

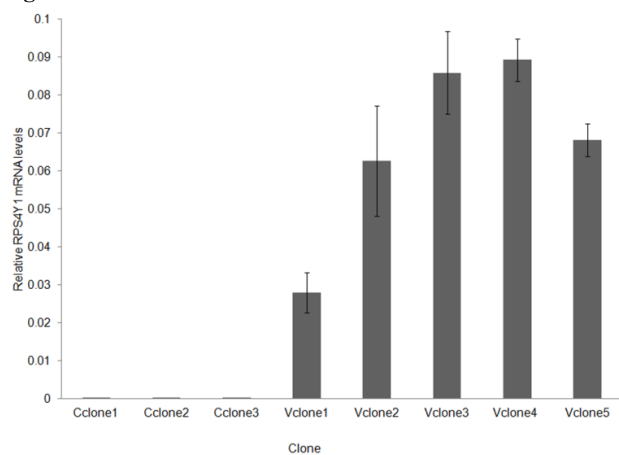
1 **Supporting Figure Legend**

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3 **Figure S1: RPS4Y1 mRNA levels.** Levels of this mRNA were measured as part of the validation of Affymetrix gene expression data from DEG.C. C_{clones} are controls (untreated
4 Beas-2B that grew in soft agar) and V_{clones} are clones transformed by chronic NaVO₃ exposure.

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6 **Figure S1**



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9 **Table S1: Differentially expressed genes in transformed clones (DEG.C).**

Gene Symbol	Gene Description	Adjusted p-value	Fold change
TMEM47	transmembrane protein 47	1.9E-02	36.196
SPTLC3	serine palmitoyltransferase, long chain base subunit 3	7.8E-03	33.565
RPS4Y1	ribosomal protein S4, Y-linked 1	6.9E-03	28.724
EYA4	eyes absent homolog 4 (Drosophila)	3.9E-03	18.298
EIF1AY	eukaryotic translation initiation factor 1A, Y-linked	8.6E-03	13.872
EDIL3	EGF-like repeats and discoidin I-like domains 3	1.3E-02	12.147
DDX3Y	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked	3.9E-03	12.110
UTY	ubiquitously transcribed tetratricopeptide repeat gene, Y-linked	9.5E-03	10.134
CYP1B1	cytochrome P450, family 1, subfamily B, polypeptide 1	2.2E-02	9.194
CD24	CD24 molecule	1.4E-02	8.328

GABRA3	gamma-aminobutyric acid (GABA) A receptor, alpha 3	1.7E-02	7.643
ZNF730	zinc finger protein 730	2.0E-02	7.283
RARB LOC100130354	retinoic acid receptor, beta hypothetical protein LOC100130354	3.3E-02	7.168
DNER	delta/notch-like EGF repeat containing	3.6E-02	7.067
SERPINB2 SERPINB10	serpin peptidase inhibitor, clade B (ovalbumin), member 2 serpin peptidase inhibitor, clade B (ovalbumin), member 10	1.6E-02	6.863
USP9Y	ubiquitin specific peptidase 9, Y-linked	7.8E-03	6.194
PPAPDC1A	phosphatidic acid phosphatase type 2 domain containing 1A	1.6E-02	5.853
HLF	hepatic leukemia factor	4.3E-02	5.837
ASAM	adipocyte-specific adhesion molecule	2.0E-02	5.425
ABI3BP	ABI family, member 3 (NESH) binding protein	4.5E-02	5.381
ZFY	zinc finger protein, Y-linked	1.8E-02	5.288
NTN4	netrin 4	2.2E-02	5.284
ZNF300	zinc finger protein 300	1.4E-02	4.987
WNT5A	wingless-type MMTV integration site family, member 5A	1.7E-02	4.967
COL5A2	collagen, type V, alpha 2	2.1E-02	4.931
MGAM	maltase-glucoamylase (alpha-glucosidase)	3.1E-02	4.716
ZNF280B	zinc finger protein 280B	2.1E-02	4.649
F2RL2	coagulation factor II (thrombin) receptor-like 2	2.9E-02	4.600
SRPX2	sushi-repeat-containing protein, X-linked 2	9.9E-03	4.590
PDE1C	phosphodiesterase 1C, calmodulin-dependent 70kDa	1.4E-02	4.495
PRICKLE1	prickle homolog 1 (Drosophila)	3.4E-02	4.390
CYorf15A	chromosome Y open reading frame 15A	1.5E-02	4.302
LGR4	leucine-rich repeat-containing G protein-coupled receptor 4	1.1E-02	4.015
GLIS3	GLIS family zinc finger 3	1.1E-02	3.998
NRP1	neuropilin 1	1.9E-02	3.990
IL31RA	interleukin 31 receptor A	3.6E-02	3.907
CRISPLD2	cysteine-rich secretory protein LCCL domain containing 2	3.6E-02	3.815
SLC4A4	solute carrier family 4, sodium bicarbonate cotransporter, member 4	1.9E-02	3.793
SNAI2	snail homolog 2 (Drosophila)	1.8E-02	3.733
MEIS1	Meis homeobox 1	1.3E-02	3.720

SPOCK1	sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 1	2.4E-02	3.654
MMP16	matrix metalloproteinase 16 (membrane-inserted)	1.8E-02	3.643
TGFA	transforming growth factor, alpha	2.3E-02	3.607
ZNF717 LOC100287163	zinc finger protein 717 similar to Zinc finger protein 717	7.8E-03	3.590
TNC	tenascin C	8.0E-03	3.522
FHDC1	FH2 domain containing 1	1.1E-02	3.496
PPP1R3C	protein phosphatase 1, regulatory (inhibitor) subunit 3C	1.9E-02	3.474
SNORD13	small nucleolar RNA, C/D box 13	2.5E-02	3.348
ADAM12	ADAM metalloproteinase domain 12	3.4E-02	3.324
LOC554202	microRNA 31	1.5E-02	3.317
NTF3	neurotrophin 3	3.4E-02	3.314
NEGR1	neuronal growth regulator 1	3.6E-02	3.312
SNORD13 RNU13P3	small nucleolar RNA, C/D box 13 RNA, U13 small nuclear pseudogene 3	2.5E-02	3.303
SH3RF2	SH3 domain containing ring finger 2	1.8E-02	3.296
MPP4	membrane protein, palmitoylated 4 (MAGUK p55 subfamily member 4)	1.7E-02	3.168
SLC8A1	solute carrier family 8 (sodium/calcium exchanger), member 1	3.3E-02	3.157
CD109	CD109 molecule	3.8E-02	3.131
KDM5D	lysine (K)-specific demethylase 5D	7.8E-03	3.108
MAMLD1	mastermind-like domain containing 1	8.6E-03	3.059
DUSP4	dual specificity phosphatase 4	1.5E-02	3.043
TES	testis derived transcript (3 LIM domains)	1.8E-02	3.022
SLC16A2	solute carrier family 16, member 2 (monocarboxylic acid transporter 8)	8.1E-03	2.976
G0S2	G0/G1switch 2	3.6E-02	2.952
PRICKLE2	prickle homolog 2 (Drosophila)	1.7E-02	2.951
GLT8D4	glycosyltransferase 8 domain containing 4	1.1E-02	2.919
KIAA1217	sickle tail protein homolog	2.2E-02	2.855
MST131	MSTP131	2.1E-02	2.854
SYTL2	synaptotagmin-like 2	2.0E-02	2.833
SHISA2	shisa homolog 2 (Xenopus laevis)	2.1E-02	2.822
KCTD4	potassium channel tetramerisation domain containing 4	3.6E-03	2.771
ITGBL1	integrin, beta-like 1 (with EGF-like repeat domains)	2.4E-03	2.697

GPR39 LYPD1	G protein-coupled receptor 39 LY6/PLAUR domain containing 1	3.1E-02	2.664
ARRDC3	arrestin domain containing 3	2.2E-02	2.654
LAMB3	laminin, beta 3	2.8E-02	2.641
CHST11	carbohydrate (chondroitin 4) sulfotransferase 11	3.7E-02	2.618
FOXD1	forkhead box D1	1.0E-02	2.604
PTPRS	protein tyrosine phosphatase, receptor type, S	4.4E-02	2.555
GPR56	G protein-coupled receptor 56	2.3E-02	2.551
SATB2	SATB homeobox 2	3.0E-02	2.548
TOX2	TOX high mobility group box family member 2	1.5E-02	2.531
EMP1	epithelial membrane protein 1	2.4E-02	2.525
BACE1	beta-site APP-cleaving enzyme 1	4.9E-02	2.521
CORO2B	coronin, actin binding protein, 2B	2.3E-02	2.491
MID1	midline 1 (Opitz/BBB syndrome)	1.5E-02	2.484
PTGER2	prostaglandin E receptor 2 (subtype EP2), 53kDa	2.3E-02	2.483
ANTXR2	anthrax toxin receptor 2	1.3E-02	2.459
OPN3 KMO	opsin 3 kynurenine 3-monooxygenase (kynurenine 3-hydroxylase)	8.6E-03	2.442
ABLIM3	actin binding LIM protein family, member 3	2.7E-02	2.435
INPP4B	inositol polyphosphate-4-phosphatase, type II, 105kDa	4.7E-02	2.434
LRIG1	leucine-rich repeats and immunoglobulin-like domains 1	2.6E-02	2.426
ZNF608	zinc finger protein 608	2.3E-02	2.388
C5orf13	chromosome 5 open reading frame 13	1.9E-02	2.374
HPCAL1	hippocalcin-like 1	2.0E-02	2.352
CYorf15B	chromosome Y open reading frame 15B	4.1E-02	2.350
TGFBR2	transforming growth factor, beta receptor II (70/80kDa)	1.2E-02	2.331
CDH4	cadherin 4, type 1, R-cadherin (retinal)	3.6E-02	2.331
NRIP1	nuclear receptor interacting protein 1	1.8E-02	2.322
PER3 UTS2	period homolog 3 (Drosophila) urotensin 2	1.5E-02	2.317
FAM172A	family with sequence similarity 172, member A	3.3E-02	2.309
TUBA1A	tubulin, alpha 1a	3.4E-02	2.266
LY6K	lymphocyte antigen 6 complex, locus K	2.5E-02	2.231
PNPLA3	patatin-like phospholipase domain containing 3	2.7E-02	2.219

SEMA7A	semaphorin 7A, GPI membrane anchor (John Milton Hagen blood group)	3.7E-02	2.209
ATL1	atlastin GTPase 1	2.6E-02	2.209
ITFG1	integrin alpha FG-GAP repeat containing 1	2.0E-02	2.204
MARVELD2	MARVEL domain containing 2	4.4E-02	2.203
HOXB2	homeobox B2	2.4E-02	2.203
JAG1	jagged 1 (Alagille syndrome)	8.1E-03	2.197
MARVELD2	MARVEL domain containing 2	4.5E-02	2.196
MMP14	matrix metalloproteinase 14 (membrane-inserted)	4.5E-02	2.173
STC2	stanniocalcin 2	2.6E-02	2.168
PIK3R3	phosphoinositide-3-kinase, regulatory subunit 3 (gamma)	1.5E-02	2.167
SPOCD1	SPOC domain containing 1	2.0E-02	2.165
ATG10	autophagy related 10	2.7E-02	2.149
NRG1	neuregulin 1	3.1E-02	2.144
S1PR1	sphingosine-1-phosphate receptor 1	1.5E-02	2.140
PRKY	protein kinase, Y-linked	8.0E-03	2.113
LAMB1	laminin, beta 1	3.2E-02	2.111
AOX1	aldehyde oxidase 1	8.6E-03	2.099
SERPINE2	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 2	4.3E-02	2.093
PLCE1	phospholipase C, epsilon 1	4.4E-02	2.093
CUZD1	CUB and zona pellucida-like domains 1	2.8E-02	2.086
FN1	fibronectin 1	2.0E-02	2.083
ITGA5	integrin, alpha 5 (fibronectin receptor, alpha polypeptide)	1.1E-02	2.083
DYSF	dysferlin, limb girdle muscular dystrophy 2B (autosomal recessive)	4.1E-02	2.061
ADA	adenosine deaminase	2.2E-02	2.052
VDR	vitamin D (1,25-dihydroxyvitamin D3) receptor	1.4E-02	2.047
SLC6A8 SLC6A10P	solute carrier family 6 (neurotransmitter transporter, creatine), member 8 solute carrier family 6 (neurotransmitter transporter, creatine), member 10 (pseudogene)	2.0E-02	2.043
GDF15	growth differentiation factor 15	4.9E-02	2.040
ECM1	extracellular matrix protein 1	1.6E-02	2.034
LHFPL2	lipoma HMGIC fusion partner-like 2	4.3E-02	2.027
CPEB2	cytoplasmic polyadenylation element binding protein 2	2.7E-02	2.025

TMEM14A	transmembrane protein 14A	1.7E-02	2.024
HOMER2	homer homolog 2 (Drosophila)	4.0E-02	2.022
PHLDA1	pleckstrin homology-like domain, family A, member 1	4.8E-02	2.017
TSPAN15	tetraspanin 15	2.4E-02	2.014
ARHGAP18	Rho GTPase activating protein 18	4.8E-02	2.014
SLC6A8 SLC6A10P	solute carrier family 6 (neurotransmitter transporter, creatine), member 8 solute carrier family 6 (neurotransmitter transporter, creatine), member 10 (pseudogene)	2.2E-02	2.004
LRP1	low density lipoprotein-related protein 1 (alpha-2-macroglobulin receptor)	1.8E-02	1.999
ITGB3	integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61)	2.9E-02	1.996
SNRPN SNURF	small nuclear ribonucleoprotein polypeptide N SNRPN upstream reading frame	4.8E-02	1.986
LOXL2	lysyl oxidase-like 2	1.2E-02	1.985
IGFBP7 POLR2B	insulin-like growth factor binding protein 7 polymerase (RNA) II (DNA directed) polypeptide B, 140kDa	1.1E-02	1.984
OSBPL6	oxysterol binding protein-like 6	3.5E-02	1.984
S100A16	S100 calcium binding protein A16	8.1E-03	1.977
CPA4	carboxypeptidase A4	1.2E-02	1.953
C16orf87	chromosome 16 open reading frame 87	2.0E-02	1.949
MSLN	mesothelin	4.8E-02	1.945
SETBP1	SET binding protein 1	2.1E-02	1.945
C1orf51	chromosome 1 open reading frame 51	2.7E-02	1.942
TANC2	tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 2	3.7E-02	1.940
L1CAM	L1 cell adhesion molecule	1.1E-02	1.935
ARSK	arylsulfatase family, member K	2.4E-02	1.916
ZNF827	zinc finger protein 827	2.2E-02	1.912
FAM46A	family with sequence similarity 46, member A	2.8E-02	1.911
GLRX	glutaredoxin (thioltransferase)	2.3E-02	1.910
CHST15	carbohydrate (N-acetylgalactosamine 4-sulfate 6-O) sulfotransferase 15	3.1E-02	1.904
PHKB	phosphorylase kinase, beta	1.8E-02	1.903
HSPG2 LDLRAD2	heparan sulfate proteoglycan 2 low density lipoprotein receptor class A domain containing 2	1.1E-02	1.903
SCD5	stearoyl-CoA desaturase 5	3.6E-02	1.902
ATXN1	ataxin 1	3.2E-02	1.893
CRYZ	crystallin, zeta (quinone reductase)	2.1E-02	1.893

LTBP1	latent transforming growth factor beta binding protein 1	2.2E-02	1.893
FMN1	formin 1	3.7E-02	1.879
IDS	iduronate 2-sulfatase	3.1E-02	1.871
TNIK	TRAF2 and NCK interacting kinase	2.9E-02	1.871
SFXN3	sideroflexin 3	3.6E-02	1.856
SYNC	syncoilin, intermediate filament protein	3.0E-02	1.855
NAV3	neuron navigator 3	4.1E-02	1.853
C3orf14	chromosome 3 open reading frame 14	4.4E-02	1.838
SYTL3	synaptotagmin-like 3	4.9E-02	1.831
SCAMP1	secretory carrier membrane protein 1	3.0E-02	1.830
PTPRG	protein tyrosine phosphatase, receptor type, G	4.8E-02	1.827
TSPAN5	tetraspanin 5	1.9E-02	1.823
GEM	GTP binding protein overexpressed in skeletal muscle	3.8E-02	1.822
TSC22D1	TSC22 domain family, member 1	1.2E-02	1.820
PTCD2	pentatricopeptide repeat domain 2	1.8E-02	1.816
NAV1	neuron navigator 1	2.5E-02	1.814
CAMK2D	calcium/calmodulin-dependent protein kinase II delta	3.7E-02	1.804
SIPA1L2	signal-induced proliferation-associated 1 like 2	1.5E-02	1.801
NETO2	neuropilin (NRP) and tolloid (TLL)-like 2	2.2E-02	1.792
FHOD1 SLC9A5	formin homology 2 domain containing 1 solute carrier family 9 (sodium/hydrogen exchanger), member 5	2.4E-02	1.790
IRX2	iroquois homeobox 2	2.7E-02	1.790
MLLT11	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 11	1.2E-02	1.789
ADAMTSL1	ADAMTS-like 1	3.1E-02	1.789
FCHO2	FCH domain only 2	4.5E-02	1.777
ASAP2	ArfGAP with SH3 domain, ankyrin repeat and PH domain 2	1.9E-02	1.773
ARSB	arylsulfatase B	2.0E-02	1.768
PID1	phosphotyrosine interaction domain containing 1	8.0E-03	1.768
RNF182	ring finger protein 182	3.9E-03	1.766
DACT1	dapper, antagonist of beta-catenin, homolog 1 (Xenopus laevis)	2.6E-02	1.766
PRKCA	protein kinase C, alpha	2.8E-02	1.766
GTF3A	general transcription factor IIIA	2.2E-02	1.764

IDS LOC727913	iduronate 2-sulfatase similar to iduronate 2-sulfatase (Hunter syndrome)	3.4E-02	1.761
ATP10D	ATPase, class V, type 10D	2.7E-02	1.760
PIK3R1	phosphoinositide-3-kinase, regulatory subunit 1 (alpha)	4.8E-02	1.758
DNMBP	dynamin binding protein	3.3E-02	1.755
TUB	tubby homolog (mouse)	4.6E-02	1.752
RASA1	RAS p21 protein activator (GTPase activating protein) 1	2.6E-02	1.750
SLC12A4	solute carrier family 12 (potassium/chloride transporters), member 4	1.2E-02	1.747
DGKA	diacylglycerol kinase, alpha 80kDa	4.2E-02	1.746
ZFP90	zinc finger protein 90 homolog (mouse)	2.9E-02	1.741
RUNX2	runt-related transcription factor 2	1.1E-02	1.739
XRCC4	X-ray repair complementing defective repair in Chinese hamster cells 4	3.3E-02	1.737
LOXL1	lysyl oxidase-like 1	2.5E-02	1.736
TSTA3	tissue specific transplantation antigen P35B	2.1E-02	1.735
SIPA1L1	signal-induced proliferation-associated 1 like 1	3.0E-02	1.731
ANKRA2	ankyrin repeat, family A (RFXANK-like), 2	3.1E-02	1.729
TBCK	TBC1 domain containing kinase	2.9E-02	1.725
FAM24B CUZD1	family with sequence similarity 24, member B CUB and zona pellucida-like domains 1	1.9E-02	1.721
OSTF1	osteoclast stimulating factor 1	2.9E-02	1.721
CASK	calcium/calmodulin-dependent serine protein kinase (MAGUK family)	2.4E-02	1.718
PDGFC	platelet derived growth factor C	4.6E-02	1.716
RGL1	ral guanine nucleotide dissociation stimulator-like 1	1.9E-02	1.716
PAPSS1	3'-phosphoadenosine 5'-phosphosulfate synthase 1	3.2E-02	1.716
WDR41	WD repeat domain 41	2.0E-02	1.714
PPAP2A SKIV2L2	phosphatidic acid phosphatase type 2A superkiller viralicidic activity 2-like 2 (S. cerevisiae)	1.4E-02	1.708
HMOX2	heme oxygenase (decycling) 2	2.8E-02	1.708
JAZF1	JAZF zinc finger 1	2.5E-02	1.707
SUSD5	sushi domain containing 5	3.5E-02	1.706
HEXB	hexosaminidase B (beta polypeptide)	8.0E-03	1.706
DPYSL2	dihydropyrimidinase-like 2	2.5E-02	1.705
MPP1	membrane protein, palmitoylated 1, 55kDa	1.4E-02	1.704
MVP	major vault protein	3.2E-02	1.703

FRMD4A	FERM domain containing 4A	2.1E-02	1.695
ZNF362	zinc finger protein 362	1.8E-02	1.693
ZNF385A	zinc finger protein 385A	3.1E-02	1.693
RASAL2	RAS protein activator like 2	3.3E-02	1.692
ENC1	ectodermal-neural cortex (with BTB-like domain)	3.6E-02	1.691
LDOC1	leucine zipper, down-regulated in cancer 1	4.5E-02	1.691
GNG4	guanine nucleotide binding protein (G protein), gamma 4	2.2E-02	1.689
KLF11	Kruppel-like factor 11	2.6E-02	1.689
NET1	neuroepithelial cell transforming 1	2.7E-02	1.688
CSRP1	cysteine and glycine-rich protein 1	1.5E-02	1.681
PTPLA	protein tyrosine phosphatase-like (proline instead of catalytic arginine), member A	2.0E-02	1.680
ALKBH2	alkB, alkylation repair homolog 2 (E. coli)	3.1E-02	1.679
RTKN	rhotekin	3.6E-02	1.678
GPR1	G protein-coupled receptor 1	2.8E-02	1.674
COL4A3BP	collagen, type IV, alpha 3 (Goodpasture antigen) binding protein	3.7E-02	1.674
TMEM167A	transmembrane protein 167A	1.6E-02	1.670
MTMR1	myotubularin related protein 1	1.5E-02	1.668
EPAS1	endothelial PAS domain protein 1	2.7E-02	1.661
TGFB1I1	transforming growth factor beta 1 induced transcript 1	2.5E-02	1.661
FLNB	filamin B, beta	2.1E-02	1.660
PRAGMIN	homolog of rat pragma of Rnd2	2.5E-02	1.659
CENPK	centromere protein K	2.6E-02	1.653
SRGAP1	SLIT-ROBO Rho GTPase activating protein 1	3.9E-02	1.652
TTC37	tetratricopeptide repeat domain 37	3.6E-02	1.649
MID1IP1	MID1 interacting protein 1 (gastrulation specific G12 homolog (zebrafish))	2.6E-02	1.646
MTM1	myotubularin 1	3.4E-02	1.646
MTMR11	myotubularin related protein 11	3.4E-02	1.644
TMOD2	tropomodulin 2 (neuronal)	4.5E-02	1.644
LAMC1	laminin, gamma 1 (formerly LAMB2)	2.6E-02	1.638
CYLD	cylindromatosis (turban tumor syndrome)	2.6E-02	1.636
ERAP1	endoplasmic reticulum aminopeptidase 1	5.0E-02	1.634

HIST1H3A	histone cluster 1, H3a	1.1E-02	1.633
LAGE3	L antigen family, member 3	3.8E-02	1.633
ATP2B4	ATPase, Ca ⁺⁺ transporting, plasma membrane 4	3.4E-02	1.633
EPHB2	EPH receptor B2	4.6E-02	1.632
PRKAB2	protein kinase, AMP-activated, beta 2 non-catalytic subunit	1.9E-02	1.631
RIOK2	RIO kinase 2 (yeast)	3.4E-02	1.626
SMARCA2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2	1.1E-02	1.625
PDPK1 FLJ42627	3-phosphoinositide dependent protein kinase-1 hypothetical LOC645644	9.9E-03	1.622
COG4	component of oligomeric golgi complex 4	2.0E-02	1.621
MAPKAPK3	mitogen-activated protein kinase-activated protein kinase 3	2.8E-02	1.620
NDUFS4	NADH dehydrogenase (ubiquinone) Fe-S protein 4, 18kDa (NADH-coenzyme Q reductase)	2.6E-02	1.619
JARID2	jumonji, AT rich interactive domain 2	5.0E-02	1.619
LETM2	leucine zipper-EF-hand containing transmembrane protein 2	4.9E-02	1.616
APBB2	amyloid beta (A4) precursor protein-binding, family B, member 2	3.7E-02	1.615
TGFBI	transforming growth factor, beta-induced, 68kDa	3.7E-02	1.615
F2R	coagulation factor II (thrombin) receptor	3.7E-02	1.613
SOX9	SRY (sex determining region Y)-box 9	2.7E-02	1.613
ZNF34	zinc finger protein 34	1.8E-02	1.612
SYT11	synaptotagmin XI	2.5E-02	1.612
PHLDA3	pleckstrin homology-like domain, family A, member 3	3.0E-02	1.610
P4HA2	prolyl 4-hydroxylase, alpha polypeptide II	3.0E-02	1.607
OBFC1	oligonucleotide/oligosaccharide-binding fold containing 1	1.7E-02	1.605
CDK7	cyclin-dependent kinase 7	3.2E-02	1.604
GPA1	glycosylphosphatidylinositol anchor attachment protein 1 homolog (yeast)	1.3E-02	1.603
CNIH2	cornichon homolog 2 (Drosophila)	2.1E-02	1.603
RBMS2	RNA binding motif, single stranded interacting protein 2	3.9E-03	1.603
ZNF623	zinc finger protein 623	2.9E-02	1.602
PROCR	protein C receptor, endothelial (EPCR)	4.1E-02	1.600
ARSJ	arylsulfatase family, member J	8.6E-03	1.600
HLA-DMA HLA-DMB	major histocompatibility complex, class II, DM alpha major histocompatibility complex, class II, DM beta	2.4E-02	1.599
HLA-DMA HLA-DMB	major histocompatibility complex, class II, DM alpha major histocompatibility complex, class II, DM beta	2.4E-02	1.599

AP3B1	adaptor-related protein complex 3, beta 1 subunit	1.9E-02	1.598
TFPI	tissue factor pathway inhibitor (lipoprotein-associated coagulation inhibitor)	3.1E-02	1.597
ITPRIP	inositol 1,4,5-triphosphate receptor interacting protein	1.3E-02	1.594
ADAMTSL1	ADAMTS-like 1	2.1E-02	1.594
FMR1	fragile X mental retardation 1	1.1E-02	1.591
CENPH	centromere protein H	2.9E-02	1.591
STX1B	syntaxin 1B	3.0E-02	1.591
HOXB7	homeobox B7	1.5E-02	1.590
TK2	thymidine kinase 2, mitochondrial	2.6E-02	1.589
DYNLT3	dynein, light chain, Tctex-type 3	5.0E-02	1.588
CPNE2	copine II	3.0E-02	1.587
USP25	ubiquitin specific peptidase 25	1.8E-02	1.587
RAD17	RAD17 homolog (S. pombe)	2.9E-02	1.585
STK17A	serine/threonine kinase 17a	4.5E-02	1.584
EPS8	epidermal growth factor receptor pathway substrate 8	2.3E-02	1.584
BBS2	Bardet-Biedl syndrome 2	1.1E-02	1.584
NCF2	neutrophil cytosolic factor 2	4.9E-02	1.584
GSTO1	glutathione S-transferase omega 1	1.1E-02	1.582
AFAP1	actin filament associated protein 1	1.7E-02	1.580
PDPK1 FLJ42627	3-phosphoinositide dependent protein kinase-1 hypothetical LOC645644	1.3E-02	1.580
HLA-DMA HLA-DMB	major histocompatibility complex, class II, DM alpha major histocompatibility complex, class II, DM beta	2.4E-02	1.580
FTO	fat mass and obesity associated	7.1E-03	1.574
CMTM1 CKLF	CKLF-like MARVEL transmembrane domain containing 1 chemokine-like factor	3.7E-02	1.573
EHD3	EH-domain containing 3	2.3E-02	1.573
FBXL2	F-box and leucine-rich repeat protein 2	4.0E-02	1.571
RHOB	ras homolog gene family, member B	3.9E-02	1.571
PLIN2	perilipin 2	1.1E-02	1.569
SLC38A9	solute carrier family 38, member 9	2.4E-02	1.565
SFRS12IP1	SFRS12-interacting protein 1	3.0E-02	1.561
SHARPIN	SHANK-associated RH domain interactor	2.2E-02	1.561
CCNG2	cyclin G2	1.8E-02	1.559

FAM69A	family with sequence similarity 69, member A	4.4E-02	1.559
RAD17	RAD17 homolog (<i>S. cerevisiae</i>)	3.5E-02	1.558
GSTA2	glutathione S-transferase alpha 2	2.5E-02	1.557
GFM2	G elongation factor, mitochondrial 2	4.6E-02	1.557
SLC25A37	solute carrier family 25, member 37	3.1E-02	1.551
SH3BP5	SH3-domain binding protein 5 (BTK-associated)	1.5E-02	1.548
PLEKHG4B	pleckstrin homology domain containing, family G (with RhoGef domain) member 4B	4.6E-02	1.548
OGFOD1	2-oxoglutarate and iron-dependent oxygenase domain containing 1	1.2E-02	1.548
THSD1	thrombospondin, type I, domain containing 1	4.0E-02	1.548
PARP3	poly (ADP-ribose) polymerase family, member 3	2.0E-02	1.548
KIFC3	kinesin family member C3	2.4E-02	1.544
S100A6	S100 calcium binding protein A6	9.5E-03	1.543
C3orf67	chromosome 3 open reading frame 67	3.8E-02	1.541
CDGAP	Cdc42 GTPase-activating protein	3.1E-02	1.540
CFDP1 C17orf60	craniofacial development protein 1 chromosome 17 open reading frame 60	1.1E-02	1.540
KCNJ1	potassium voltage-gated channel, subfamily G, member 1	4.6E-02	1.539
RHBDF1	rhomboid 5 homolog 1 (<i>Drosophila</i>)	2.3E-02	1.539
NIPAL3	NIPA-like domain containing 3	2.5E-02	1.539
LTBP3	latent transforming growth factor beta binding protein 3	2.4E-02	1.538
VASN	vasorin	3.6E-02	1.538
TAGLN2	transgelin 2	1.4E-02	1.536
ADCY7	adenylate cyclase 7	3.1E-02	1.536
CAST	calpastatin	1.5E-02	1.534
CBLB	Cas-Br-M (murine) ecotropic retroviral transforming sequence b	4.5E-02	1.530
DNAJC12	DnaJ (Hsp40) homolog, subfamily C, member 12	1.5E-02	1.530
MBLAC2	metallo-beta-lactamase domain containing 2	3.3E-02	1.528
GNPTAB	N-acetylglucosamine-1-phosphate transferase, alpha and beta subunits	4.0E-02	1.524
FOXP1	forkhead box P1	4.1E-02	1.517
TXNL4B	thioredoxin-like 4B	3.8E-02	1.515
SEMA3F	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3F	4.7E-02	1.513
FNIP2	folliculin interacting protein 2	4.1E-02	1.510

S100A11	S100 calcium binding protein A11	2.9E-02	1.510
ITFG1	integrin alpha FG-GAP repeat containing 1	1.7E-02	1.509
GM2A	GM2 ganglioside activator	3.2E-02	1.507
SHCBP1	SHC SH2-domain binding protein 1	1.5E-02	1.507
ORC6L	origin recognition complex, subunit 6 like (yeast)	4.0E-03	1.507
MAP1B	microtubule-associated protein 1B	2.4E-02	1.506
RPS4Y2	ribosomal protein S4, Y-linked 2	1.5E-02	1.504
SH3TC2	SH3 domain and tetratricopeptide repeats 2	2.4E-02	1.504
C14orf149	chromosome 14 open reading frame 149	2.8E-02	1.504
NHS	Nance-Horan syndrome (congenital cataracts and dental anomalies)	1.8E-02	1.503
LMO7	LIM domain 7	4.9E-02	1.501
GTF2H2 GTF2H2B GTF2H2C GTF2H2D	general transcription factor IIH, polypeptide 2, 44kDa general transcription factor IIH, polypeptide 2B general transcription factor IIH, polypeptide 2C general transcription factor IIH, polypeptide 2D	1.9E-02	1.501
SLC25A37	solute carrier family 25, member 37	4.1E-02	1.500
SLC35F3	solute carrier family 35, member F3	4.1E-02	1.500
DERA	2-deoxyribose-5-phosphate aldolase homolog (C. elegans)	4.0E-02	1.496
SDC1 LOC100131373	syndecan 1 hypothetical LOC100131373	4.1E-02	1.496
ACVR1	activin A receptor, type I	2.8E-02	1.495
FNDC4	fibronectin type III domain containing 4	2.3E-02	1.495
DKK3	dickkopf homolog 3 (Xenopus laevis)	2.4E-02	1.495
LIAS	lipoic acid synthetase	4.5E-02	1.494
RNU1A RNU1A3 RNU1C1 RNU1C2 RNU1G2 RNU1F1 RNU1G1 RNU1G3 GSTM2	RNA, U1A small nuclear RNA, U1A3 small nuclear RNA, U1C1 small nuclear RNA, U1C2 small nuclear RNA, U1G2 small nuclear RNA, U1F1 small nuclear RNA, U1G1 small nuclear RNA, U1G3 small nuclear glutathione S-transferase mu 2 (muscle)	3.5E-02	1.494
RNU1A RNU1A3 RNU1C1 RNU1C2 RNU1G2 RNU1F1 RNU1G1 RNU1G3 GSTM2	RNA, U1A small nuclear RNA, U1A3 small nuclear RNA, U1C1 small nuclear RNA, U1C2 small nuclear RNA, U1G2 small nuclear RNA, U1F1 small nuclear RNA, U1G1 small nuclear RNA, U1G3 small nuclear glutathione S-transferase mu 2 (muscle)	3.5E-02	1.494
RNU1A RNU1A3 RNU1C1 RNU1C2 RNU1G2 RNU1F1 RNU1G1 RNU1G3 GSTM2	RNA, U1A small nuclear RNA, U1A3 small nuclear RNA, U1C1 small nuclear RNA, U1C2 small nuclear RNA, U1G2 small nuclear RNA, U1F1 small nuclear RNA, U1G1 small nuclear RNA, U1G3 small nuclear glutathione S-transferase mu 2 (muscle)	3.5E-02	1.493
RNU1A RNU1A3 RNU1C1 RNU1C2 RNU1G2 RNU1F1 RNU1G1 RNU1G3 GSTM2	RNA, U1A small nuclear RNA, U1A3 small nuclear RNA, U1C1 small nuclear RNA, U1C2 small nuclear RNA, U1G2 small nuclear RNA, U1F1 small nuclear RNA, U1G1 small nuclear RNA, U1G3 small nuclear glutathione S-transferase mu 2 (muscle)	3.5E-02	1.493
PLEC1	plectin 1, intermediate filament binding protein 500kDa	3.7E-02	1.492
MSH3	mutS homolog 3 (E. coli)	2.6E-02	1.491

PPFIBP1	PTPRF interacting protein, binding protein 1 (liprin beta 1)	5.0E-02	1.491
SNORA70 RPL10	small nucleolar RNA, H/ACA box 70 ribosomal protein L10	1.0E-02	1.490
ADAM17	ADAM metallopeptidase domain 17	1.7E-02	1.490
PTPN4	protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte)	4.9E-02	1.488
ADAT1	adenosine deaminase, tRNA-specific 1	1.9E-02	1.488
KDM4C	lysine (K)-specific demethylase 4C	5.0E-02	1.488
GTF2H2 GTF2H2B GTF2H2C GTF2H2D	general transcription factor IIH, polypeptide 2, 44kDa general transcription factor IIH, polypeptide 2B general transcription factor IIH, polypeptide 2C general transcription factor IIH, polypeptide 2D	2.0E-02	1.487
WSB2	WD repeat and SOCS box-containing 2	2.3E-02	1.485
IGFBP6	insulin-like growth factor binding protein 6	4.1E-02	1.484
KIAA1539	family with sequence similarity 214, member B	8.6E-03	1.484
TCEB2	transcription elongation factor B (SIII), polypeptide 2 (18kDa, elongin B)	3.0E-02	1.483
FAM192A	family with sequence similarity 192, member A	2.0E-02	1.483
HERPUD1	homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1	2.9E-02	1.482
LHFP	lipoma HMGIC fusion partner	3.0E-02	1.482
C5orf44	chromosome 5 open reading frame 44	4.4E-02	1.482
ATP6AP2	ATPase, H ⁺ transporting, lysosomal accessory protein 2	2.7E-02	1.481
STAMPB	STAM binding protein	3.2E-02	1.478
MOCS2	molybdenum cofactor synthesis 2	3.1E-02	1.477
SHB CKAP2	Src homology 2 domain containing adaptor protein B cytoskeleton associated protein 2	9.8E-03	1.476
CXorf38	chromosome X open reading frame 38	3.1E-02	1.475
RASA3	RAS p21 protein activator 3	1.1E-02	1.474
DUSP16	dual specificity phosphatase 16	2.4E-02	1.473
DNAJA2	DnaJ (Hsp40) homolog, subfamily A, member 2	1.5E-02	1.470
SNORA70 RPL10	small nucleolar RNA, H/ACA box 70 ribosomal protein L10	7.8E-03	1.470
CDH24	cadherin-like 24	3.5E-02	1.469
GREM1	gremlin 1, cysteine knot superfamily, homolog (Xenopus laevis)	4.3E-02	1.468
ELF1	E74-like factor 1 (ets domain transcription factor)	1.5E-02	1.468
GPBP1	GC-rich promoter binding protein 1	4.0E-02	1.467
RALGPS2	Ral GEF with PH domain and SH3 binding motif 2	4.1E-02	1.466
C19orf33 YIF1B	chromosome 19 open reading frame 33 Yip1 interacting factor homolog B (S. cerevisiae)	5.0E-02	1.465

CDCA4	cell division cycle associated 4	3.1E-02	1.464
FLNA	filamin A, alpha	9.8E-03	1.463
PKD2	polycystic kidney disease 2 (autosomal dominant)	4.8E-02	1.460
GTF2H2 GTF2H2B GTF2H2C GTF2H2D	general transcription factor IIH, polypeptide 2, 44kDa general transcription factor IIH, polypeptide 2B general transcription factor IIH, polypeptide 2C general transcription factor IIH, polypeptide 2D	2.3E-02	1.460
CCDC125	coiled-coil domain containing 125	3.5E-02	1.459
PER2	period homolog 2 (Drosophila)	3.7E-02	1.458
GINS3	GINS complex subunit 3 (Psf3 homolog)	1.7E-02	1.456
C5orf43	chromosome 5 open reading frame 43	2.7E-02	1.453
ADCY9	adenylate cyclase 9	3.5E-02	1.452
PLEKHG4	pleckstrin homology domain containing, family G (with RhoGef domain) member 4	1.4E-02	1.451
GTF2H2 GTF2H2B GTF2H2C GTF2H2D	general transcription factor IIH, polypeptide 2, 44kDa general transcription factor IIH, polypeptide 2B general transcription factor IIH, polypeptide 2C general transcription factor IIH, polypeptide 2D	2.4E-02	1.451
GTF2H2 GTF2H2B GTF2H2C GTF2H2D	general transcription factor IIH, polypeptide 2, 44kDa general transcription factor IIH, polypeptide 2B general transcription factor IIH, polypeptide 2C general transcription factor IIH, polypeptide 2D	2.4E-02	1.450
NR2F1	nuclear receptor subfamily 2, group F, member 1	4.6E-02	1.449
HIBADH	3-hydroxyisobutyrate dehydrogenase	3.3E-02	1.448
CCDC92	coiled-coil domain containing 92	4.4E-02	1.448
BST1	bone marrow stromal cell antigen 1	5.0E-02	1.447
CDC42EP3	CDC42 effector protein (Rho GTPase binding) 3	3.2E-02	1.445
RGL2	ral guanine nucleotide dissociation stimulator-like 2	1.7E-02	1.444
RGL2	ral guanine nucleotide dissociation stimulator-like 2	1.7E-02	1.444
ZFH3	zinc finger homeobox 3	1.5E-02	1.441
VPS28	vacuolar protein sorting 28 homolog (S. cerevisiae)	2.7E-02	1.440
NPC2	Niemann-Pick disease, type C2	3.4E-02	1.440
AGGF1	angiogenic factor with G patch and FHA domains 1	3.7E-02	1.440
CAPN2	calpain 2, (m/II) large subunit	1.1E-02	1.440
TMEM8A	transmembrane protein 8A	1.7E-02	1.438
EPST11	epithelial stromal interaction 1 (breast)	1.2E-02	1.438
SRGN	serglycin	1.7E-02	1.437
DOM3Z	dom-3 homolog Z (C. elegans)	3.5E-02	1.436
C1orf57	chromosome 1 open reading frame 57	2.7E-02	1.436

CORO1A	coronin, actin binding protein, 1A	3.9E-02	1.435
AMPD3	adenosine monophosphate deaminase (isoform E)	4.1E-02	1.435
CWH43	cell wall biogenesis 43 C-terminal homolog (<i>S. cerevisiae</i>)	4.2E-02	1.435
CLN8	ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental retardation)	3.6E-02	1.435
NMT2	N-myristoyltransferase 2	3.0E-02	1.434
MRPS34	mitochondrial ribosomal protein S34	4.4E-02	1.431
AMFR	autocrine motility factor receptor	1.7E-02	1.428
CFL2	cofilin 2 (muscle)	4.5E-02	1.427
TMEM161B	transmembrane protein 161B	3.4E-02	1.426
KIF13A	kinesin family member 13A	3.0E-02	1.426
POLR2C	polymerase (RNA) II (DNA directed) polypeptide C, 33kDa	1.4E-02	1.425
COX7C	cytochrome c oxidase subunit VIIc	2.5E-02	1.424
SLC30A5	solute carrier family 30 (zinc transporter), member 5	1.6E-02	1.423
FAM58A	family with sequence similarity 58, member A	3.0E-02	1.423
EXTL2	exostoses (multiple)-like 2	3.4E-02	1.422
KIAA1383	uncharacterized protein KIAA1383	2.7E-02	1.422
RIN1	Ras and Rab interactor 1	3.7E-02	1.422
PAPD5	PAP associated domain containing 5	2.4E-02	1.421
FUT8	fucosyltransferase 8 (alpha (1,6) fucosyltransferase)	2.3E-02	1.421
C16orf70	chromosome 16 open reading frame 70	8.0E-03	1.420
DHX29	DEAH (Asp-Glu-Ala-His) box polypeptide 29	4.1E-02	1.420
SETD6	SET domain containing 6	2.3E-02	1.420
C14orf133	chromosome 14 open reading frame 133	4.2E-02	1.418
FAM119B	family with sequence similarity 119, member B	2.1E-02	1.417
VAC14	Vac14 homolog (<i>S. cerevisiae</i>)	1.1E-02	1.415
FAM86D	family with sequence similarity 86, member D	2.5E-02	1.413
TRAF5	TNF receptor-associated factor 5	3.5E-02	1.413
C13orf1	chromosome 13 open reading frame 1	3.6E-02	1.413
ARL6IP5	ADP-ribosylation-like factor 6 interacting protein 5	2.1E-02	1.412
RGL2	ral guanine nucleotide dissociation stimulator-like 2	2.0E-02	1.409
MRPS36	mitochondrial ribosomal protein S36	4.3E-02	1.409

TMEM188	transmembrane protein 188	1.6E-02	1.409
PAPD4	PAP associated domain containing 4	4.0E-02	1.409
GABRB2	gamma-aminobutyric acid (GABA) A receptor, beta 2	4.8E-02	1.408
GBF1	golgi-specific brefeldin A resistant guanine nucleotide exchange factor 1	3.5E-02	1.408
TMEM185A	transmembrane protein 185A	2.8E-02	1.407
KIF2A	kinesin heavy chain member 2A	4.1E-02	1.405
DUS2L	dihydrouridine synthase 2-like, SMM1 homolog (<i>S. cerevisiae</i>)	2.8E-02	1.405
PDLIM7	PDZ and LIM domain 7 (enigma)	4.3E-02	1.405
MICAL3	microtubule associated monooxygenase, calponin and LIM domain containing 3	4.5E-02	1.405
EP300	E1A binding protein p300	8.0E-03	1.404
TAF9	TAF9 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 32kDa	3.4E-02	1.404
ZCCHC9	zinc finger, CCHC domain containing 9	2.7E-02	1.404
USP4	ubiquitin specific peptidase 4 (proto-oncogene)	2.4E-02	1.403
SV2A	synaptic vesicle glycoprotein 2A	4.9E-02	1.403
FAM46B	family with sequence similarity 46, member B	3.9E-02	1.403
KIAA0174	increased sodium tolerance 1 homolog (yeast)	1.1E-02	1.403
PDPR	pyruvate dehydrogenase phosphatase regulatory subunit	3.2E-02	1.400
GALNT2	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 2 (GalNAc-T2)	2.4E-02	1.400
DDX19A	DEAD (Asp-Glu-Ala-As) box polypeptide 19A	1.9E-02	1.400
FAM65A	family with sequence similarity 65, member A	2.9E-02	1.399
RNU1A RNU1A3 RNU1C1 RNU1C2 RNU1G2 RNU1F1 RNU1G1 RNU1G3 GSTM2	RNA, U1A small nuclear RNA, U1A3 small nuclear RNA, U1C1 small nuclear RNA, U1C2 small nuclear RNA, U1G2 small nuclear RNA, U1F1 small nuclear RNA, U1G1 small nuclear RNA, U1G3 small nuclear glutathione S-transferase mu 2 (muscle)	4.7E-02	1.398
RNU1A RNU1A3 RNU1C1 RNU1C2 RNU1G2 RNU1F1 RNU1G1 RNU1G3 GSTM2	RNA, U1A small nuclear RNA, U1A3 small nuclear RNA, U1C1 small nuclear RNA, U1C2 small nuclear RNA, U1G2 small nuclear RNA, U1F1 small nuclear RNA, U1G1 small nuclear RNA, U1G3 small nuclear glutathione S-transferase mu 2 (muscle)	4.7E-02	1.397
TSPAN4	tetraspanin 4	4.6E-03	1.397
BTBD7	BTB (POZ) domain containing 7	3.9E-02	1.395
BEX1	brain expressed, X-linked 1	1.2E-02	1.394
LNX2	ligand of numb-protein X 2	2.4E-02	1.393
FAM107B	family with sequence similarity 107, member B	3.2E-02	1.392
PLA2G15	phospholipase A2, group XV	1.3E-02	1.390

ZNF7 COMMD5	zinc finger protein 7 COMM domain containing 5	3.1E-02	1.390
AHR	aryl hydrocarbon receptor	4.1E-02	1.390
FNDC3A	fibronectin type III domain containing 3A	4.8E-02	1.389
CCND3	cyclin D3	4.3E-02	1.388
ESD	esterase D/formylglutathione hydrolase	3.1E-02	1.386
GPAM	glycerol-3-phosphate acyltransferase, mitochondrial	2.6E-02	1.386
NEDD4L	neural precursor cell expressed, developmentally down-regulated 4-like	3.9E-02	1.384
TCF7L2	transcription factor 7-like 2 (T-cell specific, HMG-box)	2.7E-02	1.384
SMAP2	small ArfGAP2	3.1E-02	1.384
HOXB4	homeobox B4	3.1E-02	1.384
WDFY2	WD repeat and FYVE domain containing 2	3.5E-02	1.384
TBCE	tubulin folding cofactor E	1.9E-02	1.382
XPNPEP1	X-prolyl aminopeptidase (aminopeptidase P) 1, soluble	2.0E-02	1.380
ANXA5	annexin A5	3.7E-02	1.380
RRAS	related RAS viral (r-ras) oncogene homolog	4.7E-02	1.379
ALCAM	activated leukocyte cell adhesion molecule	1.6E-02	1.379
ARF6	ADP-ribosylation factor 6	3.3E-02	1.379
IPO11	importin 11	4.3E-02	1.378
MGAT5B	mannosyl (alpha-1,6-)-glycoprotein beta-1,6-N-acetyl-glucosaminyltransferase, isozyme B	2.2E-02	1.378
STK32C	serine/threonine kinase 32C	4.5E-02	1.377
CD82	suppressor of tumorigenicity 6 protein	3.0E-02	1.377
ABTB2	ankyrin repeat and BTB (POZ) domain containing 2	3.0E-02	1.377
FHL3	four and a half LIM domains 3	2.6E-02	1.376
PGPEP1 FKBP8	pyroglutamyl-peptidase I FK506 binding protein 8, 38kDa	4.6E-02	1.376
PRDM8	PR domain containing 8	4.5E-02	1.376
PIK3C2B	phosphoinositide-3-kinase, class 2, beta polypeptide	4.3E-02	1.376
KIRREL	kin of IRRE like (Drosophila)	3.9E-02	1.375
ABCC2	ATP-binding cassette, sub-family C (CFTR/MRP), member 2	4.3E-02	1.374
RSPRY1	ring finger and SPRY domain containing 1	3.2E-02	1.373
RCAN3	RCAN family member 3	4.4E-02	1.373
RPS23	ribosomal protein S23	4.5E-02	1.373

ST3GAL2	ST3 beta-galactoside alpha-2,3-sialyltransferase 2	6.0E-03	1.373
USP9X	ubiquitin specific peptidase 9, X-linked	1.9E-02	1.373
PLP1	proteolipid protein 1	1.8E-02	1.371
N4BP1	NEDD4 binding protein 1	4.0E-02	1.371
BCAP31	B-cell receptor-associated protein 31	1.6E-02	1.370
TUBGCP2	tubulin, gamma complex associated protein 2	4.3E-02	1.370
ZNF365	zinc finger protein 365	4.9E-02	1.370
GPR124	G protein-coupled receptor 124	3.4E-02	1.369
CBFB	core-binding factor, beta subunit	3.9E-02	1.365
AARS	alanyl-tRNA synthetase	1.1E-02	1.365
THBD	thrombomodulin	3.9E-02	1.364
DHX38	DEAH (Asp-Glu-Ala-His) box polypeptide 38	9.7E-03	1.364
DGAT1	diacylglycerol O-acyltransferase homolog 1 (mouse)	1.1E-02	1.363
GDI1	GDP dissociation inhibitor 1	2.8E-02	1.363
ADI1	acireductone dioxygenase 1	4.4E-02	1.363
COG3	component of oligomeric golgi complex 3	3.9E-02	1.361
TAOK3	TAO kinase 3	2.9E-02	1.361
SHC1	SHC (Src homology 2 domain containing) transforming protein 1	1.0E-02	1.360
PECI C6orf201	peroxisomal D3,D2-enoyl-CoA isomerase chromosome 6 open reading frame 201	1.7E-02	1.360
IFI27L2	interferon, alpha-inducible protein 27-like 2	3.5E-02	1.358
TEP1	telomerase-associated protein 1	3.8E-02	1.358
LONP2	lon peptidase 2, peroxisomal	7.8E-03	1.357
KIAA0513	uncharacterized protein KIAA0513	1.0E-02	1.356
TRAM2	translocation associated membrane protein 2	2.0E-02	1.356
UNQ3118	GRTR3118	1.5E-02	1.355
PXN	paxillin	3.5E-02	1.355
BCAR1	breast cancer anti-estrogen resistance 1	2.9E-02	1.355
VPS4A	vacuolar protein sorting 4 homolog A (S. cerevisiae)	4.5E-02	1.355
C20orf20	chromosome 20 open reading frame 20	4.2E-02	1.354
ENAH	enabled homolog (Drosophila)	2.6E-02	1.354
HAUS4	HAUS augmin-like complex, subunit 4	3.7E-02	1.354

ADRB2	adrenergic, beta-2-, receptor, surface	4.5E-02	1.354
DAGLB	diacylglycerol lipase, beta	1.4E-02	1.351
GLG1	golgi apparatus protein 1	2.1E-02	1.351
PDPK1	3-phosphoinositide dependent protein kinase-1	2.4E-02	1.351
PDPK1	3-phosphoinositide dependent protein kinase-1	2.4E-02	1.350
UBL4A	ubiquitin-like 4A	3.8E-02	1.348
SLC9A5	solute carrier family 9 (sodium/hydrogen exchanger), member 5	3.0E-02	1.347
PIP4K2C	phosphatidylinositol-5-phosphate 4-kinase, type II, gamma	4.5E-02	1.347
RBL2	retinoblastoma-like 2 (p130)	2.4E-02	1.347
B4GALT1	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 1	4.5E-02	1.346
ARL3	ADP-ribosylation factor-like 3	1.9E-02	1.346
HOXB3	homeobox B3	3.3E-02	1.344
ATP6V0D1 LOC100132855	ATPase, H+ transporting, lysosomal 38kDa, V0 subunit d1 hypothetical protein LOC100132855	2.4E-03	1.342
NRN1	neuritin 1	4.3E-02	1.342
ACD	adrenocortical dysplasia homolog (mouse)	2.4E-02	1.342
CETN2	centrin, EF-hand protein, 2	1.6E-02	1.341
RING1	ring finger protein 1	1.4E-02	1.341
CUL9	cullin 9	4.9E-02	1.340
ARHGAP10	Rho GTPase activating protein 10	2.1E-02	1.340
PDIA6	protein disulfide isomerase family A, member 6	4.2E-02	1.339
CENPT	centromere protein T	1.1E-02	1.339
RBM23	RNA binding motif protein 23	2.3E-02	1.338
TINP1	TGF beta-inducible nuclear protein 1	2.7E-02	1.338
RING1	ring finger protein 1	1.1E-02	1.338
COL4A6	collagen, type IV, alpha 6	3.6E-02	1.338
ITGB1BP1	integrin beta 1 binding protein 1	2.3E-02	1.335
FAM96B	family with sequence similarity 96, member B	4.5E-02	1.334
CHIC2	cysteine-rich hydrophobic domain 2	3.9E-02	1.334
KCTD18	potassium channel tetramerisation domain containing 18	4.8E-02	1.333
VPS36	vacuolar protein sorting 36 homolog (S. cerevisiae)	3.1E-02	1.332
RAP1GDS1	RAP1, GTP-GDP dissociation stimulator 1	2.6E-02	1.332

PTK2	protein tyrosine kinase 2	3.8E-02	1.329
C10orf54	chromosome 10 open reading frame 54	1.6E-02	1.328
ZNF251	zinc finger protein 251	4.8E-02	1.328
TFAP2A LOC100130275	transcription factor AP-2 alpha (activating enhancer binding protein 2 alpha) hypothetical protein LOC100130275	2.4E-02	1.328
KCTD12	potassium channel tetramerisation domain containing 12	5.0E-02	1.328
MGST3	microsomal glutathione S-transferase 3	1.9E-02	1.327
SPARC	secreted protein, acidic, cysteine-rich (osteonectin)	2.7E-02	1.326
LYPLA2P1	lysophospholipase II pseudogene 1	4.2E-02	1.324
IKBKE	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase epsilon	2.3E-02	1.324
VPS35	vacuolar protein sorting 35 homolog (S. cerevisiae)	2.0E-02	1.323
AGPAT5	1-acylglycerol-3-phosphate O-acyltransferase 5 (lysophosphatidic acid acyltransferase, epsilon)	2.4E-02	1.323
SETDB2	SET domain, bifurcated 2	4.4E-02	1.323
MYADM	myeloid-associated differentiation marker	3.2E-02	1.323
LYPLA2 LYPLA2P1 hCG_2003956	lysophospholipase II lysophospholipase II pseudogene 1 hCG2003956	1.6E-02	1.321
ZNF323	zinc finger protein 323	3.1E-02	1.320
MTG1	mitochondrial GTPase 1 homolog (S. cerevisiae)	4.4E-02	1.318
SLC2A4RG ZBTB46	SLC2A4 regulator zinc finger and BTB domain containing 46	1.7E-02	1.317
ARHGAP12	Rho GTPase activating protein 12	3.9E-02	1.317
TERF2	telomeric repeat binding factor 2	1.1E-02	1.317
MAP4K4	mitogen-activated protein kinase kinase kinase kinase 4	2.1E-02	1.316
ANAPC13 CEP63	anaphase promoting complex subunit 13 centrosomal protein 63kDa	3.7E-02	1.316
RAB13	ras-related protein Rab-13	2.5E-02	1.314
TLN1	talin 1	1.9E-02	1.314
VMA21	vacuolar H ⁺ -ATPase homolog (S. cerevisiae)	1.5E-02	1.313
FAM76A	family with sequence similarity 76, member A	3.7E-02	1.313
TM7SF3	transmembrane 7 superfamily member 3	1.8E-02	1.310
DDAH2	dimethylarginine dimethylaminohydrolase 2	1.4E-02	1.309
H1F0	H1 histone family, member 0	4.5E-02	1.308
PALLD	palladin, cytoskeletal associated protein	4.8E-02	1.308
SNORD52	small nucleolar RNA, C/D box 52	4.0E-02	1.307

SNX18	sorting nexin 18	3.1E-02	1.307
ZNF250	zinc finger protein 250	2.8E-02	1.307
DIMT1L	DIM1 dimethyladenosine transferase 1-like (<i>S. cerevisiae</i>)	4.0E-02	1.307
TACC2	transforming, acidic coiled-coil containing protein 2	3.9E-02	1.302
CCNB1	cyclin B1	4.5E-02	1.301
RP11-529I10.4	deleted in a mouse model of primary ciliary dyskinesia	3.2E-02	1.301
NUP93	nucleoporin 93kDa	3.5E-02	1.300
CTSA	cathepsin A	3.9E-02	1.300
G6PD	glucose-6-phosphate dehydrogenase	1.7E-02	1.299
CD63	CD63 molecule	3.3E-02	1.297
TRIP6	thyroid hormone receptor interactor 6	2.1E-02	1.296
DNAJA3	DnaJ (Hsp40) homolog, subfamily A, member 3	4.6E-02	1.296
BTF3	basic transcription factor 3	3.9E-02	1.295
GABARAPL2	GABA(A) receptor-associated protein-like 2	2.9E-02	1.295
RCBTB2	regulator of chromosome condensation (RCC1) and BTB (POZ) domain containing protein 2	1.2E-02	1.295
MED14	mediator complex subunit 14	1.1E-02	1.294
SEMA4F	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4F	3.3E-02	1.293
SMTN	smoothelin	4.5E-02	1.292
NACAD	NAC alpha domain containing	4.9E-02	1.292
GLYR1	glyoxylate reductase 1 homolog (<i>Arabidopsis</i>)	3.5E-02	1.292
LGALS1	lectin, galactoside-binding, soluble, 1	3.1E-02	1.292
CDKN1B	cyclin-dependent kinase inhibitor 1B (p27, Kip1)	2.6E-02	1.291
GBAS	glioblastoma amplified sequence	4.6E-02	1.290
EMP3	epithelial membrane protein 3	1.4E-02	1.290
C5orf35	chromosome 5 open reading frame 35	3.3E-02	1.290
JUN	jun oncogene	3.3E-02	1.290
USMG5	up-regulated during skeletal muscle growth 5 homolog (mouse)	2.0E-02	1.289
LMNA	lamin A/C	3.0E-02	1.289
MLST8	MTOR associated protein, LST8 homolog (<i>S. cerevisiae</i>)	3.0E-02	1.288
UROD	uroporphyrinogen decarboxylase	1.6E-02	1.288

ZNF132	zinc finger protein 132	3.6E-02	1.288
SUCLA2	succinate-CoA ligase, ADP-forming, beta subunit	4.2E-02	1.287
KCNN4	potassium intermediate/small conductance calcium-activated channel, subfamily N, member 4	4.2E-02	1.287
RERE	arginine-glutamic acid dipeptide (RE) repeats	3.7E-02	1.286
DCK	deoxycytidine kinase	4.7E-02	1.285
TBX18	T-box 18	3.4E-02	1.285
RNF187	ring finger protein 187	1.9E-02	1.284
UBQLN4	ubiquilin 4	3.4E-02	1.283
GFOD2	glucose-fructose oxidoreductase domain containing 2	3.2E-02	1.283
INSIG1	insulin induced gene 1	4.4E-02	1.281
HIVEP3	human immunodeficiency virus type I enhancer binding protein 3	4.4E-02	1.280
ENTPD5	ectonucleoside triphosphate diphosphohydrolase 5	3.7E-02	1.280
C16orf80	chromosome 16 open reading frame 80	2.3E-02	1.280
SNTB2	syntrophin, beta 2 (dystrophin-associated protein A1, 59kDa, basic component 2)	3.7E-02	1.278
TPM1	tropomyosin 1 (alpha)	3.4E-02	1.278
CLSTN1	calsyntenin 1	1.7E-02	1.278
DAXX	death-domain associated protein	2.1E-02	1.276
ZCCHC24	zinc finger, CCHC domain containing 24	4.1E-02	1.276
MICAL3	microtubule associated monooxygenase, calponin and LIM domain containing 3	2.9E-02	1.276
CUTA	cutA divalent cation tolerance homolog (E. coli)	1.4E-02	1.274
RNF115	ring finger protein 115	3.4E-02	1.273
LCAT SLC12A4	lecithin-cholesterol acyltransferase solute carrier family 12 (potassium/chloride transporters), member 4	3.6E-02	1.273
HIST1H3J	histone cluster 1, H3j	2.5E-02	1.272
ZNF319	zinc finger protein 319	4.7E-02	1.271
TMEM169	transmembrane protein 169	3.8E-02	1.270
KARS	lysyl-tRNA synthetase	4.4E-02	1.269
SMN1 SMN2	survival of motor neuron 1, telomeric survival of motor neuron 2, centromeric	3.1E-02	1.268
RNASEH2B	ribonuclease H2, subunit B	3.8E-02	1.267
PDZD8	PDZ domain containing 8	4.4E-02	1.267
DYNC1L12	dynein, cytoplasmic 1, light intermediate chain 2	3.5E-02	1.267
NSL1	NSL1, MIND kinetochore complex component, homolog (S. cerevisiae)	3.6E-02	1.267

PLEKHF1	pleckstrin homology domain containing, family F (with FYVE domain) member 1	3.1E-02	1.266
RNF5P1	ring finger protein 5 pseudogene 1	3.3E-02	1.265
ZKSCAN4	zinc finger with KRAB and SCAN domains 4	3.6E-02	1.265
MOBK2C MKNK1	MOB1, Mps One Binder kinase activator-like 2C (yeast) MAP kinase interacting serine/threonine kinase 1	3.1E-02	1.264
CYB5B	cytochrome b5 type B (outer mitochondrial membrane)	1.4E-02	1.263
PAWR	PRKC, apoptosis, WT1, regulator	3.7E-02	1.262
SMN1 SMN2	survival of motor neuron 1, telomeric survival of motor neuron 2, centromeric	3.0E-02	1.262
MED20	mediator complex subunit 20	3.7E-02	1.261
RALB	v-ral simian leukemia viral oncogene homolog B (ras related; GTP binding protein)	1.8E-02	1.261
ARFGAP3	ADP-ribosylation factor GTPase activating protein 3	4.3E-02	1.260
JUB	jub, ajuba homolog (<i>Xenopus laevis</i>)	1.6E-02	1.258
ARPC5	actin related protein 2/3 complex, subunit 5, 16kDa	2.4E-02	1.257
MTCH1	mitochondrial carrier homolog 1 (<i>C. elegans</i>)	2.2E-02	1.257
NFATC3	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3	2.4E-02	1.257
MTMR9	myotubularin related protein 9	3.9E-02	1.256
ERLIN1	ER lipid raft associated 1	3.4E-02	1.255
PPWD1	peptidylprolyl isomerase domain and WD repeat containing 1	2.6E-02	1.255
FAM86A	family with sequence similarity 86, member A	4.2E-02	1.254
ZNF16	zinc finger protein 16	2.1E-02	1.251
NTAN1 PDXDC1	N-terminal asparagine amidase pyridoxal-dependent decarboxylase domain containing 1	3.1E-02	1.251
GALE	UDP-galactose-4-epimerase	2.4E-02	1.250
INPP5F	inositol polyphosphate-5-phosphatase F	4.4E-02	1.250
PFKP	phosphofructokinase, platelet	3.7E-02	1.249
PSTK	phosphoseryl-tRNA kinase	5.0E-02	1.249
RAGE	renal tumor antigen	4.4E-02	1.248
EMD	emerin	2.8E-02	1.247
TCTN2	tectonic family member 2	3.2E-02	1.247
TMEM189 TMEM189-UBE2V1	transmembrane protein 189 TMEM189-UBE2V1 readthrough transcript ubiquitin-conjugating enzyme E2 variant 1	4.6E-02	1.245
NFAT5	nuclear factor of activated T-cells 5, tonicity-responsive	2.9E-02	1.244
EEF1D	eukaryotic translation elongation factor 1 delta (guanine nucleotide exchange protein)	4.3E-02	1.244

RAB40C	ras-like protein family member 8C	2.2E-02	1.244
LCMT1	leucine carboxyl methyltransferase 1	4.3E-02	1.243
RSU1	Ras suppressor protein 1	2.0E-02	1.242
SMPD1	sphingomyelin phosphodiesterase 1, acid lysosomal	4.6E-02	1.242
COQ9	coenzyme Q9 homolog (S. cerevisiae)	2.7E-02	1.241
FER1L5	fer-1-like 5 (C. elegans)	2.4E-02	1.240
POLE4	polymerase (DNA-directed), epsilon 4 (p12 subunit)	2.6E-02	1.240
MCL1	myeloid cell leukemia sequence 1 (BCL2-related)	3.5E-02	1.239
NIP7	nuclear import 7 homolog (S. cerevisiae)	1.8E-02	1.239
DYNLT1	dynein, light chain, Tctex-type 1	4.3E-02	1.238
DNASE1	deoxyribonuclease I	4.2E-02	1.237
CD44	cell surface glycoprotein CD44	1.9E-02	1.237
FLJ10357	rho guanine nucleotide exchange factor (GEF) 40	3.4E-02	1.237
TNFRSF12A	tumor necrosis factor receptor superfamily, member 12A	3.5E-02	1.237
WWTR1	WW domain containing transcription regulator 1	2.3E-02	1.236
APIG1	adaptor-related protein complex 1, gamma 1 subunit	3.9E-02	1.234
VPS45	vacuolar protein sorting 45 homolog (S. cerevisiae)	3.6E-02	1.233
FMNL3	formin-like 3	1.9E-02	1.233
ITGB1	integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12)	3.7E-02	1.232
BRP44	brain protein 44	2.5E-02	1.232
FBXL5	F-box and leucine-rich repeat protein 5	1.1E-02	1.232
KIAA0391	mitochondrial ribonuclease P protein 3	2.8E-02	1.232
TDRD3	tudor domain containing 3	1.8E-02	1.231
FCF1	FCF1 small subunit (SSU) processome component homolog (S. cerevisiae)	3.0E-02	1.231
IL17RA	interleukin 17 receptor A	4.0E-02	1.231
DAB1	disabled homolog 1 (Drosophila)	3.4E-02	1.231
FAM50A	family with sequence similarity 50, member A	3.7E-02	1.230
C14orf43	chromosome 14 open reading frame 43	4.7E-02	1.230
ABL2	v-abl Abelson murine leukemia viral oncogene homolog 2 (arg. Abelson-related gene)	3.3E-02	1.228
SF3B3	splicing factor 3b, subunit 3, 130kDa	3.0E-02	1.228
LY96	lymphocyte antigen 96	3.3E-02	1.228

TIMELESS	timeless homolog (Drosophila)	3.4E-02	1.227
CAP2	CAP, adenylate cyclase-associated protein, 2 (yeast)	4.9E-02	1.227
MAPKAPK2	mitogen-activated protein kinase-activated protein kinase 2	4.1E-02	1.225
VKORC1 POL3S	vitamin K epoxide reductase complex, subunit 1 polyserase 3	4.6E-02	1.225
SEPT9	septin 9	1.2E-02	1.225
AKR7A2 AKR7A3	aldo-keto reductase family 7, member A2 (aflatoxin aldehyde reductase) aldo-keto reductase family 7, member A3 (aflatoxin aldehyde reductase)	3.7E-02	1.224
CDC42SE1	CDC42 small effector 1	4.1E-02	1.224
CIAPIN1	cytokine induced apoptosis inhibitor 1	2.7E-02	1.222
SUFU	suppressor of fused homolog (Drosophila)	4.8E-02	1.221
MCFD2	multiple coagulation factor deficiency 2	3.5E-02	1.221
CUEDC1	CUE domain containing 1	3.1E-02	1.219
LOC157740	hypothetical protein C8orf9	2.9E-02	1.218
SLC7A6OS	solute carrier family 7, member 6 opposite strand solute carrier family 7 (cationic amino acid transporter, y+ system), member 6	4.3E-02	1.218
SMAD1	SMAD family member 1	4.0E-02	1.217
CTA-216E10.6	hypothetical FLJ23584	3.3E-02	1.216
RFWD3	ring finger and WD repeat domain 3	2.3E-02	1.214
RAB9B	ras-related protein Rab-9B	2.0E-02	1.214
BLCAP	bladder cancer associated protein	2.1E-02	1.214
SLC35E3	solute carrier family 35, member E3	4.7E-02	1.213
HIST1H2BI	histone cluster 1, H2bi	4.5E-02	1.213
WDR59	WD repeat domain 59	3.5E-02	1.213
CCNH	cyclin H	3.9E-02	1.213
B4GALT5	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 5	4.3E-02	1.210
TPM2	tropomyosin 2 (beta)	3.0E-02	1.208
MSTO2P MSTO1	misato homolog 2 pseudogene misato homolog 1 (Drosophila)	4.6E-02	1.208
EIF2B1	eukaryotic translation initiation factor 2B, subunit 1 alpha, 26kDa	4.6E-02	1.208
FAM98C	family with sequence similarity 98, member C	3.5E-02	1.207
CHRAC1	chromatin accessibility complex 1	2.4E-02	1.206
NUDT21	nudix (nucleoside diphosphate linked moiety X)-type motif 21	4.6E-02	1.205
DENND2C	DENN/MADD domain containing 2C	4.2E-02	1.205

RAC1	ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1)	4.1E-02	1.204
THAP11	THAP domain containing 11	5.0E-02	1.203
PDE6D	phosphodiesterase 6D, cGMP-specific, rod, delta	3.7E-02	1.203
LRRRC14	leucine rich repeat containing 14	3.6E-02	1.202
NUTF2	nuclear transport factor 2	2.9E-02	1.202
CLIC1	chloride intracellular channel 1	4.9E-02	1.200
LEPREL2 GPR162	leprecan-like 2 G protein-coupled receptor 162	3.6E-02	1.200
ABCB10	ATP-binding cassette, sub-family B (MDR/TAP), member 10	4.9E-02	1.199
WDR1	WD repeat domain 1	2.5E-02	1.199
C1orf107	chromosome 1 open reading frame 107	1.7E-02	1.199
C19orf40	chromosome 19 open reading frame 40	1.6E-02	1.199
RAPGEF2	Rap guanine nucleotide exchange factor (GEF) 2	4.5E-02	1.198
BRD7	bromodomain containing 7	4.6E-02	1.198
KCTD3	potassium channel tetramerisation domain containing 3	3.1E-02	1.196
RXRB	retinoid X receptor, beta	4.8E-02	1.195
GLT8D1	glycosyltransferase 8 domain containing 1	2.4E-02	1.195
SCPEP1	serine carboxypeptidase 1	2.6E-02	1.195
COG8 PDF	component of oligomeric golgi complex 8 peptide deformylase (mitochondrial)	1.7E-02	1.195
ITM2B	integral membrane protein 2B	3.1E-02	1.194
TPT1	tumor protein, translationally-controlled 1	4.1E-02	1.193
RHOC	ras homolog gene family, member C	3.0E-02	1.192
C20orf196	chromosome 20 open reading frame 196	4.6E-02	1.192
MTMR2	myotubularin related protein 2	3.6E-02	1.191
DENND5B	DENN/MADD domain containing 5B	1.6E-02	1.190
VPS37B	vacuolar protein sorting 37 homolog B (S. cerevisiae)	1.6E-02	1.190
ATXN10	ataxin 10	2.0E-02	1.189
SLC38A2	solute carrier family 38, member 2	4.9E-02	1.189
ARPC3	actin related protein 2/3 complex, subunit 3, 21kDa	3.9E-02	1.189
SERAC1	serine active site containing 1	4.9E-02	1.187
SH3BGRL3	SH3 domain binding glutamic acid-rich protein like 3	3.6E-02	1.185
POLR1D	polymerase (RNA) I polypeptide D, 16kDa	2.4E-02	1.185

OR2L2	olfactory receptor, family 2, subfamily L, member 2	4.6E-02	1.185
PPOX	protoporphyrinogen oxidase	2.8E-02	1.184
PHLPP2	PH domain and leucine rich repeat protein phosphatase 2	4.9E-02	1.184
MPRIP	myosin phosphatase Rho interacting protein	3.1E-02	1.182
BUB3	budding uninhibited by benzimidazoles 3 homolog (yeast)	2.0E-02	1.182
CCDC147	coiled-coil domain containing 147	2.9E-02	1.180
ATF6B TNXB	activating transcription factor 6 beta tenascin XB	3.9E-02	1.180
SERINC3	serine incorporator 3	3.6E-02	1.179
LSM6	LSM6 homolog, U6 small nuclear RNA associated (S. cerevisiae)	3.4E-02	1.179
MYL6	myosin, light chain 6, alkali, smooth muscle and non-muscle	5.0E-02	1.179
CIC	capicua homolog (Drosophila)	2.4E-02	1.177
CYP2D7P1 CYP2D6	cytochrome P450, family 2, subfamily D, polypeptide 7 pseudogene 1 cytochrome P450, family 2, subfamily D, polypeptide 6	1.3E-02	1.174
ANO8	anoctamin 8	4.0E-02	1.174
CHEK2	CHK2 checkpoint homolog (S. pombe)	2.0E-02	1.173
NAE1	NEDD8 activating enzyme E1 subunit 1	4.4E-02	1.171
MAN2B2	mannosidase, alpha, class 2B, member 2	3.4E-02	1.168
STK39	serine threonine kinase 39 (STE20/SPS1 homolog, yeast)	3.3E-02	1.167
C10orf88	chromosome 10 open reading frame 88	4.6E-02	1.167
PRO0461	hypothetical LOC652276	2.8E-02	1.166
LRRC28	leucine rich repeat containing 28	4.4E-02	1.165
CEP250	centrosomal protein 250kDa	4.8E-02	1.165
CD47	CD47 glycoprotein	4.1E-02	1.165
TCEANC	transcription elongation factor A (SII) N-terminal and central domain containing	1.7E-02	1.164
KRT6A	keratin 6A	4.2E-02	1.163
ARHGAP17	Rho GTPase activating protein 17	2.8E-02	1.163
SIAH1	seven in absentia homolog 1 (Drosophila)	2.4E-02	1.162
CAPNS1	calpain, small subunit 1	2.8E-02	1.161
CNOT1	CCR4-NOT transcription complex, subunit 1	3.3E-02	1.160
XPO5	exportin 5	1.5E-02	1.159
RAB3A	ras-related protein Rab-3a	2.3E-02	1.159

NADK	NAD kinase	2.3E-02	1.159
CIRH1A	cirrhosis, autosomal recessive 1A (cirhin)	2.7E-02	1.158
TOMM40L	translocase of outer mitochondrial membrane 40 homolog (yeast)-like	4.0E-02	1.156
ARID3C	AT rich interactive domain 3C (BRIGHT-like)	2.8E-02	1.156
LGTN	ligatin	4.4E-02	1.155
SHKBP1	SH3KBP1 binding protein 1	4.5E-02	1.154
BPNT1	3'(2'), 5'-bisphosphate nucleotidase 1	3.4E-02	1.154
IFT140	intraflagellar transport 140 homolog (Chlamydomonas)	4.1E-02	1.154
SCTR	secretin receptor	2.0E-02	1.153
TRIOBP NOL12	TRIO and F-actin binding protein nucleolar protein 12	4.5E-02	1.153
KCTD10	potassium channel tetramerisation domain containing 10	3.7E-02	1.153
SNHG11 SNORA60	small nucleolar RNA host gene 11 (non-protein coding) small nucleolar RNA, H/ACA box 60	3.9E-02	1.152
MICALL2	MICAL-like 2	4.0E-02	1.152
ZNF385B	zinc finger protein 385B	2.3E-02	1.151
NCRNA00087	non-protein coding RNA 87	2.5E-02	1.150
IPO9	importin 9	5.0E-02	1.150
CRX	cone-rod homeobox	2.7E-02	1.150
ZNF436 C1orf213	zinc finger protein 436 chromosome 1 open reading frame 213	4.2E-02	1.148
CLTCL1	clathrin, heavy chain-like 1	2.7E-02	1.148
CEL	carboxyl ester lipase (bile salt-stimulated lipase)	5.0E-02	1.148
CSNK2A2	casein kinase 2, alpha prime polypeptide	2.6E-02	1.143
TMSB10	thymosin beta 10	2.4E-02	1.143
TXNL1	thioredoxin-like 1	3.0E-02	1.143
YWHAQ LOC392510	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide tyrosine 3/tryptophan 5-monooxygenase activation protein, theta polypeptide pseudogene	3.0E-02	1.142
OR4F21 OR4F16 OR4F29 OR4F3	olfactory receptor, family 4, subfamily F, member 21 olfactory receptor, family 4, subfamily F, member 16 olfactory receptor, family 4, subfamily F, member 29 olfactory receptor, family 4, subfamily F, member 3	4.4E-02	1.142
B3GAT1	beta-1,3-glucuronosyltransferase 1 (glucuronosyltransferase P)	3.7E-02	1.141
C16orf57	chromosome 16 open reading frame 57	3.5E-02	1.141
IKBKG	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase gamma	4.8E-02	1.141
CA11	carbonic anhydrase XI	3.0E-02	1.140
EGLN1	egl nine homolog 1 (C. elegans)	3.6E-02	1.139

DENND4B	DENN/MADD domain containing 4B	7.8E-03	1.138
ELOVL3	elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 3	3.3E-02	1.138
OR7D4	olfactory receptor, family 7, subfamily D, member 4	1.5E-02	1.138
OR5B12	olfactory receptor, family 5, subfamily B, member 12	3.2E-02	1.137
RABAC1	Rab acceptor 1 (prenylated)	1.6E-02	1.136
WFDC10B WFDC13	WAP four-disulfide core domain 10B WAP four-disulfide core domain 13	4.7E-02	1.136
ZYX	zyxin	2.3E-02	1.135
VSIG6	V-set and immunoglobulin domain containing 6	2.2E-02	1.134
C6orf125	chromosome 6 open reading frame 125	2.4E-02	1.131
XYLT2	xylosyltransferase II	1.6E-02	1.131
C4orf44	chromosome 4 open reading frame 44	3.7E-02	1.131
FAM175B	family with sequence similarity 175, member B	2.8E-02	1.130
PODNL1	podocan-like 1	3.0E-02	1.130
TRPM4	transient receptor potential cation channel, subfamily M, member 4	4.9E-02	1.130
ATRIP TREX1	ATR interacting protein three prime repair exonuclease 1	3.5E-02	1.130
SIPA1L3	signal-induced proliferation-associated 1 like 3	4.4E-02	1.129
SEC61A1	Sec61 alpha 1 subunit (<i>S. cerevisiae</i>)	3.3E-02	1.129
LOC644936	cytoplasmic beta-actin pseudogene	4.3E-02	1.128
RAG1AP1	recombination activating gene 1 activating protein 1	2.4E-02	1.128
SDHC	succinate dehydrogenase complex, subunit C, integral membrane protein, 15kDa	1.9E-02	1.127
RND1	Rho family GTPase 1	1.9E-02	1.126
BCKDK	branched chain ketoacid dehydrogenase kinase	4.8E-02	1.124
POLR3C	polymerase (RNA) III (DNA directed) polypeptide C (62kD)	1.5E-02	1.124
TMEM134	transmembrane protein 134	4.4E-02	1.124
CCDC115	coiled-coil domain containing 115	4.8E-02	1.122
LIN52	lin-52 homolog (<i>C. elegans</i>)	4.6E-02	1.122
ZNF839	zinc finger protein 839	3.4E-02	1.122
S100A10	S100 calcium binding protein A10	3.9E-02	1.120
C5orf36	chromosome 5 open reading frame 36	3.0E-02	1.118
UBE2T	ubiquitin-conjugating enzyme E2T (putative)	3.6E-02	1.118
DDX3X	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, X-linked	2.8E-02	1.116

TMEM150B	transmembrane protein 150B	4.4E-02	1.115
FBXL17	F-box and leucine-rich repeat protein 17	4.8E-02	1.115
IARS2	isoleucyl-tRNA synthetase 2, mitochondrial	3.5E-02	1.114
STMN1	stathmin 1	3.3E-02	1.114
HMCN2	hemicentin 2	3.6E-02	1.114
ACOX2	acyl-Coenzyme A oxidase 2, branched chain	2.0E-02	1.114
ABCG1	ATP-binding cassette, sub-family G (WHITE), member 1	2.8E-02	1.112
NDRG4	NDRG family member 4	3.7E-02	1.111
C12orf75	chromosome 12 open reading frame 75	4.6E-02	1.110
FBXO43	F-box protein 43	4.7E-02	1.110
IL1F10	interleukin 1 family, member 10 (theta)	4.4E-02	1.109
C16orf91	chromosome 16 open reading frame 91	4.0E-02	1.108
H3F3A H3F3B LOC440926	H3 histone, family 3A H3 histone, family 3B (H3.3B) H3 histone, family 3A pseudogene	3.1E-02	1.108
EIF2B2	eukaryotic translation initiation factor 2B, subunit 2 beta, 39kDa	2.9E-02	1.106
LPO	lactoperoxidase	1.6E-02	1.106
GPRIN2	G protein regulated inducer of neurite outgrowth 2	2.7E-02	1.105
GIT2	G protein-coupled receptor kinase interacting ArfGAP 2	2.8E-02	1.105
PEG3 ZIM2	paternally expressed 3 zinc finger, imprinted 2	4.5E-02	1.102
C6orf57	chromosome 6 open reading frame 57	2.6E-02	1.102
GOLGA3	golgi autoantigen, golgin subfamily a, 3	7.8E-03	1.102
PRR3	proline rich 3	1.3E-02	1.101
LRRC42	leucine rich repeat containing 42	4.9E-02	1.101
USP46	ubiquitin specific peptidase 46	4.9E-02	1.100
PNO1	partner of NOB1 homolog (S. cerevisiae)	4.9E-02	1.100
RNASEH2A	ribonuclease H2, subunit A	1.1E-02	1.099
KIR3DX1	killer cell immunoglobulin-like receptor, three domains, X1	4.3E-02	1.099
RTEL1 TNFRSF6B	regulator of telomere elongation helicase 1 tumor necrosis factor receptor superfamily, member 6b, decoy	3.2E-02	1.098
RAD9A LOC100130987	RAD9 homolog A (S. pombe) similar to hCG1815675	4.8E-02	1.097
TTY1 TTY2 LOC100101116 LOC100101117	testis-specific transcript, Y-linked 1 (non-protein coding) testis-specific transcript, Y-linked 2 (non-protein coding) testis-specific transcript, Y-linked 1-like testis-specific transcript, Y-linked 2-like	3.3E-02	1.096
CCR9	chemokine (C-C motif) receptor 9	4.9E-02	1.096

KCNJ14	potassium inwardly-rectifying channel, subfamily J, member 14	4.1E-02	1.096
IL1RN	interleukin 1 receptor antagonist	4.3E-02	1.095
SHROOM2	shroom family member 2	4.9E-02	1.092
TTY1 TTY2 LOC100101116 LOC100101117 SNORD115-44	testis-specific transcript, Y-linked 1 (non-protein coding) testis-specific transcript, Y-linked 2 (non-protein coding) testis-specific transcript, Y-linked 1-like testis-specific transcript, Y-linked 2-like small nucleolar RNA, C/D box 115-44	3.7E-02	1.091
MEF2D	myocyte enhancer factor 2D	2.7E-02	1.091
KLHDC3	myocyte enhancer factor 2D	4.0E-02	1.090
ALK	kelch domain containing 3	4.6E-02	1.088
PADI3	anaplastic lymphoma receptor tyrosine kinase	4.7E-02	1.087
OR1I1	peptidyl arginine deiminase, type III	2.2E-02	1.085
KIR2DL4 KIR2DL3 KIR2DL5A	olfactory receptor, family 1, subfamily I, member 1	3.6E-02	1.085
TRPV1	killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 4 killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 3 killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 5A	4.6E-02	1.083
OR2L5	transient receptor potential cation channel, subfamily V, member 1	2.8E-02	1.083
PLG	olfactory receptor, family 2, subfamily L, member 5	3.5E-02	1.082
EHF	plasminogen	3.7E-02	1.081
USP51	ets homologous factor	3.4E-02	1.081
SLC41A1	ubiquitin specific peptidase 51	4.9E-02	1.081
ACTB ACTG1	solute carrier family 41, member 1	1.8E-02	1.081
KRT1	actin, beta actin, gamma 1	1.5E-02	1.080
HYDIN HYDIN2	keratin 1	2.3E-02	1.079
TRAPPC6A	hydrocephalus inducing homolog (mouse) hydrocephalus inducing homolog 2 (mouse)	4.7E-02	1.078
SLC9A11	trafficking protein particle complex 6A	1.7E-02	1.077
HCN1	solute carrier family 9, member 11	4.7E-02	1.076
TFDP3	hyperpolarization activated cyclic nucleotide-gated potassium channel 1	2.3E-02	1.074
OR8J3	transcription factor Dp family, member 3	2.2E-02	1.073
OR1L6	olfactory receptor, family 8, subfamily J, member 3	4.0E-02	1.072
CNTNAP3 RP11-138L21.1 CNTNAP3B	olfactory receptor, family 1, subfamily L, member 6	4.8E-02	1.071
PMP2	contactin associated protein-like 3 similar to cell recognition molecule CASPR3 contactin associated protein-like 3B	2.4E-02	1.069
hCG_1776018	peripheral myelin protein 2	2.8E-02	1.068
	phosphoinositide-interacting regulator of transient receptor potential channels	4.0E-02	1.067

LCT	lactase	4.8E-02	1.067
RPS3A	ribosomal protein S3A	5.0E-02	1.067
PPYR1	pancreatic polypeptide receptor 1	4.6E-02	1.065
C13orf30	chromosome 13 open reading frame 30	2.9E-02	1.065
AGR2	anterior gradient homolog 2 (<i>Xenopus laevis</i>)	4.1E-02	1.064
ABCA13	ATP-binding cassette, sub-family A (ABC1), member 13	4.3E-02	1.063
CFTR	cystic fibrosis transmembrane conductance regulator (ATP-binding cassette sub-family C, member 7)	2.7E-02	1.062
FLJ40288	uncharacterized protein	4.4E-02	1.062
C8orf79	chromosome 8 open reading frame 79	3.6E-02	1.061
KCND2	potassium voltage-gated channel, Shal-related subfamily, member 2	2.4E-02	1.061
PCDHB7	protocadherin beta 7	3.1E-02	1.061
GPR34	G protein-coupled receptor 34	3.5E-02	1.060
MMP13	matrix metalloproteinase 13 (collagenase 3)	2.9E-02	1.059
GRM3	glutamate receptor, metabotropic 3	4.6E-02	1.059
C7	complement component 7	5.0E-02	1.059
ENO1	enolase 1, (alpha)	2.0E-02	1.059
COPG	coatamer protein complex, subunit gamma	3.4E-02	1.058
OR1C1	olfactory receptor, family 1, subfamily C, member 1	4.0E-02	1.057
IFNW1	interferon, omega 1	2.5E-02	1.057
PCBP2	poly(rC) binding protein 2	3.5E-02	1.056
SASH3	SAM and SH3 domain containing 3	4.3E-02	1.053
MRPL15	mitochondrial ribosomal protein L15	3.6E-02	1.052
FAM75A7 FAM75C1 FAM75A2 LOC645961 FAM75A6 FAM75A1 FAM75A3 FAM75A5 FAM75A4	family with sequence similarity 75, member A7 family with sequence similarity 75, member C1 family with sequence similarity 75, member A2 similar to chromosome 9 open reading frame 36 family with sequence similarity 75, member A6 family with sequence similarity 75, member A1 family with sequence similarity 75, member A3 family with sequence similarity 75, member A5 family with sequence similarity 75, member A4	3.9E-02	1.052
RBX1 XPNPEP3	ring-box 1 X-prolyl aminopeptidase (aminopeptidase P) 3, putative	3.9E-02	1.052
LOC644714	uncharacterized protein	5.0E-02	1.051
CCDC83	coiled-coil domain containing 83	1.5E-02	1.050
NXF2 NXF2B	nuclear RNA export factor 2 nuclear RNA export factor 2B	4.4E-02	1.050
POTEE POTEF LOC653781	POTE ankyrin domain family, member E POTE ankyrin domain family, member F similar to protein expressed in prostate, ovary, testis, and placenta 2	2.1E-02	1.050

ACMSD	aminocarboxymuconate semialdehyde decarboxylase	4.4E-02	1.046
LOC283767 LOC645202 LOC727832 LOC100132025 LOC440243	golgi autoantigen, golgin subfamily a-like hypothetical LOC645202 transmembrane domain-containing protein ENSP00000320207-like Putative golgin subfamily A member 6-like protein 6	4.1E-02	1.046
RXFP1	relaxin/insulin-like family peptide receptor 1	2.3E-02	1.046
CNTN6	contactin 6	4.4E-02	1.042
OR2AP1	olfactory receptor, family 2, subfamily AP, member 1	4.3E-02	1.042
CCDC79	coiled-coil domain containing 79	3.0E-02	1.041
OR6C1	olfactory receptor, family 6, subfamily C, member 1	2.3E-02	1.040
GPM6B	glycoprotein M6B	4.5E-02	1.038
TMEM195	transmembrane protein 195	3.9E-02	1.034
NF-E4	transcription factor NF-E4	3.9E-02	1.032
NDST3	N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 3	4.9E-02	1.030
GAPDH	glyceraldehyde-3-phosphate dehydrogenase	4.3E-02	1.029
APOC3	apolipoprotein C-III	4.2E-02	1.023
NRCAM	neuronal cell adhesion molecule	2.6E-02	1.020
OR4A15	olfactory receptor, family 4, subfamily A, member 15	3.9E-02	1.019
DEFB130	defensin, beta 130	3.6E-02	1.019
OR6C70	olfactory receptor, family 6, subfamily C, member 70	4.7E-02	-1.024
POTEF POTEE POTEG P704P POTEH LOC653781	POTE ankyrin domain family, member F POTE ankyrin domain family, member E POTE ankyrin domain family, member G prostate-specific P704P POTE ankyrin domain family, member H similar to protein expressed in prostate, ovary, testis, and placenta 2	4.4E-02	-1.025
OR8K5	olfactory receptor, family 8, subfamily K, member 5	3.6E-02	-1.025
CCDC67	coiled-coil domain containing 67	3.8E-02	-1.027
POTEE POTEF POTEH POTEG POTEC P704P LOC653781 POTEK	POTE ankyrin domain family, member E POTE ankyrin domain family, member F POTE ankyrin domain family, member H POTE ankyrin domain family, member G POTE ankyrin domain family, member C prostate-specific P704P similar to protein expressed in prostate, ovary, testis, and placenta 2 POTE ankyrin domain family, member K	1.2E-02	-1.029
HTR2B	5-hydroxytryptamine (serotonin) receptor 2B	4.5E-02	-1.031
GYPB	glycophorin B (MNS blood group)	2.5E-02	-1.033
OR5D16	olfactory receptor, family 5, subfamily D, member 16	3.3E-02	-1.037
RPL36AP40	ribosomal protein L36a pseudogene 40	1.7E-02	-1.041
TAS2R8	taste receptor, type 2, member 8	4.6E-02	-1.041
RAB9P1	RAB9, member RAS oncogene family, pseudogene 1	3.7E-02	-1.045

BPY2 BPY2B BPY2C	basic charge, Y-linked, 2 basic charge, Y-linked, 2B basic charge, Y-linked, 2C	1.1E-02	-1.045
UGT2A3	UDP glucuronosyltransferase 2 family, polypeptide A3	3.9E-02	-1.046
CXCL10	chemokine (C-X-C motif) ligand 10	2.3E-02	-1.048
LRAT	lecithin retinol acyltransferase (phosphatidylcholine--retinol O-acyltransferase)	3.6E-02	-1.048
ALDH3A1	aldehyde dehydrogenase 3 family, member A1	2.7E-02	-1.049
TMED2	transmembrane emp24 domain trafficking protein 2	4.3E-02	-1.052
RIC3	resistance to inhibitors of cholinesterase 3 homolog (C. elegans)	3.0E-02	-1.053
tcag7.1071	hypothetical LOC100130988	4.4E-02	-1.055
LOC100128372	similar to hCG2040192	4.4E-02	-1.057
SOX13	SRY (sex determining region Y)-box 13	3.6E-02	-1.057
LGALS16	beta-galactoside-binding lectin	4.4E-02	-1.058
HIST1H2AL	histone cluster 1, H2al	1.7E-02	-1.060
ANKRD13D	ankyrin repeat domain 13 family, member D	3.8E-02	-1.061
PPARGC1A	peroxisome proliferator-activated receptor gamma, coactivator 1 alpha	4.5E-02	-1.063
CLIC6	chloride intracellular channel 6	2.2E-02	-1.065
PTMA PTMAP7	prothymosin, alpha prothymosin, alpha pseudogene 7	3.5E-02	-1.067
EYS	eyes shut homolog (Drosophila)	2.5E-02	-1.069
C21orf2	chromosome 21 open reading frame 2	4.7E-02	-1.071
UBAP2L	ubiquitin associated protein 2-like	2.5E-02	-1.071
CEACAM5	carcinoembryonic antigen-related cell adhesion molecule 5	2.7E-02	-1.071
SVOPL	SVOP-like	2.7E-02	-1.072
TBC1D16	TBC1 domain family, member 16	4.5E-02	-1.072
OR5R1	olfactory receptor, family 5, subfamily R, member 1	4.8E-02	-1.073
GLO1	glyoxalase I	4.6E-02	-1.074
NEXN C1orf118	nexilin (F actin binding protein) chromosome 1 open reading frame 118	4.4E-02	-1.074
CNTN1	contactin 1	2.4E-02	-1.076
OR2T8	olfactory receptor, family 2, subfamily T, member 8	2.6E-02	-1.076
TIGD3	tigger transposable element derived 3	3.5E-02	-1.078
TTC39A	tetratricopeptide repeat domain 39A	4.8E-02	-1.078
ATP6V1G3	ATPase, H ⁺ transporting, lysosomal 13kDa, V1 subunit G3	2.7E-02	-1.078
MTERFD3	MTERF domain containing 3	3.0E-02	-1.079

SERPIN3	serpin peptidase inhibitor, clade B (ovalbumin), member 3	4.5E-02	-1.084
LOC387646	leucine rich repeat containing 37, member A family pseudogene	2.8E-02	-1.085
EIF4A1	eukaryotic translation initiation factor 4A, isoform 1	3.5E-02	-1.086
MVD	mevalonate (diphospho) decarboxylase	3.5E-02	-1.088
SLC25A17	solute carrier family 25 (mitochondrial carrier; peroxisomal membrane protein, 34kDa), member 17	3.8E-02	-1.088
KRT2	keratin 2	4.1E-02	-1.095
EIF4B	eukaryotic translation initiation factor 4B	3.0E-02	-1.095
CIDEA	cell death-inducing DFFA-like effector a	4.1E-02	-1.096
PPP1R2P3	protein phosphatase 1, regulatory (inhibitor) subunit 2 pseudogene 3	3.7E-02	-1.097
PKP1	plakophilin 1 (ectodermal dysplasia/skin fragility syndrome)	4.6E-02	-1.097
C17orf59	chromosome 17 open reading frame 59	3.9E-02	-1.098
VAMP3	vesicle-associated membrane protein 3 (cellubrevin)	4.9E-02	-1.098
RBM33	RNA binding motif protein 33	3.5E-02	-1.099
PSORS1C3	psoriasis susceptibility 1 candidate 3 (non-protein coding)	4.3E-02	-1.101
RPL7	ribosomal protein L7	2.1E-02	-1.101
LOC644717	SAGE1-like protein-like	3.5E-02	-1.103
SIX3	SIX homeobox 3	4.4E-02	-1.103
ABCA8	ATP-binding cassette, sub-family A (ABC1), member 8	1.7E-02	-1.104
TFDP1	transcription factor Dp-1	3.2E-02	-1.104
ADAR	adenosine deaminase, RNA-specific	4.9E-02	-1.105
LRRC6	leucine rich repeat containing 6	2.8E-02	-1.105
ADAM23	ADAM metallopeptidase domain 23	4.4E-02	-1.106
ACSL6	acyl-CoA synthetase long-chain family member 6 similar to rCG33261	3.2E-02	-1.107
C15orf51 LOC441734 LOC100293999	dynamin 1 pseudogene similar to hypothetical protein DKFZp434I1020 similar to dynamin 1	3.5E-02	-1.108
RPL35A	ribosomal protein L35a	3.2E-02	-1.108
FKBP5 LOC285847	FK506 binding protein 5 hypothetical LOC285847	3.3E-02	-1.108
SIGMAR1	sigma non-opioid intracellular receptor 1	3.5E-02	-1.108
VAX1	ventral anterior homeobox 1	2.5E-02	-1.109
DHX9	DEAH (Asp-Glu-Ala-His) box polypeptide 9	3.9E-02	-1.111
LOC442245	glutathione S-transferase mu 2 pseudogene	5.0E-02	-1.111

FUZ	fuzzy homolog (Drosophila)	1.7E-02	-1.111
CDK5RAP3	CDK5 regulatory subunit associated protein 3	5.0E-02	-1.111
STT3A	STT3, subunit of the oligosaccharyltransferase complex, homolog A (S. cerevisiae)	2.8E-02	-1.112
VDAC2 LOC729317	voltage-dependent anion channel 2 similar to voltage-dependent anion channel 2	2.8E-02	-1.112
HRASLS2	HRAS-like suppressor 2	3.7E-02	-1.112
PPT1	palmitoyl-protein thioesterase 1	1.9E-02	-1.114
PRAC	prostate cancer susceptibility candidate	4.8E-02	-1.115
EIF4B LOC643873	eukaryotic translation initiation factor 4B similar to eukaryotic translation initiation factor 4H	4.4E-02	-1.117
LOC441666	zinc finger protein 91 pseudogene	2.7E-02	-1.118
FAM35A FAM35B2	family with sequence similarity 35, member A family with sequence similarity 35, member B2	4.9E-02	-1.119
DDX50	DEAD (Asp-Glu-Ala-Asp) box polypeptide 50	3.0E-02	-1.119
TAC4	tachykinin 4 (hemokinin)	3.0E-02	-1.120
C11orf65	chromosome 11 open reading frame 65	3.0E-02	-1.121
C1orf189	chromosome 1 open reading frame 189	4.7E-02	-1.122
RIPK2	receptor-interacting serine-threonine kinase 2	4.9E-02	-1.123
CFH	complement factor H	1.2E-02	-1.126
RNF144A	ring finger protein 144A	3.7E-02	-1.126
ANKRD11	ankyrin repeat domain 11	3.3E-02	-1.126
TRIM47	tripartite motif-containing 47	3.0E-02	-1.128
CANT1	calcium activated nucleotidase 1	4.4E-02	-1.129
LOC441666	zinc finger protein 91 pseudogene	3.4E-02	-1.129
TNFSF18	tumor necrosis factor (ligand) superfamily, member 18	1.7E-02	-1.129
TRA2A	transformer 2 alpha homolog (Drosophila)	3.5E-02	-1.129
CYTSA	cytospin A	4.3E-02	-1.131
TM6SF1	transmembrane 6 superfamily member 1	3.4E-02	-1.131
ASAH2 ASAH2B ASAH2C	N-acylsphingosine amidohydrolase (non-lysosomal ceramidase) 2 N-acylsphingosine amidohydrolase (non-lysosomal ceramidase) 2B N-acylsphingosine amidohydrolase (non-lysosomal ceramidase) 2C	3.0E-02	-1.131
UBAC2	UBA domain containing 2	3.0E-02	-1.132
NFE2L2	nuclear factor (erythroid-derived 2)-like 2	1.6E-02	-1.133
CCDC97	coiled-coil domain containing 97	2.7E-02	-1.133
KISS1	KiSS-1 metastasis-suppressor	1.1E-02	-1.135

DHX37	DEAH (Asp-Glu-Ala-His) box polypeptide 37	4.1E-02	-1.136
SIL1	SIL1 homolog, endoplasmic reticulum chaperone (<i>S. cerevisiae</i>)	4.9E-02	-1.138
RPA4	replication protein A4, 34kDa	2.0E-02	-1.138
UBE2G1	ubiquitin-conjugating enzyme E2G 1 (UBC7 homolog, yeast)	2.8E-02	-1.139
FAM35A FAM35B2	family with sequence similarity 35, member A family with sequence similarity 35, member B2	4.6E-02	-1.142
MED13L	mediator complex subunit 13-like	2.5E-02	-1.145
ADO	2-aminoethanethiol (cysteamine) dioxygenase	2.5E-02	-1.145
KL	klotho	3.1E-02	-1.146
TFB2M	transcription factor B2, mitochondrial	4.8E-02	-1.148
FNDC1	fibronectin type III domain containing 1	4.7E-02	-1.149
CDT1	chromatin licensing and DNA replication factor 1	4.9E-02	-1.150
ACOX3	acyl-Coenzyme A oxidase 3, pristanoyl	2.4E-02	-1.150
TRIM64 TRIM64B TRIM64C TRIM77	tripartite motif-containing 64 tripartite motif-containing 64B tripartite motif-containing 64C tripartite motif-containing 77	1.0E-02	-1.151
C18orf8 NPC1	chromosome 18 open reading frame 8 Niemann-Pick disease, type C1	4.7E-02	-1.152
ATAD3C ATAD3A ATAD3B	ATPase family, AAA domain containing 3C ATPase family, AAA domain containing 3A ATPase family, AAA domain containing 3B	4.6E-02	-1.153
MTDH	metadherin	4.7E-02	-1.154
RPS25	ribosomal protein S25	2.3E-02	-1.155
ATF1	activating transcription factor 1	2.4E-02	-1.156
CASP3	caspase 3, apoptosis-related cysteine peptidase	4.4E-02	-1.156
EDN2	endothelin 2	4.2E-02	-1.156
MRAP2	melanocortin 2 receptor accessory protein 2	1.8E-02	-1.156
BAZ2A	bromodomain adjacent to zinc finger domain, 2A	3.9E-02	-1.158
ZBTB5	zinc finger and BTB domain containing 5	3.6E-02	-1.158
YDJC	YdjC homolog (bacterial)	3.2E-02	-1.159
PRDM15	PR domain containing 15	1.5E-02	-1.159
TRIM64 TRIM64B TRIM64C TRIM77	tripartite motif-containing 64 tripartite motif-containing 64B tripartite motif-containing 64C tripartite motif-containing 77	1.0E-02	-1.159
ZNF232	zinc finger protein 232	3.6E-02	-1.160
ZBTB40	zinc finger and BTB domain containing 40	1.9E-02	-1.160
XPR1	xenotropic and polytropic retrovirus receptor	3.6E-02	-1.163

TRAF3IP1	TNF receptor-associated factor 3 interacting protein 1	3.2E-02	-1.164
EVC2	Ellis van Creveld syndrome 2	4.7E-02	-1.164
ZSCAN2	zinc finger and SCAN domain containing 2	3.6E-02	-1.164
C6orf72	chromosome 6 open reading frame 72	3.6E-02	-1.165
APOL3	apolipoprotein L, 3	2.9E-02	-1.165
TM9SF3	transmembrane 9 superfamily member 3	3.8E-02	-1.166
KGFLP2 KGFLP1 FLJ20444 LOC100126582	keratinocyte growth factor-like protein 2 keratinocyte growth factor-like protein 1 hypothetical protein FLJ20444 hypothetical LOC100126582	1.9E-02	-1.167
NARS	asparaginyl-tRNA synthetase	3.2E-02	-1.167
CCT4	chaperonin containing TCP1, subunit 4 (delta)	4.8E-02	-1.168
ACADSB	acyl-Coenzyme A dehydrogenase, short/branched chain	4.7E-02	-1.168
PIAS1	protein inhibitor of activated STAT, 1	2.3E-02	-1.168
SP2	Sp2 transcription factor	2.7E-02	-1.168
LOC401127	WD repeat domain 5 pseudogene	3.7E-02	-1.168
GPR156	G protein-coupled receptor 156	4.8E-02	-1.168
UBAP2	ubiquitin associated protein 2	3.7E-02	-1.173
C2orf15 MRPL30	chromosome 2 open reading frame 15 mitochondrial ribosomal protein L30	3.2E-02	-1.174
CLSTN2	calsyntenin 2	4.1E-02	-1.175
ATG12	autophagy related 12	2.1E-02	-1.175
WWC2	WW and C2 domain containing 2	3.0E-02	-1.175
ICAM2	intercellular adhesion molecule 2	4.5E-02	-1.176
ZNF606 LOC100128398	zinc finger protein 606 hypothetical protein LOC100128398	3.1E-02	-1.176
DCAF13 SLC25A32	DDB1 and CUL4 associated factor 13 solute carrier family 25, member 32	3.0E-02	-1.177
NUSAP1	nucleolar and spindle associated protein 1	2.8E-02	-1.177
PON3	paraoxonase 3	3.5E-02	-1.178
ATP1B3	ATPase, Na ⁺ /K ⁺ transporting, beta 3 polypeptide	3.6E-02	-1.179
ACBD4	acyl-Coenzyme A binding domain containing 4	3.4E-02	-1.179
ZIC2	Zic family member 2 (odd-paired homolog, Drosophila)	4.0E-02	-1.180
CCDC117	coiled-coil domain containing 117	3.6E-02	-1.181
MED12	mediator complex subunit 12	3.2E-02	-1.183
GCSH	glycine cleavage system protein H (aminomethyl carrier)	4.4E-02	-1.183

FAM21C FAM21A FAM21D	family with sequence similarity 21, member C family with sequence similarity 21, member A family with sequence similarity 21, member D	4.0E-02	-1.183
C11orf49	chromosome 11 open reading frame 49	3.2E-02	-1.184
GBP4	guanylate binding protein 4	1.0E-02	-1.185
EIF1	eukaryotic translation initiation factor 1	1.2E-02	-1.185
FOLR1	folate receptor 1 (adult)	4.6E-02	-1.185
TBX2	T-box 2	1.8E-02	-1.185
TRAPPC3 KIAA0100	trafficking protein particle complex 3 KIAA0100	4.6E-02	-1.185
ABCF3	ATP-binding cassette, sub-family F (GCN20), member 3	2.2E-02	-1.187
MBD2	methyl-CpG binding domain protein 2	2.7E-02	-1.187
GOLGA1	golgi autoantigen, golgin subfamily a, 1	4.4E-02	-1.187
NME5	non-metastatic cells 5, protein expressed in (nucleoside-diphosphate kinase)	2.3E-02	-1.188
CBL	Cas-Br-M (murine) ecotropic retroviral transforming sequence	3.4E-02	-1.188
ARHGAP27	Rho GTPase activating protein 27	3.1E-02	-1.188
COX4I1	cytochrome c oxidase subunit IV isoform 1	3.0E-02	-1.189
NOD2	nucleotide-binding oligomerization domain containing 2	3.7E-02	-1.189
FXR1	fragile X mental retardation, autosomal homolog 1	2.8E-02	-1.189
C12orf11	chromosome 12 open reading frame 11	4.4E-02	-1.190
SON	SON DNA-binding protein	3.3E-02	-1.190
SPIN1	spindlin 1	2.7E-02	-1.190
WDR77	WD repeat domain 77	4.6E-02	-1.191
PTGS1	prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase)	2.0E-02	-1.191
ZNF706	zinc finger protein 706	3.1E-02	-1.192
RPL17	ribosomal protein L17	2.1E-02	-1.193
GDPD1	glycerophosphodiester phosphodiesterase domain containing 1	3.3E-02	-1.193
PIK3CB	phosphoinositide-3-kinase, catalytic, beta polypeptide	4.0E-02	-1.193
GUCY1B3	guanylate cyclase 1, soluble, beta 3	2.2E-02	-1.193
DPH2	DPH2 homolog (S. cerevisiae)	3.7E-02	-1.195
SAMD5	sterile alpha motif domain containing 5	3.1E-02	-1.196
WFDC1	WAP four-disulfide core domain 1	4.7E-02	-1.196
GRB7	growth factor receptor-bound protein 7	3.0E-02	-1.198

C16orf46	chromosome 16 open reading frame 46	3.1E-02	-1.198
RPS6KA3	ribosomal protein S6 kinase, 90kDa, polypeptide 3	3.5E-02	-1.199
TAX1BP3	Tax1 (human T-cell leukemia virus type I) binding protein 3	3.1E-02	-1.199
PTDSS1	phosphatidylserine synthase 1	4.3E-02	-1.200
ARHGAP19	Rho GTPase activating protein 19	3.5E-02	-1.200
SPAG16	sperm associated antigen 16	4.1E-02	-1.200
PATL1	protein associated with topoisomerase II homolog 1 (yeast)	5.0E-02	-1.200
TRAPPC10	trafficking protein particle complex 10	3.6E-02	-1.202
MSL2	male-specific lethal 2 homolog (Drosophila)	4.3E-02	-1.202
L3MBTL2	l(3)mbt-like 2 (Drosophila)	3.8E-02	-1.203
WDR3	WD repeat domain 3	3.6E-02	-1.203
MRPL13	mitochondrial ribosomal protein L13	2.4E-02	-1.204
RPL12 RPL12P38	ribosomal protein L12 ribosomal protein L12 pseudogene 38	3.9E-02	-1.205
CUGBP1	CUG triplet repeat, RNA binding protein 1	3.4E-02	-1.205
C21orf33 PWP2	chromosome 21 open reading frame 33 PWP2 periodic tryptophan protein homolog (yeast)	4.7E-02	-1.206
BNC1	basonuclin 1	2.6E-02	-1.206
NSUN4	NOL1/NOP2/Sun domain family, member 4	4.5E-02	-1.207
H2AFX	H2A histone family, member X	4.5E-02	-1.207
GOLGA9P LOC653073 LOC728498	golgi autoantigen, golgin subfamily a, 9 pseudogene Golgin subfamily A member 8-like protein 3 Golgin subfamily A member 8-like protein 1	4.3E-02	-1.207
FAM21A FAM21B FAM21C FAM21D	family with sequence similarity 21, member A family with sequence similarity 21, member B family with sequence similarity 21, member C family with sequence similarity 21, member D	5.0E-02	-1.208
TMEM70	transmembrane protein 70	4.3E-02	-1.208
DNAJB12	DnaJ (Hsp40) homolog, subfamily B, member 12	4.1E-02	-1.208
GMPS	guanine monphosphate synthetase	2.1E-02	-1.209
PCSK7	proprotein convertase subtilisin/kexin type 7	4.9E-02	-1.209
C9orf5	chromosome 9 open reading frame 5	4.0E-02	-1.209
HSDL1	hydroxysteroid dehydrogenase like 1	2.8E-02	-1.210
DPM2	dolichyl-phosphate mannosyltransferase polypeptide 2, regulatory subunit	4.8E-02	-1.210
COX4NB	COX4 neighbor	1.1E-02	-1.210
ZNF169	zinc finger protein 169	4.6E-02	-1.211
SSB	Sjogren syndrome antigen B (autoantigen La)	3.8E-02	-1.212

SAA1	serum amyloid A1	4.7E-02	-1.212
ZFYVE27	zinc finger, FYVE domain containing 27	4.0E-02	-1.212
NUP50	nucleoporin 50kDa	1.4E-02	-1.214
RNF125	ring finger protein 125	2.7E-02	-1.215
ZC3H15	zinc finger CCCH-type containing 15	5.0E-02	-1.215
FAM21B FAM21A FAM21C FAM21D	family with sequence similarity 21, member B family with sequence similarity 21, member A family with sequence similarity 21, member C family with sequence similarity 21, member D	4.7E-02	-1.215
SIRT1	sirtuin (silent mating type information regulation 2 homolog) 1 (<i>S. cerevisiae</i>)	3.7E-02	-1.216
TTC30A	tetratricopeptide repeat domain 30A	4.8E-02	-1.216
KLHL36	kelch-like 36 (<i>Drosophila</i>)	4.0E-02	-1.216
OXCT2	3-oxoacid CoA transferase 2	3.8E-02	-1.217
KRT10	keratin 10	3.7E-02	-1.217
ANAPC1	anaphase promoting complex subunit 1	4.3E-02	-1.219
TRMU	tRNA 5-methylaminomethyl-2-thiouridylate methyltransferase	4.1E-02	-1.220
SNORD49A	small nucleolar RNA, C/D box 49A	3.3E-02	-1.220
C5orf33	chromosome 5 open reading frame 33	2.0E-02	-1.221
NUDT2	nudix (nucleoside diphosphate linked moiety X)-type motif 2	6.0E-03	-1.221
HSD17B10	hydroxysteroid (17-beta) dehydrogenase 10	4.0E-02	-1.221
MED8	mediator complex subunit 8	4.1E-02	-1.222
CRYBB2	crystallin, beta B2	3.3E-02	-1.222
OXCT2	3-oxoacid CoA transferase 2	3.9E-02	-1.222
GOLGA9P LOC100289637 LOC653073 LOC728498 LOC643699 LOC728047 LOC390561	golgi autoantigen, golgin subfamily a, 9 pseudogene hypothetical protein LOC100289637 Golgin subfamily A member 8-like protein 3 Golgin subfamily A member 8-like protein 1 similar to golgi autoantigen, golgin subfamily a, 8E similar to Golgin subfamily A member 8-like protein 2 similar to hect domain and RLD 2	1.7E-02	-1.223
GJA3	gap junction protein, alpha 3, 46kDa	4.7E-02	-1.223
FAM73B	family with sequence similarity 73, member B	3.0E-02	-1.223
RPL12	ribosomal protein L12	2.6E-02	-1.224
HDLBP	high density lipoprotein binding protein	4.7E-02	-1.225
SET	SET nuclear oncogene	4.7E-02	-1.225
ZNF573	zinc finger protein 573	3.3E-02	-1.225
LRCH3	leucine-rich repeats and calponin homology (CH) domain containing 3	3.4E-02	-1.226
CTDP1	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) phosphatase, subunit 1	3.9E-02	-1.226

DKFZP779L1853	hypothetical LOC643162	4.4E-02	-1.228
GRAP LOC400581	GRB2-related adaptor protein GRB2-related adaptor protein-like	1.6E-02	-1.228
FDXACB1 ALG9	ferredoxin-fold anticodon binding domain containing 1 asparagine-linked glycosylation 9, alpha-1,2-mannosyltransferase homolog (S. cerevisiae)	4.6E-02	-1.229
RNF7	ring finger protein 7	2.0E-02	-1.229
POU5F1 POU5F1B POU5F1P3 POU5F1P4	POU class 5 homeobox 1 POU class 5 homeobox 1B POU class 5 homeobox 1 pseudogene 3 POU class 5 homeobox 1 pseudogene 4	4.8E-02	-1.229
TAF5L	TAF5-like RNA polymerase II, p300/CBP-associated factor (PCAF)-associated factor, 65kDa	3.3E-02	-1.230
ZNF207	zinc finger protein 207	3.9E-02	-1.230
TUBBP5 TUBB4Q	tubulin, beta pseudogene 5 tubulin, beta polypeptide 4, member Q	3.7E-02	-1.230
SORCS2	sortilin-related VPS10 domain containing receptor 2	3.4E-02	-1.232
PAFAH1B1	platelet-activating factor acetylhydrolase, isoform Ib, subunit 1 (45kDa)	4.5E-02	-1.232
NUDT9P1	nudix (nucleoside diphosphate linked moiety X)-type motif 9 pseudogene 1	2.7E-02	-1.233
CTTNBP2NL	CTTNBP2 N-terminal like	4.6E-02	-1.233
CCDC104	coiled-coil domain containing 104	4.0E-02	-1.233
C1orf59	chromosome 1 open reading frame 59	3.9E-02	-1.234
ELF3	E74-like factor 3 (ets domain transcription factor, epithelial-specific)	4.1E-02	-1.234
GBA2	glucosidase, beta (bile acid) 2	3.9E-02	-1.234
C16orf55	chromosome 16 open reading frame 55	2.1E-02	-1.234
URB2	URB2 ribosome biogenesis 2 homolog (S. cerevisiae)	4.4E-02	-1.235
SETD4	SET domain containing 4	4.1E-02	-1.235
CENPN	centromere protein N	4.8E-02	-1.235
C2orf3	chromosome 2 open reading frame 3	4.4E-02	-1.236
EPHX2	epoxide hydrolase 2, cytoplasmic	1.4E-02	-1.238
FABP3	fatty acid binding protein 3, muscle and heart (mammary-derived growth inhibitor)	1.4E-02	-1.238
LOC554249 MGC21881	hypothetical LOC554249 hypothetical locus MGC21881	2.5E-02	-1.238
ZNF559	zinc finger protein 559	4.6E-02	-1.239
P2RY2	purinergic receptor P2Y, G-protein coupled, 2	2.6E-02	-1.239
C1orf58	chromosome 1 open reading frame 58	3.9E-02	-1.240
C17orf58 LRRC37A4	chromosome 17 open reading frame 58 leucine rich repeat containing 37, member A4 (pseudogene)	3.6E-02	-1.242
GOLGA9P LOC100289637 LOC728498 LOC653073 LOC643699	golgi autoantigen, golgin subfamily a, 9 pseudogene hypothetical protein LOC100289637 Golgin subfamily A member 8-like protein 1 Golgin subfamily A member 8-like protein 3 similar to golgi autoantigen, golgin subfamily a, 8E	1.5E-02	-1.243

UTP20	UTP20, small subunit (SSU) processome component, homolog (yeast)	3.4E-02	-1.243
VAMP5	vesicle-associated membrane protein 5 (myobrevin)	4.7E-02	-1.243
ARPM1	actin related protein M1	2.9E-02	-1.244
RFK	riboflavin kinase	3.9E-02	-1.244
ADAP2	ArfGAP with dual PH domains 2	3.4E-02	-1.244
UBQLN1	ubiquilin 1	3.2E-02	-1.244
GINS2	GINS complex subunit 2 (Psf2 homolog)	3.5E-02	-1.245
SNAPC3	small nuclear RNA activating complex, polypeptide 3, 50kDa	4.1E-02	-1.245
HIATL2 HIATL1	hippocampus abundant transcript-like 2 hippocampus abundant transcript-like 1	7.8E-03	-1.245
FAM38A	family with sequence similarity 38, member A	1.7E-02	-1.245
TRPC3	transient receptor potential cation channel, subfamily C, member 3	1.8E-02	-1.246
MDN1	midasin homolog (yeast)	4.9E-02	-1.246
FNBP4	formin binding protein 4	4.0E-02	-1.247
SPTBN2	spectrin, beta, non-erythrocytic 2	3.1E-02	-1.248
KIAA0226	RUN domain and cysteine-rich domain containing, Beclin 1-interacting protein	3.5E-02	-1.248
GPR107	G protein-coupled receptor 107	3.9E-02	-1.248
TUBG2	tubulin, gamma 2	2.5E-02	-1.248
INTS4L2 INTS4L1	integrator complex subunit 4-like 2 integrator complex subunit 4-like 1 integrator complex subunit 4	2.1E-02	-1.251
TBKBP1	TBK1 binding protein 1	3.5E-02	-1.251
MRPL48	mitochondrial ribosomal protein L48	1.8E-02	-1.251
C9orf4	chromosome 9 open reading frame 4	2.2E-02	-1.253
SLC25A21	solute carrier family 25 (mitochondrial oxodicarboxylate carrier), member 21	5.0E-02	-1.254
USP10	ubiquitin specific peptidase 10	1.9E-02	-1.255
PPP6C	protein phosphatase 6, catalytic subunit	3.5E-02	-1.255
PLCH1	phospholipase C, eta 1	4.2E-02	-1.256
ZWILCH	Zwilch, kinetochore associated, homolog (Drosophila)	3.7E-02	-1.257
LRRFIP1	leucine rich repeat (in FLII) interacting protein 1	4.8E-02	-1.257
EDF1	endothelial differentiation-related factor 1	2.7E-02	-1.258
MLL	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila)	4.5E-02	-1.258
WAPAL	wings apart-like homolog (Drosophila)	4.9E-02	-1.258
MBTPS1	membrane-bound transcription factor peptidase, site 1	2.0E-02	-1.260

ZFR	zinc finger RNA binding protein	4.5E-02	-1.260
HOXA1	homeobox A1	3.0E-02	-1.261
INTS4L1 INTS4L2	integrator complex subunit 4-like 1 integrator complex subunit 4-like 2 integrator complex subunit 4	2.0E-02	-1.261
SPOP	speckle-type POZ protein	3.6E-02	-1.262
LRCH2	leucine-rich repeats and calponin homology (CH) domain containing 2	3.6E-02	-1.263
NOP58	NOP58 ribonucleoprotein homolog (yeast)	4.2E-02	-1.263
TMEM218	transmembrane protein 218	4.2E-02	-1.264
KBTBD3	kelch repeat and BTB (POZ) domain containing 3	3.9E-02	-1.264
TOP3B PI4KA	topoisomerase (DNA) III beta phosphatidylinositol 4-kinase, catalytic, alpha	1.1E-02	-1.264
SKA2	spindle and kinetochore associated complex subunit 2	4.1E-02	-1.265
NDUFV3	NADH dehydrogenase (ubiquinone) flavoprotein 3, 10kDa	3.9E-02	-1.265
SLFN12L	schlafen family member 12-like	2.8E-02	-1.265
GATAD2A	GATA zinc finger domain containing 2A	4.6E-02	-1.265
MMAB	methylmalonic aciduria (cobalamin deficiency) cblB type	2.2E-02	-1.265
CEP76	centrosomal protein 76kDa	2.1E-02	-1.267
ZC3H18	zinc finger CCCH-type containing 18	3.4E-02	-1.267
INTS4	integrator complex subunit 4	3.2E-02	-1.269
SUPV3L1	suppressor of var1, 3-like 1 (S. cerevisiae)	4.8E-02	-1.269
NUP62CL	nucleoporin 62kDa C-terminal like	2.0E-02	-1.270
ZZEF1	zinc finger, ZZ-type with EF-hand domain 1	2.9E-02	-1.271
NDUFB5	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 5, 16kDa	4.4E-02	-1.273
QTRT1	queuine tRNA-ribosyltransferase 1	4.5E-02	-1.274
C10orf116 AGAP11	chromosome 10 open reading frame 116 ankyrin repeat and GTPase domain Arf GTPase activating protein 11	2.9E-02	-1.274
RPL17 SNORD58B	ribosomal protein L17 small nucleolar RNA, C/D box 58B	1.8E-02	-1.275
PIGL	phosphatidylinositol glycan anchor biosynthesis, class L	4.0E-02	-1.276
RC3H2	ring finger and CCCH-type zinc finger domains 2	4.3E-02	-1.276
PITPNA	phosphatidylinositol transfer protein, alpha	4.8E-02	-1.277
RP6-213H19.1	serine/threonine protein kinase MST4	4.8E-02	-1.277
POFUT2	protein O-fucosyltransferase 2	3.5E-02	-1.277
C9orf37	chromosome 9 open reading frame 37	4.3E-02	-1.279
C2orf63	chromosome 2 open reading frame 63	4.4E-02	-1.280

LSG1	large subunit GTPase 1 homolog (<i>S. cerevisiae</i>)	3.5E-02	-1.280
UBE4A	ubiquitination factor E4A (UFD2 homolog, yeast)	3.6E-02	-1.280
ZNF202	zinc finger protein 202	3.0E-02	-1.281
DENND1A	DENN/MADD domain containing 1A	4.3E-02	-1.281
ITSN2	intersectin 2	4.0E-02	-1.281
LOC387787	lipoyl(octanoyl) transferase	4.9E-02	-1.281
C1orf114	chromosome 1 open reading frame 114	3.2E-02	-1.282
ACSF3	acyl-CoA synthetase family member 3	2.5E-02	-1.282
FOXO4	forkhead box O4	1.2E-02	-1.282
HOXA11	homeobox A11	1.5E-02	-1.282
HERC2P4 LOC440248 HERC2P3	hect domain and RLD 2 pseudogene 4 hect domain and RLD 2 pseudogene 3	3.6E-02	-1.283
MAGEF1	melanoma antigen family F, 1	4.8E-02	-1.283
MPP3	membrane protein, palmitoylated 3 (MAGUK p55 subfamily member 3)	5.0E-02	-1.283
C3orf42	chromosome 3 open reading frame 42	1.8E-02	-1.285
CHAC2	ChaC, cation transport regulator homolog 2 (<i>E. coli</i>)	7.8E-03	-1.285
BUD13	BUD13 homolog (<i>S. cerevisiae</i>)	4.3E-02	-1.286
ZWINT	ZW10 interactor	4.1E-02	-1.287
ANKRD20A1 ANKRD20A3 ANKRD20A2 ANKRD20B ANKRD20A5 ANKRD20A4 LOC375010	ankyrin repeat domain 20 family, member A1 ankyrin repeat domain 20 family, member A3 ankyrin repeat domain 20 family, member A2 ankyrin repeat domain 20B ankyrin repeat domain 20 family, member A5 ankyrin repeat domain 20 family, member A4 ankyrin repeat domain 20 family, member A pseudogene	4.4E-02	-1.287
PRDM10	PR domain containing 10	1.6E-02	-1.288
GOLGA9P FAM7A3 FAM7A1 LOC653073 LOC728498	golgi autoantigen, golgin subfamily a, 9 pseudogene family with sequence similarity 7, member A3 family with sequence similarity 7, member A1 Golgin subfamily A member 8-like protein 3 Golgin subfamily A member 8-like protein 1	2.6E-02	-1.288
CCNJ	cyclin J	1.5E-02	-1.288
NCOR1	nuclear receptor co-repressor 1	5.0E-02	-1.289
FAM76B	family with sequence similarity 76, member B	4.4E-02	-1.289
SARS2 MRPS12	seryl-tRNA synthetase 2, mitochondrial mitochondrial ribosomal protein S12	4.9E-02	-1.290
DDRGK1	DDRGK domain containing 1	4.1E-02	-1.290
HDDC3	HD domain containing 3	2.1E-02	-1.290
PARP9	poly (ADP-ribose) polymerase family, member 9	2.5E-02	-1.290

MORC2	MORC family CW-type zinc finger 2	3.1E-02	-1.291
SLC25A32 DCAF13	solute carrier family 25, member 32 DDB1 and CUL4 associated factor 13	2.0E-02	-1.291
C14orf174	chromosome 14 open reading frame 174	2.0E-02	-1.291
TAF9B	TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor 31kDa	4.2E-02	-1.293
C4orf23	chromosome 4 open reading frame 23	3.9E-02	-1.293
HINFP	histone H4 transcription factor	1.9E-02	-1.294
RSRC1	arginine/serine-rich coiled-coil 1	4.4E-02	-1.295
TMEM5	transmembrane protein 5	3.8E-02	-1.295
FAM60A	family with sequence similarity 60, member A	3.4E-02	-1.295
ZBTB6	zinc finger and BTB domain containing 6	3.8E-02	-1.295
LY6G5B CSNK2B	lymphocyte antigen 6 complex, locus G5B casein kinase 2, beta polypeptide	4.4E-02	-1.296
NCRNA00094	non-protein coding RNA 94	4.5E-02	-1.296
FBXO31	F-box protein 31	1.8E-02	-1.296
ZNF433	zinc finger protein 433	2.0E-02	-1.297
ZNF367	zinc finger protein 367	3.4E-02	-1.297
PLDN	pallidin homolog (mouse)	4.6E-02	-1.298
ULBP3	UL16 binding protein 3	4.3E-02	-1.299
MIF4GD	MIF4G domain containing	3.6E-02	-1.300
PCNT	pericentrin	3.6E-02	-1.300
CLN6	ceroid-lipofuscinosis, neuronal 6, late infantile, variant	3.7E-02	-1.303
PCDHB10	protocadherin beta 10	3.3E-02	-1.304
KIF24	kinesin family member 24	3.4E-02	-1.304
WIPF2	WAS/WASL interacting protein family, member 2	4.5E-02	-1.305
OSBPL10	oxysterol binding protein-like 10	1.3E-02	-1.306
LSS	lanosterol synthase (2,3-oxidosqualene-lanosterol cyclase)	4.2E-02	-1.306
KIAA1529	chromosome 9 open reading frame 174	3.5E-02	-1.307
ABCC5	ATP-binding cassette, sub-family C (CFTR/MRP), member 5	4.3E-02	-1.308
PAIP1	poly(A) binding protein interacting protein 1	2.4E-02	-1.308
CECR2	cat eye syndrome chromosome region, candidate 2	5.0E-02	-1.308
HHEX	hematopoietically expressed homeobox	3.9E-02	-1.308
COPB2	coatmer protein complex, subunit beta 2 (beta prime)	1.1E-02	-1.308

NSMAF	neutral sphingomyelinase (N-SMase) activation associated factor	4.9E-02	-1.308
RAB14	ras-related protein Rab-14	1.8E-02	-1.309
DGKE	diacylglycerol kinase, epsilon 64kDa	3.4E-02	-1.309
EPDR1	ependymin related protein 1 (zebrafish)	3.5E-02	-1.310
SLC16A1	solute carrier family 16, member 1 (monocarboxylic acid transporter 1)	4.3E-02	-1.310
DLAT	dihydrolipoamide S-acetyltransferase	4.3E-02	-1.310
EIF2B5	eukaryotic translation initiation factor 2B, subunit 5 epsilon, 82kDa	5.0E-02	-1.310
HERC2P4 HERC2P2 LOC440248 HERC2P3	hect domain and RLD 2 pseudogene 4 hect domain and RLD 2 pseudogene 2 hect domain and RLD 2 pseudogene 3	3.4E-02	-1.312
DMD	dystrophin	2.8E-03	-1.313
AGPAT3	1-acylglycerol-3-phosphate O-acyltransferase 3	1.9E-02	-1.313
SDHD	succinate dehydrogenase complex, subunit D, integral membrane protein	3.9E-02	-1.313
AZIN1	antizyme inhibitor 1	5.0E-02	-1.314
CLYBL	citrate lyase beta like	4.4E-02	-1.314
C8orf59	chromosome 8 open reading frame 59	2.5E-02	-1.315
GOLGA9P FAM7A3 FAM7A1 LOC100289637 LOC653073 LOC728498 LOC643699	golgi autoantigen, golgin subfamily a, 9 pseudogene family with sequence similarity 7, member A3 family with sequence similarity 7, member A1 hypothetical protein LOC100289637 Golgin subfamily A member 8-like protein 3 Golgin subfamily A member 8-like protein 1 similar to golgi autoantigen, golgin subfamily a, 8E	2.3E-02	-1.316
HERC2P2 HERC2P3 LOC440248	hect domain and RLD 2 pseudogene 2 hect domain and RLD 2 pseudogene 3	4.7E-02	-1.316
HDGFRP3	hepatoma-derived growth factor, related protein 3	3.9E-02	-1.316
PIK3AP1	phosphoinositide-3-kinase adaptor protein 1	3.6E-02	-1.317
ETS1	v-ets erythroblastosis virus E26 oncogene homolog 1 (avian)	2.6E-02	-1.317
BXDC2 RAD1	brix domain containing 2 RAD1 homolog (S. pombe)	1.8E-02	-1.318
PAPOLG	poly(A) polymerase gamma	4.5E-02	-1.318
DBR1	debranching enzyme homolog 1 (S. cerevisiae)	2.4E-02	-1.319
HSBP1	heat shock factor binding protein 1	2.3E-02	-1.320
BEX4	brain expressed, X-linked 4	4.8E-02	-1.320
AFG3L2	AFG3 ATPase family gene 3-like 2 (yeast)	4.6E-02	-1.320
RRS1	ribosome biogenesis regulator homolog (S. cerevisiae)	3.7E-02	-1.320
IPPK CENPP	inositol 1,3,4,5,6-pentakisphosphate 2-kinase centromere protein P	4.1E-02	-1.321
IDH3A ACSBG1	isocitrate dehydrogenase 3 (NAD+) alpha acyl-CoA synthetase bubblegum family member 1	4.4E-02	-1.323

ASB7	ankyrin repeat and SOCS box-containing 7	2.1E-02	-1.323
ANP32B	acidic (leucine-rich) nuclear phosphoprotein 32 family, member B	3.8E-02	-1.323
ZNF763	zinc finger protein 763	4.3E-02	-1.323
ELP2	elongation protein 2 homolog (S. cerevisiae)	3.1E-02	-1.324
OR2W3	olfactory receptor, family 2, subfamily W, member 3	3.3E-02	-1.324
OR2W3	olfactory receptor, family 2, subfamily W, member 3	3.3E-02	-1.325
TBRG1	transforming growth factor beta regulator 1	4.3E-02	-1.326
C21orf119	chromosome 21 open reading frame 119	3.9E-02	-1.327
DCDC2 KAAG1	doublecortin domain containing 2 kidney associated antigen 1	1.1E-02	-1.327
FAM118B	family with sequence similarity 118, member B	2.1E-02	-1.327
C9orf119	chromosome 9 open reading frame 119	3.4E-02	-1.328
SLC25A26	solute carrier family 25, member 26	4.5E-02	-1.329
NOC3L	nucleolar complex associated 3 homolog (S. cerevisiae)	2.2E-02	-1.329
FAM100B	family with sequence similarity 100, member B	4.2E-02	-1.330
TMEM11 ENO1	transmembrane protein 11 enolase 1, (alpha)	3.5E-02	-1.330
CDK10	cyclin-dependent kinase 10	1.5E-02	-1.331
RGS7BP	regulator of G-protein signaling 7 binding protein	1.1E-02	-1.332
SS18	synovial sarcoma translocation, chromosome 18	4.4E-02	-1.332
PPP1R2	protein phosphatase 1, regulatory (inhibitor) subunit 2	1.9E-02	-1.333
SLC28A3	solute carrier family 28 (sodium-coupled nucleoside transporter), member 3	1.6E-02	-1.333
SNORD44	small nucleolar RNA, C/D box 44	2.2E-02	-1.333
ZNF440	zinc finger protein 440	4.3E-02	-1.334
ANKRD20B CCDC29 RP11-195B21.3 LOC100289454 LOC100289026	ankyrin repeat domain 20B coiled-coil domain containing 29 hypothetical LOC644249 similar to coiled-coil domain containing 29 similar to hCG1744891	1.1E-02	-1.335
COL6A2	collagen, type VI, alpha 2	3.3E-02	-1.336
TTC38	tetratricopeptide repeat domain 38	3.5E-02	-1.336
FOXRED1	FAD-dependent oxidoreductase domain containing 1	1.1E-02	-1.336
GNG10 DNAJC25-GNG10	guanine nucleotide binding protein (G protein), gamma 10 DNAJC25-GNG10 readthrough transcript	4.3E-02	-1.338
DRG2	developmentally regulated GTP binding protein 2	4.5E-02	-1.338
ANKRD20B ANKRD20A3 ANKRD20A2 ANKRD20A1 ANK	ankyrin repeat domain 20B ankyrin repeat domain 20 family, member A3 ankyrin repeat domain 20 family, member A2 ankyrin repeat domain 20 family, member A1 ankyrin repeat domain 20 family, member A4	2.7E-02	-1.338

RD20A4			
TTF1	transcription termination factor, RNA polymerase I	3.4E-02	-1.339
SPG7	spastic paraplegia 7 (pure and complicated autosomal recessive)	1.9E-02	-1.340
REEP3	receptor accessory protein 3	3.8E-02	-1.340
OAS3	2'-5'-oligoadenylate synthetase 3, 100kDa	1.9E-02	-1.340
BAGE2 LOC441666	B melanoma antigen family, member 2 zinc finger protein 91 pseudogene	3.6E-02	-1.340
RAB3D	ras-related protein Rab-3d	4.4E-02	-1.341
SORL1	sortilin-related receptor, L(DLR class) A repeats-containing	1.7E-02	-1.341
SGK196	protein kinase-like protein SgK196	2.5E-02	-1.342
DDX20	DEAD (Asp-Glu-Ala-Asp) box polypeptide 20	8.1E-03	-1.344
C2CD2L DPAGT1	C2CD2-like dolichyl-phosphate (UDP-N-acetylglucosamine) N-acetylglucosaminophosphotransferase 1 (GlcNAc-1-P transferase)	2.8E-02	-1.344
WIT1	Wilms tumor upstream neighbor 1	2.4E-02	-1.344
ZNF708 ZNF93	zinc finger protein 708 zinc finger protein 93	4.1E-02	-1.345
C9orf156	chromosome 9 open reading frame 156	3.9E-02	-1.345
UHRF1BP1	UHRF1 binding protein 1	5.0E-02	-1.345
TWSG1	twisted gastrulation homolog 1 (Drosophila)	2.0E-02	-1.347
ACAP2	ArfGAP with coiled-coil, ankyrin repeat and PH domains 2	4.4E-02	-1.349
LYRM4	LYR motif containing 4	3.4E-02	-1.350
RABGAP1	RAB GTPase activating protein 1	4.5E-02	-1.350
HIATL1	hippocampus abundant transcript-like 1	3.3E-02	-1.352
ZNF625 ZNF20	zinc finger protein 625 zinc finger protein 20	4.5E-02	-1.352
CDC14B	CDC14 cell division cycle 14 homolog B (S. cerevisiae)	4.4E-02	-1.352
HERC2P2 LOC440248 HERC2P3	hect domain and RLD 2 pseudogene 2 hect domain and RLD 2 pseudogene 3	3.5E-02	-1.353
ANKRD20B RP11-195B21.3 CCDC29	ankyrin repeat domain 20B hypothetical LOC644249 coiled-coil domain containing 29	4.1E-02	-1.353
ISCA1 ISCA1L	iron-sulfur cluster assembly 1 homolog (S. cerevisiae) iron-sulfur cluster assembly 1 homolog (S. cerevisiae)-like	3.0E-02	-1.354
C18orf19	chromosome 18 open reading frame 19	3.9E-02	-1.354
RPL39L	ribosomal protein L39-like	4.6E-02	-1.354
CAMK4	calcium/calmodulin-dependent protein kinase IV	4.5E-02	-1.355
RELN	reelin	8.0E-03	-1.356

RSL1D1	ribosomal L1 domain containing 1	4.9E-02	-1.357
C10orf4	chromosome 10 open reading frame 4	4.8E-02	-1.357
FUBP3	far upstream element (FUSE) binding protein 3	4.3E-02	-1.357
NCRNA00095	non-protein coding RNA 95	4.5E-02	-1.358
ZNF778	zinc finger protein 778	1.7E-02	-1.358
DOLPP1	dolichyl pyrophosphate phosphatase 1	3.9E-02	-1.358
UBE2G2 SUMO3	ubiquitin-conjugating enzyme E2G 2 (UBC7 homolog, yeast) SMT3 suppressor of mif two 3 homolog 3 (S. cerevisiae)	3.6E-02	-1.358
FKBP15	FK506 binding protein 15, 133kDa	1.7E-02	-1.358
PQLC1	PQ loop repeat containing 1	3.9E-02	-1.358
SPTLC1	serine palmitoyltransferase, long chain base subunit 1	3.7E-02	-1.359
PELP1	proline, glutamate and leucine rich protein 1	3.8E-02	-1.359
CCDC28A	coiled-coil domain containing 28A	2.3E-02	-1.360
WDR70	WD repeat domain 70	5.0E-02	-1.362
USP28	ubiquitin specific peptidase 28	2.6E-02	-1.363
SEC16A	SEC16 homolog A (S. cerevisiae)	4.6E-02	-1.363
ATPAF2	ATP synthase mitochondrial F1 complex assembly factor 2	3.6E-02	-1.363
ATP5SL	ATP5S-like	2.7E-02	-1.364
INVS	inversin	2.9E-02	-1.364
RAB5C	ras-related protein Rab-5C	2.7E-02	-1.364
ATMIN	ATM interactor	2.4E-02	-1.365
WDR31	WD repeat domain 31	2.5E-02	-1.365
C17orf68	chromosome 17 open reading frame 68	3.6E-02	-1.365
PDCL	phosducin-like	4.2E-02	-1.366
AAGAB	alpha- and gamma-adaptin binding protein	3.5E-02	-1.367
SNORD77	small nucleolar RNA, C/D box 77	3.5E-02	-1.367
SLC16A13	solute carrier family 16, member 13 (monocarboxylic acid transporter 13)	2.5E-02	-1.367
RABEPK	Rab9 effector protein with kelch motifs	4.9E-02	-1.367
SNORD6	small nucleolar RNA, C/D box 6	4.7E-02	-1.367
C2orf64	chromosome 2 open reading frame 64	4.1E-02	-1.369
ADAM21 ADAM21P	ADAM metallopeptidase domain 21 ADAM metallopeptidase domain 21 pseudogene	2.5E-02	-1.369

WNT3	wingless-type MMTV integration site family, member 3	2.5E-02	-1.369
ARHGAP11B	Rho GTPase activating protein 11B	1.5E-02	-1.370
KIAA0652	ATG13 autophagy-related protein 13	4.4E-02	-1.370
RAPGEFL1	Rap guanine nucleotide exchange factor (GEF)-like 1	2.9E-02	-1.370
MSL1	male-specific lethal 1 homolog (Drosophila)	4.8E-02	-1.370
POPI	processing of precursor 1, ribonuclease P/MRP subunit (<i>S. cerevisiae</i>)	2.7E-02	-1.371
SNORD3A SNORD3B-1 SNORD3B-2 SNORD3C SNORD3D	small nucleolar RNA, C/D box 3A small nucleolar RNA, C/D box 3B-1 small nucleolar RNA, C/D box 3B-2 small nucleolar RNA, C/D box 3C small nucleolar RNA, C/D box 3D	1.9E-02	-1.371
ITGA9	integrin, alpha 9	2.6E-02	-1.371
C11orf57	chromosome 11 open reading frame 57	1.6E-02	-1.373
NUP214	nucleoporin 214kDa	2.0E-02	-1.373
TXN	thioredoxin	3.2E-02	-1.374
WDR36	WD repeat domain 36	3.5E-02	-1.375
RICTOR	RPTOR independent companion of MTOR, complex 2	4.8E-02	-1.375
DNAJC25 DNAJC25-GNG10	DnaJ (Hsp40) homolog, subfamily C , member 25 DNAJC25-GNG10 readthrough transcript guanine nucleotide binding protein (G protein), gamma 10	4.4E-02	-1.376
PSG11	pregnancy specific beta-1-glycoprotein 11 pregnancy specific beta-1-glycoprotein 1	3.7E-02	-1.376
PDE9A LOC100132338	phosphodiesterase 9A hypothetical protein LOC100132338	3.0E-02	-1.378
METT10D	methyltransferase 10 domain containing	2.2E-02	-1.378
IKBKAP	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase complex-associated protein	2.6E-02	-1.380
RPL23P8	ribosomal protein L23 pseudogene 8	1.5E-02	-1.380
LAS1L	LAS1-like (<i>S. cerevisiae</i>)	3.6E-02	-1.380
AUH	AU RNA binding protein/enoyl-Coenzyme A hydratase	1.3E-02	-1.384
PLCD3	phospholipase C, delta 3	2.8E-02	-1.384
MAP6D1	MAP6 domain containing 1	3.0E-02	-1.385
DTX3L	deltex 3-like (<i>Drosophila</i>)	1.7E-02	-1.385
LSM12	LSM12 homolog (<i>S. cerevisiae</i>)	2.7E-02	-1.387
TRAF2	TNF receptor-associated factor 2	2.8E-02	-1.388
ROD1	regulator of differentiation 1	1.6E-02	-1.389
COL1A2	collagen, type I, alpha 2	2.2E-02	-1.389
ZNF214	zinc finger protein 214	2.7E-02	-1.389

CDK5R1	cyclin-dependent kinase 5, regulatory subunit 1 (p35)	1.6E-02	-1.391
TFAM	transcription factor A, mitochondrial	1.6E-02	-1.392
ZSCAN18	zinc finger and SCAN domain containing 18	2.6E-02	-1.393
LSM12	LSM12 homolog (yeast)	2.8E-02	-1.393
SLC31A1	solute carrier family 31 (copper transporters), member 1	3.1E-02	-1.394
TMEM205	transmembrane protein 205	3.5E-02	-1.394
PODN	podocan	4.8E-02	-1.395
ZNF321	zinc finger protein 321	4.8E-02	-1.396
TRIM21	tripartite motif-containing 21	1.8E-02	-1.399
G6PC3	glucose 6 phosphatase, catalytic, 3	3.2E-02	-1.400
FBXO4	F-box protein 4	3.4E-02	-1.400
KIAA1267 LOC100294337	KIAA1267 hypothetical protein LOC100294337	3.6E-02	-1.400
HEXIM1	hexamethylene bis-acetamide inducible 1	3.4E-02	-1.401
STOX2	storkhead box 2	3.7E-02	-1.402
TIPIN	TIMELESS interacting protein	3.5E-02	-1.402
ANKRD20B CCDC29 RP11-195B21.3 LOC100289454	ankyrin repeat domain 20B coiled-coil domain containing 29 hypothetical LOC644249 similar to coiled-coil domain containing 29	2.4E-02	-1.403
SCARNA7	small Cajal body-specific RNA 7	4.1E-02	-1.405
GAS8 LOC100130015	growth arrest-specific 8 hypothetical LOC100130015	4.4E-02	-1.405
IRAK1BP1	interleukin-1 receptor-associated kinase 1 binding protein 1	4.2E-02	-1.405
HSDL2	hydroxysteroid dehydrogenase like 2	9.5E-03	-1.406
CHMP1B	chromatin modifying protein 1B	2.2E-02	-1.406
CXorf42	chromosome X open reading frame 42	3.1E-02	-1.407
TEX10	testis expressed 10	4.9E-02	-1.408
FAM120A	family with sequence similarity 120A	4.5E-02	-1.408
TRIM58 OR2W3	tripartite motif-containing 58 olfactory receptor, family 2, subfamily W, member 3	2.5E-02	-1.412
EXOSC2	exosome component 2	3.9E-02	-1.413
ANKFY1	ankyrin repeat and FYVE domain containing 1	1.6E-02	-1.414
GGNBP2	gametogenetin binding protein 2	3.5E-02	-1.415
C9orf114 ENDOG	chromosome 9 open reading frame 114 endonuclease G	4.2E-02	-1.416
ZNF671	zinc finger protein 671	2.8E-02	-1.417

NCBP1	nuclear cap binding protein subunit 1, 80kDa	4.5E-02	-1.417
CXCL5	chemokine (C-X-C motif) ligand 5	2.1E-02	-1.418
AP3M1	adaptor-related protein complex 3, mu 1 subunit	4.1E-02	-1.418
TMEM71	transmembrane protein 71	9.6E-03	-1.420
NDUFA8	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 8, 19kDa	3.4E-02	-1.420
MCCC1	methylcrotonoyl-Coenzyme A carboxylase 1 (alpha)	4.4E-02	-1.421
CCDC49	coiled-coil domain containing 49	4.3E-02	-1.422
PPP2R1B	protein phosphatase 2 (formerly 2A), regulatory subunit A, beta isoform	1.6E-02	-1.422
SMO	smoothened homolog (Drosophila)	4.9E-02	-1.422
ZNF738	zinc finger protein 738	4.1E-02	-1.425
FBXW2	F-box and WD repeat domain containing 2	4.0E-02	-1.425
SPIRE1	spire homolog 1 (Drosophila)	3.0E-02	-1.427
CXorf15	chromosome X open reading frame 15	4.1E-02	-1.427
KIAA0753	uncharacterized protein KIAA0753	4.3E-02	-1.427
SNORD78	small nucleolar RNA, C/D box 78	2.7E-02	-1.428
CLPX	ClpX caseinolytic peptidase X homolog (E. coli)	3.7E-02	-1.429
KPNA4	karyopherin alpha 4 (importin alpha 3)	4.9E-02	-1.430
PEX12	peroxisomal biogenesis factor 12	1.9E-02	-1.431
SAT2	spermidine/spermine N1-acetyltransferase family member 2	3.2E-02	-1.432
ANKRD6	ankyrin repeat domain 6	4.4E-02	-1.434
CASC5	cancer susceptibility candidate 5	5.0E-02	-1.435
RPS20P27	ribosomal protein S20 pseudogene 27	4.2E-02	-1.435
EFTUD2	elongation factor Tu GTP binding domain containing 2	4.6E-02	-1.435
NKX2-5	NK2 transcription factor related, locus 5 (Drosophila)	1.9E-02	-1.435
RRP12	ribosomal RNA processing 12 homolog (S. cerevisiae)	3.7E-02	-1.437
ARHGAP11A	Rho GTPase activating protein 11A	2.6E-02	-1.438
FAM98B	family with sequence similarity 98, member B	1.6E-02	-1.438
CEP78	centrosomal protein 78kDa	4.3E-02	-1.440
ANP32E	acidic (leucine-rich) nuclear phosphoprotein 32 family, member E	3.4E-02	-1.441
TOM1L1	target of myb1 (chicken)-like 1	3.6E-02	-1.442
ZNF519	zinc finger protein 519	4.6E-02	-1.443

CHORDC1	cysteine and histidine-rich domain (CHORD)-containing 1	3.6E-02	-1.448
ZNF830	zinc finger protein 830	4.6E-02	-1.448
DKFZp686E2433	similar to hypothetical protein 9630041N07	1.3E-02	-1.449
GTPBP6	GTP binding protein 6 (putative)	4.0E-02	-1.452
HAUS6	HAUS augmin-like complex, subunit 6	3.4E-02	-1.452
FAM120A C9orf129	family with sequence similarity 120A chromosome 9 open reading frame 129	3.7E-02	-1.454
GATM	glycine amidinotransferase (L-arginine:glycine amidinotransferase)	1.7E-02	-1.456
GPATCH8	G patch domain containing 8	2.0E-02	-1.456
ZNF24	zinc finger protein 24	4.4E-02	-1.456
NAPG	N-ethylmaleimide-sensitive factor attachment protein, gamma	3.6E-02	-1.458
GOT1	glutamic-oxaloacetic transaminase 1, soluble (aspartate aminotransferase 1)	3.9E-02	-1.458
PIP4K2B	phosphatidylinositol-5-phosphate 4-kinase, type II, beta	4.8E-02	-1.461
ACACA	acetyl-Coenzyme A carboxylase alpha	2.5E-02	-1.462
CYBA	cytochrome b-245, alpha polypeptide	3.3E-02	-1.464
PBX3	pre-B-cell leukemia homeobox 3	2.4E-02	-1.465
SLTM	SAFB-like, transcription modulator	4.3E-02	-1.465
FAM120AOS	family with sequence similarity 120A opposite strand	2.4E-02	-1.465
PSMD11	proteasome (prosome, macropain) 26S subunit, non-ATPase, 11	4.8E-02	-1.465
APOL2	apolipoprotein L, 2	2.9E-02	-1.467
CLDN7	claudin 7	1.5E-02	-1.467
XRN1	5'-3' exoribonuclease 1	3.6E-02	-1.468
SEH1L	SEH1-like (S. cerevisiae)	4.0E-02	-1.469
NARG2	NMDA receptor regulated 2	3.7E-02	-1.470
SLC37A1	solute carrier family 37 (glycerol-3-phosphate transporter), member 1	3.1E-02	-1.471
C3orf33	chromosome 3 open reading frame 33	3.5E-02	-1.472
LRR37A3 LRR37A2 LRR37A4 LOC100294335	leucine rich repeat containing 37, member A3 leucine rich repeat containing 37, member A2 leucine rich repeat containing 37A leucine rich repeat containing 37, member A4 (pseudogene) similar to c114 SLIT-like testicular protein	1.3E-02	-1.473
WDR73	WD repeat domain 73	2.4E-02	-1.473
GK5	glycerol kinase 5 (putative)	2.0E-02	-1.475
NMT1	N-myristoyltransferase 1	3.8E-02	-1.475

RG9MTD2	RNA (guanine-9-) methyltransferase domain containing 2	2.7E-02	-1.476
LOC100130581	uncharacterized LOC100130581	3.1E-02	-1.476
GAPVD1	GTPase activating protein and VPS9 domains 1	1.6E-02	-1.479
FAM18B2	family with sequence similarity 18, member B2 family with sequence similarity 18, member B	3.0E-02	-1.481
ZCCHC14	zinc finger, CCHC domain containing 14	1.8E-02	-1.482
LRRC37A LRRC37A2 LRRC37A3 LRRC37A4 LOC100294335 LOC652203 LOC644397 LOC100294342	leucine rich repeat containing 37A leucine rich repeat containing 37, member A2 leucine rich repeat containing 37, member A3 leucine rich repeat containing 37, member A4 (pseudogene) similar to c114 SLIT-like testicular protein hypothetical protein LOC652203 similar to leucine rich repeat containing 37A hypothetical protein LOC100294342	2.0E-02	-1.483
MED11	mediator complex subunit 11	4.3E-02	-1.483
ZNHIT3 MYO19	zinc finger, HIT type 3 myosin XIX	3.0E-02	-1.483
SLC25A39	solute carrier family 25, member 39	1.6E-02	-1.484
PSIP1	PC4 and SFRS1 interacting protein 1	3.4E-02	-1.484
RNF13	ring finger protein 13	3.7E-02	-1.484
GAN	gigaxonin	4.1E-02	-1.487
RALGPS1	Ral GEF with PH domain and SH3 binding motif 1	1.1E-02	-1.487
RUNDC1	RUN domain containing 1	4.8E-02	-1.488
LOC147727	ILF3 antisense RNA 1 (non-protein coding)	1.7E-02	-1.488
TUBG1	tubulin, gamma 1	4.4E-02	-1.490
RALBP1	ralA binding protein 1	2.0E-02	-1.491
PSMD3	proteasome (prosome, macropain) 26S subunit, non-ATPase, 3	4.3E-02	-1.491
LRRC37A2 LRRC37A3 LRRC37A4 LOC100294335 LOC652203 LOC100294342	leucine rich repeat containing 37, member A2 leucine rich repeat containing 37A leucine rich repeat containing 37, member A3 leucine rich repeat containing 37, member A4 (pseudogene) similar to c114 SLIT-like testicular protein hypothetical protein LOC652203 hypothetical protein LOC100294342	2.2E-02	-1.496
NMD3	NMD3 homolog (S. cerevisiae)	2.9E-02	-1.496
TMEM101	transmembrane protein 101	2.5E-02	-1.498
STARD3	StAR-related lipid transfer (START) domain containing 3	4.8E-02	-1.499
FAM122A	family with sequence similarity 122A	5.0E-02	-1.499
C17orf53	chromosome 17 open reading frame 53	4.3E-02	-1.499
LGI2	leucine-rich repeat LGI family, member 2	2.3E-02	-1.500
SLC16A10	solute carrier family 16, member 10 (aromatic amino acid transporter)	1.8E-02	-1.501
NUDCD1	NudC domain containing 1	4.4E-02	-1.502
KIAA0368	ECM29 homolog, proteasome accessory protein	3.6E-02	-1.504

PARVG	parvin, gamma	3.6E-02	-1.505
CMTM8	CKLF-like MARVEL transmembrane domain containing 8	3.5E-02	-1.505
RPUSD4	RNA pseudouridylate synthase domain containing 4	3.2E-02	-1.506
SNORD24 RPL7A	small nucleolar RNA, C/D box 24 ribosomal protein L7a	3.1E-02	-1.506
SLC19A2	solute carrier family 19 (thiamine transporter), member 2	1.1E-02	-1.507
MCF2L2	MCF.2 cell line derived transforming sequence-like 2	1.1E-02	-1.507
LRRC37A2 LRRC37A3 LOC100294335 LOC644397	leucine rich repeat containing 37, member A2 leucine rich repeat containing 37A leucine rich repeat containing 37, member A3 similar to c114 SLIT-like testicular protein similar to leucine rich repeat containing 37A	1.4E-02	-1.507
RHOT1	ras homolog gene family, member T1	2.9E-02	-1.507
GARNL3	GTPase activating Rap/RanGAP domain-like 3	3.0E-02	-1.511
TTC12	tetratricopeptide repeat domain 12	2.1E-02	-1.512
GTF3C5	general transcription factor IIIC, polypeptide 5, 63kDa	3.9E-02	-1.512
PLEKHM1P LOC100291232	pleckstrin homology domain containing, family M (with RUN domain) member 1 pseudogene similar to hCG2002091	2.4E-02	-1.516
COX10	COX10 homolog, cytochrome c oxidase assembly protein, heme A: farnesyltransferase (yeast)	4.6E-02	-1.518
RGS7	regulator of G-protein signaling 7	2.9E-02	-1.520
AGPHD1	aminoglycoside phosphotransferase domain containing 1	2.9E-02	-1.521
ESYT3	extended synaptotagmin-like protein 3	1.6E-02	-1.522
CASC3	cancer susceptibility candidate 3	4.7E-02	-1.523
ZNF595 ZNF718	zinc finger protein 595 zinc finger protein 718	3.3E-02	-1.524
FMNL1	formin-like 1	4.9E-02	-1.528
FLT1	fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor)	1.5E-02	-1.529
ARL17 ARL17P1 NBR2 ARL14	ADP-ribosylation factor-like 17 ADP-ribosylation factor-like 17 pseudogene 1 neighbor of BRCA1 gene 2 (non-protein coding) ADP-ribosylation factor-like 14	2.6E-02	-1.530
MLLT3	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 3	2.8E-02	-1.530
ZNF699	zinc finger protein 699	3.7E-02	-1.532
LRRC37A4 LRRC37A3 LRRC37A2 LOC652203	leucine rich repeat containing 37, member A4 (pseudogene) leucine rich repeat containing 37, member A3 leucine rich repeat containing 37, member A2 hypothetical protein LOC652203	2.2E-02	-1.532
SMC2	structural maintenance of chromosomes 2	4.1E-02	-1.533
LOC100127980	uncharacterized protein	2.3E-02	-1.534
ZC3H12B	zinc finger CCCH-type containing 12B	2.5E-02	-1.534
MGC16121	uncharacterized protein	1.2E-02	-1.535

COX15	COX15 homolog, cytochrome c oxidase assembly protein (yeast)	2.1E-02	-1.536
PSMC3IP MLX	PSMC3 interacting protein MAX-like protein X	3.2E-02	-1.536
ATP11C	ATPase, class VI, type 11C	4.6E-02	-1.538
LRR37A4 LRR37A2 LRR37A3 LOC100294335 LOC644397 LOC100294342	leucine rich repeat containing 37, member A4 (pseudogene) leucine rich repeat containing 37, member A2 leucine rich repeat containing 37A leucine rich repeat containing 37, member A3 similar to c114 SLIT-like testicular protein similar to leucine rich repeat containing 37A hypothetical protein LOC100294342	2.1E-02	-1.539
SELENBP1	selenium binding protein 1	1.5E-02	-1.541
BECN1 CNTD1	beclin 1, autophagy related cyclin N-terminal domain containing 1	2.5E-02	-1.543
ZSCAN16	zinc finger and SCAN domain containing 16	3.0E-02	-1.544
C7orf29	chromosome 7 open reading frame 29	4.5E-02	-1.545
MLX PSMC3IP	MAX-like protein X PSMC3 interacting protein	3.6E-02	-1.547
ZNF714	zinc finger protein 714	2.6E-02	-1.548
HOXA2	homeobox A2	4.6E-03	-1.550
KIF27	kinesin family member 27	3.2E-02	-1.550
STAT5A	signal transducer and activator of transcription 5A	2.9E-02	-1.550
SNORD14E	small nucleolar RNA, C/D box 14E	2.0E-02	-1.553
C5orf42	chromosome 5 open reading frame 42	4.4E-02	-1.555
LRR61	leucine rich repeat containing 61	3.9E-02	-1.556
SEMA3E	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3E	1.4E-02	-1.556
CDK5RAP2	CDK5 regulatory subunit associated protein 2	1.7E-02	-1.558
ZNF778	zinc finger protein 778	3.6E-02	-1.559
TAF15	TAF15 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 68kDa	2.4E-02	-1.564
FAM124A	family with sequence similarity 124A	2.0E-02	-1.564
LAMP3	lysosomal-associated membrane protein 3	1.2E-02	-1.564
STK33	serine/threonine kinase 33	4.4E-02	-1.568
ZNF484	zinc finger protein 484	4.2E-02	-1.568
C9orf6 IKBKAP	chromosome 9 open reading frame 6 inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase complex-associated protein	8.0E-03	-1.571
ZNF702P	zinc finger protein 702 pseudogene	1.9E-02	-1.572
PTPN2	protein tyrosine phosphatase, non-receptor type 2	3.8E-02	-1.574
PLA2R1	phospholipase A2 receptor 1, 180kDa	4.7E-02	-1.574
NSUN7	NOL1/NOP2/Sun domain family, member 7	1.0E-02	-1.575

MX1	myxovirus (influenza virus) resistance 1, interferon-inducible protein p78 (mouse)	4.8E-02	-1.576
CDC26	cell division cycle 26 homolog (S. cerevisiae)	3.2E-02	-1.576
PLEKHM1	pleckstrin homology domain containing, family M (with RUN domain) member 1	2.6E-02	-1.577
GRN	granulin	2.0E-02	-1.578
EID3	EP300 interacting inhibitor of differentiation 3	2.9E-02	-1.581
PRPS2	phosphoribosyl pyrophosphate synthetase 2	4.3E-02	-1.581
GOLM1 LOC100293491	golgi membrane protein 1 similar to golgi membrane protein 1	4.3E-02	-1.582
UNQ3104	ACA3104	1.8E-02	-1.583
CNP	2',3'-cyclic nucleotide 3' phosphodiesterase	4.9E-02	-1.583
TSC1	tuberous sclerosis 1	2.4E-02	-1.583
ZNF770	zinc finger protein 770	4.9E-02	-1.583
NIPAL4	NIPA-like domain containing 4	3.9E-02	-1.586
HRSP12	heat-responsive protein 12	2.0E-02	-1.589
YPEL1	yippee-like 1 (Drosophila)	1.8E-02	-1.589
RNF150	ring finger protein 150	1.2E-02	-1.589
TOP2A	topoisomerase (DNA) II alpha 170kDa	2.7E-02	-1.589
ATP6V0A4	ATPase, H ⁺ transporting, lysosomal V0 subunit a4	2.2E-02	-1.589
FKTN	fukutin	3.9E-02	-1.590
MRRF	mitochondrial ribosome recycling factor	3.4E-02	-1.590
NBR2	neighbor of BRCA1 gene 2 (non-protein coding)	2.1E-02	-1.592
PSME3	proteasome (prosome, macropain) activator subunit 3 (PA28 gamma; Ki)	3.1E-02	-1.594
ZNF556	zinc finger protein 556	2.8E-03	-1.595
THOC1	THO complex 1	1.9E-02	-1.595
NFRKB	nuclear factor related to kappaB binding protein	1.5E-02	-1.596
ARMC4	armadillo repeat containing 4	1.8E-02	-1.597
PARP12	poly (ADP-ribose) polymerase family, member 12	1.9E-02	-1.597
MRPL50	mitochondrial ribosomal protein L50	2.7E-02	-1.598
TSPAN33	tetraspanin 33	3.7E-02	-1.598
FANCA ZNF276	Fanconi anemia, complementation group A zinc finger protein 276	1.1E-02	-1.603
ZNF641	zinc finger protein 641	4.7E-02	-1.603
PTAR1	protein prenyltransferase alpha subunit repeat containing 1	5.0E-02	-1.604

PLCG2	phospholipase C, gamma 2 (phosphatidylinositol-specific)	2.0E-02	-1.604
RPRD1A	regulation of nuclear pre-mRNA domain containing 1A	3.1E-02	-1.607
ANXA8 ANXA8L1 ANXA8L2	annexin A8 annexin A8-like 1 annexin A8-like 2	1.9E-02	-1.608
SYNRG	synergin, gamma	3.4E-02	-1.609
IFI35	interferon-induced protein 35	3.5E-02	-1.612
MRPS30	mitochondrial ribosomal protein S30	4.2E-02	-1.613
BCL2L11	BCL2-like 11 (apoptosis facilitator)	4.9E-02	-1.614
ARL17P1 NBR2	ADP-ribosylation factor-like 17 pseudogene 1 neighbor of BRCA1 gene 2 (non-protein coding)	3.9E-02	-1.616
IFIH1	interferon induced with helicase C domain 1	3.1E-02	-1.618
C9orf45	chromosome 9 open reading frame 45	3.7E-02	-1.618
ZNF254	zinc finger protein 254	5.0E-02	-1.619
FGD4	FYVE, RhoGEF and PH domain containing 4	2.7E-02	-1.620
CAMK2B	calcium/calmodulin-dependent protein kinase II beta	2.5E-02	-1.620
ALG2	asparagine-linked glycosylation 2, alpha-1,3-mannosyltransferase homolog (S. cerevisiae)	2.6E-02	-1.625
SEC62	SEC62 homolog (S. cerevisiae)	3.2E-02	-1.629
GBGT1 RALGDS	globoside alpha-1,3-N-acetylgalactosaminyltransferase 1 ral guanine nucleotide dissociation stimulator	2.6E-02	-1.631
SIAE	sialic acid acetyltransferase	2.0E-02	-1.634
TRIM14	tripartite motif-containing 14	4.7E-02	-1.638
EFCAB4B	EF-hand calcium binding domain 4B	3.2E-02	-1.641
TDRD7	tudor domain containing 7	2.0E-02	-1.641
ATXN7L3	ataxin 7-like 3	1.8E-02	-1.641
HMGCS1	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1 (soluble)	4.3E-02	-1.643
NMI	N-myc (and STAT) interactor	3.9E-02	-1.643
GEMIN4	gem (nuclear organelle) associated protein 4	2.7E-02	-1.643
SHE	Src homology 2 domain containing E	2.4E-02	-1.645
TNFAIP3	tumor necrosis factor, alpha-induced protein 3	5.0E-02	-1.647
PARD3B	par-3 partitioning defective 3 homolog B (C. elegans)	3.5E-02	-1.648
ZNF572	zinc finger protein 572	2.4E-02	-1.649
SLFN13	schlafen family member 13	3.9E-02	-1.650
ELOVL2	elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 2	9.5E-03	-1.650
LMF1	lipase maturation factor 1	8.0E-03	-1.651

CCBL1	cysteine conjugate-beta lyase, cytoplasmic	1.8E-02	-1.651
SMARCE1 KRT222	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily e, member 1 keratin 222	2.6E-02	-1.652
CUTC	cutC copper transporter homolog (E. coli)	3.7E-02	-1.652
STAT3	signal transducer and activator of transcription 3 (acute-phase response factor)	3.1E-02	-1.652
CCDC56	coiled-coil domain containing 56	1.7E-02	-1.660
SLC40A1	solute carrier family 40 (iron-regulated transporter), member 1	1.4E-02	-1.661
ZNF677	zinc finger protein 677	7.1E-03	-1.663
AATF	apoptosis antagonizing transcription factor	4.4E-02	-1.663
ZBTB44	zinc finger and BTB domain containing 44	2.2E-02	-1.664
CTSL2	cathepsin L2	3.7E-02	-1.665
FLJ35776	hypothetical LOC649446	3.2E-02	-1.674
FXN	frataxin	2.4E-02	-1.676
MED1	mediator complex subunit 1	3.4E-02	-1.678
MOCOS	molybdenum cofactor sulfurase	4.3E-02	-1.680
LRRC8B	leucine rich repeat containing 8 family, member B	1.8E-02	-1.685
WNK4	WNK lysine deficient protein kinase 4	2.7E-02	-1.685
HISPPD2A	histidine acid phosphatase domain containing 2A	2.3E-02	-1.685
MERTK	c-mer proto-oncogene tyrosine kinase	1.7E-02	-1.686
NMU	neuromedin U	4.4E-03	-1.689
INSR	insulin receptor	2.3E-02	-1.690
COASY	Coenzyme A synthase	1.9E-02	-1.692
LOC151009 LOC440894	hypothetical LOC151009 hypothetical protein LOC440894	3.6E-02	-1.696
C8orf46	chromosome 8 open reading frame 46	2.1E-02	-1.697
ZNF470	zinc finger protein 470	1.7E-02	-1.698
CCDC43	coiled-coil domain containing 43	3.6E-02	-1.698
DENND2C	DENN/MADD domain containing 2C	4.1E-02	-1.700
CD302 LY75	CD302 molecule lymphocyte antigen 75	2.8E-02	-1.701
NLE1	notchless homolog 1 (Drosophila)	4.3E-02	-1.702
CLIC3	chloride intracellular channel 3	1.6E-02	-1.707
CPT1C	carnitine palmitoyltransferase 1C	4.9E-02	-1.712

ZNF431	zinc finger protein 431	2.9E-02	-1.714
EZH1	enhancer of zeste homolog 1 (Drosophila)	2.7E-02	-1.714
SCML1	sex comb on midleg-like 1 (Drosophila)	1.0E-02	-1.715
SELM	selenoprotein M	1.7E-02	-1.715
GOSR2	golgi SNAP receptor complex member 2	2.0E-02	-1.716
SIAH3	seven in absentia homolog 3 (Drosophila)	1.3E-02	-1.716
CCDC8	coiled-coil domain containing 8	2.3E-02	-1.717
PODXL2	podocalyxin-like 2	1.8E-02	-1.718
ZFAND1	zinc finger, AN1-type domain 1	4.1E-02	-1.721
CCDC144A CCDC144C CCD C144B LOC100134159	coiled-coil domain containing 144A coiled-coil domain containing 144C coiled-coil domain containing 144B similar to Coiled-coil domain containing 144B	4.6E-02	-1.722
PPM1E	protein phosphatase 1E (PP2C domain containing)	3.2E-02	-1.724
TTC26	tetratricopeptide repeat domain 26	3.2E-02	-1.725
SNORD36C SNORD36A RPL7 A	small nucleolar RNA, C/D box 36C small nucleolar RNA, C/D box 36A ribosomal protein L7a	2.2E-02	-1.725
TRIM59	tripartite motif-containing 59	2.5E-02	-1.726
TLCD1	TLC domain containing 1	1.3E-02	-1.729
MIR17HG	MIR17 host gene (non-protein coding)	2.0E-02	-1.731
LHX9	LIM homeobox 9	8.1E-03	-1.736
SSTR1	somatostatin receptor 1	2.0E-02	-1.737
TRIM36	tripartite motif-containing 36	1.8E-02	-1.738
ZNF510	zinc finger protein 510	3.4E-02	-1.738
DHX8	DEAH (Asp-Glu-Ala-His) box polypeptide 8	1.7E-02	-1.739
DBF4B	DBF4 homolog B (S. cerevisiae)	3.8E-02	-1.753
ARSD	arylsulfatase D	2.0E-02	-1.758
ITGA4 CERKL	integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor) ceramide kinase-like	2.1E-02	-1.760
LAMA1	laminin, alpha 1	8.6E-03	-1.763
EPCAM	epithelial cell adhesion molecule	3.6E-02	-1.769
GALNT6	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 6 (GalNAc-T6)	2.9E-02	-1.770
CEP110	centrosomal protein 110kDa	2.4E-02	-1.772
NOL8	nucleolar protein 8	3.6E-02	-1.773
CRKRS	Cdc2-related kinase, arginine/serine-rich	2.6E-02	-1.774

FAM134C	family with sequence similarity 134, member C	2.3E-02	-1.777
ODZ2	odz, odd Oz/ten-m homolog 2 (Drosophila)	4.0E-03	-1.780
NT5C3L	5'-nucleotidase, cytosolic III-like	1.2E-02	-1.782
ANXA8L2 ANXA8L1	annexin A8-like 2 annexin A8 annexin A8-like 1	1.1E-02	-1.782
SLFN11	schlafen family member 11	1.9E-02	-1.785
FABP5 FABP5L3	fatty acid binding protein 5 (psoriasis-associated) fatty acid binding protein 5-like 3 (pseudogene)	2.4E-02	-1.795
FAM110B	family with sequence similarity 110, member B	3.8E-02	-1.803
ALDH5A1	aldehyde dehydrogenase 5 family, member A1	4.5E-02	-1.807
PARP14	poly (ADP-ribose) polymerase family, member 14	1.7E-02	-1.808
MPHOSPH6	M-phase phosphoprotein 6	2.2E-02	-1.812
PARVB	parvin, beta	1.6E-02	-1.830
TBX20	T-box 20	3.0E-02	-1.832
SUSD3	sushi domain containing 3	7.8E-03	-1.842
NBR1	neighbor of BRCA1 gene 1	1.5E-02	-1.845
EPHX4	epoxide hydrolase 4	2.5E-02	-1.846
ZNF483	zinc finger protein 483	3.6E-02	-1.850
TMEM99	transmembrane protein 99	2.8E-02	-1.850
CASP4	caspase 4, apoptosis-related cysteine peptidase	2.5E-02	-1.870
DCAKD	dephospho-CoA kinase domain containing	1.1E-02	-1.875
SLCO4A1 hCG_2018279	solute carrier organic anion transporter family, member 4A1 hypothetical protein LOC100127888	3.6E-02	-1.881
KCNMB4	potassium large conductance calcium-activated channel, subfamily M, beta member 4	2.5E-02	-1.882
EXPH5	exophilin 5	3.7E-02	-1.884
SULF1	sulfatase 1	8.0E-03	-1.885
HIST2H4A HIST2H4B	histone cluster 2, H4a histone cluster 2, H4b	2.3E-02	-1.893
DNAH11	dynein, axonemal, heavy chain 11	1.8E-02	-1.894
RHEBL1	Ras homolog enriched in brain like 1	1.5E-02	-1.894
HIST2H4A HIST2H4B	histone cluster 2, H4a histone cluster 2, H4b	2.3E-02	-1.895
GPR21	G protein-coupled receptor 21	3.9E-02	-1.899
ZNF701	zinc finger protein 701	2.4E-02	-1.906
KIAA1107	uncharacterized protein KIAA1107	4.9E-02	-1.911
ZNF726	zinc finger protein 726	2.1E-02	-1.916

RNF180	ring finger protein 180	1.2E-02	-1.921
LOC151009 LOC440894	hypothetical LOC151009 hypothetical protein LOC440894	3.0E-02	-1.922
ZDHC21	zinc finger, DHHC-type containing 21	4.9E-02	-1.939
GKAP1	G kinase anchoring protein 1	2.0E-02	-1.942
KLHL11	kelch-like 11 (Drosophila)	2.4E-02	-1.945
CCDC55	coiled-coil domain containing 55	4.2E-02	-1.949
EPB41	erythrocyte membrane protein band 4.1 (elliptocytosis 1, RH-linked)	1.4E-02	-1.952
TPD52	tumor protein D52	2.5E-02	-1.960
APOL6	apolipoprotein L, 6	3.7E-02	-1.970
PCDHB8	protocadherin beta 8	4.2E-02	-1.972
ZNF844	zinc finger protein 844	1.1E-02	-1.977
PLCXD1	phosphatidylinositol-specific phospholipase C, X domain containing 1	1.9E-02	-1.978
STAT5B	signal transducer and activator of transcription 5B	2.6E-02	-1.983
SNX10	sorting nexin 10	2.0E-02	-1.988
XAF1	XIAP associated factor 1	1.1E-02	-1.992
LIG3	ligase III, DNA, ATP-dependent	1.6E-02	-2.008
SPESP1 NOX5	sperm equatorial segment protein 1 NADPH oxidase, EF-hand calcium binding domain 5	3.0E-02	-2.010
MT1A	metallothionein 1A	1.2E-02	-2.013
AGMAT	agmatine ureohydrolase (agmatinase)	3.0E-02	-2.017
SLC12A7	solute carrier family 12 (potassium/chloride transporters), member 7	1.4E-02	-2.024
PYGO1	pygopus homolog 1 (Drosophila)	4.2E-02	-2.032
TMEM38B	transmembrane protein 38B	2.2E-02	-2.068
KIF27 LOC389765	kinesin family member 27 similar to KIF27C	8.1E-03	-2.068
ZNF493	zinc finger protein 493	2.7E-02	-2.073
MED12L	mediator complex subunit 12-like	1.7E-02	-2.077
BRCA1	breast cancer 1, early onset	2.3E-02	-2.082
PYCARD	PYD and CARD domain containing	3.2E-02	-2.083
MGC57346	hypothetical LOC401884	2.4E-02	-2.086
ZNF492	zinc finger protein 492	2.0E-02	-2.089
KAT2A	K(lysine) acetyltransferase 2A	3.1E-02	-2.090
IFITM1	interferon induced transmembrane protein 1 (9-27)	1.9E-02	-2.091

MAP7D2	MAP7 domain containing 2	7.8E-03	-2.094
ZDBF2	zinc finger, DBF-type containing 2	3.1E-02	-2.106
SYDE2	synapse defective 1, Rho GTPase, homolog 2 (C. elegans)	4.4E-02	-2.109
C2orf65	chromosome 2 open reading frame 65	3.5E-02	-2.125
ZNF66	zinc finger protein 66	3.5E-02	-2.130
TAF4B	TAF4b RNA polymerase II, TATA box binding protein (TBP)-associated factor, 105kDa	2.4E-02	-2.153
GALNT14	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 14 (GalNAc-T14)	3.0E-02	-2.154
DNAJC7 CNP	DnaJ (Hsp40) homolog, subfamily C, member 7 2',3'-cyclic nucleotide 3' phosphodiesterase	1.7E-02	-2.159
PLCXD1	phosphatidylinositol-specific phospholipase C, X domain containing 1	1.7E-02	-2.178
CCDC3	coiled-coil domain containing 3	1.4E-02	-2.184
TTC28 LOC284900	tetratricopeptide repeat domain 28 hypothetical LOC284900	4.1E-02	-2.199
MOSC1	MOCO sulphurase C-terminal domain containing 1	2.0E-02	-2.200
PLSCR4	phospholipid scramblase 4	2.0E-02	-2.203
ASS1	argininosuccinate synthetase 1	1.8E-02	-2.215
CCNA1	cyclin A1	1.2E-02	-2.235
EML5	echinoderm microtubule associated protein like 5	5.2E-03	-2.242
FERMT1	fermitin family homolog 1 (Drosophila)	1.3E-02	-2.244
WDR17	WD repeat domain 17	3.4E-02	-2.251
MYO1D	myosin ID	3.9E-03	-2.263
E2F5	E2F transcription factor 5, p130-binding	2.2E-02	-2.266
SPA17 SIAE	sperm autoantigenic protein 17 sialic acid acetyltransferase	4.0E-02	-2.276
ZBTB10	zinc finger and BTB domain containing 10	1.1E-02	-2.279
MKX	mohawk homeobox	8.0E-03	-2.285
GPNMB	glycoprotein (transmembrane) nmb	1.7E-02	-2.290
ICOSLG	inducible T-cell co-stimulator ligand	8.0E-03	-2.300
MYO5C	myosin VC	1.3E-02	-2.309
ZNF90 ZNF93	zinc finger protein 90 zinc finger protein 93	3.7E-02	-2.321
RPSAP58	ribosomal protein SA pseudogene 58	4.9E-02	-2.337
APOL1	apolipoprotein L, 1	4.9E-02	-2.346
CDON	Cdon homolog (mouse)	3.2E-02	-2.357
ANGPTL2	angiopoietin-like 2	1.5E-02	-2.371

MCOLN2	mucolipin 2	1.0E-02	-2.406
TFAP2C	transcription factor AP-2 gamma (activating enhancer binding protein 2 gamma)	3.6E-02	-2.413
ADARB1	adenosine deaminase, RNA-specific, B1 (RED1 homolog rat)	8.9E-03	-2.436
B3GALNT1	beta-1,3-N-acetylgalactosaminyltransferase 1 (globoside blood group)	4.4E-02	-2.438
GLDC	glycine dehydrogenase (decarboxylating)	2.3E-02	-2.448
LRRC34	leucine rich repeat containing 34	7.8E-03	-2.463
PRTG	protogenin homolog (Gallus gallus)	1.9E-02	-2.480
COL1A1	collagen, type I, alpha 1	2.2E-02	-2.498
HYLS1	hydroletharus syndrome 1	4.7E-02	-2.501
DIP2C	DIP2 disco-interacting protein 2 homolog C (Drosophila)	8.1E-03	-2.504
CHRNB1 FGF11	cholinergic receptor, nicotinic, beta 1 (muscle) fibroblast growth factor 11	2.8E-02	-2.571
WT1	Wilms tumor 1	1.1E-02	-2.578
PCDHB15	protocadherin beta 15	1.1E-02	-2.606
PPP1R9A	protein phosphatase 1, regulatory (inhibitor) subunit 9A	3.6E-03	-2.607
STRBP	spermatid perinuclear RNA binding protein	2.8E-02	-2.621
BIRC3	baculoviral IAP repeat-containing 3	1.3E-02	-2.627
MCOLN3	mucolipin 3	8.0E-03	-2.646
PLTP	phospholipid transfer protein	1.9E-02	-2.694
PRKX	protein kinase, X-linked	1.1E-02	-2.708
SLC47A1	solute carrier family 47, member 1	8.0E-03	-2.709
GYG2	glycogenin 2	1.1E-02	-2.709
ZNF518B	zinc finger protein 518B	2.7E-02	-2.721
ZNF347	zinc finger protein 347	4.4E-03	-2.739
ANO4	anoctamin 4	2.4E-02	-2.742
NOV	nephroblastoma overexpressed gene	1.8E-02	-2.771
ANUBL1	AN1, ubiquitin-like, homolog (Xenopus laevis)	1.9E-02	-2.796
SLAIN1	SLAIN motif family, member 1	6.5E-03	-2.802
GPR160	G protein-coupled receptor 160	2.5E-02	-2.822
IQCA1 LOC100129258	IQ motif containing with AAA domain 1 hypothetical protein LOC100129258	3.5E-03	-2.851
TOX	thymocyte selection-associated high mobility group box	7.8E-03	-2.858
ALDH2	aldehyde dehydrogenase 2 family (mitochondrial)	1.8E-02	-2.871

CDH6	cadherin 6, type 2, K-cadherin (fetal kidney)	1.6E-02	-2.886
ENPP4	ectonucleotide pyrophosphatase/phosphodiesterase 4 (putative function)	4.1E-02	-2.913
SERTAD4	SERTA domain containing 4	4.6E-02	-2.925
RASGRF1	Ras protein-specific guanine nucleotide-releasing factor 1	8.0E-03	-3.010
KIAA1244 LOC202451	KIAA1244 hypothetical protein LOC202451	3.1E-02	-3.028
ZNF320	zinc finger protein 320	1.2E-02	-3.034
ANXA8L1 ANXA8L2	annexin A8-like 1 annexin A8 annexin A8-like 2	1.0E-02	-3.051
P2RX5	purinergic receptor P2X, ligand-gated ion channel, 5	3.3E-02	-3.109
PLCB4	phospholipase C, beta 4	1.4E-02	-3.121
SEMA4D	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D	3.4E-02	-3.172
ZNF253 ZNF93	zinc finger protein 253 zinc finger protein 93	1.6E-02	-3.207
ZNF43	zinc finger protein 43	2.2E-02	-3.237
SLC27A2	solute carrier family 27 (fatty acid transporter), member 2	4.7E-02	-3.351
NCAM1	neural cell adhesion molecule 1	3.3E-03	-3.389
PLBD1	phospholipase B domain containing 1	3.9E-03	-3.420
PTER C1QL3	phosphotriesterase related complement component 1, q subcomponent-like 3	3.4E-02	-3.469
GPX7	glutathione peroxidase 7	1.1E-02	-3.605
ZNF876P	zinc finger protein 876 (pseudogene)	3.0E-02	-3.744
GLUL	glutamate-ammonia ligase (glutamine synthetase)	3.4E-02	-3.755
RRAGD	Ras-related GTP binding D	8.1E-03	-3.945
APBA2	amyloid beta (A4) precursor protein-binding, family A, member 2	1.2E-02	-3.985
CCDC88C	coiled-coil domain containing 88C	7.8E-03	-4.043
MTMR8 ASB12	myotubularin related protein 8 ankyrin repeat and SOCS box-containing 12	6.2E-03	-4.062
FEZ1	fasciculation and elongation protein zeta 1 (zygin I)	2.4E-03	-4.063
MGAT4A	mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase, isozyme A	4.2E-03	-4.146
C5orf25	chromosome 5 open reading frame 25	3.2E-02	-4.266
PHKA1	phosphorylase kinase, alpha 1 (muscle)	4.9E-02	-4.274
IRAK3	interleukin-1 receptor-associated kinase 3	3.9E-03	-4.300
ZNF737	zinc finger protein 737	2.9E-02	-4.325
NFIA	nuclear factor I/A	5.1E-03	-4.393

GAL	galanin prepropeptide	3.6E-02	-4.421
PAX6	paired box 6	1.1E-02	-4.883
CKMT1A CKMT1B	creatine kinase, mitochondrial 1A creatine kinase, mitochondrial 1B	1.7E-02	-4.947
FAR2	fatty acyl CoA reductase 2	1.4E-02	-5.102
SKAP2	src kinase associated phosphoprotein 2	1.1E-02	-5.133
ARHGAP28	Rho GTPase activating protein 28	8.0E-03	-5.151
MARK1	MAP/microtubule affinity-regulating kinase 1	8.0E-03	-5.238
DIO2	deiodinase, iodothyronine, type II	3.6E-02	-5.335
DSC2	desmocollin 2	5.5E-03	-5.410
ZNF542 LOC283788	zinc finger protein 542 FSHD region gene 1 pseudogene	2.4E-03	-5.627
KCNQ5	potassium voltage-gated channel, KQT-like subfamily, member 5	3.5E-03	-5.663
ZNF506	zinc finger protein 506	8.0E-03	-5.664
TNFRSF11B	tumor necrosis factor receptor superfamily, member 11b	1.1E-02	-5.820
ZNF788	zinc finger family member 788	1.6E-03	-5.937
C12orf59	chromosome 12 open reading frame 59	1.1E-02	-6.147
RBP7	retinol binding protein 7, cellular	8.1E-03	-6.388
TMEM98	transmembrane protein 98	4.0E-03	-6.427
GCA	granulysin, EF-hand calcium binding protein	1.2E-02	-6.436
ZC4H2	zinc finger, C4H2 domain containing	7.1E-03	-6.855
GLUL	glutamate-ammonia ligase (glutamine synthetase)	4.8E-02	-7.301
RAVER2	ribonucleoprotein, PTB-binding 2	3.3E-02	-8.811
MAL2	mal, T-cell differentiation protein 2	5.2E-03	-8.868
ZNF93	zinc finger protein 93	1.2E-02	-11.348
DSC3	desmocollin 3	3.0E-03	-20.811

10 The adjusted p-values < 0.05 and absolute fold changes for the 2010 DEG in transformed clones compared to control clones in experiment C.

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15 **Table S2: Differentially expressed genes common to V_{clone} , V_{exp} , and V_{recov} (DEG.ABC).**

Gene Symbol	Gene Name	Fold change V_{exp} v. C_{unexp}	Fold change V_{clone} v. C_{clone}	Fold change V_{recov} v. C_{unexp}	P-value 1	P-value 2	P-value 3
PHLDA1	pleckstrin homology-like domain, family A, member 1	3.036	1.585	1.651	2.5E-09	1.8E-03	1.7E-05
DNER	delta/notch-like EGF repeat containing	3.181	2.096	2.127	3.0E-09	4.6E-03	1.9E-06
SERPINB2	serpin peptidase inhibitor, clade B (ovalbumin), member 2	3.271	2.198	2.340	2.2E-08	3.9E-02	2.7E-06
SNAI2	snail homolog 2 (Drosophila)	2.436	2.029	1.829	2.2E-08	1.6E-03	3.9E-06
ADAM12	ADAM metallopeptidase domain 12	2.289	1.627	1.967	4.6E-08	4.7E-03	2.2E-06
SERPINB7	serpin peptidase inhibitor, clade B (ovalbumin), member 7	2.207	1.648	1.486	8.6E-08	1.8E-03	2.1E-04
NRP1	neuropilin 1	2.076	1.836	1.534	1.6E-07	5.5E-04	1.1E-04
ANTXR2	anthrax toxin receptor 2	1.993	1.484	1.626	2.6E-07	1.8E-04	3.4E-05
TES	testis derived transcript (3 LIM domains)	2.014	1.621	1.779	4.9E-07	3.6E-04	1.7E-05
PPAPDC1A	phosphatidic acid phosphatase type 2 domain containing 1A	2.023	1.846	1.954	4.9E-07	3.6E-04	4.2E-06
SLC2A3	solute carrier family 2 (facilitated glucose transporter), member 3	1.854	1.573	1.617	9.1E-07	4.8E-03	4.9E-05
G0S2	G0/G1switch 2	2.014	1.578	1.753	9.3E-07	7.7E-03	3.9E-05
SH3RF2	SH3 domain containing ring finger 2	1.780	1.725	1.724	1.1E-06	4.4E-04	1.2E-05
HPCAL1	hippocalcin-like 1	1.835	1.495	1.558	1.1E-06	1.9E-04	1.1E-04
ADAMTS6	ADAM metallopeptidase with thrombospondin type 1 motif, 6	1.777	1.190	1.514	1.5E-06	5.0E-02	1.6E-04
SMOX	spermine oxidase	1.775	1.181	1.432	1.6E-06	1.0E-02	5.1E-04
ALDH1A3	aldehyde dehydrogenase 1 family, member A3	1.710	1.366	1.440	2.0E-06	1.2E-02	3.4E-04
CDCP1	CUB domain containing protein 1	1.756	1.290	1.323	2.8E-06	2.2E-02	3.5E-03
SPOCK1	sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 1	1.833	1.669	1.700	3.3E-06	5.1E-03	6.7E-05
LAMB3	laminin, beta 3	1.772	1.451	1.406	3.9E-06	1.6E-03	1.4E-03
MAMLD1	mastermind-like domain containing 1	1.660	1.559	1.610	4.3E-06	7.2E-06	4.3E-05
CLMP	CXADR-like membrane protein	1.703	1.753	1.442	4.3E-06	3.8E-04	5.6E-04
TNIK	TRAF2 and NCK interacting kinase	1.741	1.227	1.258	4.3E-06	2.8E-02	1.2E-02
BHLHE41	basic helix-loop-helix family, member e41	1.606	1.205	1.254	4.6E-06	4.0E-02	5.8E-03
SEMA7A	semaphorin 7A, GPI membrane anchor (John Milton Hagen blood group)	1.649	1.421	1.457	4.8E-06	5.0E-03	3.3E-04

ENC1	ectodermal-neural cortex 1 (with BTB-like domain)	1.624	1.373	1.382	4.9E-06	2.1E-03	7.5E-04
HOXB9	homeobox B9	1.782	1.399	1.864	4.9E-06	7.4E-03	1.6E-05
SOX9	SRY (sex determining region Y)-box 9	1.668	1.317	1.424	5.5E-06	1.6E-03	6.6E-04
LAMB1	laminin, beta 1	1.607	1.359	1.227	5.7E-06	1.2E-03	1.1E-02
CHST11	carbohydrate (chondroitin 4) sulfotransferase 11	1.590	1.351	1.319	5.8E-06	4.2E-03	1.8E-03
LRIG1	leucine-rich repeats and immunoglobulin-like domains 1	1.638	1.423	1.680	7.2E-06	4.3E-04	3.0E-05
GPR56	G protein-coupled receptor 56	1.573	1.393	1.447	7.2E-06	4.5E-03	2.4E-04
LOX	lysyl oxidase	1.769	1.504	1.715	7.2E-06	5.7E-03	7.1E-05
OSBPL6	oxysterol binding protein-like 6	1.562	1.317	1.162	8.1E-06	2.4E-03	4.2E-02
INHBB	inhibin, beta B	1.626	1.607	2.085	8.1E-06	2.8E-02	2.0E-06
TBX3	T-box 3	1.622	1.351	1.194	8.1E-06	6.4E-03	3.0E-02
TGFBR2	transforming growth factor, beta receptor II (70/80kDa)	1.573	1.459	1.217	8.6E-06	1.9E-04	1.4E-02
FGF5	fibroblast growth factor 5	1.619	1.232	1.649	9.0E-06	8.3E-03	3.9E-05
SRPX2	sushi-repeat containing protein, X-linked 2	1.554	1.767	1.689	9.1E-06	2.5E-04	1.3E-05
SPOCD1	SPOC domain containing 1	1.562	1.311	1.420	1.0E-05	2.7E-03	4.4E-04
STC2	stanniocalcin 2	1.580	1.456	1.257	1.0E-05	2.9E-03	7.6E-03
PDE1C	phosphodiesterase 1C, calmodulin-dependent 70kDa	1.608	1.800	1.746	1.1E-05	3.7E-04	1.7E-05
SATB2	SATB homeobox 2	1.520	1.433	1.310	1.4E-05	1.0E-02	2.1E-03
SHISA2	shisa homolog 2 (<i>Xenopus laevis</i>)	1.532	1.486	1.407	1.5E-05	1.7E-03	5.2E-04
LHFPL2	lipoma HMGIC fusion partner-like 2	1.509	1.304	1.288	1.5E-05	1.1E-03	3.0E-03
MYO10	myosin X	1.518	1.260	1.209	1.5E-05	3.7E-02	1.5E-02
GRAMD1B	GRAM domain containing 1B	1.626	1.284	1.221	1.7E-05	2.2E-02	2.5E-02
CD200	CD200 molecule	1.592	1.303	1.205	1.8E-05	5.1E-03	3.0E-02
CRISPLD2	cysteine-rich secretory protein LCCL domain containing 2	1.650	1.606	1.523	2.1E-05	4.2E-03	4.8E-04
ABLIM3	actin binding LIM protein family, member 3	1.498	1.466	1.339	2.6E-05	5.1E-03	1.6E-03
WNT5A	wingless-type MMTV integration site family, member 5A	1.513	1.751	1.290	2.7E-05	3.1E-04	4.2E-03
STMN3	stathmin-like 3	1.543	1.321	1.672	2.7E-05	7.5E-03	3.7E-05
GEM	GTP binding protein overexpressed in skeletal muscle	1.503	1.241	1.264	2.9E-05	1.2E-03	6.5E-03
ATP2B1	ATPase, Ca ⁺⁺ transporting, plasma membrane 1	1.647	1.133	1.225	3.4E-05	3.3E-02	3.7E-02
PTGER2	prostaglandin E receptor 2 (subtype EP2), 53kDa	1.490	1.236	1.412	3.4E-05	9.5E-03	5.6E-04
MMP16	matrix metalloproteinase 16 (membrane-inserted)	1.486	1.506	1.208	4.0E-05	1.3E-03	2.0E-02

GPR39	G protein-coupled receptor 39	1.519	1.397	1.338	4.0E-05	1.9E-03	2.7E-03
ITGB5	integrin, beta 5	1.553	1.277	1.349	4.7E-05	4.7E-03	3.5E-03
CORO2B	coronin, actin binding protein, 2B	1.467	1.272	1.222	4.7E-05	7.3E-03	1.4E-02
KIAA1217	KIAA1217	1.438	1.419	1.308	4.8E-05	1.3E-04	2.2E-03
TGFA	transforming growth factor, alpha	1.465	1.517	1.181	5.0E-05	1.1E-03	3.3E-02
ITGBL1	integrin, beta-like 1 (with EGF-like repeat domains)	1.467	1.392	1.247	6.1E-05	1.2E-04	9.8E-03
SMURF2	SMAD specific E3 ubiquitin protein ligase 2	1.504	1.144	1.746	6.2E-05	4.8E-02	2.4E-05
PRKCA	protein kinase C, alpha	1.430	1.337	1.201	6.7E-05	1.7E-03	1.9E-02
PSD3	pleckstrin and Sec7 domain containing 3	1.589	1.303	1.365	7.6E-05	1.6E-02	4.8E-03
PLAT	plasminogen activator, tissue	1.508	1.509	1.873	7.7E-05	5.0E-03	1.1E-05
HOXB2	homeobox B2	1.438	1.345	1.402	8.0E-05	3.6E-04	6.6E-04
ADAM32	ADAM metallopeptidase domain 32	1.407	1.166	1.256	8.1E-05	5.7E-03	5.3E-03
RALA	v-ral simian leukemia viral oncogene homolog A (ras related)	1.428	1.159	1.321	8.1E-05	8.6E-03	2.2E-03
GLIPR1	GLI pathogenesis-related 1	1.417	1.166	1.488	8.5E-05	3.4E-03	1.5E-04
DSEL	dermatan sulfate epimerase-like	1.429	1.522	1.274	1.0E-04	1.4E-02	5.7E-03
GLIS3	GLIS family zinc finger 3	1.439	1.618	1.299	1.1E-04	3.6E-04	4.2E-03
SEMA3C	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C	1.468	1.191	1.398	1.1E-04	3.1E-02	1.3E-03
MOXD1	monooxygenase, DBH-like 1	1.436	1.348	1.244	1.1E-04	1.1E-02	1.1E-02
CASK	calcium/calmodulin-dependent serine protein kinase (MAGUK family)	1.520	1.261	1.235	1.1E-04	3.8E-04	2.6E-02
PLIN2	perilipin 2	1.501	1.242	1.229	1.3E-04	1.9E-03	2.7E-02
ITFG1	integrin alpha FG-GAP repeat containing 1	1.448	1.409	1.182	1.3E-04	1.2E-04	4.6E-02
FRMD4A	FERM domain containing 4A	1.385	1.225	1.183	1.3E-04	2.0E-03	2.6E-02
ARL4C	ADP-ribosylation factor-like 4C	1.403	1.190	1.211	1.4E-04	4.5E-02	1.8E-02
LGR4	leucine-rich repeat containing G protein-coupled receptor 4	1.457	1.624	1.550	1.4E-04	3.1E-04	2.1E-04
IDS	iduronate 2-sulfatase	1.409	1.275	1.216	1.4E-04	1.0E-03	1.8E-02
GREM1	gremlin 1	1.465	1.271	1.234	1.6E-04	3.8E-02	2.1E-02
TNC	tenascin C	1.440	1.580	1.598	1.6E-04	1.8E-03	1.0E-04
CD44	CD44 molecule (Indian blood group)	1.383	1.157	1.208	1.6E-04	4.3E-03	1.7E-02
ADAMTSL1	ADAMTS-like 1	1.381	1.232	1.356	2.0E-04	8.5E-03	1.2E-03
LAMC2	laminin, gamma 2	1.395	1.392	1.292	2.3E-04	1.5E-02	4.7E-03

MGLL	monoglyceride lipase	1.432	1.222	1.396	2.4E-04	3.1E-02	1.6E-03
NRIP1	nuclear receptor interacting protein 1	1.490	1.381	1.379	2.7E-04	3.6E-04	4.1E-03
TGFBI	transforming growth factor, beta-induced, 68kDa	1.375	1.304	1.507	2.8E-04	6.3E-04	1.7E-04
MAPKAPK3	mitogen-activated protein kinase-activated protein kinase 3	1.385	1.271	1.331	2.9E-04	3.2E-03	2.6E-03
LY6K	lymphocyte antigen 6 complex, locus K	1.390	1.424	1.451	2.9E-04	1.1E-03	4.8E-04
TSPAN5	tetraspanin 5	1.407	1.382	1.406	3.0E-04	3.8E-04	1.2E-03
PRKAG2	protein kinase, AMP-activated, gamma 2 non-catalytic subunit	1.346	1.174	1.234	3.3E-04	5.9E-03	9.3E-03
PTGFR	prostaglandin F receptor (FP)	1.373	1.300	1.251	3.3E-04	2.5E-02	9.5E-03
IER3	immediate early response 3	1.400	1.120	1.338	3.5E-04	4.8E-02	3.3E-03
EDIL3	EGF-like repeats and discoidin I-like domains 3	1.614	2.276	1.456	3.7E-04	6.4E-03	5.8E-03
SEMA3D	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3D	1.478	1.336	1.303	3.9E-04	1.8E-02	1.3E-02
FOXD1	forkhead box D1	1.406	1.424	1.498	4.0E-04	1.2E-04	4.6E-04
ITGB3	integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61)	1.410	1.379	1.379	4.3E-04	1.2E-02	2.4E-03
C14orf149	chromosome 14 open reading frame 149	1.329	1.195	1.236	4.6E-04	1.4E-02	9.0E-03
CYLD	cylindromatosis (turban tumor syndrome)	1.350	1.228	1.178	4.6E-04	1.0E-03	3.9E-02
MMP14	matrix metalloproteinase 14 (membrane-inserted)	1.376	1.243	1.267	4.9E-04	1.2E-02	9.7E-03
NETO2	neuropilin (NRP) and tolloid (TLL)-like 2	1.340	1.417	1.355	5.1E-04	2.6E-04	1.4E-03
ITPRIP	inositol 1,4,5-triphosphate receptor interacting protein	1.321	1.140	1.256	5.3E-04	2.7E-03	6.0E-03
DUSP5	dual specificity phosphatase 5	1.384	1.192	1.239	5.4E-04	2.6E-02	1.8E-02
HEXB	hexosaminidase B (beta polypeptide)	1.351	1.287	1.301	5.9E-04	1.1E-03	4.4E-03
ALCAM	activated leukocyte cell adhesion molecule	1.400	1.189	1.453	6.0E-04	1.1E-03	1.0E-03
PLAUR	plasminogen activator, urokinase receptor	1.387	1.245	1.335	6.2E-04	5.0E-03	4.4E-03
MARCH3	membrane-associated ring finger (C3HC4) 3	1.357	1.205	1.590	6.5E-04	3.4E-02	1.1E-04
LOXL1	lysyl oxidase-like 1	1.457	1.354	1.701	7.1E-04	4.6E-03	2.1E-04
RRAS2	related RAS viral (r-ras) oncogene homolog 2	1.367	1.161	1.316	7.2E-04	2.6E-02	5.1E-03
PPP1R3C	protein phosphatase 1, regulatory (inhibitor) subunit 3C	1.314	1.398	1.409	7.9E-04	2.2E-03	5.6E-04
SRGN	serglycin	1.312	1.271	1.466	8.6E-04	1.0E-03	2.7E-04
DKK3	dickkopf homolog 3 (<i>Xenopus laevis</i>)	1.322	1.246	1.290	8.9E-04	4.9E-03	4.7E-03
SLC6A8	solute carrier family 6 (neurotransmitter transporter, creatine), member 8	1.433	1.195	1.392	9.1E-04	1.1E-02	4.6E-03
AFAP1	actin filament associated protein 1	1.333	1.234	1.301	9.4E-04	2.0E-03	4.8E-03

CDK7	cyclin-dependent kinase 7	1.321	1.144	1.314	9.5E-04	2.0E-02	3.4E-03
SNORD60	small nucleolar RNA, C/D box 60	1.291	1.118	1.342	9.8E-04	3.6E-02	1.2E-03
CHST15	carbohydrate (N-acetylgalactosamine 4-sulfate 6-O) sulfotransferase 15	1.299	1.261	1.324	1.1E-03	1.1E-03	2.2E-03
POPDC3	popeye domain containing 3	1.286	1.136	1.165	1.2E-03	9.3E-03	4.2E-02
ADAMTS16	ADAM metalloproteinase with thrombospondin type 1 motif, 16	1.290	1.292	1.325	1.2E-03	1.0E-02	2.0E-03
PLEKHA2	pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 2	1.313	1.194	1.212	1.3E-03	2.2E-02	2.2E-02
SNORA70	small nucleolar RNA, H/ACA box 70	1.354	1.201	1.525	1.4E-03	2.0E-02	4.5E-04
MAP1B	microtubule-associated protein 1B	1.430	1.248	1.245	1.5E-03	1.6E-03	4.3E-02
ARRDC3	arrestin domain containing 3	1.342	1.458	1.245	1.6E-03	1.0E-03	2.0E-02
HMOX2	heme oxygenase (decycling) 2	1.302	1.234	1.318	1.7E-03	3.8E-03	3.5E-03
GCNT1	glucosaminyl (N-acetyl) transferase 1, core 2	1.284	1.207	1.189	1.8E-03	1.3E-02	2.9E-02
MYO1B	myosin IB	1.305	1.227	1.248	2.1E-03	1.2E-02	1.4E-02
SLC25A37	solute carrier family 25, member 37	1.352	1.153	1.221	2.1E-03	9.0E-03	3.8E-02
RND3	Rho family GTPase 3	1.330	1.189	1.238	2.2E-03	8.5E-03	2.3E-02
PBX1	pre-B-cell leukemia homeobox 1	1.253	1.291	1.253	2.4E-03	3.1E-02	5.6E-03
ABI3BP	ABI family, member 3 (NESH) binding protein	1.393	1.755	1.676	2.4E-03	1.1E-02	3.4E-04
CAV1	caveolin 1, caveolae protein, 22kDa	1.275	1.219	1.328	2.5E-03	2.0E-02	2.4E-03
GFPT2	glutamine-fructose-6-phosphate transaminase 2	1.313	1.119	1.191	2.6E-03	4.7E-02	5.0E-02
CYP1B1	cytochrome P450, family 1, subfamily B, polypeptide 1	1.337	2.298	1.324	2.6E-03	1.2E-03	7.3E-03
PRDM8	PR domain containing 8	1.286	1.152	1.209	2.7E-03	4.4E-03	2.5E-02
TNFRSF12A	tumor necrosis factor receptor superfamily, member 12A	1.301	1.182	1.346	2.8E-03	6.0E-04	3.3E-03
ITGA5	integrin, alpha 5 (fibronectin receptor, alpha polypeptide)	1.276	1.423	1.466	2.9E-03	1.2E-04	3.9E-04
BTF3	basic transcription factor 3	1.245	1.191	1.196	3.7E-03	1.2E-02	2.1E-02
FN1	fibronectin 1	1.265	1.361	1.665	3.7E-03	1.0E-02	3.4E-05
GPA1	glycosylphosphatidylinositol anchor attachment protein 1 homolog (yeast)	1.297	1.222	1.304	3.7E-03	4.3E-03	7.0E-03
BRD7	bromodomain containing 7	1.282	1.157	1.272	3.8E-03	1.9E-02	9.2E-03
SH3BP5	SH3-domain binding protein 5 (BTK-associated)	1.241	1.147	1.281	3.8E-03	2.1E-03	3.7E-03
RPL9	ribosomal protein L9	1.244	1.126	1.316	4.2E-03	1.6E-02	2.3E-03
KIFC3	kinesin family member C3	1.246	1.158	1.329	4.2E-03	7.4E-03	2.0E-03

SMYD3	SET and MYND domain containing 3	1.290	1.300	1.338	4.3E-03	1.1E-02	4.2E-03
MGAT5B	mannosyl (alpha-1,6-)-glycoprotein beta-1,6-N-acetylglucosaminyltransferase, isozyme B	1.270	1.143	1.299	4.6E-03	2.3E-03	5.8E-03
S1PR1	sphingosine-1-phosphate receptor 1	1.235	1.293	1.209	4.8E-03	3.8E-04	1.7E-02
GARS	glycyl-tRNA synthetase	1.257	1.100	1.227	4.8E-03	1.3E-02	1.7E-02
MID1	midline 1 (Opitz/BBB syndrome)	1.233	1.493	1.401	4.9E-03	4.4E-04	5.4E-04
PLEC	plectin	1.259	1.176	1.274	4.9E-03	3.4E-03	7.6E-03
HOXB4	homeobox B4	1.271	1.161	1.309	4.9E-03	4.5E-03	5.3E-03
BUB3	budding uninhibited by benzimidazoles 3 homolog (yeast)	1.256	1.163	1.199	5.1E-03	5.1E-03	2.9E-02
TGFB11I	transforming growth factor beta 1 induced transcript 1	1.290	1.217	1.393	5.8E-03	9.0E-03	2.6E-03
LTBP3	latent transforming growth factor beta binding protein 3	1.249	1.202	1.269	6.0E-03	2.4E-03	8.0E-03
TNPO1	transportin 1	1.239	1.154	1.198	6.0E-03	7.1E-03	2.5E-02
RIN1	Ras and Rab interactor 1	1.226	1.130	1.243	6.1E-03	3.9E-03	8.3E-03
MT2A	metallothionein 2A	1.245	1.114	1.405	6.2E-03	4.6E-02	8.5E-04
ELFN2	extracellular leucine-rich repeat and fibronectin type III domain containing 2	1.240	1.121	1.229	6.4E-03	2.2E-02	1.5E-02
CETN2	centrin, EF-hand protein, 2	1.228	1.202	1.295	6.5E-03	9.4E-04	3.5E-03
ZSWIM6	zinc finger, SWIM-type containing 6	1.248	1.232	1.182	6.5E-03	1.1E-02	4.3E-02
TXNL1	thioredoxin-like 1	1.270	1.180	1.307	6.7E-03	1.9E-02	6.9E-03
LOXL2	lysyl oxidase-like 2	1.244	1.407	1.532	7.2E-03	3.8E-04	2.0E-04
SEPW1	selenoprotein W, 1	1.234	1.141	1.171	7.4E-03	2.2E-02	4.8E-02
ITGA3	integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor)	1.232	1.180	1.294	7.4E-03	4.0E-02	4.3E-03
NUDT21	nudix (nucleoside diphosphate linked moiety X)-type motif 21	1.218	1.203	1.243	7.4E-03	1.6E-02	8.2E-03
JAG1	jagged 1	1.224	1.232	1.244	7.4E-03	1.2E-02	9.3E-03
KCNIP3	Kv channel interacting protein 3, calsenilin	1.211	1.151	1.238	7.5E-03	5.4E-03	7.9E-03
SCAMP1	secretory carrier membrane protein 1	1.246	1.242	1.204	7.7E-03	2.2E-03	3.0E-02
PXN	paxillin	1.258	1.209	1.299	7.7E-03	6.5E-03	7.2E-03
SFXN3	sideroflexin 3	1.248	1.229	1.247	8.1E-03	1.2E-03	1.5E-02
RAGE	renal tumor antigen	1.240	1.129	1.179	8.1E-03	3.1E-02	4.8E-02
PLA2G15	phospholipase A2, group XV	1.265	1.127	1.308	8.1E-03	7.4E-03	7.3E-03
SDC1	syndecan 1	1.240	1.166	1.234	8.3E-03	7.6E-03	1.7E-02

CDH4	cadherin 4, type 1, R-cadherin (retinal)	1.218	1.314	1.314	8.7E-03	3.2E-02	2.7E-03
FBLIM1	filamin binding LIM protein 1	1.216	1.120	1.272	8.9E-03	3.4E-02	5.3E-03
ADAM9	ADAM metalloproteinase domain 9	1.310	1.152	1.269	9.4E-03	6.5E-03	2.9E-02
PTPRS	protein tyrosine phosphatase, receptor type, S	1.228	1.474	1.450	9.5E-03	6.4E-03	4.8E-04
ABCD1	ATP-binding cassette, sub-family D (ALD), member 1	1.235	1.171	1.263	9.6E-03	1.5E-02	1.0E-02
ST6GALNAC5	ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 5	1.208	1.415	1.400	9.8E-03	3.0E-02	5.6E-04
BCAP31	B-cell receptor-associated protein 31	1.230	1.176	1.321	1.0E-02	9.4E-04	3.8E-03
HYI	hydroxypyruvate isomerase (putative)	1.254	1.184	1.331	1.1E-02	3.1E-02	5.5E-03
TUSC3	tumor suppressor candidate 3	1.217	1.101	1.200	1.1E-02	3.7E-02	2.5E-02
EXOSC9	exosome component 9	1.201	1.176	1.213	1.1E-02	4.1E-03	1.5E-02
PRICKLE1	prickle homolog 1 (Drosophila)	1.214	1.639	1.397	1.2E-02	2.0E-03	9.5E-04
SLC16A2	solute carrier family 16, member 2 (monocarboxylic acid transporter 8)	1.214	1.340	1.264	1.3E-02	4.6E-03	8.3E-03
MFSD3	major facilitator superfamily domain containing 3	1.236	1.166	1.360	1.4E-02	1.6E-02	3.2E-03
UBL3	ubiquitin-like 3	1.227	1.273	1.252	1.5E-02	2.2E-02	1.6E-02
ATP6V0C	ATPase, H ⁺ transporting, lysosomal 16kDa, V0 subunit c	1.203	1.156	1.292	1.6E-02	6.3E-03	4.7E-03
SNORA64	small nucleolar RNA, H/ACA box 64	1.190	1.080	1.246	1.7E-02	4.0E-02	8.3E-03
VIM	vimentin	1.237	1.125	1.369	1.9E-02	3.6E-02	4.0E-03
NSA2	NSA2 ribosome biogenesis homolog (S. cerevisiae)	1.184	1.142	1.256	1.9E-02	2.2E-02	6.8E-03
LDOC1	leucine zipper, down-regulated in cancer 1	1.203	1.255	1.319	2.0E-02	3.2E-03	4.0E-03
LOC554202	hypothetical LOC554202	1.199	1.499	1.316	2.1E-02	6.5E-04	3.9E-03
CD63	CD63 molecule	1.201	1.155	1.325	2.1E-02	3.9E-03	3.6E-03
LMCD1	LIM and cysteine-rich domains 1	1.184	1.175	1.281	2.1E-02	1.0E-02	4.6E-03
STK17A	serine/threonine kinase 17a	1.184	1.230	1.279	2.2E-02	1.0E-03	4.9E-03
SHB	Src homology 2 domain containing adaptor protein B	1.192	1.148	1.210	2.2E-02	7.9E-03	2.3E-02
GPT2	glutamic pyruvate transaminase (alanine aminotransferase) 2	1.181	1.126	1.203	2.2E-02	2.2E-02	2.0E-02
UCHL3	ubiquitin carboxyl-terminal esterase L3 (ubiquitin thiolesterase)	1.180	1.174	1.182	2.2E-02	3.5E-02	3.1E-02
CTHF18	CTF18, chromosome transmission fidelity factor 18 homolog (S. cerevisiae)	1.193	1.116	1.228	2.2E-02	9.3E-03	1.7E-02
CNN3	calponin 3, acidic	1.208	1.162	1.277	2.2E-02	2.4E-03	9.8E-03
OPHN1	oligophrenin 1	1.184	1.184	1.167	2.2E-02	1.1E-02	4.8E-02

RIPK4	receptor-interacting serine-threonine kinase 4	1.182	1.316	1.174	2.3E-02	3.9E-02	4.0E-02
SNX18	sorting nexin 18	1.172	1.114	1.160	2.5E-02	1.9E-02	4.7E-02
ABTB2	ankyrin repeat and BTB (POZ) domain containing 2	1.179	1.130	1.206	2.6E-02	1.6E-02	2.1E-02
TMEM8A	transmembrane protein 8A	1.214	1.157	1.386	2.6E-02	3.1E-03	2.7E-03
BCAR1	breast cancer anti-estrogen resistance 1	1.192	1.113	1.235	2.7E-02	3.9E-02	1.7E-02
ACD	adrenocortical dysplasia homolog (mouse)	1.197	1.136	1.211	2.7E-02	3.4E-03	3.0E-02
JUN	jun proto-oncogene	1.174	1.139	1.267	2.7E-02	5.5E-03	6.0E-03
KLF2	Kruppel-like factor 2 (lung)	1.185	1.159	1.246	2.8E-02	4.5E-03	1.2E-02
SMTN	smoothelin	1.193	1.158	1.271	2.9E-02	4.8E-03	9.9E-03
HOXB7	homeobox B7	1.162	1.194	1.159	3.0E-02	9.3E-04	4.5E-02
FNDC4	fibronectin type III domain containing 4	1.174	1.100	1.206	3.0E-02	4.4E-02	2.1E-02
TSPAN14	tetraspanin 14	1.182	1.152	1.345	3.1E-02	4.8E-02	2.4E-03
CPNE2	copine II	1.187	1.185	1.340	3.1E-02	6.3E-03	3.2E-03
INPP5A	inositol polyphosphate-5-phosphatase, 40kDa	1.183	1.157	1.362	3.2E-02	2.3E-02	2.1E-03
EIF6	eukaryotic translation initiation factor 6	1.218	1.131	1.295	3.3E-02	3.0E-02	1.4E-02
TRAF7	TNF receptor-associated factor 7	1.195	1.138	1.241	3.5E-02	5.8E-03	2.1E-02
USP25	ubiquitin specific peptidase 25	1.182	1.218	1.278	3.6E-02	6.2E-04	8.5E-03
PARP3	poly (ADP-ribose) polymerase family, member 3	1.179	1.227	1.219	3.7E-02	1.4E-03	2.3E-02
CTSB	cathepsin B	1.178	1.180	1.286	3.8E-02	6.2E-03	7.0E-03
FOXC2	forkhead box C2 (MFH-1, mesenchyme forkhead 1)	1.189	1.149	1.243	3.8E-02	1.3E-02	2.0E-02
TNNT1	troponin T type 1 (skeletal, slow)	1.167	1.143	1.251	4.0E-02	2.5E-02	1.0E-02
CPNE7	copine VII	1.150	1.109	1.241	4.0E-02	2.6E-02	7.3E-03
DNAJA3	DnaJ (Hsp40) homolog, subfamily A, member 3	1.179	1.140	1.202	4.0E-02	3.5E-03	3.4E-02
PPP2R2D	protein phosphatase 2, regulatory subunit B, delta	1.165	1.121	1.214	4.1E-02	1.2E-02	2.0E-02
PNPLA3	patatin-like phospholipase domain containing 3	1.157	1.268	1.209	4.3E-02	3.1E-03	1.9E-02
MRPS34	mitochondrial ribosomal protein S34	1.192	1.176	1.211	4.4E-02	4.5E-03	4.3E-02
KLHL35	kelch-like 35 (Drosophila)	1.147	1.114	1.171	4.5E-02	4.4E-02	3.4E-02
DUSP7	dual specificity phosphatase 7	1.183	1.117	1.218	4.7E-02	3.4E-02	3.2E-02
FAM50A	family with sequence similarity 50, member A	1.161	1.156	1.273	4.8E-02	3.3E-03	7.0E-03
PCDHB5	protocadherin beta 5	-2.438	-1.655	-2.255	2.2E-08	3.4E-02	8.2E-07
HIST1H4F	histone cluster 1, H4f	-2.137	-1.639	-1.852	9.9E-08	2.5E-03	3.9E-06

TNFRSF11B	tumor necrosis factor receptor superfamily, member 11b	-2.181	-2.060	-2.118	1.4E-07	1.1E-03	1.9E-06
GPX7	glutathione peroxidase 7	-2.069	-1.546	-1.964	2.0E-07	1.2E-04	2.7E-06
COL1A1	collagen, type I, alpha 1	-1.973	-1.696	-1.426	2.7E-07	1.8E-03	4.3E-04
FMN2	formin 2	-1.879	-1.867	-1.805	4.7E-07	6.2E-04	4.2E-06
OLR1	oxidized low density lipoprotein (lectin-like) receptor 1	-2.267	-2.109	-1.660	5.0E-07	1.4E-02	2.1E-04
EFHD1	EF-hand domain family, member D1	-1.829	-1.289	-1.657	9.1E-07	1.7E-03	2.7E-05
PDZK1IP1	PDZK1 interacting protein 1	-1.831	-1.201	-1.565	9.9E-07	3.6E-02	8.7E-05
IFITM1	interferon induced transmembrane protein 1 (9-27)	-1.750	-1.561	-1.611	2.0E-06	1.0E-03	5.0E-05
OXTR	oxytocin receptor	-1.897	-1.668	-1.541	2.8E-06	7.0E-03	4.6E-04
EPHA4	EPH receptor A4	-1.641	-1.437	-1.573	7.0E-06	3.6E-03	8.8E-05
NEO1	neogenin 1	-1.635	-1.489	-1.732	7.7E-06	3.1E-03	1.8E-05
DIO2	deiodinase, iodothyronine, type II	-1.727	-2.124	-1.652	8.1E-06	3.8E-04	1.0E-04
YPEL1	yippee-like 1 (Drosophila)	-1.581	-1.150	-1.384	1.1E-05	1.0E-02	9.6E-04
CHRNB1	cholinergic receptor, nicotinic, beta 1 (muscle)	-1.570	-1.459	-1.276	1.3E-05	4.9E-04	5.7E-03
C4orf49	chromosome 4 open reading frame 49	-1.539	-1.245	-1.374	1.4E-05	2.8E-03	8.5E-04
PRKX	protein kinase, X-linked	-1.503	-1.674	-1.533	1.7E-05	8.1E-07	6.7E-05
TDRKH	tudor and KH domain containing	-1.625	-1.307	-1.474	1.7E-05	5.2E-03	5.6E-04
NID1	nidogen 1	-1.555	-1.396	-1.664	1.8E-05	8.0E-03	3.4E-05
PCDHB9	protocadherin beta 9	-1.508	-1.158	-1.438	1.9E-05	2.8E-02	3.3E-04
ADARB1	adenosine deaminase, RNA-specific, B1	-1.514	-1.339	-1.550	2.4E-05	1.5E-03	8.7E-05
SLC27A2	solute carrier family 27 (fatty acid transporter), member 2	-1.539	-1.523	-1.399	2.7E-05	1.4E-02	9.7E-04
SQLE	squalene epoxidase	-1.493	-1.212	-1.278	3.4E-05	3.5E-02	5.1E-03
GLUL	glutamate-ammonia ligase	-1.559	-1.991	-1.435	6.2E-05	5.5E-04	1.3E-03
TNFAIP2	tumor necrosis factor, alpha-induced protein 2	-1.523	-1.344	-1.286	6.6E-05	1.0E-02	8.4E-03
EFNA1	ephrin-A1	-1.438	-1.222	-1.323	7.9E-05	3.2E-02	2.3E-03
ANGPTL2	angiopoietin-like 2	-1.445	-1.445	-1.461	8.0E-05	1.2E-04	3.3E-04
MANSC1	MANSC domain containing 1	-1.422	-1.259	-1.597	8.0E-05	2.7E-03	3.7E-05
RARRES3	retinoic acid receptor responder (tazarotene induced) 3	-1.433	-1.157	-1.350	1.0E-04	1.5E-02	1.7E-03
PDPN	podoplanin	-1.460	-1.441	-1.578	1.1E-04	3.0E-02	1.2E-04
FBLN5	fibulin 5	-1.405	-1.115	-1.377	1.1E-04	2.2E-02	8.0E-04
IL7R	interleukin 7 receptor	-1.470	-1.371	-1.406	1.3E-04	2.4E-02	1.4E-03

SPA17	sperm autoantigenic protein 17	-1.446	-1.438	-1.423	1.4E-04	1.2E-03	8.5E-04
IFI35	interferon-induced protein 35	-1.452	-1.210	-1.205	1.4E-04	4.6E-03	3.1E-02
EPN2	epsin 2	-1.427	-1.180	-1.352	1.5E-04	4.5E-03	2.1E-03
TCF7L1	transcription factor 7-like 1 (T-cell specific, HMG-box)	-1.389	-1.184	-1.202	1.5E-04	1.3E-02	1.9E-02
RNASE4	ribonuclease, RNase A family, 4	-1.415	-1.193	-1.474	1.6E-04	8.2E-03	3.3E-04
SERTAD4	SERTA domain containing 4	-1.433	-1.420	-1.531	1.7E-04	6.5E-03	2.1E-04
ACTC1	actin, alpha, cardiac muscle 1	-1.391	-1.393	-1.288	1.7E-04	5.9E-03	4.1E-03
LYPD6	LY6/PLAUR domain containing 6	-1.411	-1.255	-1.471	1.8E-04	3.8E-02	3.5E-04
GPR160	G protein-coupled receptor 160	-1.405	-1.443	-1.332	2.2E-04	6.7E-04	2.8E-03
FBLN1	fibulin 1	-1.385	-1.233	-1.292	2.4E-04	3.6E-02	4.2E-03
FOXO4	forkhead box O4	-1.374	-1.166	-1.221	2.5E-04	4.3E-03	1.5E-02
CLGN	calmegin	-1.427	-1.417	-1.459	2.6E-04	5.1E-03	6.7E-04
BEX4	brain expressed, X-linked 4	-1.352	-1.200	-1.351	2.6E-04	5.8E-03	1.0E-03
SUSD1	sushi domain containing 1	-1.354	-1.281	-1.394	2.8E-04	3.1E-02	5.6E-04
RNF150	ring finger protein 150	-1.370	-1.250	-1.215	2.8E-04	1.3E-02	1.7E-02
SAMD12	sterile alpha motif domain containing 12	-1.548	-1.419	-1.592	3.0E-04	2.1E-02	7.5E-04
ICOSLG	inducible T-cell co-stimulator ligand	-1.409	-1.418	-1.257	3.1E-04	3.6E-04	1.2E-02
RGS7	regulator of G-protein signaling 7	-1.348	-1.261	-1.346	3.3E-04	3.9E-02	1.2E-03
GLDC	glycine dehydrogenase (decarboxylating)	-1.357	-1.422	-1.344	3.3E-04	3.2E-03	1.5E-03
CEBPD	CCAAT/enhancer binding protein (C/EBP), delta	-1.435	-1.354	-1.331	3.4E-04	8.4E-03	5.3E-03
CDON	Cdon homolog (mouse)	-1.332	-1.398	-1.565	3.6E-04	2.2E-03	4.2E-05
AMOT	angiominin	-1.333	-1.209	-1.411	3.7E-04	3.8E-02	4.0E-04
CABYR	calcium binding tyrosine-(Y)-phosphorylation regulated	-1.344	-1.190	-1.359	3.7E-04	2.8E-02	1.0E-03
C5orf32	chromosome 5 open reading frame 32	-1.434	-1.355	-1.339	4.1E-04	8.3E-03	5.3E-03
VAMP5	vesicle-associated membrane protein 5 (myobrevin)	-1.350	-1.183	-1.277	4.2E-04	8.5E-03	5.2E-03
PODXL2	podocalyxin-like 2	-1.346	-1.341	-1.335	4.3E-04	1.2E-04	1.9E-03
PLEKHA7	pleckstrin homology domain containing, family A member 7	-1.361	-1.139	-1.300	4.4E-04	1.5E-02	4.2E-03
C9orf103	chromosome 9 open reading frame 103	-1.403	-1.228	-1.402	4.5E-04	1.9E-02	1.6E-03
EIF4E3	eukaryotic translation initiation factor 4E family member 3	-1.374	-1.248	-1.439	4.5E-04	2.2E-02	6.6E-04
COL1A2	collagen, type I, alpha 2	-1.323	-1.207	-1.281	4.5E-04	2.8E-02	3.5E-03
ALDH2	aldehyde dehydrogenase 2 family (mitochondrial)	-1.364	-1.571	-1.552	5.3E-04	1.8E-04	1.5E-04

C9orf3	chromosome 9 open reading frame 3	-1.321	-1.142	-1.292	6.0E-04	1.7E-02	3.5E-03
USP18	ubiquitin specific peptidase 18	-1.351	-1.194	-1.268	6.6E-04	2.1E-02	8.5E-03
SDR42E1	short chain dehydrogenase/reductase family 42E, member 1	-1.334	-1.326	-1.305	6.8E-04	9.3E-03	3.7E-03
LDLR	low density lipoprotein receptor	-1.352	-1.187	-1.181	7.1E-04	3.9E-02	4.6E-02
C17orf28	chromosome 17 open reading frame 28	-1.316	-1.193	-1.252	7.2E-04	4.7E-03	7.3E-03
PTER	phosphotriesterase related	-1.321	-1.489	-1.460	7.2E-04	5.6E-03	3.0E-04
SHMT1	serine hydroxymethyltransferase 1 (soluble)	-1.339	-1.156	-1.322	7.9E-04	1.6E-02	3.4E-03
TTC28	tetratricopeptide repeat domain 28	-1.300	-1.344	-1.368	8.2E-04	6.4E-04	8.2E-04
FAM124A	family with sequence similarity 124A	-1.304	-1.207	-1.303	9.8E-04	1.2E-02	3.1E-03
CORO2A	coronin, actin binding protein, 2A	-1.349	-1.322	-1.295	9.8E-04	3.5E-03	6.9E-03
C9orf9	chromosome 9 open reading frame 9	-1.316	-1.113	-1.192	1.0E-03	4.8E-03	3.0E-02
FAM127C	family with sequence similarity 127, member C	-1.329	-1.386	-1.213	1.1E-03	1.4E-02	2.3E-02
ZNF641	zinc finger protein 641	-1.314	-1.257	-1.359	1.1E-03	1.9E-03	1.6E-03
INSR	insulin receptor	-1.299	-1.261	-1.345	1.2E-03	1.6E-03	1.6E-03
FAM109B	family with sequence similarity 109, member B	-1.311	-1.096	-1.235	1.2E-03	2.7E-02	1.3E-02
TMEM99	transmembrane protein 99	-1.282	-1.228	-1.244	1.2E-03	2.2E-03	7.1E-03
CNTNAP1	contactin associated protein 1	-1.307	-1.139	-1.170	1.2E-03	2.2E-02	4.8E-02
C11orf75	chromosome 11 open reading frame 75	-1.287	-1.278	-1.312	1.2E-03	2.2E-03	2.3E-03
C17orf76	chromosome 17 open reading frame 76	-1.356	-1.163	-1.263	1.4E-03	2.2E-03	1.6E-02
PARVB	parvin, beta	-1.297	-1.335	-1.190	1.4E-03	3.6E-04	3.0E-02
STAT3	signal transducer and activator of transcription 3 (acute-phase response factor)	-1.315	-1.274	-1.212	1.5E-03	1.8E-03	2.5E-02
CDK10	cyclin-dependent kinase 10	-1.294	-1.186	-1.183	1.6E-03	1.5E-03	3.5E-02
MPP7	membrane protein, palmitoylated 7 (MAGUK p55 subfamily member 7)	-1.370	-1.521	-1.289	1.7E-03	9.9E-04	1.4E-02
EZH1	enhancer of zeste homolog 1 (Drosophila)	-1.311	-1.296	-1.417	1.7E-03	1.4E-03	9.4E-04
PAIP2B	poly(A) binding protein interacting protein 2B	-1.272	-1.142	-1.292	1.8E-03	2.2E-02	3.3E-03
FANCA	Fanconi anemia, complementation group A	-1.303	-1.233	-1.239	2.1E-03	3.8E-04	1.6E-02
FLOT2	flotillin 2	-1.287	-1.170	-1.221	2.2E-03	4.0E-02	1.8E-02
ZNF618	zinc finger protein 618	-1.297	-1.123	-1.318	2.4E-03	4.8E-02	4.1E-03
ASRGL1	asparaginase like 1	-1.263	-1.232	-1.231	2.7E-03	6.5E-03	1.1E-02
MIR503	microRNA 503	-1.255	-1.192	-1.191	2.7E-03	2.1E-02	2.3E-02

USP41	ubiquitin specific peptidase 41	-1.258	-1.176	-1.251	2.8E-03	2.0E-02	7.3E-03
KIF18B	kinesin family member 18B	-1.284	-1.285	-1.266	3.0E-03	1.2E-03	9.3E-03
IRAK1BP1	interleukin-1 receptor-associated kinase 1 binding protein 1	-1.276	-1.156	-1.362	3.2E-03	5.3E-03	1.8E-03
STAT5B	signal transducer and activator of transcription 5B	-1.266	-1.296	-1.177	3.3E-03	6.4E-04	4.2E-02
RPL39L	ribosomal protein L39-like	-1.254	-1.186	-1.204	3.4E-03	1.6E-02	2.0E-02
FAM134C	family with sequence similarity 134, member C	-1.267	-1.299	-1.200	3.7E-03	1.7E-04	2.7E-02
SIAE	sialic acid acetyltransferase	-1.254	-1.188	-1.313	3.7E-03	2.4E-03	2.8E-03
NKX2-5	NK2 transcription factor related, locus 5 (Drosophila)	-1.256	-1.300	-1.187	3.8E-03	1.8E-04	3.1E-02
TMOD1	tropomodulin 1	-1.239	-1.129	-1.241	3.9E-03	2.9E-02	7.8E-03
MGC57346	hypothetical LOC401884	-1.307	-1.386	-1.279	3.9E-03	3.6E-04	1.3E-02
GPNMB	glycoprotein (transmembrane) nmb	-1.258	-1.314	-1.771	4.1E-03	1.4E-02	1.2E-05
C8orf40	chromosome 8 open reading frame 40	-1.241	-1.195	-1.184	4.2E-03	3.6E-03	2.8E-02
PTPN3	protein tyrosine phosphatase, non-receptor type 3	-1.237	-1.345	-1.589	4.2E-03	1.4E-03	3.7E-05
GALNT1	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 1 (GalNAc-T1)	-1.341	-1.749	-1.612	4.2E-03	9.7E-04	4.3E-04
GKAP1	G kinase anchoring protein 1	-1.274	-1.291	-1.361	4.2E-03	4.1E-04	2.2E-03
RALGPS1	Ral GEF with PH domain and SH3 binding motif 1	-1.239	-1.188	-1.247	4.4E-03	1.0E-03	7.5E-03
NUDCD2	NudC domain containing 2	-1.304	-1.129	-1.214	4.8E-03	3.1E-02	4.1E-02
C1orf115	chromosome 1 open reading frame 115	-1.247	-1.162	-1.180	4.8E-03	4.5E-03	3.7E-02
DHX8	DEAH (Asp-Glu-Ala-His) box polypeptide 8	-1.291	-1.289	-1.400	5.0E-03	1.4E-04	2.2E-03
CDK12	cyclin-dependent kinase 12	-1.257	-1.252	-1.350	5.4E-03	1.6E-03	2.3E-03
COX15	COX15 homolog, cytochrome c oxidase assembly protein (yeast)	-1.239	-1.233	-1.264	5.5E-03	2.0E-04	6.7E-03
GCAT	glycine C-acetyltransferase	-1.224	-1.076	-1.158	6.0E-03	3.6E-02	4.8E-02
BECN1	beclin 1, autophagy related	-1.247	-1.232	-1.252	6.2E-03	4.1E-04	1.0E-02
SLFN11	schlafen family member 11	-1.236	-1.362	-1.376	6.4E-03	2.4E-04	1.1E-03
NIPSNAP3A	nipsnap homolog 3A (C. elegans)	-1.255	-1.162	-1.306	6.7E-03	4.8E-02	5.3E-03
MARCH8	membrane-associated ring finger (C3HC4) 8	-1.272	-1.224	-1.430	6.7E-03	9.6E-04	1.2E-03
PTCH1	patched 1	-1.212	-1.180	-1.340	7.2E-03	2.1E-02	1.2E-03
MOSC2	MOCO sulphurase C-terminal domain containing 2	-1.214	-1.223	-1.348	7.4E-03	3.0E-02	1.1E-03
RNFT2	ring finger protein, transmembrane 2	-1.238	-1.160	-1.231	7.4E-03	5.1E-03	1.6E-02
FAM64A	family with sequence similarity 64, member A	-1.246	-1.190	-1.208	7.7E-03	3.5E-02	2.8E-02

PRDM5	PR domain containing 5	-1.215	-1.203	-1.266	7.8E-03	1.3E-02	5.2E-03
NKIRAS2	NFKB inhibitor interacting Ras-like 2	-1.230	-1.210	-1.175	8.0E-03	6.2E-04	4.3E-02
PPIP5K1	diphosphoinositol pentakisphosphate kinase 1	-1.216	-1.221	-1.253	8.1E-03	1.0E-03	6.9E-03
TP73	tumor protein p73	-1.224	-1.115	-1.190	8.6E-03	3.1E-02	3.0E-02
KLHL24	kelch-like 24 (Drosophila)	-1.294	-1.259	-1.454	8.6E-03	1.4E-02	2.0E-03
DNAJC7	DnaJ (Hsp40) homolog, subfamily C, member 7	-1.223	-1.402	-1.376	8.6E-03	1.7E-04	1.1E-03
PCDHB12	protocadherin beta 12	-1.208	-1.182	-1.258	8.8E-03	7.9E-03	5.6E-03
HYLS1	hydrolethalus syndrome 1	-1.222	-1.394	-1.328	8.8E-03	1.2E-03	2.4E-03
IFT20	intraflagellar transport 20 homolog (Chlamydomonas)	-1.258	-1.189	-1.209	8.9E-03	5.0E-03	3.7E-02
RNASEL	ribonuclease L (2',5'-oligoadenylate synthetase-dependent)	-1.202	-1.098	-1.252	9.1E-03	3.6E-02	5.8E-03
ABCC5	ATP-binding cassette, sub-family C (CFTR/MRP), member 5	-1.217	-1.200	-1.315	9.3E-03	7.5E-03	2.7E-03
FLJ44606	glutaredoxin-like protein YDR286C homolog	-1.211	-1.131	-1.211	9.5E-03	4.2E-02	1.7E-02
CYP27A1	cytochrome P450, family 27, subfamily A, polypeptide 1	-1.220	-1.147	-1.182	9.5E-03	1.6E-02	3.6E-02
IFNAR2	interferon (alpha, beta and omega) receptor 2	-1.208	-1.167	-1.201	9.6E-03	1.7E-02	1.9E-02
NMI	N-myc (and STAT) interactor	-1.231	-1.304	-1.245	9.7E-03	4.7E-03	1.3E-02
NBR1	neighbor of BRCA1 gene 1	-1.218	-1.267	-1.353	9.7E-03	2.9E-03	1.6E-03
HLTF	helicase-like transcription factor	-1.236	-1.153	-1.265	9.8E-03	3.4E-02	1.0E-02
ULK2	unc-51-like kinase 2 (C. elegans)	-1.218	-1.237	-1.435	9.8E-03	8.1E-03	4.8E-04
SPAG5	sperm associated antigen 5	-1.240	-1.193	-1.454	9.9E-03	1.9E-02	6.7E-04
NFATC4	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 4	-1.208	-1.103	-1.190	9.9E-03	1.5E-02	2.5E-02
COL12A1	collagen, type XII, alpha 1	-1.311	-1.261	-1.352	1.0E-02	4.8E-02	1.0E-02
RNASET2	ribonuclease T2	-1.223	-1.250	-1.364	1.1E-02	6.9E-03	1.7E-03
PLCXD1	phosphatidylinositol-specific phospholipase C, X domain containing 1	-1.208	-1.371	-1.184	1.1E-02	1.8E-04	3.1E-02
ACACA	acetyl-CoA carboxylase alpha	-1.200	-1.194	-1.385	1.1E-02	1.0E-03	6.6E-04
ADRBK2	adrenergic, beta, receptor kinase 2	-1.216	-1.261	-1.285	1.1E-02	2.6E-02	5.4E-03
FANCC	Fanconi anemia, complementation group C	-1.259	-1.134	-1.326	1.2E-02	1.1E-02	6.9E-03
TRIM59	tripartite motif containing 59	-1.363	-1.300	-1.472	1.2E-02	1.1E-03	6.3E-03
HMGCS1	3-hydroxy-3-methylglutaryl-CoA synthase 1 (soluble)	-1.234	-1.244	-1.345	1.2E-02	2.1E-02	3.3E-03
HSBP1	heat shock factor binding protein 1	-1.210	-1.166	-1.220	1.2E-02	1.7E-02	1.6E-02
FAM120AOS	family with sequence similarity 120A opposite strand	-1.191	-1.198	-1.228	1.3E-02	1.1E-03	9.4E-03

RGS3	regulator of G-protein signaling 3	-1.197	-1.120	-1.206	1.3E-02	1.4E-02	1.8E-02
GPR107	G protein-coupled receptor 107	-1.206	-1.147	-1.303	1.4E-02	4.2E-03	3.7E-03
CPPED1	calcineurin-like phosphoesterase domain containing 1	-1.195	-1.401	-1.350	1.4E-02	2.1E-03	1.2E-03
ALAD	aminolevulinic acid dehydratase	-1.220	-1.128	-1.192	1.4E-02	1.1E-02	3.9E-02
EAF2	ELL associated factor 2	-1.199	-1.202	-1.204	1.5E-02	1.4E-02	2.1E-02
IL10RB	interleukin 10 receptor, beta	-1.216	-1.136	-1.192	1.5E-02	3.6E-02	3.7E-02
ANKFY1	ankyrin repeat and FYVE domain containing 1	-1.205	-1.161	-1.390	1.5E-02	4.2E-03	9.7E-04
LARGE	like-glycosyltransferase	-1.201	-1.123	-1.184	1.5E-02	3.0E-02	3.4E-02
PCMTD1	protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 1	-1.251	-1.264	-1.369	1.6E-02	2.5E-02	4.3E-03
FAM122C	family with sequence similarity 122C	-1.197	-1.134	-1.288	1.6E-02	3.8E-02	4.2E-03
TSC1	tuberous sclerosis 1	-1.185	-1.216	-1.356	1.6E-02	1.1E-03	9.5E-04
GSTM3	glutathione S-transferase mu 3 (brain)	-1.187	-1.177	-1.226	1.6E-02	9.5E-03	1.1E-02
PPIC	peptidylprolyl isomerase C (cyclophilin C)	-1.207	-1.190	-1.310	1.6E-02	1.8E-02	4.0E-03
SCML2	sex comb on midleg-like 2 (Drosophila)	-1.243	-1.242	-1.380	1.7E-02	1.4E-03	3.5E-03
TTC12	tetratricopeptide repeat domain 12	-1.190	-1.192	-1.232	1.7E-02	1.5E-03	1.1E-02
GALNT6	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 6 (GalNAc-T6)	-1.214	-1.305	-1.260	1.7E-02	3.8E-04	1.1E-02
PHF2	PHD finger protein 2	-1.202	-1.166	-1.236	1.8E-02	2.2E-02	1.4E-02
GOSR2	golgi SNAP receptor complex member 2	-1.211	-1.286	-1.202	1.9E-02	3.6E-04	3.3E-02
CEP110	centrosomal protein 110kDa	-1.211	-1.233	-1.354	1.9E-02	6.9E-04	2.7E-03
TMEM62	transmembrane protein 62	-1.212	-1.305	-1.185	1.9E-02	7.6E-03	4.9E-02
MIRLET7F1	microRNA let-7f-1	-1.191	-1.188	-1.375	1.9E-02	5.7E-03	1.1E-03
LRRC61	leucine rich repeat containing 61	-1.181	-1.352	-1.200	1.9E-02	1.1E-03	1.9E-02
WDR31	WD repeat domain 31	-1.188	-1.159	-1.243	2.0E-02	1.8E-03	9.6E-03
DEPDC1	DEP domain containing 1	-1.255	-1.177	-1.394	2.0E-02	7.9E-03	4.3E-03
ZDBF2	zinc finger, DBF-type containing 2	-1.200	-1.246	-1.311	2.2E-02	7.3E-03	4.4E-03
TDRD7	tudor domain containing 7	-1.181	-1.228	-1.442	2.2E-02	3.0E-03	3.6E-04
APOBEC3G	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3G	-1.195	-1.218	-1.323	2.2E-02	1.2E-02	3.4E-03
MCCC1	methylcrotonoyl-CoA carboxylase 1 (alpha)	-1.198	-1.163	-1.384	2.2E-02	2.5E-02	1.4E-03
FAM102B	family with sequence similarity 102, member B	-1.259	-1.298	-1.447	2.4E-02	3.4E-02	3.3E-03

AGPHD1	aminoglycoside phosphotransferase domain containing 1	-1.170	-1.218	-1.238	2.4E-02	2.9E-03	8.1E-03
THOC1	THO complex 1	-1.188	-1.264	-1.252	2.4E-02	1.0E-03	1.0E-02
CCDC84	coiled-coil domain containing 84	-1.190	-1.169	-1.176	2.5E-02	1.4E-02	4.8E-02
VPS13A	vacuolar protein sorting 13 homolog A (<i>S. cerevisiae</i>)	-1.264	-1.316	-1.456	2.6E-02	2.8E-03	3.5E-03
CTSL2	cathepsin L2	-1.169	-1.188	-1.285	2.6E-02	4.6E-03	3.5E-03
TUBGCP3	tubulin, gamma complex associated protein 3	-1.177	-1.125	-1.282	2.6E-02	1.3E-02	4.7E-03
LIG3	ligase III, DNA, ATP-dependent	-1.185	-1.273	-1.224	2.7E-02	1.0E-03	1.8E-02
ACN9	ACN9 homolog (<i>S. cerevisiae</i>)	-1.166	-1.176	-1.167	2.8E-02	1.8E-02	3.8E-02
EFR3B	EFR3 homolog B (<i>S. cerevisiae</i>)	-1.167	-1.183	-1.165	2.8E-02	8.6E-03	4.2E-02
ZNF320	zinc finger protein 320	-1.193	-1.468	-1.235	2.9E-02	1.9E-05	1.8E-02
SC5DL	sterol-C5-desaturase (ERG3 delta-5-desaturase homolog, <i>S. cerevisiae</i>)-like	-1.238	-1.259	-1.333	2.9E-02	1.0E-02	1.0E-02
NUP214	nucleoporin 214kDa	-1.187	-1.178	-1.200	2.9E-02	1.1E-03	3.1E-02
KDM4D	lysine (K)-specific demethylase 4D	-1.168	-1.085	-1.177	3.0E-02	4.4E-02	3.3E-02
MT1F	metallothionein 1F	-1.167	-1.428	-1.173	3.1E-02	2.7E-03	3.8E-02
CDK5RAP2	CDK5 regulatory subunit associated protein 2	-1.173	-1.205	-1.410	3.1E-02	4.4E-04	6.7E-04
CHST2	carbohydrate (N-acetylglucosamine-6-O) sulfotransferase 2	-1.163	-1.161	-1.186	3.1E-02	5.6E-03	2.5E-02
CRLF3	cytokine receptor-like factor 3	-1.183	-1.199	-1.199	3.2E-02	1.1E-02	3.2E-02
CEP78	centrosomal protein 78kDa	-1.201	-1.194	-1.364	3.2E-02	3.2E-03	3.5E-03
NIPSNAP3B	nipsnap homolog 3B (<i>C. elegans</i>)	-1.171	-1.154	-1.182	3.2E-02	4.0E-03	3.5E-02
CCDC103	coiled-coil domain containing 103	-1.168	-1.132	-1.209	3.3E-02	3.0E-03	2.0E-02
SMC2	structural maintenance of chromosomes 2	-1.199	-1.190	-1.252	3.4E-02	1.9E-03	1.8E-02
BRWD1	bromodomain and WD repeat domain containing 1	-1.198	-1.171	-1.276	3.4E-02	3.1E-02	1.2E-02
ERO1LB	ERO1-like beta (<i>S. cerevisiae</i>)	-1.174	-1.223	-1.322	3.6E-02	1.2E-02	3.4E-03
WWOX	WW domain containing oxidoreductase	-1.160	-1.125	-1.181	3.6E-02	2.0E-02	3.1E-02
NBR2	neighbor of BRCA1 gene 2 (non-protein coding)	-1.166	-1.221	-1.293	3.7E-02	1.2E-03	4.2E-03
C9orf78	chromosome 9 open reading frame 78	-1.161	-1.137	-1.175	3.7E-02	6.3E-03	3.7E-02
SIM2	single-minded homolog 2 (<i>Drosophila</i>)	-1.152	-1.321	-1.170	3.9E-02	1.1E-02	3.5E-02
CDC26	cell division cycle 26 homolog (<i>S. cerevisiae</i>)	-1.155	-1.322	-1.243	4.0E-02	6.4E-03	8.3E-03
ATP9B	ATPase, class II, type 9B	-1.156	-1.100	-1.184	4.0E-02	4.2E-02	2.9E-02
SNORD42B	small nucleolar RNA, C/D box 42B	-1.171	-1.198	-1.208	4.0E-02	1.5E-02	2.6E-02

E2F5	E2F transcription factor 5, p130-binding	-1.158	-1.283	-1.254	4.0E-02	1.7E-02	7.3E-03
DHRS7B	dehydrogenase/reductase (SDR family) member 7B	-1.164	-1.096	-1.199	4.1E-02	2.0E-02	2.7E-02
ANUBL1	AN1, ubiquitin-like, homolog (<i>Xenopus laevis</i>)	-1.167	-1.449	-1.283	4.2E-02	1.9E-04	6.0E-03
C15orf42	chromosome 15 open reading frame 42	-1.150	-1.126	-1.215	4.2E-02	3.1E-02	1.3E-02
PLCB4	phospholipase C, beta 4	-1.218	-1.544	-1.485	4.3E-02	6.6E-03	1.7E-03
C2orf64	chromosome 2 open reading frame 64	-1.169	-1.128	-1.298	4.3E-02	2.1E-02	5.3E-03
WIPF2	WAS/WASL interacting protein family, member 2	-1.174	-1.128	-1.235	4.3E-02	4.3E-03	1.8E-02
MBTSP1	membrane-bound transcription factor peptidase, site 1	-1.188	-1.149	-1.221	4.3E-02	4.7E-03	3.2E-02
HEXIM1	hexamethylene bis-acetamide inducible 1	-1.160	-1.155	-1.193	4.4E-02	3.9E-03	2.9E-02
SLFN12	schlafen family member 12	-1.170	-1.274	-1.253	4.5E-02	1.4E-03	1.2E-02
TADA2A	transcriptional adaptor 2A	-1.157	-1.116	-1.166	4.5E-02	2.9E-02	4.9E-02
C10orf57	chromosome 10 open reading frame 57	-1.191	-1.078	-1.365	4.5E-02	4.0E-02	3.9E-03
NDC80	NDC80 homolog, kinetochore complex component (<i>S. cerevisiae</i>)	-1.161	-1.126	-1.213	4.6E-02	1.6E-02	2.1E-02
C9orf6	chromosome 9 open reading frame 6	-1.200	-1.213	-1.349	4.7E-02	1.0E-03	6.3E-03
PARP9	poly (ADP-ribose) polymerase family, member 9	-1.166	-1.133	-1.357	4.7E-02	3.3E-02	2.2E-03
EHHADH	enoyl-CoA, hydratase/3-hydroxyacyl CoA dehydrogenase	-1.217	-1.165	-1.347	4.7E-02	3.6E-02	9.7E-03
ZNF510	zinc finger protein 510	-1.173	-1.258	-1.288	4.7E-02	6.0E-04	7.7E-03
STAT1	signal transducer and activator of transcription 1, 91kDa	-1.158	-1.107	-1.271	4.7E-02	3.9E-02	6.5E-03
PCNT	pericentrin	-1.160	-1.129	-1.233	4.8E-02	8.6E-03	1.4E-02
PHF7	PHD finger protein 7	-1.152	-1.143	-1.261	4.8E-02	1.8E-02	6.8E-03
ZNF737	zinc finger protein 737	-1.244	-1.610	-1.539	4.8E-02	9.4E-04	2.3E-03
C1orf56	chromosome 1 open reading frame 56	-1.166	-1.203	-1.190	4.9E-02	1.1E-02	4.0E-02
TOP2A	topoisomerase (DNA) II alpha 170kDa	-1.217	-1.156	-1.382	4.9E-02	1.1E-02	6.7E-03
COPB2	coatamer protein complex, subunit beta 2 (beta prime)	-1.148	-1.130	-1.228	5.0E-02	3.0E-03	1.1E-02

16 The absolute fold changes and respective adjusted p-values < 0.05 of the 469 genes significantly altered in the same direction in cells treated with NaVO₃ for 5 weeks (V_{exp}),
 17 transformed clones (V_{clone}), and recovered cells (V_{recov}). C_{unexp} : control unexposed cells; C_{clone} : control clones.