSAMP	1	limbic system-associated membrane protein	M	31		0.18	P
LRRC4C	1	leucine rich repeat containing 4C	M	0		6.33	P
LRRC15	1	leucine rich repeat containing 15	M	22		2.76	P
LRPAP1	1	low density lipoprotein receptor-related protein associated protein 1	M	12	0.01	-0.08	P
LRP2	1	low density lipoprotein receptor-related protein 2	M	6		-1.57	P
LRP1	1	low density lipoprotein receptor-related protein 1	M	18	-8	0.51	P
LRIG1	1	leucine-rich repeats and immunoglobulin-like domains 1	M	57	-2.33	0.88	P
LPHN3	1	latrophilin 3	M	0		-1.02	P
LPHN2	1	latrophilin 2	M	14	1.93	-0.8	P
LOC100652938	1	macrophage mannose receptor 1-like	M	0	7.72	-1.86	P
LMF2	1	lipase maturation factor 2	M	0	-2.08	-0.38	P
LMAN1	1	lectin, mannose-binding, 1	M	10	-0.74	-0.62	P
LCAT	1	lecithin-cholesterol acyltransferase	M	10	1.75	-1.7	P
LBR	1	lamin B receptor	M	2	0.64	-0.65	P
LAMP1	1	lysosomal-associated membrane protein 1	M	17	-1.7	0.68	P
KIAA1161	1	KIAA1161	M	33	-0.74	0.13	P
KCNH1	1	potassium voltage-gated channel, subfamily H (eag-related), member 1	M	24		-5.66	P
ITGB5	1	integrin, beta 5	M	33	-0.22	-0.19	P
ITGB2	1	integrin, beta 2 (complement component 3 receptor 3 and 4 subunit)	M	24	-9.78	0.95	P
ITGA9	1	integrin, alpha 9	M	35	0.82	-0.29	P

ITGA8	1	integrin, alpha 8	M	4		-2.06	P
ITGA3	1	integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor)	M	28		-11.05	0.29 P
ITGA2	1	integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)	M	25		0.1	-0.95 P
ITFG3	1	integrin alpha FG-GAP repeat containing 3	M	0		-5.11	0.13 P
IGSF3	1	immunoglobulin superfamily, member 3	M	0		-5.52	-0.62 P
HLA-DPB1	1	major histocompatibility complex, class II, DP beta 1	M	5		-7.93	-0.3 P
HHLA2	1	HERV-H LTR-associating 2	M	0			0.15 P
HEPH	1	hephaestin	M	0		-0.74	0.22 P
GRM7	1	glutamate receptor, metabotropic 7	M	4			-0.14 P
GRID1	1	glutamate receptor, ionotropic, delta 1	M	0			-1.28 P
GPA33	1	glycoprotein A33 (transmembrane)	M	23			2.4 P
GGT1	1	gamma-glutamyltransferase 1	M	14		-7.03	-1.6 P
GFRA2	1	GDNF family receptor alpha 2	M	4			-0.13 P
FZD1	1	frizzled family receptor 1	M	14		-1.09	-0.12 P
FREM2	1	FRAS1 related extracellular matrix protein 2	M	14		2.72	-0.7 P
FRAS1	1	Fraser syndrome 1	M	0		-2.64	0.46 P
FMO3	1	flavin containing monooxygenase 3	M	1		-7.03	-0.51 P
FLT4	1	fms-related tyrosine kinase 4	M	86		-1.71	2.04 P
FAT3	1	FAT tumor suppressor homolog 3 (Drosophila)	M	14		-1.66	-0.92 P
FAS	1	Fas (TNF receptor superfamily, member 6)	M	28		-2.28	0.47 P
FABP2	1	fatty acid binding protein 2, intestinal	M	13		3.03	-0.96 P
EPHA1	1	EPH receptor A1	M	33			-2.09 P
ENTPD2	1	ectonucleoside triphosphate diphosphohydrolase 2	M	0			0.49 P
ENPP4	1	ectonucleotide pyrophosphatase/phosphodiesterase 4 (putative)	M	0			0.94 P
EMB	1	embigin	M	13		-6.1	-0.7 P
EGFR	1	epidermal growth factor receptor	M	33		-5.33	0.73 P
EDNRA	1	endothelin receptor type A	M	81		-8	1.28 P
DPP6	1	dipeptidyl-peptidase 6	M	3		-1.71	1.64 P

DPP4	1	dipeptidyl-peptidase 4	M	16	-3.21	-2.02	P
DPP10	1	dipeptidyl-peptidase 10 (non-functional)	M	2		-0.84	P
DOLPP1	1	dolichyl pyrophosphate phosphatase 1	M	0	-6.1	0.47	P
DHRS7	1	dehydrogenase/reductase (SDR family) member 7	M	0	0.26	-0.4	P
DCBLD1	1	discoidin, CUB and LCCL domain containing 1	M	0	-2.08	0.79	P
DAG1	1	dystroglycan 1 (dystrophin-associated glycoprotein 1)	M	16	-2.54	-0.09	P
CYP4V2	1	cytochrome P450, family 4, subfamily V, polypeptide 2	M	4	-0.76	-0.18	P
CUBN	1	cubilin (intrinsic factor-cobalamin receptor)	M	6	5.44	-3.85	P
CRB2	1	crumbs homolog 2 (Drosophila)	M	11		2.76	P
CR1	1	complement component (3b/4b) receptor 1 (Knops blood group)	M	6	-1.71	-0.7	P
COMTD1	1	catechol-O-methyltransferase domain containing 1	M	0	-4.54	-0.47	P
CNTNAP 5	1	contactin associated protein-like 5	M	0		-0.7	P
CNTN5	1	contactin 5	M	12			P
CNTN3	1	contactin 3 (plasmacytoma associated)	M	7		-2.46	P
CNTN2	1	contactin 2 (axonal)	M	12		-0.55	P
CNTN1	1	contactin 1	M	18	-7.03	-1.38	P
CNTFR	1	ciliary neurotrophic factor receptor	M	3		1.04	P
CNNM2	1	cyclin M2	M	11	-8	0.08	P
CLMP	1	CXADR-like membrane protein	M	18	-3.57	1.51	P
CLEC4M	1	C-type lectin domain family 4, member M	M	27	-1.15	-3.39	P
CDH17	1	cadherin 17, LI cadherin (liver-intestine)	M	41	-6.1	-0.09	P
CDH11	1	cadherin 11, type 2, OB-cadherin (osteoblast)	M	40	-2.64	1.9	P
CDH1	1	cadherin 1, type 1, E-cadherin (epithelial)	M	38	-4.8	0.27	P
CD99	1	CD99 molecule	M	29	-0.13	-0.19	P
CD81	1	CD81 molecule	M	8	-4.38	0.33	P
CD47	1	CD47 molecule	M	22	3.52	-0.23	P
CD40	1	CD40 molecule, TNF receptor superfamily member 5	M	33	-1.49	-0.2	P
CD151	1	CD151 molecule (Raph blood group)	M	33	-5.19	0.34	P

CACNA2D1	1	calcium channel, voltage-dependent, alpha 2/delta subunit 1	M	4	-1.1	1.05	P
CA4	1	carbonic anhydrase IV	M	24		-2.82	P
C9orf30-TMEFF1	1	C9orf30-TMEFF1 readthrough	M	0			P
C8B	1	complement component 8, beta polypeptide	M	7	-8	-0.44	P
C6orf191	1	chromosome 6 open reading frame 191	M	0			P
BTN2A2	1	butyrophilin, subfamily 2, member A2	M	0	0.11	-0.13	P
BST1	1	bone marrow stromal cell antigen 1	M	7	0.21	-3.75	P
BPIFB2	1	BPI fold containing family B, member 2	M	0			P
B4GALT5	1	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 5	M	25	-1.74	0.62	P
ATP2A2	1	ATPase, Ca++ transporting, cardiac muscle, slow twitch 2	M	5	-5.58	-0.4	P
ART1	1	ADP-ribosyltransferase 1	M	0			P
AQPEP	1	laeverin	M	18		0.23	P
AOC3	1	amine oxidase, copper containing 3 (vascular adhesion protein 1)	M	70		0.29	P
ANO4	1	anoctamin 4	M	33		-1.43	P
AGPAT3	1	1-acylglycerol-3-phosphate O-acyltransferase 3	M	6	-3.17	-1.2	P
ABCB11	1	ATP-binding cassette, sub-family B (MDR/TAP), member 11	M	5		4.25	P
ABCA10	1	ATP-binding cassette, sub-family A (ABC1), member 10	M	0		-2.92	P
S1PR3	1	sphingosine-1-phosphate receptor 3	M	37	-1.66	0.76	N
ERRFI1	1	ERBB receptor feedback inhibitor 1	M	31	-2.06	-1.47	N
BAMBI	1	BMP and activin membrane-bound inhibitor homolog (Xenopus laevis)	M	19	-1.68	0.29	N
DARC	1	Duffy blood group, chemokine receptor	M	17		-0.03	N
BIRC6	1	baculoviral IAP repeat containing 6	M	12	-0.21	-0.18	N
TMEM27	1	transmembrane protein 27	M	9	-7.59	-5.09	N
GALNT14	1	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 14 (GalNAc-T14)	M	0	-3.04	-0.89	N
SLC4A11	1	solute carrier family 4, sodium borate transporter, member 11	M	57	0.82	-0.44	N

KCTD11	1	potassium channel tetramerisation domain containing 11	M	44	-2.64	-0.44	N
TPBG	1	trophoblast glycoprotein	M	41	-2.42	-0.05	N
CLDN10	1	claudin 10	M	41	-0.42	-1.44	N
CLCA2	1	chloride channel accessory 2	M	39	-7.03	-1.02	N
MUC1	1	mucin 1, cell surface associated	M	38	-9.56	0.72	N
IER3	1	immediate early response 3	M	35	-3.37	-0.19	N
CXorf61	1	chromosome X open reading frame 61	M	33	0.82		N
CLDN4	1	claudin 4	M	32	-9.3	-0.92	N
CEACAM6	1	carcinoembryonic antigen-related cell adhesion molecule 6 (non-specific cross reacting antigen)	M	32	-7.59	0.97	N
SDC4	1	syndecan 4	M	32	-0.96	-1.65	N
MAL2	1	mal, T-cell differentiation protein 2 (gene/pseudogene)	M	26	-3.61	1.49	N
F2RL1	1	coagulation factor II (thrombin) receptor-like 1	M	25	-1.8	-0.17	N
ABCG2	1	ATP-binding cassette, sub-family G (WHITE), member 2	M	21	-3.61	0.39	N
C3orf52	1	chromosome 3 open reading frame 52	M	20	-7.03	-0.29	N
NOX5	1	NADPH oxidase, EF-hand calcium binding domain 5	M	20		0.79	N
CXCL9	1	chemokine (C-X-C motif) ligand 9	M	18		0.2	N
GPRC5A	1	G protein-coupled receptor, family C, group 5, member A	M	17	-3.88	1.07	N
MUC20	1	mucin 20, cell surface associated	M	17	-2.24	0.26	N
MS4A1	1	membrane-spanning 4-domains, subfamily A, member 1	M	13	-6.1	1.26	N
ADRA2B	1	adrenergic, alpha-2B-, receptor	M	13		-2.6	N
GP1BB	1	glycoprotein Ib (platelet), beta polypeptide	M	12		7.83	N
PROM2	1	prominin 2	M	11	0.82	-0.22	N
TSPAN6	1	tetraspanin 6	M	8	0.21	-0.49	N
PAQR7	1	progesterone and adipoQ receptor family member VII	M	8	1.23	-0.01	N
RNF128	1	ring finger protein 128	M	6	-11.21	-0.36	N
SLC6A8	1	solute carrier family 6 (neurotransmitter transporter, creatine), member 8	M	3	-3.61	0.26	N
DNAJA4	1	DnaJ (Hsp40) homolog, subfamily A, member 4	M	0	-3.57	-1.31	N
GDPD5	1	glycerophosphodiester phosphodiesterase domain containing 5	M	0	-2.64	-0.25	N

C20orf24	1	chromosome 20 open reading frame 24	M	0	-1.78	0.35	N
TMEM116	1	transmembrane protein 116	M	0	0.82	-0.99	N
MPZL3	1	myelin protein zero-like 3	M	0		-0.7	N
GPR157	1	G protein-coupled receptor 157	M	0			N
TNFRSF12A	1	tumor necrosis factor receptor superfamily, member 12A	M	65	-3.61	-0.29	N
CLDN9	1	claudin 9	M	55		1.51	N
TNFRSF10A	1	tumor necrosis factor receptor superfamily, member 10a	M	54	-0.24	0.23	N
PDZK1IP1	1	PDZK1 interacting protein 1	M	50	-9.3	-1.65	N
PMEPA1	1	prostate transmembrane protein, androgen induced 1	M	50	-5.11	0.06	N
CLDN7	1	claudin 7	M	48	-2.64	-0.2	N
MADCAM1	1	mucosal vascular addressin cell adhesion molecule 1	M	46	-6.1	4.97	N
PCDH10	1	protocadherin 10	M	46	0.82	-0.25	N
ST7	1	suppression of tumorigenicity 7	M	46	2.57	-0.49	N
GBP5	1	guanylate binding protein 5	M	42	-2.64	-0.83	N
MUC4	1	mucin 4, cell surface associated	M	38	-8.31	0.05	N
GJA4	1	gap junction protein, alpha 4, 37kDa	M	37	3.7	-1.02	N
CDH3	1	cadherin 3, type 1, P-cadherin (placental)	M	36	-8.98	-0.31	N
RARRES3	1	retinoic acid receptor responder (tazarotene induced) 3	M	36		-0.01	N
SSTR1	1	somatostatin receptor 1	M	35		1.41	N
TMPRSS2	1	transmembrane protease, serine 2	M	33	-6.1	-0.21	N
MSMP	1	microseminoprotein, prostate associated	M	33	-4.14	0.27	N
TMEM120A	1	transmembrane protein 120A	M	33	-2.64	-0.7	N
PVRL4	1	poliovirus receptor-related 4	M	33	-1.44	-0.51	N
ADAM23	1	ADAM metallopeptidase domain 23	M	33	0.82	-0.7	N

ABCC6	1	ATP-binding cassette, sub-family C (CFTR/MRP), member 6	M	33		-1.23	N
XKRX	1	XK, Kell blood group complex subunit-related, X-linked	M	33		1.2	N
HAS3	1	hyaluronan synthase 3	M	32	-7.03	3.34	N
PERP	1	PERP, TP53 apoptosis effector	M	32	-2.16	0.09	N
CLDN12	1	claudin 12	M	32	-0.37	-0.53	N
CLDN23	1	claudin 23	M	30	-7.03	1.92	N
GPR87	1	G protein-coupled receptor 87	M	30	-6.1	-0.39	N
PODXL2	1	podocalyxin-like 2	M	30		2.18	N
ST7L	1	suppression of tumorigenicity 7 like	M	29	0.82	-0.2	N
CLDN18	1	claudin 18	M	29	3.29	-0.06	N
CYP4Z1	1	cytochrome P450, family 4, subfamily Z, polypeptide 1	M	29		2.76	N
FERMT3	1	fermitin family member 3	M	28	-6.33	1.41	N
PVR	1	poliovirus receptor	M	28	-0.57	-0.04	N
TNFRSF4	1	tumor necrosis factor receptor superfamily, member 4	M	28		4.97	N
PPAP2C	1	phosphatidic acid phosphatase type 2C	M	27	-9.43	0.4	N
PPAP2A	1	phosphatidic acid phosphatase type 2A	M	27	1.09	-0.83	N
TMPRSS4	1	transmembrane protease, serine 4	M	27		0.03	N
FGFR1	1	fibroblast growth factor receptor 1	M	26	-2.13	0.16	N
LGR5	1	leucine-rich repeat containing G protein-coupled receptor 5	M	26		-5.09	N
TMEM54	1	transmembrane protein 54	M	25	-6.1	1.24	N
MARCH9	1	membrane-associated ring finger (C3HC4) 9	M	25	-2.64	1.52	N
GDE1	1	glycerophosphodiester phosphodiesterase 1	M	25	0.19	-0.29	N
SPNS2	1	spinster homolog 2 (Drosophila)	M	25	2.31	-0.12	N
SIRPB2	1	signal-regulatory protein beta 2	M	25	2.72	-1.26	N
CYP4Z2P	1	cytochrome P450, family 4, subfamily Z, polypeptide 2 pseudogene	M	25		-5.66	N
CDH8	1	cadherin 8, type 2	M	25			N
ASTL	1	astacin-like metallo-endopeptidase (M12 family)	M	25			N
PTGER2	1	prostaglandin E receptor 2 (subtype EP2), 53kDa	M	24	-6.1	4.97	N

DDR1	1	discoidin domain receptor tyrosine kinase 1	M	24	-5.69	0.78	N
IRAK2	1	interleukin-1 receptor-associated kinase 2	M	24	3.7	0.85	N
BCAM	1	basal cell adhesion molecule (Lutheran blood group)	M	24		0.9	N
AGTR1	1	angiotensin II receptor, type 1	M	23		-2.1	N
FLVCR2	1	feline leukemia virus subgroup C cellular receptor family, member 2	M	23		0.2	N
ROS1	1	c-ros oncogene 1 , receptor tyrosine kinase	M	23		4.25	N
OR51E1	1	olfactory receptor, family 51, subfamily E, member 1	M	22		0.4	N
SLC7A1	1	solute carrier family 7 (cationic amino acid transporter, y+ system), member 1	M	21	-4.04	2.04	N
AQP5	1	aquaporin 5	M	21		-2.11	N
CERCAM	1	cerebral endothelial cell adhesion molecule	M	20	-8	0.43	N
KCNMA1	1	potassium large conductance calcium-activated channel, subfamily M, alpha member 1	M	20	-7.59	-0.51	N
TMEM129	1	transmembrane protein 129	M	20	-3.57	0.18	N
PRR7	1	proline rich 7 (synaptic)	M	20	-1.09	0.6	N
INPP5A	1	inositol polyphosphate-5-phosphatase, 40kDa	M	20	2.72	0.4	N
FGFR2	1	fibroblast growth factor receptor 2	M	20	3.7	-0.39	N
KCNJ8	1	potassium inwardly-rectifying channel, subfamily J, member 8	M	20		-0.89	N
CDHR5	1	cadherin-related family member 5	M	20		-0.57	N
PCDHA1	1	protocadherin alpha 1	M	20		2.76	N
CCR4	1	chemokine (C-C motif) receptor 4	M	20			N
S100A14	1	S100 calcium binding protein A14	M	19	-6.1	0.29	N
IRAK1	1	interleukin-1 receptor-associated kinase 1	M	19	-3.02	0.82	N
C20orf3	1	chromosome 20 open reading frame 3	M	19	-0.95	0.01	N
FNDC4	1	fibronectin type III domain containing 4	M	18	-0.74	0.29	N
FPR2	1	formyl peptide receptor 2	M	18		-4.16	N
RNF43	1	ring finger protein 43	M	18		1.43	N
CXCR6	1	chemokine (C-X-C motif) receptor 6	M	18		3.69	N

RRAD	1	Ras-related associated with diabetes	M	17	-9.67	0.64	N
ZDHC24	1	zinc finger, DHHC-type containing 24	M	17	-7.59	-0.48	N
KRTCAP3	1	keratinocyte associated protein 3	M	17	-6.1	-1.18	N
LMTK3	1	lemur tyrosine kinase 3	M	17	-6.1	0.27	N
WBP1	1	WW domain binding protein 1	M	17	-5.84	0.95	N
SLC6A14	1	solute carrier family 6 (amino acid transporter), member 14	M	17	-3.76	-3.17	N
PVRL2	1	poliovirus receptor-related 2 (herpesvirus entry mediator B)	M	17	-3.62	0.32	N
GPR162	1	G protein-coupled receptor 162	M	17	-3.57	-0.29	N
DUOX2	1	dual oxidase 2	M	17	-2.64	0.29	N
C15orf48	1	chromosome 15 open reading frame 48	M	17	-1.68	0.7	N
TMEM217	1	transmembrane protein 217	M	17	-1.44	-1.64	N
LILRB4	1	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 4	M	17		0.7	N
SEMA6B	1	sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6B	M	17		1.05	N
FZD5	1	frizzled family receptor 5	M	16	-2.19	0.18	N
GOLM1	1	golgi membrane protein 1	M	16	-1.15	-0.09	N
CXCR5	1	chemokine (C-X-C motif) receptor 5	M	16		4.25	N
RGS16	1	regulator of G-protein signaling 16	M	15	-5.69	0.58	N
HTR2B	1	5-hydroxytryptamine (serotonin) receptor 2B	M	15	3.87	-3.75	N
CATSPERB	1	cation channel, sperm-associated, beta	M	14	-6.1	-4.16	N
RAET1L	1	retinoic acid early transcript 1L	M	14	-6.1		N
GRK6	1	G protein-coupled receptor kinase 6	M	14	-5.98	2.62	N
SPRED2	1	sprouty-related, EVH1 domain containing 2	M	14	-2.64	0.34	N
CYB561D1	1	cytochrome b-561 domain containing 1	M	14	-1.85	1.12	N
TMEM99	1	transmembrane protein 99	M	14	-0.74	0.07	N
MGLL	1	monoglyceride lipase	M	14	-0.29	0.13	N

PLXNB3	1	plexin B3	M	14	2.31	1.91	N
PCDHA13	1	protocadherin alpha 13	M	14		-4.16	N
GLP1R	1	glucagon-like peptide 1 receptor	M	14		-2.2	N
GJB5	1	gap junction protein, beta 5, 31.1kDa	M	14		-0.7	N
CD5	1	CD5 molecule	M	14		0.23	N
VIPR1	1	vasoactive intestinal peptide receptor 1	M	14		0.75	N
SCTR	1	secretin receptor	M	14		1.12	N
FCRL5	1	Fc receptor-like 5	M	14		2.18	N
PCDHAC1	1	protocadherin alpha subfamily C, 1	M	14			N
TMEM17 6A	1	transmembrane protein 176A	M	13	-8	-0.55	N
SEMA4A	1	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4A	M	13	-7.03	0.2	N
RHCG	1	Rh family, C glycoprotein	M	13	-6.1	-1.33	N
SLC9A3R 1	1	solute carrier family 9 (sodium/hydrogen exchanger), member 3 regulator 1	M	13	-5.02	0.18	N
NPDC1	1	neural proliferation, differentiation and control, 1	M	13	-4.14	0.41	N
DGKD	1	diacylglycerol kinase, delta 130kDa	M	13	-3.84	0.91	N
FAM189 B	1	family with sequence similarity 189, member B	M	13	-2.07	0.4	N
RNF19B	1	ring finger protein 19B	M	13	-1.44	0.16	N
CACNB2	1	calcium channel, voltage-dependent, beta 2 subunit	M	13	-1.1	-1.5	N
FCGR3A	1	Fc fragment of IgG, low affinity IIIa, receptor (CD16a)	M	13	-0.74	0.16	N
TMEM18 9	1	transmembrane protein 189	M	13	0.56	-0.09	N
GRB10	1	growth factor receptor-bound protein 10	M	13	0.59	0.76	N
DUOX1	1	dual oxidase 1	M	13		-1.06	N
SYT8	1	synaptotagmin VIII	M	13		-0.7	N
B4GALNT 3	1	beta-1,4-N-acetyl-galactosaminyl transferase 3	M	13		-0.38	N

FDCSP	1	follicular dendritic cell secreted protein	M	13		0.27	N
ASPRV1	1	aspartic peptidase, retroviral-like 1	M	13		1.38	N
PCDHB15	1	protocadherin beta 15	M	13		1.51	N
PCDHA7	1	protocadherin alpha 7	M	13		2.76	N
GPR35	1	G protein-coupled receptor 35	M	13		3.69	N
KCNC3	1	potassium voltage-gated channel, Shaw-related subfamily, member 3	M	13			N
ABHD16A	1	abhydrolase domain containing 16A	M	12	-3.92	-0.24	N
ADORA2A	1	adenosine A2a receptor	M	12	-2.64	1.59	N
SLC5A3	1	solute carrier family 5 (sodium/myo-inositol cotransporter), member 3	M	12	-1.65	-0.04	N
MPZL1	1	myelin protein zero-like 1	M	12	-0.97	1.8	N
ORAI3	1	ORAI calcium release-activated calcium modulator 3	M	12	-0.8	1.04	N
CD177	1	CD177 molecule	M	12		-0.6	N
STRA6	1	stimulated by retinoic acid gene 6 homolog (mouse)	M	11	-7.03	2.87	N
NDST1	1	N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 1	M	11	-2.64	0.39	N
SLC23A2	1	solute carrier family 23 (nucleobase transporters), member 2	M	11	-2.08	0.74	N
ABCC3	1	ATP-binding cassette, sub-family C (CFTR/MRP), member 3	M	11	-1.52	0.05	N
HCAR2	1	hydroxycarboxylic acid receptor 2	M	11		0.09	N
PCDHAC2	1	protocadherin alpha subfamily C, 2	M	11		1.05	N
PCDHA10	1	protocadherin alpha 10	M	11		3.69	N
SLC5A4	1	solute carrier family 5 (low affinity glucose cotransporter), member 4	M	11			N
PCDHA8	1	protocadherin alpha 8	M	11			N
DLG3	1	discs, large homolog 3 (Drosophila)	M	10	-7.03	-0.4	N
SLC22A17	1	solute carrier family 22, member 17	M	10	-4.14	0.6	N
IL4R	1	interleukin 4 receptor	M	10	-2.79	1.12	N

TIMMDC 1	1	translocase of inner mitochondrial membrane domain containing 1	M	10	-0.04	-0.12	N
SLC4A5	1	solute carrier family 4, sodium bicarbonate cotransporter, member 5	M	10	1.38	-0.13	N
GPR161	1	G protein-coupled receptor 161	M	10	2.72	-0.7	N
SLC30A2	1	solute carrier family 30 (zinc transporter), member 2	M	10		-4.38	N
SDF2L1	1	stromal cell-derived factor 2-like 1	M	10		-1.09	N
HCAR3	1	hydroxycarboxylic acid receptor 3	M	10		-0.7	N
PCDHA4	1	protocadherin alpha 4	M	10		4.25	N
PCDHA5	1	protocadherin alpha 5	M	10			N
PCDHA3	1	protocadherin alpha 3	M	10			N
PCDHA11	1	protocadherin alpha 11	M	10			N
CD38	1	CD38 molecule	M	9	-7.59	-1.26	N
SIDT2	1	SID1 transmembrane family, member 2	M	9	-2.47	0.97	N
PIGR	1	polymeric immunoglobulin receptor	M	9	-1.24	-1.04	N
WRB	1	tryptophan rich basic protein	M	9	-0.91	-0.04	N
SLC38A1	1	solute carrier family 38, member 1	M	9	-0.08	0.58	N
PCDHA2	1	protocadherin alpha 2	M	9		-4.16	N
ENTPD3	1	ectonucleoside triphosphate diphosphohydrolase 3	M	9		-1.11	N
IL20RA	1	interleukin 20 receptor, alpha	M	9		1.41	N
PCDHB4	1	protocadherin beta 4	M	9		5.81	N
PCDHA12	1	protocadherin alpha 12	M	9			N
SLC34A2	1	solute carrier family 34 (sodium phosphate), member 2	M	8	-8.57	-1.28	N
AQP9	1	aquaporin 9	M	8	-8	1.09	N
SHKBP1	1	SH3KBP1 binding protein 1	M	8	-2.83	1.24	N
C17orf62	1	chromosome 17 open reading frame 62	M	8	-2.32	0.59	N
LYN	1	v-yes-1 Yamaguchi sarcoma viral related oncogene homolog	M	8	-2.19	1.26	N
DSC3	1	desmocollin 3	M	8	-1.49	-0.7	N
GPR126	1	G protein-coupled receptor 126	M	8	-1.44	-0.34	N
ASTN2	1	astrotactin 2	M	8	-0.78	-0.29	N

RHBG	1	Rh family, B glycoprotein (gene/pseudogene)	M	8	0.82	-1.11	N
OSCP1	1	organic solute carrier partner 1	M	8	2.72	-1.39	N
FCGR1B	1	Fc fragment of IgG, high affinity Ib, receptor (CD64)	M	8		-0.14	N
CLEC5A	1	C-type lectin domain family 5, member A	M	8		-0.14	N
PCDHA6	1	protocadherin alpha 6	M	8		2.76	N
SEMA5B	1	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5B	M	8		7.09	N
SLC30A1	1	solute carrier family 30 (zinc transporter), member 1	M	7	-6.1	-0.7	N
FCER1G	1	Fc fragment of IgE, high affinity I, receptor for; gamma polypeptide	M	7	-6.1	0.69	N
MBP	1	myelin basic protein	M	7	-3.2	-2.65	N
FCRL1	1	Fc receptor-like 1	M	7	-2.64	-0.44	N
IL2RA	1	interleukin 2 receptor, alpha	M	7	-1.71	0.49	N
TRPV1	1	transient receptor potential cation channel, subfamily V, member 1	M	7	-0.36	-1.97	N
PIGC	1	phosphatidylinositol glycan anchor biosynthesis, class C	M	7	0.93	-0.52	N
P2RX7	1	purinergic receptor P2X, ligand-gated ion channel, 7	M	7	1.4	-2.21	N
TRPV6	1	transient receptor potential cation channel, subfamily V, member 6	M	7		-2.46	N
CACNA1H	1	calcium channel, voltage-dependent, T type, alpha 1H subunit	M	7		-1.82	N
ITGA7	1	integrin, alpha 7	M	7		-0.81	N
PCDHB10	1	protocadherin beta 10	M	7		5.64	N
CD79A	1	CD79a molecule, immunoglobulin-associated alpha	M	6	-11.82	1.99	N
DIO2	1	deiodinase, iodothyronine, type II	M	6	-8.31	0.24	N
SLC39A8	1	solute carrier family 39 (zinc transporter), member 8	M	6	-6.1	0.76	N
NINJ1	1	ninjurin 1	M	6	-4.14	-0.18	N
GCA	1	grancalcin, EF-hand calcium binding protein	M	6	-2.64	-1.28	N
SLC44A4	1	solute carrier family 44, member 4	M	6	-2.64	-0.59	N

STX4	1	syntaxin 4	M	6	-2.64	-0.24	N
KCNK6	1	potassium channel, subfamily K, member 6	M	6	-0.43	0.6	N
FCRL2	1	Fc receptor-like 2	M	6		-0.7	N
PACSN3	1	protein kinase C and casein kinase substrate in neurons 3	M	5	-7.59	0.46	N
RIC3	1	resistance to inhibitors of cholinesterase 3 homolog (C. elegans)	M	5	-6.1	-1.91	N
GJB2	1	gap junction protein, beta 2, 26kDa	M	5	-6.1	0.29	N
FCGR3B	1	Fc fragment of IgG, low affinity IIIb, receptor (CD16b)	M	5	-6.1	2.14	N
IER3IP1	1	immediate early response 3 interacting protein 1	M	5	-0.82	-1.7	N
PGAM5	1	phosphoglycerate mutase family member 5	M	5	0.4	-1.37	N
OPRK1	1	opioid receptor, kappa 1	M	5	0.82	-0.7	N
P2RY11	1	purinergic receptor P2Y, G-protein coupled, 11	M	5		-5.09	N
KCNJ15	1	potassium inwardly-rectifying channel, subfamily J, member 15	M	5		-1.97	N
SCNN1B	1	sodium channel, nonvoltage-gated 1, beta	M	5		-0.82	N
LIN7A	1	lin-7 homolog A (C. elegans)	M	5		0.27	N
LILRB2	1	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 2	M	5		0.61	N
CD3E	1	CD3e molecule, epsilon (CD3-TCR complex)	M	4	-7.59	0.8	N
SLC4A7	1	solute carrier family 4, sodium bicarbonate cotransporter, member 7	M	4	-3.76	-0.04	N
SLC5A6	1	solute carrier family 5 (sodium-dependent vitamin transporter), member 6	M	4	-2.76	1.86	N
SLC11A2	1	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 2	M	4	-1.7	-0.3	N
SLC26A4	1	solute carrier family 26, member 4	M	4	4.69	-0.7	N
FCER1A	1	Fc fragment of IgE, high affinity I, receptor for; alpha polypeptide	M	4		-3.64	N
RYR2	1	ryanodine receptor 2 (cardiac)	M	4		-2.05	N
KCNQ1	1	potassium voltage-gated channel, KQT-like subfamily, member 1	M	4		0	N
GJB6	1	gap junction protein, beta 6, 30kDa	M	4		0.68	N
SCN8A	1	sodium channel, voltage gated, type VIII, alpha subunit	M	3	-6.1	-2.68	N
VAMP2	1	vesicle-associated membrane protein 2 (synaptobrevin 2)	M	3	-4.14	-0.76	N

SLC15A1	1	solute carrier family 15 (oligopeptide transporter), member 1	M	3	-0.74	-0.89	N
SLC15A2	1	solute carrier family 15 (H+/peptide transporter), member 2	M	3	0.13	-1.56	N
DRD2	1	dopamine receptor D2	M	3		2.87	N
BLK	1	B lymphoid tyrosine kinase	M	2	-8.57	-0.7	N
CD2AP	1	CD2-associated protein	M	2	-0.66	-0.53	N
MAG	1	myelin associated glycoprotein	M	2		-1.59	N
NPC1L1	1	NPC1 (Niemann-Pick disease, type C1, gene)-like 1	M	2		-1.26	N
HTR7	1	5-hydroxytryptamine (serotonin) receptor 7 (adenylate cyclase-coupled)	M	2		0.02	N
NKG7	1	natural killer cell group 7 sequence	M	0	-10.67	0.6	N
MFSD10	1	major facilitator superfamily domain containing 10	M	0	-9.56	0.27	N
C11orf24	1	chromosome 11 open reading frame 24	M	0	-9.15	0.43	N
HLA-DOB	1	major histocompatibility complex, class II, DO beta	M	0	-8.98	0.26	N
KCNAB2	1	potassium voltage-gated channel, shaker-related subfamily, beta member 2	M	0	-8.79	-0.2	N
SLC52A2	1	solute carrier family 52, riboflavin transporter, member 2	M	0	-8.57	-0.07	N
TPRA1	1	transmembrane protein, adipocyte associated 1	M	0	-8.57	0.7	N
REEP4	1	receptor accessory protein 4	M	0	-8	-0.48	N
GPRC5C	1	G protein-coupled receptor, family C, group 5, member C	M	0	-8	-0.45	N
RAB40C	1	RAB40C, member RAS oncogene family	M	0	-8	-0.16	N
RTP4	1	receptor (chemosensory) transporter protein 4	M	0	-7.59	-1.28	N
TMEM16 1A	1	transmembrane protein 161A	M	0	-7.59	-0.2	N
TMEM40	1	transmembrane protein 40	M	0	-7.59	-0.13	N
C19orf24	1	chromosome 19 open reading frame 24	M	0	-7.59	0.73	N
TSPAN17	1	tetraspanin 17	M	0	-7.59	0.87	N
GPR84	1	G protein-coupled receptor 84	M	0	-7.59	5.64	N
LOC7283 92	1	hypothetical protein LOC728392	M	0	-7.03	1.17	N
TMPPE	1	transmembrane protein with metallophosphoesterase domain	M	0	-6.1	-4.16	N

C17orf110	1	chromosome 17 open reading frame 110	M	0	-6.1	-1.67	N
KCTD17	1	potassium channel tetramerisation domain containing 17	M	0	-6.1	-0.96	N
OR2A7	1	olfactory receptor, family 2, subfamily A, member 7	M	0	-6.1	-0.7	N
CDH26	1	cadherin 26	M	0	-6.1	-0.14	N
SLC6A1	1	solute carrier family 6 (neurotransmitter transporter, GABA), member 1	M	0	-6.1	0.55	N
NLGN1	1	neuroligin 1	M	0	-6.1	1.05	N
GPR115	1	G protein-coupled receptor 115	M	0	-6.1		N
GPR110	1	G protein-coupled receptor 110	M	0	-5.52	-1.53	N
SFT2D1	1	SFT2 domain containing 1	M	0	-5.26	0.48	N
MOSPD3	1	motile sperm domain containing 3	M	0	-5.11	0.87	N
LDLRAD3	1	low density lipoprotein receptor class A domain containing 3	M	0	-4.85	6.44	N
PARD3B	1	par-3 partitioning defective 3 homolog B (C. elegans)	M	0	-4.61	-1.43	N
TMEM218	1	transmembrane protein 218	M	0	-4.54	-0.12	N
CD300E	1	CD300e molecule	M	0	-4.4	-0.62	N
SEMA4C	1	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4C	M	0	-4.14	0.18	N
PIGH	1	phosphatidylinositol glycan anchor biosynthesis, class H	M	0	-3.61	-1.38	N
NPIPL3	1	nuclear pore complex interacting protein-like 3	M	0	-3.57	-0.26	N
ATP9B	1	ATPase, class II, type 9B	M	0	-3.57	1.38	N
MARCKSL1	1	MARCKS-like 1	M	0	-3.38	1.74	N
TMEM37	1	transmembrane protein 37	M	0	-3.2	-0.82	N
YIF1B	1	Yip1 interacting factor homolog B (S. cerevisiae)	M	0	-3.2	-0.08	N
PILRB	1	paired immunoglobulin-like type 2 receptor beta	M	0	-3.05	-1.07	N
ZDHHC12	1	zinc finger, DHHC-type containing 12	M	0	-3.04	-0.34	N
CMTM7	1	CKLF-like MARVEL transmembrane domain containing 7	M	0	-3.04	0.85	N
CMTM4	1	CKLF-like MARVEL transmembrane domain containing 4	M	0	-2.96	-0.93	N

KLHL17	1	kelch-like 17 (Drosophila)	M	0	-2.64	-1.11	N
GPR89C	1	G protein-coupled receptor 89C	M	0	-2.64	-1.02	N
JAGN1	1	jagunal homolog 1 (Drosophila)	M	0	-2.64	-0.89	N
TMEM175	1	transmembrane protein 175	M	0	-2.64	-0.85	N
VSIG2	1	V-set and immunoglobulin domain containing 2	M	0	-2.64	-0.63	N
DLGAP4	1	discs, large (Drosophila) homolog-associated protein 4	M	0	-2.64	0.49	N
GPR89A	1	G protein-coupled receptor 89A	M	0	-2.64	0.51	N
TMEM51	1	transmembrane protein 51	M	0	-2.64	0.82	N
XKR9	1	XK, Kell blood group complex subunit-related family, member 9	M	0	-2.64	0.86	N
TMC5	1	transmembrane channel-like 5	M	0	-2.64	1.16	N
ROBO3	1	roundabout, axon guidance receptor, homolog 3 (Drosophila)	M	0	-2.64	2.93	N
YIPF3	1	Yip1 domain family, member 3	M	0	-2.53	0.03	N
TMEM147	1	transmembrane protein 147	M	0	-2.45	0.5	N
TMEM128	1	transmembrane protein 128	M	0	-2.38	-0.24	N
TMEM199	1	transmembrane protein 199	M	0	-2.33	0.08	N
HPS4	1	Hermansky-Pudlak syndrome 4	M	0	-2.07	0.14	N
TMEM208	1	transmembrane protein 208	M	0	-1.97	0.53	N
PIGY	1	phosphatidylinositol glycan anchor biosynthesis, class Y	M	0	-1.88	-0.76	N
CNPPD1	1	cyclin Pas1/PHO80 domain containing 1	M	0	-1.87	-0.29	N
KCNE4	1	potassium voltage-gated channel, Isk-related family, member 4	M	0	-1.85	-0.58	N
CCRL1	1	chemokine (C-C motif) receptor-like 1	M	0	-1.71	-1.26	N
C14orf109	1	chromosome 14 open reading frame 109	M	0	-1.71	-0.46	N
C1orf210	1	chromosome 1 open reading frame 210	M	0	-1.71	1.24	N
TMEM130	1	transmembrane protein 130	M	0	-1.68	-2.09	N

C11orf83	1	chromosome 11 open reading frame 83	M	0	-1.68	0.39	N
PNKD	1	paroxysmal nonkinesigenic dyskinesia	M	0	-1.65	0.23	N
LRRN4CL	1	LRRN4 C-terminal like	M	0	-1.39	-1.42	N
TFIP11	1	tuftelin interacting protein 11	M	0	-1.39	1.65	N
RAB28	1	RAB28, member RAS oncogene family	M	0	-1.36	-0.19	N
C19orf63	1	chromosome 19 open reading frame 63	M	0	-1.36	0.27	N
GPR78	1	G protein-coupled receptor 78	M	0	-1.34	-0.38	N
SLC18B1	1	solute carrier family 18, subfamily B, member 1	M	0	-1.25	-0.83	N
ILVBL	1	ilvB (bacterial acetolactate synthase)-like	M	0	-1.15	0.42	N
PET117	1	cytochrome c oxidase assembly factor-like	M	0	-1.15	0.44	N
FRMD5	1	FERM domain containing 5	M	0	-1.15	1.2	N
HIGD1B	1	HIG1 hypoxia inducible domain family, member 1B	M	0	-1.15	1.82	N
YIPF1	1	Yip1 domain family, member 1	M	0	-0.89	-0.6	N
PRR24	1	proline rich 24	M	0	-0.74	3.08	N
FKBP11	1	FK506 binding protein 11, 19 kDa	M	0	-0.69	-0.99	N
RFT1	1	RFT1 homolog (<i>S. cerevisiae</i>)	M	0	-0.66	-0.43	N
TMEM126B	1	transmembrane protein 126B	M	0	-0.65	-0.48	N
LRRC3	1	leucine rich repeat containing 3	M	0	-0.56	-1.64	N
WSCD1	1	WSC domain containing 1	M	0	-0.52	1.02	N
FAM210B	1	family with sequence similarity 210, member B	M	0	-0.45	-0.05	N
ARL6IP6	1	ADP-ribosylation-like factor 6 interacting protein 6	M	0	-0.34	0.48	N
PLP2	1	proteolipid protein 2 (colonic epithelium-enriched)	M	0	-0.2	1.36	N
TMEM39A	1	transmembrane protein 39A	M	0	-0.03	-0.32	N
TMEM159	1	transmembrane protein 159	M	0	0	-0.76	N
RNFT2	1	ring finger protein, transmembrane 2	M	0	0.56	-0.32	N
IYD	1	iodotyrosine deiodinase	M	0	0.69	-2.18	N

MFAP3L	1	microfibrillar-associated protein 3-like	M	0	0.82	-1.49	N
ATP13A4	1	ATPase type 13A4	M	0	0.82	-1.42	N
BTNL8	1	butyrophilin-like 8	M	0	0.82	-0.7	N
RNF183	1	ring finger protein 183	M	0	0.82	-0.39	N
ATP6AP1 L	1	ATPase, H ⁺ transporting, lysosomal accessory protein 1-like	M	0	0.82	-0.34	N
GPRC5B	1	G protein-coupled receptor, family C, group 5, member B	M	0	0.88	-1.14	N
TMEM14 4	1	transmembrane protein 144	M	0	1.23	-0.6	N
TMEM24 1	1	transmembrane protein 241	M	0	1.32	1.94	N
C9orf91	1	chromosome 9 open reading frame 91	M	0	1.43	-0.41	N
TMEM87 A	1	transmembrane protein 87A	M	0	1.65	-0.83	N
RNF217	1	ring finger protein 217	M	0	1.75	-0.7	N
GPR89B	1	G protein-coupled receptor 89B	M	0	1.75	-0.7	N
ATP5L2	1	ATP synthase, H ⁺ transporting, mitochondrial Fo complex, subunit G2	M	0	1.75	1.05	N
SLC38A6	1	solute carrier family 38, member 6	M	0	1.98	-0.29	N
HERC2P3	1	hect domain and RLD 2 pseudogene 3	M	0	2.72	-1.9	N
PLLIP	1	plasmolipin	M	0	2.72	-1.45	N
TMEM45 A	1	transmembrane protein 45A	M	0	3.16	-2.11	N
SLC39A1 0	1	solute carrier family 39 (zinc transporter), member 10	M	0	3.44	-0.7	N
TMEM14 0	1	transmembrane protein 140	M	0	3.7	-2.02	N
GIMAP2	1	GTPase, IMAP family member 2	M	0	4.02	-1.9	N
MCTP1	1	multiple C2 domains, transmembrane 1	M	0	5.49	-0.3	N
GJB4	1	gap junction protein, beta 4, 30.3kDa	M	0		-5.66	N
SLC16A1	1	solute carrier family 16, member 13 (monocarboxylic acid	M	0		-5.09	N

3		transporter 13)				
GABRD	1	gamma-aminobutyric acid (GABA) A receptor, delta	M	0	-2.65	N
MFSD6L	1	major facilitator superfamily domain containing 6-like	M	0	-2.6	N
RNF148	1	ring finger protein 148	M	0	-1.98	N
UNC93A	1	unc-93 homolog A (C. elegans)	M	0	-1.64	N
SLC22A3	1	solute carrier family 22, member 31	M	0	-1.64	N
1						
TMEM12	1	transmembrane protein 125	M	0	-1.58	N
5						
TMEM23	1	transmembrane protein 238	M	0	-1.47	N
8						
ZDHHC11	1	zinc finger, DHHC-type containing 11	M	0	-1.43	N
ABCB9	1	ATP-binding cassette, sub-family B (MDR/TAP), member 9	M	0	-1.42	N
RNF186	1	ring finger protein 186	M	0	-1.15	N
SLC6A16	1	solute carrier family 6, member 16	M	0	-1.11	N
SLC39A5	1	solute carrier family 39 (metal ion transporter), member 5	M	0	-1.11	N
STOML1	1	stomatin (EPB72)-like 1	M	0	-0.78	N
RNF150	1	ring finger protein 150	M	0	-0.7	N
MFSD9	1	major facilitator superfamily domain containing 9	M	0	-0.3	N
CATSPER	1	cation channel, sperm associated 3	M	0	0.02	N
3						
GPR137	1	G protein-coupled receptor 137	M	0	0.29	N
ABHD12	1	abhydrolase domain containing 12	M	0	0.35	N
SLC16A1	1	solute carrier family 16, member 14 (monocarboxylic acid	M	0	0.45	N
4		transporter 14)				
SLC26A9	1	solute carrier family 26, member 9	M	0	0.79	N
GPR64	1	G protein-coupled receptor 64	M	0	1.2	N
LY6H	1	lymphocyte antigen 6 complex, locus H	M	0	1.59	N
TMEM20	1	transmembrane protein 200C	M	0	2.5	N
OC						

GRIK5	1	glutamate receptor, ionotropic, kainate 5	M	0	2.5	N	
FAM162B	1	family with sequence similarity 162, member B	M	0	2.63	N	
TMPRSS7	1	transmembrane protease, serine 7	M	0	2.76	N	
SPRED3	1	sprouty-related, EVH1 domain containing 3	M	0	2.76	N	
FCGR1C	1	Fc fragment of IgG, high affinity 1c, receptor (CD64)	M	0	2.76	N	
C7orf53	1	chromosome 7 open reading frame 53	M	0	2.76	N	
TMEM163	1	transmembrane protein 163	M	0	3.19	N	
B4GALNT4	1	beta-1,4-N-acetyl-galactosaminyl transferase 4	M	0	3.63	N	
C2orf66	1	chromosome 2 open reading frame 66	M	0	4.25	N	
C19orf38	1	chromosome 19 open reading frame 38	M	0	4.25	N	
EPHX4	1	epoxide hydrolase 4	M	0	5.45	N	
SLC35D3	1	solute carrier family 35, member D3	M	0	7.21	N	
TAS2R3	1	taste receptor, type 2, member 3	M	0		N	
SLC10A6	1	solute carrier family 10 (sodium/bile acid cotransporter family), member 6	M	0		N	
PPAN-P2RY11	1	PPAN-P2RY11 readthrough	M	0		N	
OR7C1	1	olfactory receptor, family 7, subfamily C, member 1	M	0		N	
LAIR2	1	leukocyte-associated immunoglobulin-like receptor 2	M	0		N	
IL1RAPL2	1	interleukin 1 receptor accessory protein-like 2	M	0		N	
EPR1	1	effector cell peptidase receptor 1 (non-protein coding) (note; withdrawn gene, supposed to be antisense of BIRC5)	M	0		N	
XKR5	1	XK, Kell blood group complex subunit-related family, member 5	E	0	0.4	2.8	C
WFDC8	1	WAP four-disulfide core domain 8	E	0	2.3	0.2	C
VWC2	1	von Willebrand factor C domain containing 2	E	0	0.8	2.8	C
TTC9B	1	tetratricopeptide repeat domain 9B	E	0	2.3	1	C
TIMP4	1	TIMP metalloproteinase inhibitor 4	E	30	0.8	2.5	C

TCN2	1	transcobalamin II	E	8	3	1.4	C
SRL	1	sarcolumenin	E	0	0.8	1.4	C
SPINK7	1	serine peptidase inhibitor, Kazal type 7 (putative)	E	38	2.3	3.7	C
SEMA3G	1	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3G	E	40	4.2	5	C
SDF2	1	stromal cell-derived factor 2	E	0	3	0	C
SCPEP1	1	serine carboxypeptidase 1	E	9	2.1	0.1	C
RLN2	1	relaxin 2	E	17	2.3	2.8	C
REG3A	1	regenerating islet-derived 3 alpha	E	15	0.8	6.5	C
PRR23A	1	proline rich 23A	E	0	3.3	2.8	C
PLAC9	1	placenta-specific 9	E	0	0.8	0.9	C
PDSS1	1	prenyl (decaprenyl) diphosphate synthase, subunit 1	E	11	0.8	0.6	C
PAM	1	peptidylglycine alpha-amidating monooxygenase	E	8	1.3	0.1	C
NTN5	1	netrin 5	E	0	0.8	0.7	C
NMU	1	neuromedin U	E	18	4	5.6	C
MMP16	1	matrix metalloproteinase 16 (membrane-inserted)	E	29	2.7	0.8	C
LY6G5B	1	lymphocyte antigen 6 complex, locus G5B	E	30	0.8	5	C
LUZP2	1	leucine zipper protein 2	E	13	0.8	1.5	C
LOC100652934	1	hypothetical protein LOC100652934	E	0	2.7	0	C
LOC100506504	1	hypothetical protein LOC100506504	E	0	2.3	0	C
LECT1	1	leukocyte cell derived chemotaxin 1	E	60	1.8	1.8	C
IL7	1	interleukin 7	E	12	2.3	1.2	C
IL17D	1	interleukin 17D	E	11	0.8	0	C
IAPP	1	islet amyloid polypeptide	E	4	0.4	0.5	C
HPSE	1	heparanase	E	58	4.6	0.7	C
GREM2	1	gremlin 2	E	0	1.8	0.8	C
GORAB	1	golgin, RAB6-interacting	E	8	0.4	1	C
GNRH1	1	gonadotropin-releasing hormone 1 (luteinizing-releasing	E	17	0.8	0.8	C

		hormone)						
GNAS	1	GNAS complex locus	E	13		0.1	0.8	C
GFRA3	1	GDNF family receptor alpha 3	E	11		0.8	0.5	C
FGF18	1	fibroblast growth factor 18	E	18		3.7	6.9	C
FAM5B	1	family with sequence similarity 5, member B	E	0		4.4	1.2	C
FAM180A	1	family with sequence similarity 180, member A	E	25		0.8	3.7	C
ERO1LB	1	ERO1-like beta (<i>S. cerevisiae</i>)	E	5		1.8	0.2	C
ERAP1	1	endoplasmic reticulum aminopeptidase 1	E	16		1.4	0.3	C
EPHA10	1	EPH receptor A10	E	14		0.2	0.3	C
DCD	1	dermcidin	E	24		3.3	4.3	C
DAND5	1	DAN domain family, member 5	E	0		4.2	0.6	C
COL9A1	1	collagen, type IX, alpha 1	E	5		1.8	2.6	C
CCL3L1	1	chemokine (C-C motif) ligand 3-like 1	E	2		0.8	3.7	C
CCDC85A	1	coiled-coil domain containing 85A	E	0		3.9	0.9	C
CCDC149	1	coiled-coil domain containing 149	E	11		2.3	0.4	C
CBLN4	1	cerebellin 4 precursor	E	0		3.6	0.8	C
C1QTNF5	1	C1q and tumor necrosis factor related protein 5	E	18		3.5	1	C
C1QA	1	complement component 1, q subcomponent, A chain	E	8		0.8	0.2	C
C18orf56	1	chromosome 18 open reading frame 56	E	17		2.7	0.1	C
C17orf65	1	chromosome 17 open reading frame 65	E	17		1.1	0.9	C
C11orf45	1	chromosome 11 open reading frame 45	E	0		2.3	3.7	C
BMP8A	1	bone morphogenetic protein 8a	E	0		1.5	0	C
BMP7	1	bone morphogenetic protein 7	E	17		0	0.4	C
APOL2	1	apolipoprotein L, 2	E	7		3.7	1.2	C
APCDD1L	1	adenomatosis polyposis coli down-regulated 1-like	E	25		0.8	3.7	C
ANGPTL7	1	angiopoietin-like 7	E	8		0.8	0.2	C
ANGPT4	1	angiopoietin 4	E	68		0.8	0.8	C
ADAMTS2	1	ADAM metallopeptidase with thrombospondin type 1 motif, 2	E	18		0.8	0.8	C

ZBP2	1	zona pellucida binding protein 2	E	11	-6.1	1.65	R
TNFSF10	1	tumor necrosis factor (ligand) superfamily, member 10	E	66	0.37	-2.07	R
TNFAIP8L1	1	tumor necrosis factor, alpha-induced protein 8-like 1	E	25	2.54	0.01	R
TGFB2	1	transforming growth factor, beta 2	E	22	-2.46	-0.46	R
PSG4	1	pregnancy specific beta-1-glycoprotein 4	E	8	0.54	-3.58	R
NOG	1	noggin	E	11	6.08	-5.09	R
MICA	1	MHC class I polypeptide-related sequence A	E	23	0.13	-1.38	R
MFAP2	1	microfibrillar-associated protein 2	E	0	-0.74	1.61	R
HTN1	1	histatin 1	E	0	4.94		R
CAPZA2	1	capping protein (actin filament) muscle Z-line, alpha 2	E	5	2.6	-0.62	R
B2M	1	beta-2-microglobulin	E	13	1.06	-1.32	R
ANXA2P2	1	annexin A2 pseudogene 2	E	17		-1.64	R
TUFT1	1	tuftelin 1	E	0	-2.47	-0.55	L
THNSL2	1	threonine synthase-like 2 (<i>S. cerevisiae</i>)	E	13	-7.59	-0.78	L
PXDNL	1	peroxidasin homolog (<i>Drosophila</i>)-like	E	11		5.23	L
PI15	1	peptidase inhibitor 15	E	33		0.23	L
MIF	1	macrophage migration inhibitory factor (glycosylation-inhibiting factor)	E	27	-2.75	1.57	L
ISG15	1	ISG15 ubiquitin-like modifier	E	13	-3.22	0.46	L
HHIPL2	1	HHIP-like 2	E	0	-6.1	3.69	L
CXCL14	1	chemokine (C-X-C motif) ligand 14	E	31	-2.64	-0.59	L
COL24A1	1	collagen, type XXIV, alpha 1	E	17		3.69	L
CCL26	1	chemokine (C-C motif) ligand 26	E	20		1.99	L
CCL19	1	chemokine (C-C motif) ligand 19	E	18		1.26	L
APOA1BP	1	apolipoprotein A-I binding protein	E	17	-3.84	0.75	L
ZP3	1	zona pellucida glycoprotein 3 (sperm receptor)	E	0	0.82	-0.39	P
ZP1	1	zona pellucida glycoprotein 1 (sperm receptor)	E	7		-0.7	P
WNT5A	1	wingless-type MMTV integration site family, member 5A	E	35	-1.71	1.22	P

VWA2	1	von Willebrand factor A domain containing 2	E	0	0.82	4.25	P
VMO1	1	vitelline membrane outer layer 1 homolog (chicken)	E	0		1.41	P
TTR	1	transthyretin	E	4	-8	-3.45	P
TNXB	1	tenascin XB	E	18		-1.25	P
TNR	1	tenascin R (restrictin, janusin)	E	3		0.73	P
TINAG	1	tubulointerstitial nephritis antigen	E	8		-4.22	P
THBS3	1	thrombospondin 3	E	11	-3.62	-0.12	P
TF	1	transferrin	E	5	-11.67	-1.89	P
SPINT1	1	serine peptidase inhibitor, Kunitz type 1	E	21	-7.59	-0.03	P
SORD	1	sorbitol dehydrogenase	E	3	-9.67	-1.02	P
SMPDL3 B	1	sphingomyelin phosphodiesterase, acid-like 3B	E	25		-0.29	P
SLIT3	1	slit homolog 3 (Drosophila)	E	14	-6.1	-0.29	P
SFRP1	1	secreted frizzled-related protein 1	E	33	-8	-0.73	P
SERPING 1	1	serpin peptidase inhibitor, clade G (C1 inhibitor), member 1	E	12	-9.3	-1.38	P
SERPIND 1	1	serpin peptidase inhibitor, clade D (heparin cofactor), member 1	E	17	-3.2	-0.48	P
SERPINC 1	1	serpin peptidase inhibitor, clade C (antithrombin), member 1	E	10	-9.3	-2.07	P
SERPINA 10	1	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 10	E	4	-1.81	-0.51	P
SEPP1	1	selenoprotein P, plasma, 1	E	12	-1.45	-1.89	P
SEMA4D	1	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D	E	30	-1.71	-1.1	P
PTGDS	1	prostaglandin D2 synthase 21kDa (brain)	E	13	-6.1	0.41	P
PRSS35	1	protease, serine, 35	E	0		1.2	P
PROS1	1	protein S (alpha)	E	7	5.21	-1.34	P
PRELP	1	proline/arginine-rich end leucine-rich repeat protein	E	7	-1.85	-1.36	P
PLG	1	plasminogen	E	24	-8.57	-2.73	P

PEBP1	1	phosphatidylethanolamine binding protein 1	E	24	-2.52	0.28	P
PAPPA	1	pregnancy-associated plasma protein A, pappalysin 1	E	9	-0.94	-4.96	P
PAPLN	1	papilin, proteoglycan-like sulfated glycoprotein	E	13	-0.46	-0.7	P
OVOS2	1	ovostatin 2	E	0	-2.64	-4.16	P
OLFML3	1	olfactomedin-like 3	E	0	-3.92	0.21	P
OLFM3	1	olfactomedin 3	E	0		-0.7	P
OGN	1	osteoglycin	E	7		1.18	P
NUCB2	1	nucleobindin 2	E	12	2.01	-2.37	P
MUC5AC	1	mucin 5AC, oligomeric mucus/gel-forming	E	16		0.49	P
MR1	1	major histocompatibility complex, class I-related	E	6	1.19	-0.24	P
MFI2	1	antigen p97 (melanoma associated) identified by monoclonal antibodies 133.2 and 96.5	E	58		0.97	P
MFAP5	1	microfibrillar associated protein 5	E	18	-1.15	-0.07	P
METRNL	1	meteorin, glial cell differentiation regulator-like	E	0	-8.31	0.87	P
MATN2	1	matrilin 2	E	10	-7.59	-0.89	P
MAMDC 2	1	MAM domain containing 2	E	0	3.03	-2.92	P
LYZ	1	lysozyme	E	6	-0.5	0.2	P
LY86	1	lymphocyte antigen 86	E	12		-0.7	P
LTBP1	1	latent transforming growth factor beta binding protein 1	E	18	-0.44	-1.64	P
LOC1002 93534	1	complement C4-B-like	E	10		-5.09	P
LNPEP	1	leucyl/cystinyl aminopeptidase	E	12	-2.64	-1.42	P
LIPH	1	lipase, member H	E	7		2.13	P
LECT2	1	leukocyte cell-derived chemotaxin 2	E	21	-2.9	-2.54	P
LAMC1	1	laminin, gamma 1 (formerly LAMB2)	E	22	-0.05	0.65	P
LAMB2	1	laminin, beta 2 (laminin S)	E	19	-2.64	0.43	P
LAMA5	1	laminin, alpha 5	E	30	-5.84	0.37	P
LAMA3	1	laminin, alpha 3	E	17	-2.64	0.93	P
LAMA2	1	laminin, alpha 2	E	11		-0.25	P

LAMA1	1	laminin, alpha 1	E	15	-7.59	1.94	P
KNG1	1	kininogen 1	E	32	-8.57	-2.22	P
ITIH2	1	inter-alpha-trypsin inhibitor heavy chain 2	E	9	-8.98	-0.52	P
ISLR	1	immunoglobulin superfamily containing leucine-rich repeat	E	0	-6.1	-0.22	P
HSD17B1 1	1	hydroxysteroid (17-beta) dehydrogenase 11	E	15	-1.7	-0.8	P
HRG	1	histidine-rich glycoprotein	E	24	-8.98	-2.18	P
HPX	1	hemopexin	E	8	-9.3	-3.71	P
HGFAC	1	HGF activator	E	23		-1.26	P
HAPLN3	1	hyaluronan and proteoglycan link protein 3	E	0	-2.64	1.41	P
GPX3	1	glutathione peroxidase 3 (plasma)	E	27	-4.59	-0.02	P
GPLD1	1	glycosylphosphatidylinositol specific phospholipase D1	E	15	-1.09	-0.12	P
GPC6	1	glypican 6	E	6	-8.57	-0.38	P
GPC1	1	glypican 1	E	20	-3.57	2.07	P
FREM1	1	FRAS1 related extracellular matrix 1	E	0		-1.37	P
FMOD	1	fibromodulin	E	14	-6.1	1.45	P
FGL2	1	fibrinogen-like 2	E	18	-1.71	0.09	P
FGG	1	fibrinogen gamma chain	E	12	-10.61	-2.03	P
FGB	1	fibrinogen beta chain	E	20	-6.68	-2.26	P
FGA	1	fibrinogen alpha chain	E	13	-10.49	-4.24	P
FETUB	1	fetuin B	E	20	-8	-4.04	P
FBN2	1	fibrillin 2	E	19	-7.59	2.24	P
FBLN5	1	fibulin 5	E	20	-4.14	-0.47	P
FBLN1	1	fibulin 1	E	25	-3.62	-0.24	P
FAM20C	1	family with sequence similarity 20, member C	E	0	-8	0.25	P
F9	1	coagulation factor IX	E	6	-7.03	1	P
F3	1	coagulation factor III (thromboplastin, tissue factor)	E	45	-0.26	-1.37	P
F2	1	coagulation factor II (thrombin)	E	17	-8.57	-2.34	P
F10	1	coagulation factor X	E	15	-6.1	-1.5	P

ERBB4	1	v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian)	E	28		-2.68	P
ENPP3	1	ectonucleotide pyrophosphatase/phosphodiesterase 3	E	17		0.73	P
ENPP1	1	ectonucleotide pyrophosphatase/phosphodiesterase 1	E	9	-2.33	-1.15	P
EMILIN2	1	elastin microfibril interfacier 2	E	30		1.7	P
EMID2	1	EMI domain containing 2	E	0		0.58	P
ELN	1	elastin	E	18	-4.54	0.66	P
ECM2	1	extracellular matrix protein 2, female organ and adipocyte specific	E	0	-7.03	-0.48	P
DCN	1	decorin	E	24	-5.6	-1.14	P
DBH	1	dopamine beta-hydroxylase (dopamine beta-monooxygenase)	E	1	-6.1	-1.26	P
CTSD	1	cathepsin D	E	18	-6.74	0.77	P
CTNNB1	1	catenin (cadherin-associated protein), beta 1, 88kDa	E	41	2.63	-0.04	P
CPZ	1	carboxypeptidase Z	E	17	-8.57	0.54	P
CPA2	1	carboxypeptidase A2 (pancreatic)	E	0		-2.2	P
COL4A6	1	collagen, type IV, alpha 6	E	43		-2	P
COL2A1	1	collagen, type II, alpha 1	E	9	-6.1	6.72	P
COL14A1	1	collagen, type XIV, alpha 1	E	4	-8.98	0.39	P
COCH	1	coagulation factor C homolog, cochlin (Limulus polyphemus)	E	0	-7.03	2.14	P
CNTN4	1	contactin 4	E	11	-1.15	0.51	P
CHL1	1	cell adhesion molecule with homology to L1CAM (close homolog of L1)	E	16	-5.33	-0.33	P
CFH	1	complement factor H	E	13	1	-0.19	P
CAMP	1	cathelicidin antimicrobial peptide	E	11		2.76	P
C8orf84	1	chromosome 8 open reading frame 84	E	0	3.7	-0.44	P
C8A	1	complement component 8, alpha polypeptide	E	8	-8	-1.28	P
C5	1	complement component 5	E	14	-3.57	-2.49	P
C1QC	1	complement component 1, q subcomponent, C chain	E	9		0.9	P
C1QBP	1	complement component 1, q subcomponent binding protein	E	19	-1.84	0.66	P
BCHE	1	butyrylcholinesterase	E	7	-3.27	0.29	P
APP	1	amyloid beta (A4) precursor protein	E	8	-0.15	0.26	P

APOH	1	apolipoprotein H (beta-2-glycoprotein I)	E	11	-9.43	-2.38	P
APOB	1	apolipoprotein B (including Ag(x) antigen)	E	13	-8.79	-2.32	P
APOA4	1	apolipoprotein A-IV	E	14		5.45	P
APOA1	1	apolipoprotein A-I	E	15	-9.3	-2.75	P
ANGPTL1	1	angiopoietin-like 1	E	55		1	P
ANG	1	angiogenin, ribonuclease, RNase A family, 5	E	62	-2.07	-1.52	P
AMBP	1	alpha-1-microglobulin/bikunin precursor	E	18	-8.79	-1.1	P
ALCAM	1	activated leukocyte cell adhesion molecule	E	46	1.2	-0.65	P
ALB	1	albumin	E	10	-12.87	-1.38	P
AHSG	1	alpha-2-HS-glycoprotein	E	16	-8	-0.79	P
AGRN	1	agrin	E	18	-5.1	0.85	P
AFP	1	alpha-fetoprotein	E	34		2.66	P
ADIPOQ	1	adiponectin, C1Q and collagen domain containing	E	18	-0.43	1.05	P
ADAMTS L5	1	ADAMTS-like 5	E	0	1.75	-1.59	P
ACTN4	1	actinin, alpha 4	E	18	-4.55	-0.24	P
ACHE	1	acetylcholinesterase	E	9		1.52	P
ACE	1	angiotensin I converting enzyme (peptidyl-dipeptidase A) 1	E	21	1.75	-1.78	P
A2ML1	1	alpha-2-macroglobulin-like 1	E	22		5.96	P
IL8	1	interleukin 8	E	31	-1.71	-0.23	N
HSPH1	1	heat shock 105kDa/110kDa protein 1	E	13	0.23	-0.36	N
BPIFA1	1	BPI fold containing family A, member 1	E	5		-1.53	N
C9orf47	1	chromosome 9 open reading frame 47	E	0	-6.1	-2.26	N
SAA2- SAA4	1	SAA2-SAA4 readthrough	E	0		2.76	N
TNF	1	tumor necrosis factor	E	60		3.69	N
ADM	1	adrenomedullin	E	46	-1.3	-0.37	N
NOV	1	nephroblastoma overexpressed gene	E	43	-8.31	1.44	N
S100A2	1	S100 calcium binding protein A2	E	42	-7.03	-0.91	N
CXCL17	1	chemokine (C-X-C motif) ligand 17	E	40		-0.7	N

CEACAM 5	1	carcinoembryonic antigen-related cell adhesion molecule 5	E	34	0.82	0.45	N
SPOCK3	1	sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 3	E	33	-7.59	-4.38	N
F2RL2	1	coagulation factor II (thrombin) receptor-like 2	E	33	1.75	-2.45	N
EREG	1	epiregulin	E	30	3.29	-1.23	N
MAGEA9 B	1	melanoma antigen family A, 9B	E	29			N
IGF2	1	insulin-like growth factor 2 (somatomedin A)	E	27	-3.92	2.86	N
EPOR	1	erythropoietin receptor	E	25	-7.03	0.68	N
ADAMTS 6	1	ADAM metallopeptidase with thrombospondin type 1 motif, 6	E	25	5.01	6.22	N
LYPD6B	1	LY6/PLAUR domain containing 6B	E	25		1.77	N
S100A9	1	S100 calcium binding protein A9	E	24	-6.1	0.8	N
SAA1	1	serum amyloid A1	E	23	-6.1	-3	N
SFRP4	1	secreted frizzled-related protein 4	E	23		0.15	N
IGFBP3	1	insulin-like growth factor binding protein 3	E	22	-6.13	0.31	N
CXCL3	1	chemokine (C-X-C motif) ligand 3	E	22	-6.1	-1.85	N
SAA2	1	serum amyloid A2	E	21	-6.1	-0.62	N
FAM3B	1	family with sequence similarity 3, member B	E	20		1.94	N
AZGP1	1	alpha-2-glycoprotein 1, zinc-binding	E	18	-8.79	-1.58	N
SAA4	1	serum amyloid A4, constitutive	E	18	-7.03	-2.36	N
IL1B	1	interleukin 1, beta	E	18	-2.64	5.45	N
HTRA1	1	HtrA serine peptidase 1	E	18	-0.51	0.27	N
C2CD4A	1	C2 calcium-dependent domain containing 4A	E	17	-0.17	1.41	N
DKK2	1	dickkopf homolog 2 (Xenopus laevis)	E	17		4.97	N
IL11	1	interleukin 11	E	16	-1.36	-0.13	N
INS-IGF2	1	INS-IGF2 readthrough	E	16		2.76	N
BAIAP3	1	BAI1-associated protein 3	E	14		-1.69	N
NMB	1	neuromedin B	E	14		0.61	N

PRSS22	1	protease, serine, 22	E	13		0.13	N
KLK12	1	kallikrein-related peptidase 12	E	13		3.69	N
CRTAC1	1	cartilage acidic protein 1	E	11		1.12	N
CST1	1	cystatin SN	E	8		7.43	N
INS	1	insulin	E	8			N
PRG2	1	proteoglycan 2, bone marrow (natural killer cell activator, eosinophil granule major basic protein)	E	5	-7.59	4.65	N
SPESP1	1	sperm equatorial segment protein 1	E	0	-8	0.42	N
RNF215	1	ring finger protein 215	E	0	-6.1	-2.24	N
ACP6	1	acid phosphatase 6, lysophosphatidic	E	0	-6.1	-0.17	N
C1orf63	1	chromosome 1 open reading frame 63	E	0	-2.64	0.03	N
BOLA1	1	bolA homolog 1 (E. coli)	E	0		-0.13	N
CRLF1	1	cytokine receptor-like factor 1	E	0		6.87	N
TGIF2-C20ORF24	1	TGIF2-C20orf24 readthrough	E	0			N
VEGFA	1	vascular endothelial growth factor A	E	95	-2.79	1.43	N
VEGFB	1	vascular endothelial growth factor B	E	76	-2.64	-0.15	N
VASH1	1	vasohibin 1	E	73	4.78	0.66	N
LIPG	1	lipase, endothelial	E	65	-0.35	-0.7	N
MAGEA4	1	melanoma antigen family A, 4	E	63		-1.64	N
MAGEA2	1	melanoma antigen family A, 2	E	60		4.25	N
MUCL1	1	mucin-like 1	E	57			N
OLR1	1	oxidized low density lipoprotein (lectin-like) receptor 1	E	55	-7.03	-0.29	N
IL24	1	interleukin 24	E	52		0.79	N
LYPD3	1	LY6/PLAUR domain containing 3	E	50	-6.1	-0.46	N
GRP	1	gastrin-releasing peptide	E	50		2.76	N
MAGEA3	1	melanoma antigen family A, 3	E	49	2.31	-0.14	N
SEMA3F	1	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3F	E	48		-0.94	N

SERPINB 4	1	serpin peptidase inhibitor, clade B (ovalbumin), member 4	E	47	-7.03	-2.6	N
PLAUR	1	plasminogen activator, urokinase receptor	E	45	-2.64	0.88	N
CST6	1	cystatin E/M	E	45		1.99	N
TNFAIP2	1	tumor necrosis factor, alpha-induced protein 2	E	44	-0.9	0.11	N
SCGB3A1	1	secretoglobulin, family 3A, member 1	E	42	-2.64	-1.14	N
WNT2	1	wingless-type MMTV integration site family member 2	E	42		3.26	N
ADAMTS 7	1	ADAM metallopeptidase with thrombospondin type 1 motif, 7	E	40	0.82	1.58	N
PEBP4	1	phosphatidylethanolamine-binding protein 4	E	40		-2.04	N
SELP	1	selectin P (granule membrane protein 140kDa, antigen CD62)	E	39		-1.67	N
TDGF1	1	teratocarcinoma-derived growth factor 1	E	38	-9.67	0.18	N
FCRLB	1	Fc receptor-like B	E	38		-0.7	N
NAPSA	1	napsin A aspartic peptidase	E	38		-0.32	N
MMP7	1	matrix metallopeptidase 7 (matrilysin, uterine)	E	36	-10.22	-1.82	N
PTH LH	1	parathyroid hormone-like hormone	E	36	-8.31	0.86	N
AGR3	1	anterior gradient homolog 3 (<i>Xenopus laevis</i>)	E	36		-1.41	N
AREG	1	amphiregulin	E	34	-7.03	-2.6	N
CTTN	1	cortactin	E	34	1.53	-0.28	N
AGR2	1	anterior gradient homolog 2 (<i>Xenopus laevis</i>)	E	33	-7.03	-0.06	N
CXCL5	1	chemokine (C-X-C motif) ligand 5	E	33	-6.1	0.58	N
BCL2L12	1	BCL2-like 12 (proline rich)	E	33	-3.2	2.58	N
TNFRSF1 1B	1	tumor necrosis factor receptor superfamily, member 11b	E	32	-0.8	-1.28	N
SPOCK1	1	sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 1	E	32	0.14	-1.45	N
SERPINB 2	1	serpin peptidase inhibitor, clade B (ovalbumin), member 2	E	31	-8.31	-4.28	N
LOXL3	1	lysyl oxidase-like 3	E	31	-6.1	1.2	N
SPINT2	1	serine peptidase inhibitor, Kunitz type, 2	E	31	-5.04	0.25	N

HDGF	1	hepatoma-derived growth factor	E	30	-1.36	0.43	N
OLFM4	1	olfactomedin 4	E	29	-7.03	0.9	N
LY6G6D	1	lymphocyte antigen 6 complex, locus G6D	E	29		-0.7	N
WISP1	1	WNT1 inducible signaling pathway protein 1	E	29		1.77	N
IGFBP2	1	insulin-like growth factor binding protein 2, 36kDa	E	28	-9.3	1.1	N
DHH	1	desert hedgehog	E	26	-6.1	-1.98	N
TIMP1	1	TIMP metalloproteinase inhibitor 1	E	26	-2.52	0.32	N
CSF1	1	colony stimulating factor 1 (macrophage)	E	25	-7.59	0.4	N
KITLG	1	KIT ligand	E	25	-0.5	-0.53	N
CHI3L1	1	chitinase 3-like 1 (cartilage glycoprotein-39)	E	24	-8	1.11	N
KLK8	1	kallikrein-related peptidase 8	E	24	-7.03	0.26	N
ACE2	1	angiotensin I converting enzyme (peptidyl-dipeptidase A) 2	E	24		-2	N
CSF3	1	colony stimulating factor 3 (granulocyte)	E	23		-0.3	N
PRSS2	1	protease, serine, 2 (trypsin 2)	E	23		1.99	N
S100A7	1	S100 calcium binding protein A7	E	23		5.45	N
GREM1	1	gremlin 1	E	22	-4.54	0.1	N
NDP	1	Norrie disease (pseudoglioma)	E	22	-2.64	-1.69	N
CALML3	1	calmodulin-like 3	E	21	-6.1	-2.58	N
IL18	1	interleukin 18 (interferon-gamma-inducing factor)	E	21	-1.71	-2.09	N
IFNG	1	interferon, gamma	E	21		4.25	N
LCN2	1	lipocalin 2	E	20	-9.3	0.9	N
ZBTB48	1	zinc finger and BTB domain containing 48	E	20	-3.92	0.57	N
CXCL10	1	chemokine (C-X-C motif) ligand 10	E	20	-1.71	-0.26	N
IL10	1	interleukin 10	E	20	-1.44	-1.23	N
ADAMTS 14	1	ADAM metalloproteinase with thrombospondin type 1 motif, 14	E	20		1.2	N
IGFBP6	1	insulin-like growth factor binding protein 6	E	19	-8.31	-0.31	N
NNAT	1	neuronatin	E	19	-7.03	3.79	N
S100A12	1	S100 calcium binding protein A12	E	19		-2.6	N

MMP28	1	matrix metalloproteinase 28	E	19		-1.02	N
EDA	1	ectodysplasin A	E	19		-0.3	N
WNT11	1	wingless-type MMTV integration site family, member 11	E	19		3.81	N
IL1A	1	interleukin 1, alpha	E	19		4.97	N
HP	1	haptoglobin	E	18	-10.43	-5.13	N
CXCL2	1	chemokine (C-X-C motif) ligand 2	E	18	-7.03	-1.75	N
HYAL3	1	hyaluronoglucosaminidase 3	E	18	-7.03	-0.39	N
COL4A4	1	collagen, type IV, alpha 4	E	18		-3.25	N
CALCA	1	calcitonin-related polypeptide alpha	E	18		-1.49	N
DPT	1	dermatopontin	E	18		-0.92	N
GZMK	1	granzyme K (granzyme 3; tryptase II)	E	18		4.97	N
GZMA	1	granzyme A (granzyme 1, cytotoxic T-lymphocyte-associated serine esterase 3)	E	17	-1.84	0.03	N
CTSK	1	cathepsin K	E	17	0.06	0.49	N
NUDT8	1	nudix (nucleoside diphosphate linked moiety X)-type motif 8	E	17		-1.26	N
CA11	1	carbonic anhydrase XI	E	17		-1.01	N
LIPC	1	lipase, hepatic	E	16	-6.1	-1.11	N
SLPI	1	secretory leukocyte peptidase inhibitor	E	16	-6.1	-0.59	N
COL4A5	1	collagen, type IV, alpha 5	E	16	-1.36	-0.42	N
HPR	1	haptoglobin-related protein	E	16		-3.55	N
IL36RN	1	interleukin 36 receptor antagonist	E	16		2.76	N
PON3	1	paraoxonase 3	E	15	-7.03	-1.38	N
CLEC11A	1	C-type lectin domain family 11, member A	E	15	-6.1	1.48	N
TAC1	1	tachykinin, precursor 1	E	15		-1.64	N
SMOC2	1	SPARC related modular calcium binding 2	E	15		-0.55	N
LIF	1	leukemia inhibitory factor (cholinergic differentiation factor)	E	14	-8.31	1.05	N
PLA2G12B	1	phospholipase A2, group XIIB	E	14	-7.03	-2.54	N
VIP	1	vasoactive intestinal peptide	E	14	-6.1	-1.98	N
MSMB	1	microseminoprotein, beta-	E	14		-6.49	N

C15orf62	1	chromosome 15 open reading frame 62	E	14	-2.2	N
REN	1	renin	E	14	-0.18	N
ADAMTS 16	1	ADAM metallopeptidase with thrombospondin type 1 motif, 16	E	14	0.23	N
PLA2G5	1	phospholipase A2, group V	E	14	0.42	N
ARTN	1	artemin	E	14	0.45	N
PI3	1	peptidase inhibitor 3, skin-derived	E	14	5.12	N
PLA2G2F	1	phospholipase A2, group IIF	E	14		N
SPINK1	1	serine peptidase inhibitor, Kazal type 1	E	13	-6.1	2.06 N
EFEMP2	1	EGF containing fibulin-like extracellular matrix protein 2	E	13	-4.4	0.22 N
NENF	1	neudesin neurotrophic factor	E	13	-2.64	1.52 N
TLL1	1	tolloid-like 1	E	13	-0.74	-0.14 N
GGH	1	gamma-glutamyl hydrolase (conjugase, folylpolyglutamyl hydrolase)	E	13	1.61	-1.07 N
MMP23A	1	matrix metallopeptidase 23A (pseudogene)	E	13		N
IL19	1	interleukin 19	E	13		N
ZC3H13	1	zinc finger CCCH-type containing 13	E	12	-0.09	-1.77 N
PLIN2	1	perilipin 2	E	12	2.84	-0.6 N
PAEP	1	progesterone-associated endometrial protein	E	12		-3.45 N
ABP1	1	amiloride binding protein 1 (amine oxidase (copper-containing))	E	12		-0.92 N
SERPINA 3	1	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 3	E	11	-12.68	-1.9 N
TCN1	1	transcobalamin I (vitamin B12 binding protein, R binder family)	E	11	-8.98	-1.18 N
IFNAR2	1	interferon (alpha, beta and omega) receptor 2	E	11	-4.18	0.61 N
APOL4	1	apolipoprotein L, 4	E	11	-1.25	-0.85 N
DEFA6	1	defensin, alpha 6, Paneth cell-specific	E	11		N
POLDIP2	1	polymerase (DNA-directed), delta interacting protein 2	E	10	1.4	-0.02 N
MMP23B	1	matrix metallopeptidase 23B	E	10		-1.06 N
S100A3	1	S100 calcium binding protein A3	E	10		0.26 N
PCOLCE	1	procollagen C-endopeptidase enhancer	E	9	-8.31	0.81 N

FGF16	1	fibroblast growth factor 16	E	9			N
CFHR2	1	complement factor H-related 2	E	8	-8	-0.7	N
COLEC11	1	collectin sub-family member 11	E	8	-2.64	-2.24	N
CECR1	1	cat eye syndrome chromosome region, candidate 1	E	8	-1.37	0.21	N
CCL15	1	chemokine (C-C motif) ligand 15	E	8	0.82	-0.92	N
C21orf7	1	chromosome 21 open reading frame 7	E	8	1.87	0.94	N
FAM107 B	1	family with sequence similarity 107, member B	E	8	1.97	-0.35	N
CHRD	1	chordin	E	8		-2.09	N
COL5A3	1	collagen, type V, alpha 3	E	8		2.13	N
ACAN	1	aggrecan	E	8		2.63	N
EPDR1	1	ependymin related protein 1 (zebrafish)	E	7	-7.03	0.55	N
GLA	1	galactosidase, alpha	E	7	-1.24	0.53	N
CCL14	1	chemokine (C-C motif) ligand 14	E	7	2.31	-0.44	N
PRSS8	1	protease, serine, 8	E	6	-8.79	0.49	N
LOXL1	1	lysyl oxidase-like 1	E	6	-3.92	-0.7	N
DPP7	1	dipeptidyl-peptidase 7	E	5	-5.69	0.14	N
CRTAP	1	cartilage associated protein	E	5	-2.64	-1.54	N
SERPINI1	1	serpin peptidase inhibitor, clade I (neuroserpin), member 1	E	5	-1.71	-0.55	N
NPC2	1	Niemann-Pick disease, type C2	E	5	0.49	-1.02	N
PRSS1	1	protease, serine, 1 (trypsin 1)	E	5		-0.7	N
SFTPD	1	surfactant protein D	E	5		-0.12	N
DEFA5	1	defensin, alpha 5, Paneth cell-specific	E	5		2.76	N
BDNF	1	brain-derived neurotrophic factor	E	4	-1.1	-1.28	N
CCL4L2	1	chemokine (C-C motif) ligand 4-like 2	E	4	0.82		N
IGLL1	1	immunoglobulin lambda-like polypeptide 1	E	4		-4.16	N
COMP	1	cartilage oligomeric matrix protein	E	4		-0.39	N
PGC	1	progastricsin (pepsinogen C)	E	4		-0.33	N
FST	1	follistatin	E	3	-2.33	0.29	N

BTD	1	biotinidase	E	3	-0.15	-2.42	N
MATN3	1	matrilin 3	E	3	3.29	-1.11	N
SFTPB	1	surfactant protein B	E	1	-0.43	-1.19	N
SNCA	1	synuclein, alpha (non A4 component of amyloid precursor)	E	1	2.92	0.5	N
RCN3	1	reticulocalbin 3, EF-hand calcium binding domain	E	0	-8.57	2.14	N
PRSS12	1	protease, serine, 12 (neurotrypsin, motopsin)	E	0	-7.59	0.29	N
FAM155B	1	family with sequence similarity 155, member B	E	0	-7.59	1.77	N
CES4A	1	carboxylesterase 4A	E	0	-7.03	-0.42	N
CCDC3	1	coiled-coil domain containing 3	E	0	-7.03	-0.07	N
VPREB3	1	pre-B lymphocyte 3	E	0	-7.03	0.58	N
JMJD8	1	jumonji domain containing 8	E	0	-6.1	-0.46	N
HSD11B1L	1	hydroxysteroid (11-beta) dehydrogenase 1-like	E	0	-6.1	0.55	N
HYI	1	hydroxypyruvate isomerase (putative)	E	0	-6.1	0.76	N
FBXL19	1	F-box and leucine-rich repeat protein 19	E	0	-6.1	0.86	N
CPXM1	1	carboxypeptidase X (M14 family), member 1	E	0	-6.1	3.17	N
CRELD2	1	cysteine-rich with EGF-like domains 2	E	0	-5.11	1	N
SPAG7	1	sperm associated antigen 7	E	0	-3.92	-0.31	N
ABHD14A	1	abhydrolase domain containing 14A	E	0	-3.57	-0.46	N
MTRNR2L3	1	MT-RNR2-like 3	E	0	-2.64	-5.09	N
BMP8B	1	bone morphogenetic protein 8b	E	0	-2.64	5.45	N
OAF	1	OAF homolog (Drosophila)	E	0	-2.33	0.69	N
PODNL1	1	podocan-like 1	E	0	-1.71	1.36	N
CABP4	1	calcium binding protein 4	E	0	-1.4	-1.33	N
SPATA6	1	spermatogenesis associated 6	E	0	-1.15	-0.44	N
PRRG4	1	proline rich Gla (G-carboxyglutamic acid) 4 (transmembrane)	E	0	-0.8	-1.45	N
QPCT	1	glutaminy-peptide cyclotransferase	E	0	0	-0.86	N

IGIP	1	IgA-inducing protein homolog (Bos taurus)	E	0	0.24	-2.92	N
COQ10A	1	coenzyme Q10 homolog A (S. cerevisiae)	E	0	0.82	-0.77	N
C16orf89	1	chromosome 16 open reading frame 89	E	0	0.82	-0.7	N
C3orf64	1	chromosome 3 open reading frame 64	E	0	0.9	-1.47	N
BOLA3	1	bolA homolog 3 (E. coli)	E	0	1.48	-1.35	N
ADAMTS L2	1	ADAMTS-like 2	E	0	3.03	-0.53	N
EFHA2	1	EF-hand domain family, member A2	E	0	3.7	-0.14	N
C17orf39	1	chromosome 17 open reading frame 39	E	0	4.15	-0.23	N
C2orf69	1	chromosome 2 open reading frame 69	E	0	5.27	-0.7	N
CILP	1	cartilage intermediate layer protein, nucleotide pyrophosphohydrolase	E	0		-6.06	N
RNASE7	1	ribonuclease, RNase A family, 7	E	0		-5.09	N
PSORS1C 2	1	psoriasis susceptibility 1 candidate 2	E	0		-4.16	N
TEPP	1	testis, prostate and placenta expressed	E	0		-2.92	N
SOWAHA	1	sosondowah ankyrin repeat domain family member A	E	0		-2.14	N
EPHX3	1	epoxide hydrolase 3	E	0		-1.98	N
C10orf81	1	chromosome 10 open reading frame 81	E	0		-1.68	N
SFTA2	1	surfactant associated 2	E	0		-1.11	N
C10orf11 4	1	chromosome 10 open reading frame 114	E	0		-0.7	N
ADCK5	1	aarF domain containing kinase 5	E	0		-0.3	N
ADAM32	1	ADAM metallopeptidase domain 32	E	0		0.26	N
EGFL8	1	EGF-like-domain, multiple 8	E	0		0.39	N
NPFF	1	neuropeptide FF-amide peptide precursor	E	0		0.73	N
DMKN	1	dermokine	E	0		0.76	N
C19orf76	1	chromosome 19 open reading frame 76	E	0		1.51	N
NXPH4	1	neurexophilin 4	E	0		1.7	N
C17orf67	1	chromosome 17 open reading frame 67	E	0		1.77	N

EPYC	1	epiphycan	E	0		2.76	N
MTRNR2 L9	1	MT-RNR2-like 9	E	0			N
EPGN	1	epithelial mitogen homolog (mouse)	E	0			N
CTRC	1	chymotrypsin C (caldecrin)	E	0			N
CST2	1	cystatin SA	E	0			N
UQCRCQ	2	ubiquinol-cytochrome c reductase, complex III subunit VII, 9.5kDa	I	0	4.4	0.9	N,C
TYW1	2	tRNA-yW synthesizing protein 1 homolog (<i>S. cerevisiae</i>)	I	20	3.7	0.2	N,C
TMED2	2	transmembrane emp24 domain trafficking protein 2	I	0	0.2	0	N,C
SSR3	2	signal sequence receptor, gamma (translocon-associated protein gamma)	I	0	2.1	0.6	P,C
SLC36A1	2	solute carrier family 36 (proton/amino acid symporter), member 1	I	4	3.3	1	N,C
SLC35D2	2	solute carrier family 35, member D2	I	17	4.9	0.5	N,C
SLC30A7	2	solute carrier family 30 (zinc transporter), member 7	I	0	2.3	0.3	R,C
SLC25A4 3	2	solute carrier family 25, member 43	I	0	4.9	0.8	P,C
SLC25A2 2	2	solute carrier family 25 (mitochondrial carrier: glutamate), member 22	I	0	1.8	0.3	P,C
SGCE	2	sarcoglycan, epsilon	I	3	6	0.8	P,C
SEC22B	2	SEC22 vesicle trafficking protein homolog B (<i>S. cerevisiae</i>) (gene/pseudogene)	I	0	3.2	0.5	R,C
RPN2	2	ribophorin II	I	8	1.1	0.8	P,C
RHBDF2	2	rhomboid 5 homolog 2 (<i>Drosophila</i>)	I	17	0.8	1.8	N,C
RHBDF1	2	rhomboid 5 homolog 1 (<i>Drosophila</i>)	I	14	0.7	0.7	N,C
RCN2	2	reticulocalbin 2, EF-hand calcium binding domain	I	5	1.9	0.4	R,C
RCN1	2	reticulocalbin 1, EF-hand calcium binding domain	I	14	0.3	1.4	R,C
PTPLA	2	protein tyrosine phosphatase-like (proline instead of catalytic arginine), member A	I	8	3.7	0.9	N,C
PSENEN	2	presenilin enhancer 2 homolog (<i>C. elegans</i>)	I	5	1.2	0	N,C
POMT2	2	protein-O-mannosyltransferase 2	I	4	2.3	0.1	N,C

PIGS	2	phosphatidylinositol glycan anchor biosynthesis, class S	I	0	1.1	0.3	N,C
PDIA6	2	protein disulfide isomerase family A, member 6	I	10	0.5	0.4	P,C
PAX1	2	paired box 1	I	0	0.8	4.3	N,C
ORMDL3	2	ORM1-like 3 (<i>S. cerevisiae</i>)	I	2	0.8	0.8	N,C
NUBPL	2	nucleotide binding protein-like	I	0	0.7	0.2	N,C
NPTX2	2	neuronal pentraxin II	I	7	2.1	0.6	N,C
NDUFB4	2	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 4, 15kDa	I	0	3.2	0.6	R,C
NDUFA1	2	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 13	I	36	0.5	0.1	N,C
3							
NDUFA1	2	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 1, 7.5kDa	I	9	2.9	0.5	N,C
NCEH1	2	neutral cholesterol ester hydrolase 1	I	18	4	0	N,C
MRPS24	2	mitochondrial ribosomal protein S24	I	0	2.1	1.3	N,C
MRPS18	2	mitochondrial ribosomal protein S18C	I	0	3.1	0.1	R,C
C							
MRPL47	2	mitochondrial ribosomal protein L47	I	0	2.2	0.2	N,C
MRPL32	2	mitochondrial ribosomal protein L32	I	0	2.2	0.1	N,C
MGST2	2	microsomal glutathione S-transferase 2	I	13	3.8	1.9	N,C
MCU	2	mitochondrial calcium uniporter	I	0	0.1	1.2	N,C
MARCH4	2	membrane-associated ring finger (C3HC4) 4	I	0	1.8	5.5	N,C
GLB1	2	galactosidase, beta 1	I	8	0.6	1	N,C
GALNTL4	2	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase-like 4	I	0	1	0.3	N,C
GALNTL2	2	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase-like 2	I	0	7	1.3	N,C
GALNT10	2	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 10 (GalNAc-T10)	I	0	1.4	1.7	N,C
FDX1L	2	ferredoxin 1-like	I	0	1.8	0.4	N,C
FDPS	2	farnesyl diphosphate synthase	I	7	0.4	0.1	R,C
ETNK1	2	ethanolamine kinase 1	I	20	3	1.2	R,C

CYB561	2	cytochrome b-561	I	7	0.1	1.5	N,C
COX4I1	2	cytochrome c oxidase subunit IV isoform 1	I	10	0.3	0.3	P,C
CLN8	2	ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental retardation)	I	0	0.3	0.2	N,C
CHST7	2	carbohydrate (N-acetylglucosamine 6-O) sulfotransferase 7	I	18	0.8	0.3	N,C
CHST1	2	carbohydrate (keratan sulfate Gal-6) sulfotransferase 1	I	24	0.8	1.9	N,C
CHIC1	2	cysteine-rich hydrophobic domain 1	I	11	2.3	0.1	N,C
CECR5	2	cat eye syndrome chromosome region, candidate 5	I	0	0.8	0.5	N,C
CCRN4L	2	CCR4 carbon catabolite repression 4-like (<i>S. cerevisiae</i>)	I	14	2.8	2.8	R,C
CBX2	2	chromobox homolog 2	I	11	2.3	2.9	R,C
C6orf70	2	chromosome 6 open reading frame 70	I	0	4.4	0.5	N,C
C14orf2	2	chromosome 14 open reading frame 2	I	13	3.4	0.3	N,C
BACE1	2	beta-site APP-cleaving enzyme 1	I	2	0.6	0.6	N,C
B3GALNT2	2	beta-1,3-N-acetylgalactosaminyltransferase 2	I	0	3.2	0.7	R,C
ATP2C2	2	ATPase, Ca++ transporting, type 2C, member 2	I	8	0.8	2	N,C
ARSD	2	arylsulfatase D	I	0	1.3	0.1	N,C
ACSL5	2	acyl-CoA synthetase long-chain family member 5	I	7	0.7	0.2	P,C
YWHAZ	2	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide	I	14	2.82	0.49	P,R
UBE2V1	2	ubiquitin-conjugating enzyme E2 variant 1	I	18	0.34	0.84	N,R
TYMS	2	thymidylate synthetase	I	23	0.22	-0.08	L,R
TWF1	2	twinfilin, actin-binding protein, homolog 1 (<i>Drosophila</i>)	I	6	0.28	-0.38	N,R
TRIM5	2	tripartite motif containing 5	I	0	3.82	0.29	N,R
TRAPPC2P1	2	trafficking protein particle complex 2 pseudogene 1	I	0	2.62	-1.1	N,R
TMSB15B	2	thymosin beta 15B	I	50	4.94	0.29	N,R
TLK1	2	tousled-like kinase 1	I	0	5.11	-0.61	P,R
TFB1M	2	transcription factor B1, mitochondrial	I	0	3.13	0.36	N,R

TCF3	2	transcription factor 3 (E2A immunoglobulin enhancer binding factors E12/E47)	I	12	-3.09	1.56	N,R
SNORD9 6A	2	small nucleolar RNA, C/D box 96A	I	0	-1.71		N,R
SNORD5 2	2	small nucleolar RNA, C/D box 52	I	0	3.03		N,R
SNHG7	2	small nucleolar RNA host gene 7 (non-protein coding)	I	0	-0.26	1.11	N,R
SNHG3	2	small nucleolar RNA host gene 3 (non-protein coding)	I	0	0.42	1.38	N,R
SMAD1	2	SMAD family member 1	I	17	1.35	-0.07	N,R
SKA2	2	spindle and kinetochore associated complex subunit 2	I	18	2.24	0.03	N,R
SHCBP1	2	SHC SH2-domain binding protein 1	I	0	0.61	-0.42	L,R
SET	2	SET nuclear oncogene	I	16	3.95	0.25	N,R
SEPT2	2	septin 2	I	5	0.45	0.28	P,R
SCARNA1 5	2	small Cajal body-specific RNA 15	I	0	2.31		N,R
S100A16	2	S100 calcium binding protein A16	I	7	0.04	1.01	N,R
RPS27L	2	ribosomal protein S27-like	I	18	3.95	-0.12	N,R
RPLP0	2	ribosomal protein, large, P0	I	8	-1.66	0.33	P,R
RPL6	2	ribosomal protein L6	I	7	-1.07	0.72	P,R
RPL26L1	2	ribosomal protein L26-like 1	I	0	1.75	1.54	N,R
RPL10	2	ribosomal protein L10	I	21	-0.77	0.52	N,R
RND3	2	Rho family GTPase 3	I	29	1.36	-1.4	N,R
RDH10	2	retinol dehydrogenase 10 (all-trans)	I	7	1.6	-1.7	N,R
RAP2B	2	RAP2B, member of RAS oncogene family	I	12	5.08	-0.65	N,R
RAN	2	RAN, member RAS oncogene family	I	8	-1.31	0.02	P,R
RAI14	2	retinoic acid induced 14	I	0	2.45	-0.28	N,R
PSMD1	2	proteasome (prosome, macropain) 26S subunit, non-ATPase, 1	I	6	-0.25	-0.3	P,R
PSMB1	2	proteasome (prosome, macropain) subunit, beta type, 1	I	0	0.69	-0.08	P,R
PSMA2	2	proteasome (prosome, macropain) subunit, alpha type, 2	I	1	2.46	-0.25	P,R
PRELID1	2	PRELI domain containing 1	I	0	-1.33	0.71	N,R

PNP	2	purine nucleoside phosphorylase	I	2	1.58	-0.86	N,R
PHLDA2	2	pleckstrin homology-like domain, family A, member 2	I	24	-6.1	0.92	N,R
PDLIM7	2	PDZ and LIM domain 7 (enigma)	I	12	-4.48	-0.73	N,R
PDLIM4	2	PDZ and LIM domain 4	I	13	-8.79	1.73	N,R
ORC6	2	origin recognition complex, subunit 6	I	0	-0.09	0.68	N,R
NUSAP1	2	nucleolar and spindle associated protein 1	I	8	1.78	3.14	L,R
NUDT5	2	nudix (nucleoside diphosphate linked moiety X)-type motif 5	I	0	1.14	-0.24	P,R
NUDT4	2	nudix (nucleoside diphosphate linked moiety X)-type motif 4	I	0	3.34	0.7	N,R
NT5DC2	2	5'-nucleotidase domain containing 2	I	0	-1.97	0.92	N,R
NPM1	2	nucleophosmin (nucleolar phosphoprotein B23, numatrin)	I	19	-0.73	-0.14	P,R
NOX4	2	NADPH oxidase 4	I	50	2.25	-2.07	N,R
NMT2	2	N-myristoyltransferase 2	I	8	2.71	-0.76	N,R
NIPSNAP 3A	2	nipsnap homolog 3A (C. elegans)	I	0	1.77	-1.15	P,R
MYL6	2	myosin, light chain 6, alkali, smooth muscle and non-muscle	I	5	1.85	-1.27	P,R
MYBL2	2	v-myb myeloblastosis viral oncogene homolog (avian)-like 2	I	18	-6.16	4.37	N,R
MTHFD1 L	2	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1-like	I	3	-0.13	1.74	N,R
MRPL13	2	mitochondrial ribosomal protein L13	I	7	0.88	-0.05	N,R
MITD1	2	MIT, microtubule interacting and transport, domain containing 1	I	0	0.21	0.13	N,R
MIR210	2	microRNA 210	I	65			N,R
MIR126	2	microRNA 126	I	63			N,R
MIER1	2	mesoderm induction early response 1 homolog (Xenopus laevis)	I	21	6.08	-1.25	N,R
METTL21 B	2	methyltransferase like 21B	I	0	1.37	-2.11	N,R
METTL21 A	2	methyltransferase like 21A	I	0	-0.17	-0.27	N,R
LYPLA1	2	lysophospholipase I	I	0	0.42	-0.21	N,R
LOC6543 42	2	lymphocyte-specific protein 1 pseudogene	I	25	1.81	2.87	N,R

LOC645166	2	lymphocyte-specific protein 1 pseudogene	I	50	0.76	0.28	N,R
LOC644961	2	actin, gamma 1 pseudogene	I	0	3.29	-0.04	N,R
LOC550643	2	hypothetical LOC550643	I	0	0.36	-0.14	N,R
LOC541471	2	hypothetical LOC541471	I	0	3.25	0.02	N,R
LOC375295	2	hypothetical LOC375295	I	0	5.69	-1.6	N,R
KRT18	2	keratin 18	I	13	-5.34	0.74	N,R
KPNA2	2	karyopherin alpha 2 (RAG cohort 1, importin alpha 1)	I	10	0.45	0.01	N,R
KIF23	2	kinesin family member 23	I	5	2.87	0.13	L,R
ITGB3BP	2	integrin beta 3 binding protein (beta3-endonexin)	I	18	0.49	-1.11	N,R
IPO11	2	importin 11	I	0	3.19	2.04	N,R
IGF2BP3	2	insulin-like growth factor 2 mRNA binding protein 3	I	34	-0.56	2.98	N,R
HNRNPK	2	heterogeneous nuclear ribonucleoprotein K	I	12	1.91	0.42	P,R
HNRNPA1	2	heterogeneous nuclear ribonucleoprotein A1	I	9	-1.17	1.12	P,R
HMGA1	2	high mobility group AT-hook 1	I	28	-5.08	1.66	N,R
HIST1H4C	2	histone cluster 1, H4c	I	10	3.77	1.99	N,R
H2AFZ	2	H2A histone family, member Z	I	2	0.9	-0.04	N,R
GPN1	2	GPN-loop GTPase 1	I	6	1.54	-0.45	N,R
GLTP	2	glycolipid transfer protein	I	0	2.56	-0.38	N,R
GIPC2	2	GIPC PDZ domain containing family, member 2	I	9	7.19	-2.17	N,R
GINS2	2	GINS complex subunit 2 (Psf2 homolog)	I	12	-0.18	2.06	L,R
FRMD6	2	FERM domain containing 6	I	11	1.37	-1.13	N,R
FOXO1	2	forkhead box M1	I	53	0.19	1.6	L,R
FLJ41200	2	hypothetical LOC401492	I	0	9.89	1.2	N,R
FKBP10	2	FK506 binding protein 10, 65 kDa	I	16	-2.02	1.41	N,R

FBLIM1	2	filamin binding LIM protein 1	I	21	-0.01	0.3	N,R
FAM60A	2	family with sequence similarity 60, member A	I	9	-1.35	0.57	N,R
FAM114A1	2	family with sequence similarity 114, member A1	I	10	2.5	-0.4	N,R
EXOSC8	2	exosome component 8	I	0	0.34	0.26	N,R
EXOC3L2	2	exocyst complex component 3-like 2	I	11	2.07	0.23	N,R
ERAP2	2	endoplasmic reticulum aminopeptidase 2	I	16	1.09	0.15	N,R
EIF4E	2	eukaryotic translation initiation factor 4E	I	20	0.63	-0.61	N,R
EIF2S2	2	eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa	I	6	1.81	-0.03	N,R
EEF1A1	2	eukaryotic translation elongation factor 1 alpha 1	I	17	-1.05	0.92	P,R
EAF1	2	ELL associated factor 1	I	8	2.5	0.19	N,R
DIAPH3	2	diaphanous homolog 3 (Drosophila)	I	0	5.89	1	N,R
DDB2	2	damage-specific DNA binding protein 2, 48kDa	I	14	-0.07	1.86	N,R
DCUN1D1	2	DCN1, defective in cullin neddylation 1, domain containing 1 (S. cerevisiae)	I	12	2.78	-0.18	N,R
CYP1A1	2	cytochrome P450, family 1, subfamily A, polypeptide 1	I	9	-2.06	-3.39	N,R
COX7A2L	2	cytochrome c oxidase subunit VIIa polypeptide 2 like	I	0	2.11	-0.78	N,R
CIAPIN1	2	cytokine induced apoptosis inhibitor 1	I	7	1.24	0.77	N,R
CENPW	2	centromere protein W	I	13	5.49	2.18	N,R
CENPN	2	centromere protein N	I	0	0.75	0.03	L,R
CDK1	2	cyclin-dependent kinase 1	I	15	0.82	2.63	N,R
CDC42EP5	2	CDC42 effector protein (Rho GTPase binding) 5	I	0	-6.1	1.04	N,R
CDC20	2	cell division cycle 20 homolog (S. cerevisiae)	I	12	-3.63	1.64	L,R
C5orf56	2	chromosome 5 open reading frame 56	I	0	0.82	3.92	N,R
C4orf49	2	chromosome 4 open reading frame 49	I	0			N,R
C2orf68	2	chromosome 2 open reading frame 68	I	0	3.31	1	N,R
BPNT1	2	3'(2'), 5'-bisphosphate nucleotidase 1	I	0	1.84	-0.23	P,R
BIRC5	2	baculoviral IAP repeat containing 5	I	39	0.09	2.24	L,R
BCAT1	2	branched chain amino-acid transaminase 1, cytosolic	I	14	2.13	-0.48	N,R

BCAP31	2	B-cell receptor-associated protein 31	I	11	1.77	-0.34	N,R
BACE2	2	beta-site APP-cleaving enzyme 2	I	8	2.41	-0.23	N,R
AURKB	2	aurora kinase B	I	24	-4.14	6.72	N,R
ARPC3	2	actin related protein 2/3 complex, subunit 3, 21kDa	I	0	1.81	0.49	N,R
ARF4	2	ADP-ribosylation factor 4	I	0	0.04	0.06	P,R
ANP32E	2	acidic (leucine-rich) nuclear phosphoprotein 32 family, member E	I	8	4.76	-0.82	N,R
AKAP12	2	A kinase (PRKA) anchor protein 12	I	30	4.93	-0.44	N,R
AK4	2	adenylate kinase 4	I	0	-0.2	-2.25	N,R
ACTN1	2	actinin, alpha 1	I	11	-1	-0.54	P,R
UBFD1	2	ubiquitin family domain containing 1	I	0	0.19	-0.1	N,L
UBE2S	2	ubiquitin-conjugating enzyme E2S	I	14	-5.1	1.32	N,L
TUBB2A	2	tubulin, beta 2A	I	3	-3.48	3.41	N,L
TROAP	2	trophinin associated protein (tastin)	I	0	-2.86	6.87	N,L
TRIP13	2	thyroid hormone receptor interactor 13	I	5	-1.44	1.02	N,L
TDO2	2	tryptophan 2,3-dioxygenase	I	8	-7.03	-2.36	N,L
STEAP1	2	six transmembrane epithelial antigen of the prostate 1	I	43	4.02	-2.67	N,L
SPC25	2	SPC25, NDC80 kinetochore complex component, homolog (S. cerevisiae)	I	0	-1.66	0.06	N,L
SPC24	2	SPC24, NDC80 kinetochore complex component, homolog (S. cerevisiae)	I	0		2.76	N,L
SNHG1	2	small nucleolar RNA host gene 1 (non-protein coding)	I	0	-4	0.69	N,L
SLC25A10	2	solute carrier family 25 (mitochondrial carrier; dicarboxylate transporter), member 10	I	0	-8	-0.82	P,L
SLC25A1	2	solute carrier family 25 (mitochondrial carrier; citrate transporter), member 1	I	0	-9.97	0.1	P,L
SDSL	2	serine dehydratase-like	I	0	-4.54	0.07	N,L
SALL4	2	sal-like 4 (Drosophila)	I	20		2.76	N,L
RIPK2	2	receptor-interacting serine-threonine kinase 2	I	15	-1.06	0.61	N,L
PYGL	2	phosphorylase, glycogen, liver	I	0	-0.23	0.08	P,L
PYCR1	2	pyrroline-5-carboxylate reductase 1	I	13	-4.86	1.42	N,L

PPIF	2	peptidylprolyl isomerase F	I	0	-4.52	0.38	N,L
PMAIP1	2	phorbol-12-myristate-13-acetate-induced protein 1	I	35	-1.66	-0.7	N,L
PDIA4	2	protein disulfide isomerase family A, member 4	I	6	-0.72	0.5	P,L
PC	2	pyruvate carboxylase	I	0	-6.1	-1.05	P,L
NME2	2	non-metastatic cells 2, protein (NM23B) expressed in	I	43	-0.42	-0.26	N,L
NME1	2	non-metastatic cells 1, protein (NM23A) expressed in	I	47	-0.25	0.82	N,L
MTX2	2	metaxin 2	I	0	-0.46	-1	N,L
MRPL3	2	mitochondrial ribosomal protein L3	I	0	-0.99	0.53	N,L
MRPL12	2	mitochondrial ribosomal protein L12	I	6	-9.15	1.08	N,L
MEX3B	2	mex-3 homolog B (C. elegans)	I	0	0.82	1.56	N,L
MEST	2	mesoderm specific transcript homolog (mouse)	I	18	-9.56	1.14	N,L
MAFB	2	v-maf musculoaponeurotic fibrosarcoma oncogene homolog B (avian)	I	13	1.75	0.49	N,L
LSM4	2	LSM4 homolog, U6 small nuclear RNA associated (S. cerevisiae)	I	0	-3.89	1.44	N,L
KRT80	2	keratin 80	I	0	-8.57	0.09	N,L
KIF2C	2	kinesin family member 2C	I	12	-1.65	1.65	N,L
IER5	2	immediate early response 5	I	0	-0.52	1.09	N,L
HSPA1B	2	heat shock 70kDa protein 1B	I	13	-1.28	1.72	N,L
HN1	2	hematological and neurological expressed 1	I	14	-1.24	1.6	N,L
HIST2H2AA4	2	histone cluster 2, H2aa4	I	0			N,L
HIST1H4K	2	histone cluster 1, H4k	I	8			N,L
HIST1H3H	2	histone cluster 1, H3h	I	9	-2.64		N,L
HIST1H2BK	2	histone cluster 1, H2bk	I	6	-7.59	0.16	N,L
HIST1H2BC	2	histone cluster 1, H2bc	I	13	1.75	-0.7	N,L
HIST1H2AM	2	histone cluster 1, H2am	I	8		2.76	N,L

HES6	2	hairy and enhancer of split 6 (<i>Drosophila</i>)	I	20	-8.57	2.57	N,L
H2AFX	2	H2A histone family, member X	I	19	-4.56	1.54	N,L
GRB7	2	growth factor receptor-bound protein 7	I	37	-6.1	0.66	N,L
GAPDH	2	glyceraldehyde-3-phosphate dehydrogenase	I	13	-2.44	1.38	P,L
FER1L4	2	fer-1-like 4 (<i>C. elegans</i>) pseudogene	I	0	3.03	-0.23	N,L
DEPDC7	2	DEP domain containing 7	I	33	-7.03	-1.47	N,L
DEPDC1	2	DEP domain containing 1	I	0	-0.82	2.18	N,L
DDIT3	2	DNA-damage-inducible transcript 3	I	24	-1.19	-0.89	N,L
CENPM	2	centromere protein M	I	14	-8.57	1.14	N,L
CDKN2B	2	cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4)	I	25	-4.18	-0.29	N,L
CDK5R1	2	cyclin-dependent kinase 5, regulatory subunit 1 (p35)	I	8		2.08	N,L
CDCA3	2	cell division cycle associated 3	I	0	-4.14	4.21	N,L
CCNE1	2	cyclin E1	I	36	2.72	3.32	N,L
CBX4	2	chromobox homolog 4	I	9	-1.68	0.16	N,L
BUB1	2	budding uninhibited by benzimidazoles 1 homolog (yeast)	I	24	-0.88	1.41	N,L
AURKA	2	aurora kinase A	I	40	-0.2	3.08	N,L
ANLN	2	anillin, actin binding protein	I	12	0.53	-0.7	N,L
YWHAQ	2	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide	I	10	-1.91	0.79	N,P
UQCRC1	2	ubiquinol-cytochrome c reductase core protein I	I	4	-3.54	-0.03	N,P
TUBB3	2	tubulin, beta 3	I	26	-6.57	4.3	N,P
TUBB2B	2	tubulin, beta 2B	I	15	-8.98	7.58	N,P
TSEN54	2	tRNA splicing endonuclease 54 homolog (<i>S. cerevisiae</i>)	I	0	-7.03	0.57	N,P
TPM1	2	tropomyosin 1 (alpha)	I	15	0.85	-0.36	N,P
SULT1E1	2	sulfotransferase family 1E, estrogen-preferring, member 1	I	7	1.75	1.84	N,P
SLC33A1	2	solute carrier family 33 (acetyl-CoA transporter), member 1	I	0	-1.65	0.68	N,P
SLC25A5	2	solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 5	I	15	-0.6	-0.4	N,P
SERPINA5	2	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 5	I	13	-7.59	-2.43	N,P

SDHC	2	succinate dehydrogenase complex, subunit C, integral membrane protein, 15kDa	I	37	-1.7	0.32	N,P
RRBP1	2	ribosome binding protein 1 homolog 180kDa (dog)	I	4	-6.1	0.25	N,P
RPSA	2	ribosomal protein SA	I	31	-3.32	0.18	N,P
RPS3	2	ribosomal protein S3	I	5	-1.49	0.6	N,P
RPS2	2	ribosomal protein S2	I	10	-3.54	1.53	N,P
PTGR1	2	prostaglandin reductase 1	I	23	2.05	0.09	N,P
PSMA6	2	proteasome (prosome, macropain) subunit, alpha type, 6	I	6	0.11	0.71	N,P
PSAT1	2	phosphoserine aminotransferase 1	I	0	-3.02	0.36	N,P
PPIC	2	peptidylprolyl isomerase C (cyclophilin C)	I	8	0	-1.81	N,P
POMGNT1	2	protein O-linked mannose beta1,2-N-acetylglucosaminyltransferase	I	7	-5.33	-0.23	N,P
POFUT2	2	protein O-fucosyltransferase 2	I	18	3.29	-0.01	N,P
PKP1	2	plakophilin 1 (ectodermal dysplasia/skin fragility syndrome)	I	10	-8	0.53	N,P
PHGDH	2	phosphoglycerate dehydrogenase	I	11	-4.72	-0.21	N,P
PHB2	2	prohibitin 2	I	15	-4.09	0.64	N,P
PGM1	2	phosphoglucomutase 1	I	0	-4.3	-0.05	N,P
PGLS	2	6-phosphogluconolactonase	I	0	-3.57	0.7	N,P
PFN2	2	profilin 2	I	7	-3.35	-0.22	N,P
PCCA	2	propionyl CoA carboxylase, alpha polypeptide	I	5	-3.61	-0.42	N,P
PAICS	2	phosphoribosylaminoimidazole carboxylase, phosphoribosylaminoimidazole succinocarboxamide synthetase	I	0	0.23	0.53	N,P
OXSR1	2	oxidative-stress responsive 1	I	0	-1.3	0.1	N,P
OLA1	2	Obg-like ATPase 1	I	5	-1.69	0.77	N,P
OAS3	2	2'-5'-oligoadenylate synthetase 3, 100kDa	I	0	-0.17	0.68	N,P
NPEPPS	2	aminopeptidase puromycin sensitive	I	8	1.4	0.07	N,P
NMT1	2	N-myristoyltransferase 1	I	6	-1.52	0.16	N,P
NME1-NME2	2	NME1-NME2 readthrough	I	54	-1.36	3.69	N,P
MST1	2	macrophage stimulating 1 (hepatocyte growth factor-like)	I	16	-7.03	0.53	N,P

MIPEP	2	mitochondrial intermediate peptidase	I	0	-7.59	-0.04	N,P
MDH2	2	malate dehydrogenase 2, NAD (mitochondrial)	I	3	-3.45	0.26	N,P
MCCC1	2	methylcrotonoyl-CoA carboxylase 1 (alpha)	I	0	0.41	-1.53	N,P
LONP2	2	lon peptidase 2, peroxisomal	I	0	-2.9	-0.33	N,P
KRT19	2	keratin 19	I	31	-13.06	1.68	N,P
KRT17	2	keratin 17	I	8	-12.29	1.1	N,P
KRT15	2	keratin 15	I	14	-8.79	-0.25	N,P
KRT14	2	keratin 14	I	8	-9.88	1.32	N,P
KRT13	2	keratin 13	I	3		-1.49	N,P
KRT12	2	keratin 12	I	0			N,P
JUP	2	junction plakoglobin	I	29	-2.03	0.93	N,P
IPO5	2	importin 5	I	1	0.21	-0.73	N,P
IDH2	2	isocitrate dehydrogenase 2 (NADP+), mitochondrial	I	30	-4.68	0.04	N,P
HSPA2	2	heat shock 70kDa protein 2	I	7	-3.61	-0.42	N,P
HSD11B1	2	hydroxysteroid (11-beta) dehydrogenase 1	I	9	-8.31	-2.92	N,P
HRSP12	2	heat-responsive protein 12	I	31	-2.23	-1.58	N,P
HNRNPA1L2	2	heterogeneous nuclear ribonucleoprotein A1-like 2	I	0	-0.02	2.53	N,P
HMBS	2	hydroxymethylbilane synthase	I	4	-3.62	-0.35	N,P
HM13	2	histocompatibility (minor) 13	I	3	-2.18	0.37	N,P
HIST2H2AC	2	histone cluster 2, H2ac	I	6			N,P
HBA2	2	hemoglobin, alpha 2	I	1	-8.57	0.64	N,P
HADH	2	hydroxyacyl-CoA dehydrogenase	I	0	-1.97	-0.35	N,P
H1FO	2	H1 histone family, member 0	I	6	-5.04	2.13	N,P
GSTT1	2	glutathione S-transferase theta 1	I	8	-8	-1.49	N,P
GSTM4	2	glutathione S-transferase mu 4	I	16	-2.07	0.14	N,P
GNMT	2	glycine N-methyltransferase	I	24		0.73	N,P
GHITM	2	growth hormone inducible transmembrane protein	I	5	0.9	-0.46	N,P
GFPT1	2	glutamine--fructose-6-phosphate transaminase 1	I	5	-1.04	-0.13	N,P

FH	2	fumarate hydratase	I	48	-1.09	-0.98	N,P
FANCI	2	Fanconi anemia, complementation group I	I	5	1.29	1.7	N,P
FAM82B	2	family with sequence similarity 82, member B	I	17	-0.98	-0.08	N,P
FAH	2	fumarylacetoacetate hydrolase (fumarylacetoacetase)	I	3	-10.22	-0.27	N,P
FABP6	2	fatty acid binding protein 6, ileal	I	4		5.96	N,P
FABP1	2	fatty acid binding protein 1, liver	I	15	-8.57	-1.27	N,P
ERP29	2	endoplasmic reticulum protein 29	I	25	-2.1	0.46	N,P
EIF3B	2	eukaryotic translation initiation factor 3, subunit B	I	2	-3.64	-0.23	N,P
EHHADH	2	enoyl-CoA, hydratase/3-hydroxyacyl CoA dehydrogenase	I	0	-0.85	-1.08	N,P
ECI2	2	enoyl-CoA delta isomerase 2	I	9	0.36	-0.57	N,P
DECR1	2	2,4-dienoyl CoA reductase 1, mitochondrial	I	3	2.22	-0.7	N,P
CYP2W1	2	cytochrome P450, family 2, subfamily W, polypeptide 1	I	44	2.31	-2.6	N,P
CYC1	2	cytochrome c-1	I	3	-3.48	-0.46	N,P
CYB5A	2	cytochrome b5 type A (microsomal)	I	4	-1.07	0.27	N,P
CSE1L	2	CSE1 chromosome segregation 1-like (yeast)	I	20	-0.83	0.75	N,P
COPB1	2	coatamer protein complex, subunit beta 1	I	0	0.5	0.77	N,P
CNTNAP2	2	contactin associated protein-like 2	I	5	0.28	-0.36	N,P
CLIC2	2	chloride intracellular channel 2	I	11	-0.87	-1.4	N,P
CKB	2	creatine kinase, brain	I	8	-8.31	0.71	N,P
CEP128	2	centrosomal protein 128kDa	I	0	2.31	2.18	N,P
CA13	2	carbonic anhydrase XIII	I	0	2.72	1.56	N,P
BRP44L	2	brain protein 44-like	I	0	-3.37	-1.98	N,P
BPHL	2	biphenyl hydrolase-like (serine hydrolase)	I	13	4.15	0.43	N,P
BPGM	2	2,3-bisphosphoglycerate mutase	I	0	-1.82	-0.07	N,P
BLVRB	2	biliverdin reductase B (flavin reductase (NADPH))	I	0	-2.42	0.29	N,P
BAAT	2	bile acid CoA: amino acid N-acyltransferase (glycine N-choloyltransferase)	I	6	-5.33	-1.79	N,P
ATP5O	2	ATP synthase, H ⁺ transporting, mitochondrial F1 complex, O subunit	I	4	0.21	-0.07	N,P

ATP5C1	2	ATP synthase, H ⁺ transporting, mitochondrial F1 complex, gamma polypeptide 1	I	0	-0.04	-1.43	N,P
ALG12	2	asparagine-linked glycosylation 12, alpha-1,6-mannosyltransferase homolog (<i>S. cerevisiae</i>)	I	0		0.1	N,P
ALDOC	2	aldolase C, fructose-bisphosphate	I	0	-3.92	-0.62	N,P
ALDH5A1	2	aldehyde dehydrogenase 5 family, member A1	I	0	-0.69	-0.26	N,P
AKR1B10	2	aldo-keto reductase family 1, member B10 (aldose reductase)	I	39	-7.59	0.66	N,P
AHCY	2	adenosylhomocysteinase	I	10	-3.29	0.54	N,P
ADK	2	adenosine kinase	I	18	2.47	-0.36	N,P
ACTA2	2	actin, alpha 2, smooth muscle, aorta	I	24	-3.52	-0.87	N,P
ACADL	2	acyl-CoA dehydrogenase, long chain	I	10	-0.43	-1.04	N,P
ACAA1	2	acetyl-CoA acyltransferase 1	I	13	-4.03	-0.86	N,P
ABCA1	2	ATP-binding cassette, sub-family A (ABC1), member 1	I	12	5.05	-0.29	N,P
YIPF5	2	Yip1 domain family, member 5	M	0	1.5	0.4	R,C
VSIG10	2	V-set and immunoglobulin domain containing 10	M	0	4.9	0.4	R,C
VSIG1	2	V-set and immunoglobulin domain containing 1	M	50	1.1	0.5	R,C
TTC13	2	tetratricopeptide repeat domain 13	M	0	2.7	3.9	N,C
TNFRSF25	2	tumor necrosis factor receptor superfamily, member 25	M	51	3.3	1.9	N,C
TMEM59L	2	transmembrane protein 59-like	M	0	6.5	1.2	N,C
TMEM41A	2	transmembrane protein 41A	M	0	2	0.3	N,C
TMEM189-UBE2V1	2	TMEM189-UBE2V1 readthrough	M	15	0.8	0.3	N,C
TMCC1	2	transmembrane and coiled-coil domain family 1	M	0	0.9	0.7	N,C
TLCD1	2	TLC domain containing 1	M	0	0.8	0.6	N,C
TBXA2R	2	thromboxane A2 receptor	M	22	0.9	0.4	R,C
SLC44A5	2	solute carrier family 44, member 5	M	0	3	1.8	N,C

SLC44A3	2	solute carrier family 44, member 3	M	9	2.7	1.1	N,C
SLC36A4	2	solute carrier family 36 (proton/amino acid symporter), member 4	M	25	3	1.7	N,C
SLC35G1	2	solute carrier family 35, member G1	M	0	0.8	4.7	N,C
SLC35F1	2	solute carrier family 35, member F1	M	33	0.4	0.4	N,C
SEMA6C	2	sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6C	M	0	0.8	0.2	N,C
SDK2	2	sidekick homolog 2 (chicken)	M	0	0.8	1.2	P,C
RPRML	2	reprimin-like	M	0	0.8	0.8	N,C
RHBDL2	2	rhomboid, veinlet-like 2 (Drosophila)	M	8	5	0.9	L,C
RECK	2	reversion-inducing-cysteine-rich protein with kazal motifs	M	56	0.5	0.3	P,C
PVRL3	2	poliovirus receptor-related 3	M	23	5.7	0	P,C
PLXND1	2	plexin D1	M	58	4.2	1.3	P,C
PKD1L1	2	polycystic kidney disease 1 like 1	M	0	0.8	0.2	N,C
PDPN	2	podoplanin	M	66	1.8	1.9	N,C
PCDHA9	2	protocadherin alpha 9	M	9	1.8	1.5	N,C
ODZ3	2	odz, odd Oz/ten-m homolog 3 (Drosophila)	M	10	0.8	1.3	P,C
NDUFA4L2	2	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4-like 2	M	0	0.8	1	N,C
MMP15	2	matrix metalloproteinase 15 (membrane-inserted)	M	19	0.8	4	P,C
MGST3	2	microsomal glutathione S-transferase 3	M	5	2.2	0.8	P,C
MERTK	2	c-met proto-oncogene tyrosine kinase	M	5	1.3	0.5	N,C
MARCH6	2	membrane-associated ring finger (C3HC4) 6	M	0	2.7	1	R,C
LRRN4	2	leucine rich repeat neuronal 4	M	13	2.6	0.4	P,C
KCNK17	2	potassium channel, subfamily K, member 17	M	0	0.8	2.8	N,C
ITGA6	2	integrin, alpha 6	M	27	2.7	0.5	P,C
IL31RA	2	interleukin 31 receptor A	M	11	2.7	4.3	P,C
IL20RB	2	interleukin 20 receptor beta	M	13	7.6	0.9	L,C
IGFLR1	2	IGF-like family receptor 1	M	50	2.3	1.8	N,C
IGF1R	2	insulin-like growth factor 1 receptor	M	30	1.6	0.3	P,C

HRH1	2	histamine receptor H1	M	11	5.2	1.1	N,C
GRIN2D	2	glutamate receptor, ionotropic, N-methyl D-aspartate 2D	M	2	0.8	0	N,C
GPR143	2	G protein-coupled receptor 143	M	3	2.3	0.8	N,C
GLCE	2	glucuronic acid epimerase	M	15	6.7	0.6	N,C
FCGR2A	2	Fc fragment of IgG, low affinity IIa, receptor (CD32)	M	8	1.8	0.3	N,C
FCGR1A	2	Fc fragment of IgG, high affinity Ia, receptor (CD64)	M	10	0.8	7.1	N,C
FAT4	2	FAT tumor suppressor homolog 4 (Drosophila)	M	20	5.1	1.6	P,C
FAM69B	2	family with sequence similarity 69, member B	M	33	3.3	2.1	R,C
FAM26E	2	family with sequence similarity 26, member E	M	0	3.9	1.6	N,C
FAM18B 2-CDRT4	2	FAM18B2-CDRT4 readthrough	M	0	0.8	2.8	N,C
FAM18B 2	2	family with sequence similarity 18, member B2	M	0	1.1	0.9	N,C
EPHB1	2	EPH receptor B1	M	35	4	3.2	P,C
DTNA	2	dystrobrevin, alpha	M	5	2.7	0.9	N,C
DERL2	2	Der1-like domain family, member 2	M	7	2.3	0.6	R,C
CYR1	2	cysteine/tyrosine-rich 1	M	22	1.6	0.9	N,C
COX16	2	COX16 cytochrome c oxidase assembly homolog (S. cerevisiae)	M	13	3.1	1.3	R,C
COLEC12	2	collectin sub-family member 12	M	50	1.8	0.2	P,C
CNTNAP 1	2	contactin associated protein 1	M	6	3	0.5	P,C
CNNM3	2	cyclin M3	M	0	1.5	0.8	N,C
CDKAL1	2	CDK5 regulatory subunit associated protein 1-like 1	M	2	2.3	1.1	N,C
CACHD1	2	cache domain containing 1	M	0	0.8	0.2	N,C
C1QTNF6	2	C1q and tumor necrosis factor related protein 6	M	0	0.1	1.5	N,C
C18orf26	2	chromosome 18 open reading frame 26	M	0	4.7	0.6	R,C
C11orf10	2	chromosome 11 open reading frame 10	M	7	3.5	0.4	N,C
BOC	2	Boc homolog (mouse)	M	7	0.8	0.8	P,C
AXL	2	AXL receptor tyrosine kinase	M	41	7.3	0	R,C
ADAM10	2	ADAM metalloproteinase domain 10	M	30	2.9	0	P,C

ABCC5	2	ATP-binding cassette, sub-family C (CFTR/MRP), member 5	M	20	0.3	0.7	N,C
ZDHC2	2	zinc finger, DHHC-type containing 2	M	23	2.69	-0.22	N,R
TNFRSF1 OD	2	tumor necrosis factor receptor superfamily, member 10d, decoy with truncated death domain	M	43	-1.87	3.17	N,R
TNFRSF1 OC	2	tumor necrosis factor receptor superfamily, member 10c, decoy without an intracellular domain	M	47	3.03	-4.16	N,R
TM4SF18	2	transmembrane 4 L six family member 18	M	0	5.43	-0.85	N,R
SLC7A11	2	solute carrier family 7 (anionic amino acid transporter light chain, xc- system), member 11	M	18	1.3	-0.62	N,R
OSTC	2	oligosaccharyltransferase complex subunit	M	0	-0.83	-0.73	P,R
NT5E	2	5'-nucleotidase, ecto (CD73)	M	38	0.89	-1.94	P,R
MAGT1	2	magnesium transporter 1	M	4	1.38	-1.7	P,R
LYPD1	2	LY6/PLAUR domain containing 1	M	20	-3.22	3.34	N,R
IL6ST	2	interleukin 6 signal transducer (gp130, oncostatin M receptor)	M	14	1.9	-0.7	P,R
HTR1B	2	5-hydroxytryptamine (serotonin) receptor 1B	M	7		2.76	N,R
HSD17B2	2	hydroxysteroid (17-beta) dehydrogenase 2	M	18	8.2	-0.01	P,R
GPX8	2	glutathione peroxidase 8 (putative)	M	0	2.04	-0.94	N,R
GPR176	2	G protein-coupled receptor 176	M	0	-6.1	-1.64	N,R
GP6	2	glycoprotein VI (platelet)	M	20	-0.18	0.11	N,R
FAM70B	2	family with sequence similarity 70, member B	M	0	-2.64	1.2	N,R
DCBLD2	2	discoidin, CUB and LCCL domain containing 2	M	29	-0.08	-1.66	P,R
CRIM1	2	cysteine rich transmembrane BMP regulator 1 (chordin-like)	M	11	6.87	-1.9	N,R
C12orf23	2	chromosome 12 open reading frame 23	M	0	5.25	-0.53	N,R
ANXA3	2	annexin A3	M	23	1.26	-1.23	N,R
VKORC1L 1	2	vitamin K epoxide reductase complex, subunit 1-like 1	M	0		-0.7	P,L
UGT8	2	UDP glycosyltransferase 8	M	0	1.75	-3.1	N,L
SLC39A4	2	solute carrier family 39 (zinc transporter), member 4	M	7		-1.08	N,L
SERINC2	2	serine incorporator 2	M	14	-8.57	-0.39	N,L
RASL11B	2	RAS-like, family 11, member B	M	17	-7.03	0.61	N,L

PCDH7	2	protocadherin 7	M	8	1.75	-0.05	N,L
LPAR2	2	lysophosphatidic acid receptor 2	M	29		0.16	N,L
FZD2	2	frizzled family receptor 2	M	5	-1.68	2.76	P,L
ENTPD8	2	ectonucleoside triphosphate diphosphohydrolase 8	M	0		0.79	P,L
BLNK	2	B-cell linker	M	2	-8	0.73	N,L
VCAM1	2	vascular cell adhesion molecule 1	M	70	-0.35	-0.98	N,P
UPK3B	2	uroplakin 3B	M	0		0.48	N,P
TP53I11	2	tumor protein p53 inducible protein 11	M	38	-0.52	0.44	N,P
TLR2	2	toll-like receptor 2	M	14	-3.2	0.46	N,P
SUSD2	2	sushi domain containing 2	M	0	-6.1	-1.86	N,P
STEAP3	2	STEAP family member 3	M	21	-2.64	-0.57	N,P
STAB2	2	stabilin 2	M	38	-7.03	-0.7	N,P
SLC16A1	2	solute carrier family 16, member 1 (monocarboxylic acid transporter 1)	M	13	-0.55	-0.01	N,P
SEMA7A	2	semaphorin 7A, GPI membrane anchor (John Milton Hagen blood group)	M	15	-7.03	-5.49	N,P
SEMA4B	2	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4B	M	6	-4.54	0.82	N,P
REEP5	2	receptor accessory protein 5	M	20	0.72	-0.49	N,P
PTPRD	2	protein tyrosine phosphatase, receptor type, D	M	19	-3.57	-0.51	N,P
PSCA	2	prostate stem cell antigen	M	29		-4.5	N,P
PRNP	2	prion protein	M	3	-0.59	-0.2	N,P
PPIB	2	peptidylprolyl isomerase B (cyclophilin B)	M	6	0.14	-2.01	N,P
PLXNB1	2	plexin B1	M	35	-5.52	-0.98	N,P
PLA2R1	2	phospholipase A2 receptor 1, 180kDa	M	18	1.75	-1.95	N,P
NGFR	2	nerve growth factor receptor	M	24		1.92	N,P
NEGR1	2	neuronal growth regulator 1	M	6	1.75	-1.81	N,P
NCAM2	2	neural cell adhesion molecule 2	M	6	-6.1	0.27	N,P
LINGO1	2	leucine rich repeat and Ig domain containing 1	M	0		2.07	N,P
ITGB6	2	integrin, beta 6	M	22	-7.59	0.79	N,P

ITGA11	2	integrin, alpha 11	M	11	-0.52	2.4	N,P
IL1RAP	2	interleukin 1 receptor accessory protein	M	10	2.72	-1.47	N,P
HLA-A	2	major histocompatibility complex, class I, A	M	7	-2.55	0.73	N,P
GPR125	2	G protein-coupled receptor 125	M	9	-3.21	0.69	N,P
GGT5	2	gamma-glutamyltransferase 5	M	8	-3.2	0.03	N,P
GCGR	2	glucagon receptor	M	0		-1.64	N,P
GAS1	2	growth arrest-specific 1	M	29	-8	-1.01	N,P
FOLR1	2	folate receptor 1 (adult)	M	20		-1.65	N,P
FAT2	2	FAT tumor suppressor homolog 2 (Drosophila)	M	13	-7.59	-1.02	N,P
FAM171A1	2	family with sequence similarity 171, member A1	M	0	1.75	-0.7	N,P
EPHA4	2	EPH receptor A4	M	21	-2.64	-0.78	N,P
DSC2	2	desmocollin 2	M	10	-9.88	0.22	N,P
CXADR	2	coxsackie virus and adenovirus receptor	M	24	3.08	-0.01	N,P
CR2	2	complement component (3d/Epstein Barr virus) receptor 2	M	4		-2.38	N,P
CELSR1	2	cadherin, EGF LAG seven-pass G-type receptor 1 (flamingo homolog, Drosophila)	M	10		-0.44	N,P
CDH6	2	cadherin 6, type 2, K-cadherin (fetal kidney)	M	29	-1.44	-0.76	N,P
CDH2	2	cadherin 2, type 1, N-cadherin (neuronal)	M	36	-3	-0.49	N,P
CDH13	2	cadherin 13, H-cadherin (heart)	M	42	4.35	-0.92	N,P
CD200	2	CD200 molecule	M	38	-2.64	0.29	N,P
CACNA2D2	2	calcium channel, voltage-dependent, alpha 2/delta subunit 2	M	33		1.44	N,P
BCAP29	2	B-cell receptor-associated protein 29	M	6	0.36	-0.25	N,P
ATP1B1	2	ATPase, Na ⁺ /K ⁺ transporting, beta 1 polypeptide	M	7	0.72	-0.93	N,P
AMIGO2	2	adhesion molecule with Ig-like domain 2	M	10	-8.98	0.13	N,P
ULBP2	2	UL16 binding protein 2	E	40	0.1	1.5	N,C
THSD4	2	thrombospondin, type I, domain containing 4	E	8	0.3	0.1	P,C
SULF2	2	sulfatase 2	E	29	2	1.8	N,C
SIAE	2	sialic acid acetyltransferase	E	8	0.9	0.7	N,C

PRSS3	2	protease, serine, 3	E	18	4.2	0.2	N,C
PRAP1	2	proline-rich acidic protein 1	E	0	0.8	0.1	N,C
POGLUT1	2	protein O-glucosyltransferase 1	E	0	3.9	0.4	R,C
PLA2G10	2	phospholipase A2, group X	E	15	1.8	4.7	N,C
PDGFA	2	platelet-derived growth factor alpha polypeptide	E	34	5.8	0	R,C
OLFML1	2	olfactomedin-like 1	E	0	1.8	1.5	N,C
NRN1	2	neuritin 1	E	20	0.2	1.7	N,C
LYG2	2	lysozyme G-like 2	E	0	0.8	2.8	P,C
HTN3	2	histatin 3	E	0	5.6	2.8	R,C
GPC5	2	glypican 5	E	6	3.3	0.8	P,C
ENPP6	2	ectonucleotide pyrophosphatase/phosphodiesterase 6	E	0	4.7	0.5	P,C
EMILIN3	2	elastin microfibril interfacer 3	E	14	2.3	2.4	P,C
CTSZ	2	cathepsin Z	E	12	1.3	0.9	P,C
CSF2RA	2	colony stimulating factor 2 receptor, alpha, low-affinity (granulocyte-macrophage)	E	9	4.2	1.8	N,C
CFI	2	complement factor I	E	11	0.7	1.6	P,C
C3orf58	2	chromosome 3 open reading frame 58	E	0	7.1	0.2	N,C
TGFB1	2	transforming growth factor, beta 1	E	26	-5.49	-0.53	N,R
SERPINB9	2	serpin peptidase inhibitor, clade B (ovalbumin), member 9	E	34	2.56	0.22	P,R
PMCH	2	pro-melanin-concentrating hormone	E	3	4.02	-1.26	L,R
PDGFC	2	platelet derived growth factor C	E	51	1.67	-0.8	N,R
PAPL	2	iron/zinc purple acid phosphatase-like protein	E	0	-0.72	-0.93	N,R
P4HA3	2	prolyl 4-hydroxylase, alpha polypeptide III	E	20	-1.36	-1.11	N,R
NUDT19	2	nudix (nucleoside diphosphate linked moiety X)-type motif 19	E	0	7.4	-0.29	N,R
MDK	2	midkine (neurite growth-promoting factor 2)	E	42	-5.98	1.04	N,R
GDF6	2	growth differentiation factor 6	E	4		-2.2	N,R
GDF3	2	growth differentiation factor 3	E	13	-3.04	-5.66	N,R
GDF15	2	growth differentiation factor 15	E	38	-9.3	0.38	N,R
FLNA	2	filamin A, alpha	E	11	-6.5	-0.12	P,R

DKK1	2	dickkopf homolog 1 (<i>Xenopus laevis</i>)	E	31	-2.19	-0.7	N,R
CAPZA1	2	capping protein (actin filament) muscle Z-line, alpha 1	E	6	4.27	-0.24	P,R
ADAMTS 18	2	ADAM metallopeptidase with thrombospondin type 1 motif, 18	E	44	4.5	6.22	N,R
TNFSF9	2	tumor necrosis factor (ligand) superfamily, member 9	E	49	-6.1	0.23	N,L
PLAU	2	plasminogen activator, urokinase	E	38	-3.4	0.33	N,L
NOTCH3	2	notch 3	E	40	-8	0.35	N,L
MMP12	2	matrix metallopeptidase 12 (macrophage elastase)	E	19	-11.05	2.63	N,L
IL23A	2	interleukin 23, alpha subunit p19	E	12		-0.44	N,L
IL1RN	2	interleukin 1 receptor antagonist	E	12	-2.64	-0.06	N,L
GAL	2	galanin prepropeptide	E	11	-6.1	-0.7	N,L
EFNA4	2	ephrin-A4	E	18	-3.57	-0.85	N,L
CXCL13	2	chemokine (C-X-C motif) ligand 13	E	17		1.41	N,L
COL10A1	2	collagen, type X, alpha 1	E	6		4.97	N,L
CILP2	2	cartilage intermediate layer protein 2	E	19			N,L
C1S	2	complement component 1, s subcomponent	E	4	-6.6	0.17	P,L
ALDOA	2	aldolase A, fructose-bisphosphate	E	4	-4.46	-0.17	P,L
TUBA4A	2	tubulin, alpha 4a	E	5	-7.37	-0.87	N,P
THBS4	2	thrombospondin 4	E	29		2.17	N,P
THBS2	2	thrombospondin 2	E	42	-8.98	0.55	N,P
SOD3	2	superoxide dismutase 3, extracellular	E	28		-1.44	N,P
SOD1	2	superoxide dismutase 1, soluble	E	8	0.1	-0.23	N,P
SFN	2	stratifin	E	35	-9.56	0.67	N,P
SERPINF2	2	serpin peptidase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 2	E	8	-8	-2.69	N,P
SERPINF1	2	serpin peptidase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 1	E	52	-9.3	-0.98	N,P
SERPINE 2	2	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 2	E	19	-2.03	0.53	N,P
SERPINB	2	serpin peptidase inhibitor, clade B (ovalbumin), member 3	E	30	-6.1	-8.03	N,P

3							
SERPINA1	2	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1	E	5	-9.43	-1.74	N,P
RBP4	2	retinol binding protein 4, plasma	E	8	-8.79	-1.28	N,P
PROC	2	protein C (inactivator of coagulation factors Va and VIIIa)	E	28	-7.03	-0.81	N,P
PRDX4	2	peroxiredoxin 4	E	8	-1.03	-0.01	N,P
PON2	2	paraoxonase 2	E	17	2.68	-0.39	N,P
PODN	2	podocan	E	38		-0.19	N,P
ORM2	2	orosomucoid 2	E	0		-0.86	N,P
MSLN	2	mesothelin	E	35		1.26	N,P
LUM	2	lumican	E	20	-9.3	-1.06	N,P
LTF	2	lactotransferrin	E	14	-8.57	-0.37	N,P
LRRC17	2	leucine rich repeat containing 17	E	0	-6.1	0.49	N,P
LCN15	2	lipocalin 15	E	0		4.25	N,P
LAMC2	2	laminin, gamma 2	E	33	-3.54	0.63	N,P
LAMB3	2	laminin, beta 3	E	10	-7.03	0.62	N,P
ITIH3	2	inter-alpha (globulin) inhibitor H3	E	18	-7.03	-1.39	N,P
HLA-DRB5	2	major histocompatibility complex, class II, DR beta 5	E	1	-7.59	-1.73	N,P
GPC4	2	glypican 4	E	29	-6.1	-0.96	N,P
FLRT3	2	fibronectin leucine rich transmembrane protein 3	E	0	-2.64	-2.58	N,P
FGFBP1	2	fibroblast growth factor binding protein 1	E	55	-8.79	-0.57	N,P
FBN1	2	fibrillin 1	E	19	0.89	0.42	N,P
FBLN2	2	fibulin 2	E	11		1.22	N,P
F13A1	2	coagulation factor XIII, A1 polypeptide	E	16		2.08	N,P
EGFLAM	2	EGF-like, fibronectin type III and laminin G domains	E	0	-6.1	-0.63	N,P
DMBT1	2	deleted in malignant brain tumors 1	E	55		0.39	N,P
CTHRC1	2	collagen triple helix repeat containing 1	E	11	-0.09	2.48	N,P
CP	2	ceruloplasmin (ferroxidase)	E	7	-2.81	-1.91	N,P
COL7A1	2	collagen, type VII, alpha 1	E	6	-8	2.17	N,P

COL17A1	2	collagen, type XVII, alpha 1	E	8	-6.1	1.35	N,P
CA2	2	carbonic anhydrase II	E	7	-6.53	-1.34	N,P
C4BPA	2	complement component 4 binding protein, alpha	E	9	-3.63	-1.38	N,P
C4B	2	complement component 4B (Chido blood group)	E	7	-8.79	-1.69	N,P
C3	2	complement component 3	E	10	-11.96	-0.75	N,P
ASPN	2	asporin	E	3	3.03	-1.18	N,P
ANXA8L2	2	annexin A8-like 2	E	19	-8.31	-1.21	N,P
ALPL	2	alkaline phosphatase, liver/bone/kidney	E	6	-6.1	-0.7	N,P
AGT	2	angiotensinogen (serpin peptidase inhibitor, clade A, member 8)	E	21		-0.11	N,P
ADAMTS L1	2	ADAMTS-like 1	E	6	-6.1	0.03	N,P
NFE2L3	3	nuclear factor (erythroid-derived 2)-like 3	I	19	0.8	0.7	N,R,C
LGMN	3	legumain	I	3	0.3	1	N,P,C
GLT25D1	3	glycosyltransferase 25 domain containing 1	I	13	2.2	2.1	N,L,C
GALNT1	3	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylglucosaminyltransferase 1 (GalNAc-T1)	I	9	2.7	0.4	N,R,C
B3GALT	3	beta 1,3-galactosyltransferase-like	I	0	7.6	0.2	N,R,C
ATP5J2	3	ATP synthase, H+ transporting, mitochondrial Fo complex, subunit F2	I	7	2.1	0.7	P,L,C
ACP1	3	acid phosphatase 1, soluble	I	10	1.9	0.1	N,P,C
TUBB	3	tubulin, beta class I	I	6	-2.21	2.25	P,L,R
TPX2	3	TPX2, microtubule-associated, homolog (Xenopus laevis)	I	19	-0.86	2.31	N,L,R
S100A11	3	S100 calcium binding protein A11	I	17	1.47	0.41	N,P,R
RPS3A	3	ribosomal protein S3A	I	9	-2.29	1.03	N,P,R
RPL7	3	ribosomal protein L7	I	0	1.52	0.19	N,P,R
PTTG1	3	pituitary tumor-transforming 1	I	69	3.21	0.67	N,L,R
PGK1	3	phosphoglycerate kinase 1	I	10	-0.69	0.01	P,L,R
PBK	3	PDZ binding kinase	I	28	0.94	0.94	N,L,R
NDC80	3	NDC80 homolog, kinetochore complex component (S. cerevisiae)	I	13	1.06	-0.53	N,L,R
MELK	3	maternal embryonic leucine zipper kinase	I	12	0.03	0.58	N,L,R

MAD2L1	3	MAD2 mitotic arrest deficient-like 1 (yeast)	I	26	-2.44	-1.16	N,L,R
KIF20A	3	kinesin family member 20A	I	9	-0.08	6.22	N,L,R
KIAA0101	3	KIAA0101	I	25	-3.89	0.99	N,L,R
DLGAP5	3	discs, large (Drosophila) homolog-associated protein 5	I	25	0.98	5.81	N,L,R
CKS1B	3	CDC28 protein kinase regulatory subunit 1B	I	18	1.02	1.08	N,L,R
CEP55	3	centrosomal protein 55kDa	I	23	0.47	2.14	N,L,R
CDKN3	3	cyclin-dependent kinase inhibitor 3	I	28	0.49	3.49	N,L,R
CCNB2	3	cyclin B2	I	10	-0.43	2.12	N,L,R
CCNB1	3	cyclin B1	I	23	0.33	1.45	N,L,R
C1orf31	3	chromosome 1 open reading frame 31	I	8	1.9	0.87	N,L,R
PKM2	3	pyruvate kinase, muscle	I	0	-3.83	1.62	N,P,L
PFKP	3	phosphofructokinase, platelet	I	9	-1.7	0.9	N,P,L
HIST2H2BE	3	histone cluster 2, H2be	I	6	-8	0.82	N,P,L
CA9	3	carbonic anhydrase IX	I	74		2.04	N,P,L
VMP1	3	vacuole membrane protein 1	M	26	2.6	0	N,R,C
TMEM119	3	transmembrane protein 119	M	0	3.5	1.4	N,P,C
SLC12A2	3	solute carrier family 12 (sodium/potassium/chloride transporters), member 2	M	8	7	1	P,R,C
PTGFRN	3	prostaglandin F2 receptor negative regulator	M	11	1.6	0.1	N,P,C
PLXNA4	3	plexin A4	M	17	4.2	2	N,P,C
LRRC70	3	leucine rich repeat containing 70	M	0	6.9	0.3	N,R,C
LPAR6	3	lysophosphatidic acid receptor 6	M	14	7	0.2	N,R,C
JAG2	3	jagged 2	M	32	1.8	1.3	N,R,C
FLRT2	3	fibronectin leucine rich transmembrane protein 2	M	0	2.5	0.3	N,P,C
DCHS1	3	dachsous 1 (Drosophila)	M	17	0.8	0.9	P,R,C
CNIH4	3	cornichon homolog 4 (Drosophila)	M	0	4	1.4	L,R,C
CLDN11	3	claudin 11	M	30	10.7	0.9	N,R,C

ATP1B3	3	ATPase, Na ⁺ /K ⁺ transporting, beta 3 polypeptide	M	5	1.3	0.6	P,R,C
ADAM17	3	ADAM metalloproteinase domain 17	M	63	3	0.5	P,R,C
UPK1B	3	uroplakin 1B	M	28	1.55	-0.8	N,P,R
TMEM33	3	transmembrane protein 33	M	0	2.49	-0.49	N,P,R
SLC16A3	3	solute carrier family 16, member 3 (monocarboxylic acid transporter 4)	M	9	-4.18	0.85	P,L,R
MEGF6	3	multiple EGF-like-domains 6	M	0	-1.91	0.42	N,P,R
CD9	3	CD9 molecule	M	28	2.56	-0.89	N,P,R
PTGS1	3	prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase)	E	20	0.4	0.1	N,R,C
PDGFB	3	platelet-derived growth factor beta polypeptide	E	39	2.4	2.3	N,R,C
LY96	3	lymphocyte antigen 96	E	17	5.7	4.3	N,R,C
CYTL1	3	cytokine-like 1	E	0	4.7	0.8	N,R,C
CPXM2	3	carboxypeptidase X (M14 family), member 2	E	0	0.8	0.2	N,P,C
BMP4	3	bone morphogenetic protein 4	E	21	0.3	2.3	N,R,C
ANGPTL2	3	angiopoietin-like 2	E	44	0.1	1.4	N,P,C
TXN	3	thioredoxin	E	24	3.2	-0.16	N,P,R
LOXL2	3	lysyl oxidase-like 2	E	45	-1.8	2.15	N,P,R
LAMB1	3	laminin, beta 1	E	20	1.98	0.41	N,P,R
ANGPTL4	3	angiopoietin-like 4	E	40	-0.74	0.38	N,P,R
C1R	3	complement component 1, r subcomponent	E	5	-5.04	-0.32	N,P,L
TPI1	4	triosephosphate isomerase 1	I	4	0.05	-0.12	N,P,L, R
EPHB2	4	EPH receptor B2	M	39	0.7	1.8	N,P,L, C
PTX3	4	pentraxin 3, long	E	36	2	6.3	N,P,R, C

Appendix Table A.6.20.1. This table portrays the combined set of results from all experiments, giving a list of 5,892 genes, together with annotations (cell component, AngioScore, number of publications from table 6.14.1, endothelial log₂(FC), angiogenic screen log₂(FC) and assay where gene was found differentially expressed). The number of assays refers to the number of experiments the gene was found in. The assay

key: N = RNA-seq deep sequencing of fresh endothelium, P = embryonic proteomic data, R = RPKM analyses tumour conditioned HUVEC + liver endothelium at 1% oxygen versus normal adult human tissue deep sequencing libraries, C = cDNA libraries, tumour angiogenesis screen and L = lung biological replicates of lung tumour endothelium versus normal lung endothelium.

