

**Supplementary Dataset 1: Gene set enrichment analysis (GSEA) input**

<b>Gene Symbol</b>	<b>Gene name</b>	<b>Score</b>
<i>Cacna2d1</i>	calcium channel, voltage-dependent, alpha 2/delta subunit 1	1
<i>Pten</i>	phosphatase and tensin homolog (mutated in multiple advanced cancers 1)	0.8113829
<i>Rora</i>	RAR-related orphan receptor A	0.7830256
<i>Nfia</i>	nuclear factor I/A	0.77796155
<i>Plxna2</i>	plexin A2	0.7689365
<i>Rwdd4a</i>	RWD domain containing 4A	0.75700486
<i>Znf608</i>	zinc finger protein 608	0.7334024
<i>Huwe1</i>	HECT, UBA and WWE domain containing 1	0.73015225
<i>Prkg1</i>	protein kinase, cGMP-dependent, type I	0.7254574
<i>Rab39b</i>	RAB39B, member RAS oncogene family	0.71763426
<i>St3gal2</i>	ST3 beta-galactoside alpha-2,3-sialyltransferase 2	0.70345706
<i>Lpgat1</i>	lysophosphatidylglycerol acyltransferase 1	0.7029922
<i>Kcna1</i>	potassium voltage-gated channel, shaker-related subfamily, member 1 (episodic ataxia with myokymia)	0.7010396
<i>Ppp2ca</i>	protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform	0.69497764
<i>Maoa</i>	monoamine oxidase A	0.6936078
<i>Socs6</i>	suppressor of cytokine signaling 6	0.6922545
<i>Abcc5</i>	ATP-binding cassette, sub-family C (CFTR/MRP), member 5	0.6845195
<i>Hspa4</i>	heat shock 70kDa protein 4	0.6812371
<i>Dctn4</i>	dynactin 4 (p62)	0.68075943
<i>Lats2</i>	LATS, large tumor suppressor, homolog 2 (Drosophila)	0.67761165
<i>Lin7a</i>	lin-7 homolog A (C. elegans)	0.673076
<i>Itga9</i>	integrin, alpha 9	0.6707624
<i>Isoc1</i>	isochorismatase domain containing 1	0.6701377
<i>Cyfip2</i>	cytoplasmic FMR1 interacting protein 2	0.6698394
<i>Asip</i>	agouti signaling protein, nonagouti homolog (mouse)	0.6682124

<i>Trpm7</i>	transient receptor potential cation channel, subfamily M, member 7	0.66760486
<i>Srr</i>	serine racemase	0.66545975
<i>Rab11a</i>	RAB11A, member RAS oncogene family	0.66422975
<i>Ufd1l</i>	ubiquitin fusion degradation 1 like (yeast)	0.6635832
<i>Gna13</i>	guanine nucleotide binding protein (G protein), alpha 13	0.66249686
<i>Rgs7bp</i>	regulator of G-protein signalling 7 binding protein	0.6557629
<i>Sf3b1</i>	splicing factor 3b, subunit 1, 155kDa	0.65528244
<i>Dmd</i>	dystrophin (muscular dystrophy, Duchenne and Becker types)	0.65524125
<i>Meis1</i>	Meis1, myeloid ecotropic viral integration site 1 homolog (mouse)	0.6550974
<i>Ppm1h</i>	protein phosphatase 1H (PP2C domain containing)	0.6510525
<i>Eif2s1</i>	eukaryotic translation initiation factor 2, subunit 1 alpha, 35kDa	0.6508863
<i>Gnb1</i>	guanine nucleotide binding protein (G protein), beta polypeptide 1	0.6507047
<i>Akap6</i>	A kinase (PRKA) anchor protein 6	0.6506049
<i>Arih1</i>	ariadne homolog, ubiquitin-conjugating enzyme E2 binding protein, 1 (Drosophila)	0.64997816
<i>Drd1</i>	dopamine receptor D1	0.64936316
<i>Rock2</i>	Rho-associated, coiled-coil containing protein kinase 2	0.647461
<i>Slc35b4</i>	solute carrier family 35, member B4	0.64451116
<i>Slc1a2</i>	solute carrier family 1 (glial high affinity glutamate transporter), member 2	0.6440587
<i>Serpind1</i>	serpin peptidase inhibitor, clade D (heparin cofactor), member 1	0.6435454
<i>Csnk2a1</i>	casein kinase 2, alpha 1 polypeptide	0.6420975
<i>Tox</i>	thymocyte Selection Associated High Mobility Group Box	0.6377092
<i>Dnm3</i>	dynamamin 3	0.6371682
<i>Mamdc1</i>	MAM domain containing 1	0.6368402
<i>Shoc2</i>	soc-2 suppressor of clear homolog (C. elegans)	0.6358735
<i>Ppm1l</i>	protein phosphatase 1 (formerly 2C)-like	0.6358656
<i>Hivep2</i>	human immunodeficiency virus type I enhancer binding protein 2	0.63378817
<i>Ptprn2</i>	protein tyrosine phosphatase, receptor type, N polypeptide 2	0.6310899
<i>Retsat</i>	retinol saturase (all-trans-retinol 13,14-reductase)	0.63015187

<i>Cdc37l1</i>	CDC37 cell division cycle 37 homolog ( <i>S. cerevisiae</i> )-like 1	0.62986666
<i>Dusp3</i>	dual specificity phosphatase 3 (vaccinia virus phosphatase VH1-related)	0.6281375
<i>Spred1</i>	sprouty-related, EVH1 domain containing 1	0.6278613
<i>Sept6</i>	septin 6	0.6277453
<i>Wipi1</i>	WD repeat domain, phosphoinositide interacting 1	0.6266041
<i>Mapk8</i>	mitogen-activated protein kinase 8	0.626008
<i>Agbl3</i>	ATP/GTP binding protein-like 3	0.6247864
<i>Ednrb</i>	endothelin receptor type B	0.6235338
<i>Bst1</i>	bone marrow stromal cell antigen 1	0.6228918
<i>Rab6b</i>	RAB6B, member RAS oncogene family	0.6212116
<i>Papola</i>	poly(A) polymerase alpha	0.6195434
<i>Hdac2</i>	histone deacetylase 2	0.6188608
<i>Ikzf2</i>	IKAROS family zinc finger 2 (Helios)	0.6166839
<i>Cp</i>	ceruloplasmin (ferroxidase)	0.61647904
<i>Atp2b2</i>	ATPase, Ca <sup>++</sup> transporting, plasma membrane 2	0.61573386
<i>Flrt2</i>	fibronectin leucine rich transmembrane protein 2	0.6155962
<i>Prosc</i>	proline synthetase co-transcribed homolog (bacterial)	0.6147571
<i>Fgf13</i>	fibroblast growth factor 13	0.6146395
<i>Tas1r1</i>	taste receptor, type 1, member 1	0.6143873
<i>Arhgef9</i>	Cdc42 guanine nucleotide exchange factor (GEF) 9	0.614288
<i>Dhdh</i>	dihydrodiol dehydrogenase (dimeric)	0.6136845
<i>Mbd5</i>	methyl-CpG binding domain protein 5	0.61134857
<i>Hecw1</i>	HECT, C2 and WW domain containing E3 ubiquitin protein ligase 1	0.6102134
<i>Atf1</i>	activating transcription factor 1	0.60951596
<i>Nr2c2</i>	nuclear receptor subfamily 2, group C, member 2	0.6085993
<i>Npnt</i>	nephronectin	0.6077289
<i>Gabra2</i>	gamma-aminobutyric acid (GABA) A receptor, alpha 2	0.60353404
<i>Rab22a</i>	RAB22A, member RAS oncogene family	0.60346353

<i>Ppap2b</i>	phosphatidic acid phosphatase type 2B	0.6000015
<i>Igfbp5</i>	insulin-like growth factor binding protein 5	0.5991307
<i>Fbxo41</i>	F-box protein 41	0.59855306
<i>Ank3</i>	ankyrin 3, node of Ranvier (ankyrin G)	0.5981062
<i>Clu</i>	clusterin	0.59777534
<i>Zcchc14</i>	zinc finger, CCHC domain containing 14	0.597625
<i>Mak10</i>	MAK10 homolog, amino-acid N-acetyltransferase subunit, ( <i>S. cerevisiae</i> )	0.5970007
<i>Prickle1</i>	prickle homolog 1 ( <i>Drosophila</i> )	0.59474266
<i>Phf21a</i>	PHD finger protein 21A	0.5945793
<i>Cot11</i>	coactosin-like 1 ( <i>Dictyostelium</i> )	0.5943683
<i>Smurf2</i>	SMAD specific E3 ubiquitin protein ligase 2	0.59402305
<i>Ube2v2</i>	ubiquitin-conjugating enzyme E2 variant 2	0.5936125
<i>Lphn3</i>	latrophilin 3	0.59255075
<i>Ntn1</i>	netrin G1	0.592498
<i>Atp4b</i>	ATPase, H <sup>+</sup> /K <sup>+</sup> exchanging, beta polypeptide	0.59145266
<i>Brd4</i>	bromodomain containing 4	0.5912443
<i>Ccni</i>	cyclin I	0.589529
<i>Pclo</i>	piccolo (presynaptic cytomatrix protein)	0.58843756
<i>Ahr</i>	aryl hydrocarbon receptor	0.5884247
<i>Pcdh19</i>	protocadherin 19	0.5871841
<i>Centg2</i>	centaurin, gamma 2	0.5865738
<i>Rbbp4</i>	retinoblastoma binding protein 4	0.5856076
<i>Centb2</i>	centaurin, beta 2	0.58507305
<i>Fam73a</i>	family with sequence similarity 73, member A	0.5849725
<i>Ap1gbp1</i>	AP1 gamma subunit binding protein 1	0.5838481
<i>Mid1</i>	midline 1 (Opitz/BBB syndrome)	0.582864
<i>Pcd4</i>	programmed cell death 4 (neoplastic transformation inhibitor)	0.5822395
<i>Pde1c</i>	phosphodiesterase 1C, calmodulin-dependent 70kDa	0.5811356

<i>Ttc14</i>	tetratricopeptide repeat domain 14	0.57951593
<i>Agtpbp1</i>	ATP/GTP binding protein 1	0.5788386
<i>Mospd3</i>	motile sperm domain containing 3	0.57862544
<i>Ckap5</i>	cytoskeleton associated protein 5	0.5785505
<i>Tnpol</i>	transportin 1	0.5784496
<i>Rapgef6</i>	Rap guanine nucleotide exchange factor (GEF) 6	0.5783129
<i>Iqsec1</i>	IQ motif and Sec7 domain 1	0.57493365
<i>Abhd2</i>	abhydrolase domain containing 2	0.57418597
<i>Atp6v0a2</i>	ATPase, H <sup>+</sup> transporting, lysosomal V0 subunit a2	0.5740769
<i>Scn2b</i>	sodium channel, voltage-gated, type II, beta	0.573987
<i>Prm1</i>	protamine 1	0.5738855
<i>Rbm24</i>	RNA binding motif protein 24	0.5722179
<i>Cabp5</i>	calcium binding protein 5	0.57125276
<i>Gprin1</i>	G protein regulated inducer of neurite outgrowth 1	0.5710805
<i>Pcyt1b</i>	phosphate cytidyltransferase 1, choline, beta	0.57068497
<i>Cdc42</i>	cell division cycle 42 (GTP binding protein, 25kDa)	0.57005775
<i>Lims2</i>	LIM and senescent cell antigen-like domains 2	0.56877875
<i>Bcr</i>	breakpoint cluster region	0.5682669
<i>Slc17a6</i>	solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter), member 6	0.5676411
<i>Garnl1</i>	GTPase activating Rap/RanGAP domain-like 1	0.567265
<i>Syt1</i>	synaptotagmin I	0.56627923
<i>Atp6v1b2</i>	ATPase, H <sup>+</sup> transporting, lysosomal 56/58kDa, V1 subunit B2	0.56623083
<i>Dkk3</i>	dickkopf homolog 3 ( <i>Xenopus laevis</i> )	0.56619793
<i>Sdc2</i>	syndecan 2 (heparan sulfate proteoglycan 1, cell surface-associated, fibroglycan)	0.5649316
<i>Taok3</i>	TAO kinase 3	0.56475735
<i>Hip1</i>	huntingtin interacting protein 1	0.5645825
<i>Cd207</i>	CD207 molecule, langerin	0.5645186

<i>Scn2a2</i>	sodium channel, voltage-gated, type II, alpha 2	0.5644432
<i>Lrrc49</i>	leucine rich repeat containing 49	0.56265545
<i>Nin</i>	ninein (GSK3B interacting protein)	0.560915
<i>Slc6a1</i>	solute carrier family 6 (neurotransmitter transporter, GABA), member 1	0.5608463
<i>Ebf3</i>	early B-cell factor 3	0.5607813
<i>Zmat2</i>	zinc finger, matrin type 2	0.5606343
<i>Ehd3</i>	EH-domain containing 3	0.5604624
<i>Lhfp13</i>	lipoma HMGIC fusion partner-like 3	0.5593289
<i>Cpz</i>	carboxypeptidase Z	0.55883104
<i>Rp9</i>	retinitis pigmentosa 9 (autosomal dominant)	0.5588176
<i>Nf1</i>	neurofibromin 1 (neurofibromatosis, von Recklinghausen disease, Watson disease)	0.5581999
<i>Evi2b</i>	ecotropic viral integration site 2B	0.5576843
<i>Ttc3</i>	tetratricopeptide repeat domain 3	0.5563153
<i>Cntn1</i>	contactin 1	0.5562571
<i>Mulk</i>	multiple substrate lipid kinase	0.5562565
<i>Gbas</i>	glioblastoma amplified sequence	0.5559081
<i>Klf9</i>	Kruppel-like factor 9	0.55576825
<i>Gnaq</i>	guanine nucleotide binding protein (G protein), q polypeptide	0.5555788
<i>Pcdhb16</i>	protocadherin beta 16	0.5554836
<i>Gria3</i>	glutamate receptor, ionotropic, AMPA 3	0.553383
<i>Spon1</i>	spondin 1, extracellular matrix protein	0.55310893
<i>Nrd1</i>	nardilysin (N-arginine dibasic convertase)	0.553103
<i>Prkca</i>	protein kinase C, alpha	0.5511352
<i>Lrp8</i>	low density lipoprotein receptor-related protein 8, apolipoprotein e receptor	0.5502494
<i>Gp5</i>	glycoprotein V (platelet)	0.5496496
<i>Fgfr11</i>	fibroblast growth factor receptor-like 1	0.54933876
<i>Elf1</i>	E74-like factor 1 (ets domain transcription factor)	0.5491367
<i>App</i>	amyloid beta (A4) precursor protein (peptidase nexin-II, Alzheimer disease)	0.5490131

<i>Sema5a</i>	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A	0.5489051
<i>Pde10a</i>	phosphodiesterase 10A	0.5477892
<i>Hspa12a</i>	heat shock 70kDa protein 12A	0.5471911
<i>Gapdh</i>	glyceraldehyde-3-phosphate dehydrogenase	0.5442986
<i>Acad10</i>	acyl-Coenzyme A dehydrogenase family, member 10	0.54418373
<i>Ss18</i>	synovial sarcoma translocation, chromosome 18	0.54395956
<i>Map3k7ip2</i>	mitogen-activated protein kinase kinase kinase 7 interacting protein 2	0.54395133
<i>Dcbld2</i>	discoidin, CUB and LCCL domain containing 2	0.5438
<i>Cep170</i>	centrosomal protein 170kDa	0.54340655
<i>Cep350</i>	centrosomal protein 350kDa	0.5423992
<i>Gpm6b</i>	glycoprotein M6B	0.54224855
<i>Wdr48</i>	WD repeat domain 48	0.54208225
<i>Iqgap2</i>	IQ motif containing GTPase activating protein 2	0.5415114
<i>Myef2</i>	myelin expression factor 2	0.5410534
<i>Tubb2b</i>	tubulin, beta 2B	0.5404869
<i>Ralgps1</i>	Ral GEF with PH domain and SH3 binding motif 1	0.53926903
<i>Ndn</i>	necdin homolog (mouse)	0.53922683
<i>Mapk8ip2</i>	mitogen-activated protein kinase 8 interacting protein 2	0.5391337
<i>Cxadr</i>	coxsackie virus and adenovirus receptor	0.5390634
<i>Wdr37</i>	WD repeat domain 37	0.5380208
<i>Kiaa0100</i>	KIAA0100	0.5375382
<i>Rgs7</i>	regulator of G-protein signalling 7	0.53751934
<i>Tgfb2</i>	transforming growth factor, beta 2	0.5372251
<i>Prkag2</i>	protein kinase, AMP-activated, gamma 2 non-catalytic subunit	0.53552246
<i>Fkbp5</i>	FK506 binding protein 5	0.5354288
<i>C2orf3</i>	chromosome 2 open reading frame 3	0.53443074
<i>Cacnb4</i>	calcium channel, voltage-dependent, beta 4 subunit	0.534123

<i>Stox2</i>	storkhead box 2	0.5334023
<i>Mrpl38</i>	mitochondrial ribosomal protein L38	0.5333376
<i>Kcnma1</i>	potassium large conductance calcium-activated channel, subfamily M, alpha member 1	0.53323305
<i>Myt1l</i>	myelin transcription factor 1-like	0.53240305
<i>Wipi2</i>	WD repeat domain, phosphoinositide interacting 2	0.5323742
<i>Ankrd40</i>	ankyrin repeat domain 40	0.53210694
<i>Zzz3</i>	zinc finger, ZZ-type containing 3	0.5320951
<i>Ifi44</i>	interferon-induced protein 44	0.5315697
<i>Kif5c</i>	kinesin family member 5C	0.5314177
<i>Gja8</i>	gap junction protein, alpha 8, 50kDa (connexin 50)	0.53118056
<i>Dixdc1</i>	DIX domain containing 1	0.5310386
<i>Hipk2</i>	homeodomain interacting protein kinase 2	0.5307999
<i>Sema6d</i>	sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6D	0.52971804
<i>Timp3</i>	TIMP metalloproteinase inhibitor 3 (Sorsby fundus dystrophy, pseudoinflammatory)	0.5284658
<i>Gria4</i>	glutamate receptor, ionotropic, AMPA 4	0.5283188
<i>Usp47</i>	ubiquitin specific peptidase 47	0.5278402
<i>Ppp2r2c</i>	protein phosphatase 2 (formerly 2A), regulatory subunit B (PR 52), gamma isoform	0.5277759
<i>Dgkb</i>	diacylglycerol kinase, beta 90kDa	0.52771455
<i>Rorb</i>	RAR-related orphan receptor B	0.52744544
<i>Slc25a29</i>	solute carrier family 25, member 29	0.5272148
<i>Mll3</i>	myeloid/lymphoid or mixed-lineage leukemia 3	0.5267603
<i>Ero1lb</i>	ERO1-like beta ( <i>S. cerevisiae</i> )	0.5267063
<i>Ankrd6</i>	ankyrin repeat domain 6	0.526507
<i>Dusp8</i>	dual specificity phosphatase 8	0.52634543
<i>Ppm1k</i>	protein phosphatase 1K (PP2C domain containing)	0.52565247
<i>Rbj</i>	DnaJ Heat Shock Protein Family (Hsp40) Member C27	0.5253432
<i>Myo9a</i>	myosin IXA	0.5253202
<i>Dach1</i>	dachshund homolog 1 ( <i>Drosophila</i> )	0.52529263



<i>Cugbp1</i>	CUG triplet repeat, RNA binding protein 1	0.52510977
<i>Timpt2</i>	TIMP metalloproteinase inhibitor 2	0.52480847
<i>Atrn</i>	attractin	0.5238221
<i>Wwtr1</i>	WW domain containing transcription regulator 1	0.5233237
<i>Impad1</i>	inositol monophosphatase domain containing 1	0.52286583
<i>Elavl3</i>	ELAV (embryonic lethal, abnormal vision, Drosophila)-like 3 (Hu antigen C)	0.5225544
<i>Ndrg1</i>	N-myc downstream regulated gene 1	0.5222376
<i>Sema6a</i>	sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A	0.52058786
<i>Nav3</i>	neuron navigator 3	0.520453
<i>Slc12a5</i>	solute carrier family 12, (potassium-chloride transporter) member 5	0.520259
<i>Adrbk2</i>	adrenergic, beta, receptor kinase 2	0.51922274
<i>Ptprz1</i>	protein tyrosine phosphatase, receptor-type, Z polypeptide 1	0.5188738
<i>Bri3bp</i>	BRI3 binding protein	0.51868254
<i>Pde8a</i>	phosphodiesterase 8A	0.5181656
<i>Pgbd5</i>	piggyBac transposable element derived 5	0.51757115
<i>Scn1a</i>	sodium channel, voltage-gated, type I, alpha	0.51755583
<i>Cyp2d6</i>	cytochrome P450, family 2, subfamily D, polypeptide 6	0.51730037
<i>Cul3</i>	cullin 3	0.5167132
<i>Cxxc5</i>	CXXC finger 5	0.5166723
<i>Rasa4</i>	RAS p21 protein activator 4	0.5166315
<i>Elf2</i>	E74-like factor 2 (ets domain transcription factor)	0.51608485
<i>Alk</i>	anaplastic lymphoma kinase (Ki-1)	0.51552486
<i>Prepl</i>	prolyl endopeptidase-like	0.51540625
<i>Ush2a</i>	Usher syndrome 2A (autosomal recessive, mild)	0.51525944
<i>Samd5</i>	sterile alpha motif domain containing 5	0.51510775
<i>Hlcs</i>	holocarboxylase synthetase (biotin-(propionyl-Coenzyme A-carboxylase (ATP-hydrolysing)) ligase)	0.514875
<i>Hibadh</i>	3-hydroxyisobutyrate dehydrogenase	0.5146714

<i>Tubb4</i>	tubulin, beta 4	0.5145958
<i>Slc6a2</i>	solute carrier family 6 (neurotransmitter transporter, noradrenalin), member 2	0.51376957
<i>Bach1</i>	BTB and CNC homology 1, basic leucine zipper transcription factor 1	0.513672
<i>Rapgef4</i>	Rap guanine nucleotide exchange factor (GEF) 4	0.51321185
<i>Cacna2d2</i>	calcium channel, voltage-dependent, alpha 2/delta subunit 2	0.5125613
<i>Aak1</i>	AP2 associated kinase 1	0.5125063
<i>Adra2c</i>	adrenergic, alpha-2C-, receptor	0.5124152
<i>Tns1</i>	tensin 1	0.51235795
<i>Brsk1</i>	BR serine/threonine kinase 1	0.51189005
<i>Nicn1</i>	nicolin 1	0.51148826
<i>Hlf</i>	hepatic leukemia factor	0.5111144
<i>Faim2</i>	Fas apoptotic inhibitory molecule 2	0.5107862
<i>Fam49a</i>	family with sequence similarity 49, member A	0.51020765
<i>Rhobtb2</i>	Rho-related BTB domain containing 2	0.5092428
<i>Peli1</i>	pellino homolog 1 (Drosophila)	0.50905234
<i>Eno1</i>	enolase 1, (alpha)	0.50887984
<i>Dhrs8</i>	dehydrogenase/reductase (SDR family) member 8	0.5087896
<i>Slc4a8</i>	solute carrier family 4, sodium bicarbonate cotransporter, member 8	0.508766
<i>Prox1</i>	prospero-related homeobox 1	0.50837916
<i>B3galt5</i>	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 5	0.50813174
<i>Add2</i>	adducin 2 (beta)	0.50807536
<i>Gucy1b3</i>	guanylate cyclase 1, soluble, beta 3	0.50799745
<i>Thrsp</i>	thyroid hormone responsive (SPOT14 homolog, rat)	0.5079303
<i>Sfrs11</i>	splicing factor, arginine/serine-rich 11	0.5077663
<i>Lphn1</i>	latrophilin 1	0.5072617
<i>Chd4</i>	chromodomain helicase DNA binding protein 4	0.5071231
<i>Tacr3</i>	tachykinin receptor 3	0.50653714
<i>Birc6</i>	baculoviral IAP repeat-containing 6 (apollon)	0.5056976

<i>Atrx</i>	alpha thalassemia/mental retardation syndrome X-linked (RAD54 homolog, <i>S. cerevisiae</i> )	0.50568515
<i>Pcnx</i>	pecanex homolog ( <i>Drosophila</i> )	0.5055538
<i>Zbtb20</i>	zinc finger and BTB domain containing 20	0.50388116
<i>Neto2</i>	neuropilin (NRP) and tolloid (TLL)-like 2	0.5038139
<i>Pcdhac2</i>	protocadherin alpha subfamily C, 2	0.5036939
<i>Bcl7a</i>	B-cell CLL/lymphoma 7A	0.50327504
<i>Ifnar1</i>	interferon (alpha, beta and omega) receptor 1	0.50325704
<i>Chn1</i>	chimerin (chimaerin) 1	0.50313544
<i>Cpeb3</i>	cytoplasmic polyadenylation element binding protein 3	0.5029704
<i>Ube2r2</i>	ubiquitin-conjugating enzyme E2R 2	0.5028792
<i>Myo10</i>	myosin X	0.50282365
<i>Pum1</i>	pumilio homolog 1 ( <i>Drosophila</i> )	0.50211406
<i>Usp40</i>	ubiquitin specific peptidase 40	0.5018955
<i>Nedd8</i>	neural precursor cell expressed, developmentally down-regulated 8	0.5009938
<i>Larp4</i>	La ribonucleoprotein domain family, member 4	0.50009954
<i>Bmpr2</i>	bone morphogenetic protein receptor, type II (serine/threonine kinase)	0.49975163
<i>Lims1</i>	LIM and senescent cell antigen-like domains 1	0.4997469
<i>Eml5</i>	echinoderm microtubule associated protein like 5	0.4996821
<i>Tspan7</i>	tetraspanin 7	0.49959633
<i>Cpne7</i>	copine VII	0.49957192
<i>Slc26a7</i>	solute carrier family 26, member 7	0.49912298
<i>Cdh2</i>	cadherin 2, type 1, N-cadherin (neuronal)	0.49908346
<i>Plekha5</i>	pleckstrin homology domain containing, family A member 5	0.49888256
<i>Phip</i>	pleckstrin homology domain interacting protein	0.4988444
<i>Qtrtd1</i>	queueine tRNA-ribosyltransferase domain containing 1	0.49878588
<i>Dlgap1</i>	discs, large ( <i>Drosophila</i> ) homolog-associated protein 1	0.49874753
<i>Als2cr2</i>	amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 2	0.49835446

<i>Plxdc1</i>	plexin domain containing 1	0.49786496
<i>Txndc13</i>	thioredoxin domain containing 13	0.49728325
<i>Xpo4</i>	exportin 4	0.4966403
<i>Eif4e</i>	eukaryotic translation initiation factor 4E	0.49651325
<i>Lbh</i>	limb Bud And Heart Development	0.49620923
<i>Rbbp7</i>	retinoblastoma binding protein 7	0.49606216
<i>Rad23a</i>	RAD23 homolog A (S. cerevisiae)	0.49596277
<i>Cacna1a</i>	calcium channel, voltage-dependent, P/Q type, alpha 1A subunit	0.49565405
<i>Ipo8</i>	importin 8	0.4951991
<i>Pcdh7</i>	BH-protocadherin (brain-heart)	0.4950275
<i>Lsm8</i>	LSM8 homolog, U6 small nuclear RNA associated (S. cerevisiae)	0.4948816
<i>Ncald</i>	neurocalcin delta	0.4945399
<i>Elmo1</i>	engulfment and cell motility 1	0.49378815
<i>Magi3</i>	membrane associated guanylate kinase, WW and PDZ domain containing 3	0.49310267
<i>B3gat1</i>	beta-1,3-glucuronyltransferase 1 (glucuronosyltransferase P)	0.49308553
<i>Ret</i>	ret proto-oncogene (multiple endocrine neoplasia and medullary thyroid carcinoma 1, Hirschsprung disease)	0.49296066
<i>Ptpn12</i>	protein tyrosine phosphatase, non-receptor type 12	0.49286252
<i>Prkaca</i>	protein kinase, cAMP-dependent, catalytic, alpha	0.4925874
<i>Polr3f</i>	polymerase (RNA) III (DNA directed) polypeptide F, 39 kDa	0.49206063
<i>Erf</i>	Ets2 repressor factor	0.49200094
<i>Tex264</i>	testis expressed sequence 264	0.49195045
<i>Dnm1l</i>	dynamamin 1-like	0.4917293
<i>Fbxw2</i>	F-box and WD-40 domain protein 2	0.49122196
<i>Plod2</i>	procollagen-lysine, 2-oxoglutarate 5-dioxygenase 2	0.49104157
<i>Fndc3b</i>	fibronectin type III domain containing 3B	0.49067003
<i>LincR</i>	LINCR-0001	0.4906058
<i>Klf17</i>	Kruppel-like factor 17	0.4902646

<i>Tmprss3</i>	transmembrane protease, serine 3	0.48971125
<i>Sfrs12</i>	splicing factor, arginine/serine-rich 12	0.48963916
<i>Arid1a</i>	AT rich interactive domain 1A (SWI- like)	0.4895984
<i>Gabra1</i>	gamma-aminobutyric acid (GABA) A receptor, alpha 1	0.48908612
<i>Smarca5</i>	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 5	0.48885456
<i>Ogdh</i>	oxoglutarate (alpha-ketoglutarate) dehydrogenase (lipoamide)	0.4886019
<i>Wdr13</i>	WD repeat domain 13	0.48858538
<i>Wars</i>	tryptophanyl-tRNA synthetase	0.4885407
<i>Nedd4</i>	neural precursor cell expressed, developmentally down-regulated 4	0.4882091
<i>Ube2h</i>	ubiquitin-conjugating enzyme E2H (UBC8 homolog, yeast)	0.48788953
<i>Adcy3</i>	adenylate cyclase 3	0.4877911
<i>Crkl</i>	v-crk sarcoma virus CT10 oncogene homolog (avian)-like	0.48777923
<i>Lhx2</i>	LIM homeobox 2	0.4874171
<i>Nisch</i>	nischarin	0.48732957
<i>Igsf4b</i>	immunoglobulin superfamily, member 4B	0.48717055
<i>Psmf1</i>	proteasome (prosome, macropain) inhibitor subunit 1 (PI31)	0.48620573
<i>Uxs1</i>	UDP-glucuronate decarboxylase 1	0.48574725
<i>Usp13</i>	ubiquitin specific peptidase 13 (isopeptidase T-3)	0.4853218
<i>Aplp2</i>	amyloid beta (A4) precursor-like protein 2	0.48530048
<i>Cfl1</i>	cofilin 1 (non-muscle)	0.48526344
<i>Tcf4</i>	transcription factor 4	0.48510888
<i>Ptpn21</i>	protein tyrosine phosphatase, non-receptor type 21	0.48492494
<i>Plch2</i>	phospholipase C, eta 2	0.4845501
<i>Lars2</i>	leucyl-tRNA synthetase 2, mitochondrial	0.48447856
<i>Cntn2</i>	contactin 2 (axonal)	0.48445016
<i>Tfrc</i>	transferrin receptor (p90, CD71)	0.4841084
<i>Sv2a</i>	synaptic vesicle glycoprotein 2A	0.4838662

<i>Nrxn3</i>	neurexin 3	0.4836027
<i>Prkcb1</i>	protein kinase C, beta 1	0.48354918
<i>Tom1</i>	target of myb1 (chicken)	0.4835025
<i>Rutbc1</i>	RUN and TBC1 domain containing 1	0.4834265
<i>Fry</i>	furry homolog (Drosophila)	0.48329344
<i>Cdc37</i>	CDC37 cell division cycle 37 homolog (S. cerevisiae)	0.48312452
<i>Ntrk2</i>	neurotrophic tyrosine kinase, receptor, type 2	0.48299965
<i>Cdc26</i>	cell division cycle 26	0.48299265
<i>Ctsf</i>	cathepsin F	0.48225835
<i>Nudt16</i>	nudix (nucleoside diphosphate linked moiety X)-type motif 16	0.48200226
<i>Rps4x</i>	ribosomal protein S4, X-linked	0.4819959
<i>Limk1</i>	LIM domain kinase 1	0.4815402
<i>Ppm1a</i>	protein phosphatase 1A (formerly 2C), magnesium-dependent, alpha isoform	0.4814445
<i>Cald1</i>	caldesmon 1	0.48144433
<i>Syt7</i>	synaptotagmin VII	0.4813964
<i>Dab1</i>	disabled homolog 1 (Drosophila)	0.48131648
<i>Hdhd2</i>	haloacid dehalogenase-like hydrolase domain containing 2	0.48121753
<i>G3bp</i>	G3BP Stress Granule Assembly Factor 1	0.48119155
<i>Ube2d4</i>	ubiquitin-conjugating enzyme E2D 4 (putative)	0.4811297
<i>Mx2</i>	myxovirus (influenza virus) resistance 2 (mouse)	0.4809502
<i>Hgf</i>	hepatocyte growth factor (hepapoietin A; scatter factor)	0.48090583
<i>Jag1</i>	jagged 1 (Alagille syndrome)	0.48074338
<i>Tle1</i>	transducin-like enhancer of split 1 (E(sp1) homolog, Drosophila)	0.4806954
<i>Nmnat1</i>	nicotinamide nucleotide adenyltransferase 1	0.48061216
<i>Plcg1</i>	phospholipase C, gamma 1	0.48003423
<i>Vtcn1</i>	V-set domain containing T cell activation inhibitor 1	0.4791436
<i>Mpp5</i>	membrane protein, palmitoylated 5 (MAGUK p55 subfamily member 5)	0.47891802
<i>Pisd</i>	phosphatidylserine decarboxylase	0.47863495

<i>Pvrl3</i>	poliovirus receptor-related 3	0.4784849
<i>Prkar1b</i>	protein kinase, cAMP-dependent, regulatory, type I, beta	0.47843397
<i>Ssbp3</i>	single stranded DNA binding protein 3	0.47821158
<i>Stat3</i>	signal transducer and activator of transcription 3 (acute-phase response factor)	0.47801822
<i>Sncb</i>	synuclein, beta	0.47754073
<i>Elavl2</i>	ELAV (embryonic lethal, abnormal vision, Drosophila)-like 2 (Hu antigen B)	0.4773165
<i>Sort1</i>	sortilin 1	0.47689548
<i>Kcnmb2</i>	potassium large conductance calcium-activated channel, subfamily M, beta member 2	0.4766519
<i>Wdfy3</i>	WD repeat and FYVE domain containing 3	0.47653893
<i>Mcoln1</i>	mucolipin 1	0.47646663
<i>Serinc1</i>	serine incorporator 1	0.47623882
<i>Kcna4</i>	potassium voltage-gated channel, shaker-related subfamily, member 4	0.47570086
<i>Glg1</i>	golgi apparatus protein 1	0.4755007
<i>Endogl1</i>	endonuclease G-like 1	0.4753973
<i>Ddx11</i>	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 11 (CHL1-like helicase homolog, S. cerevisiae)	0.47534716
<i>Add3</i>	adducin 3 (gamma)	0.47501668
<i>Mtss1</i>	metastasis suppressor 1	0.4748915
<i>Gnao1</i>	guanine nucleotide binding protein (G protein), alpha activating activity polypeptide O	0.47486714
<i>Whsc1l1</i>	Wolf-Hirschhorn syndrome candidate 1-like 1	0.4741747
<i>Cacna1b</i>	calcium channel, voltage-dependent, L type, alpha 1B subunit	0.47396192
<i>Lpp</i>	LIM domain containing preferred translocation partner in lipoma	0.4739586
<i>Socs7</i>	suppressor of cytokine signaling 7	0.47373185
<i>Vamp2</i>	vesicle-associated membrane protein 2 (synaptobrevin 2)	0.47216824
<i>Ica1</i>	islet cell autoantigen 1, 69kDa	0.4720165
<i>Khsrp</i>	KH-type splicing regulatory protein (FUSE binding protein 2)	0.47169688
<i>Chrna4</i>	cholinergic receptor, nicotinic, alpha 4	0.47156382
<i>Cnnm2</i>	cyclin M2	0.47127876

<i>Casp9</i>	caspase 9, apoptosis-related cysteine peptidase	0.47095996
<i>Pspc1</i>	paraspeckle component 1	0.4709119
<i>Chrdl1</i>	chordin-like 1	0.4708068
<i>Aph1b</i>	anterior pharynx defective 1 homolog B (C. elegans)	0.47049
<i>Gad1</i>	glutamate decarboxylase 1 (brain, 67kDa)	0.47042787
<i>Kif3c</i>	kinesin family member 3C	0.47023046
<i>Cds2</i>	CDP-diacylglycerol synthase (phosphatidate cytidylyltransferase) 2	0.47011018
<i>Mybpc1</i>	myosin binding protein C, slow type	0.4699707
<i>Rgs2</i>	regulator of G-protein signalling 2, 24kDa	0.46979657
<i>E2f4</i>	E2F transcription factor 4, p107/p130-binding	0.4695059
<i>Tmcc1</i>	transmembrane and coiled-coil domain family 1	0.46949145
<i>Sf1</i>	splicing factor 1	0.46944016
<i>Lmbr1</i>	limb region 1 homolog (mouse)	0.46921387
<i>Ywhab</i>	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta polypeptide	0.46883464
<i>Figf</i>	fidgetin	0.46878532
<i>Ass1</i>	argininosuccinate synthetase 1	0.4687165
<i>Hbp1</i>	HMG-box transcription factor 1	0.46831626
<i>Fzd9</i>	frizzled homolog 9 (Drosophila)	0.46783194
<i>Cyb5b</i>	cytochrome b5 type B (outer mitochondrial membrane)	0.4678076
<i>Basp1</i>	brain abundant, membrane attached signal protein 1	0.4678051
<i>Ccdc128</i>	coiled-coil domain containing 128	0.46742284
<i>Zfp3612</i>	zinc finger protein 36, C3H type-like 2	0.4669028
<i>Il1rapl2</i>	interleukin 1 receptor accessory protein-like 2	0.4666821
<i>Plcb4</i>	phospholipase C, beta 4	0.46650064
<i>Actb</i>	actin, beta	0.46635824
<i>Gbp1</i>	guanylate binding protein 1, interferon-inducible, 67kDa	0.46619526
<i>Senp1</i>	SUMO1/sentrin specific peptidase 1	0.46607476



<i>Mest</i>	mesoderm specific transcript homolog (mouse)	0.46591097
<i>Fscn1</i>	fascin homolog 1, actin-bundling protein ( <i>Strongylocentrotus purpuratus</i> )	0.46584448
<i>Atic</i>	5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase	0.46578595
<i>Zhx3</i>	zinc fingers and homeoboxes 3	0.4657641
<i>Ppp1r9a</i>	protein phosphatase 1, regulatory (inhibitor) subunit 9A	0.46567702
<i>Nup205</i>	nucleoporin 205kDa	0.46554184
<i>Ncoa2</i>	nuclear receptor coactivator 2	0.465366
<i>Dtna</i>	dystrobrevin, alpha	0.465137
<i>Znrf1</i>	zinc and ring finger 1	0.46506453
<i>Btbd7</i>	BTB (POZ) domain containing 7	0.46497142
<i>Slit2</i>	slit homolog 2 ( <i>Drosophila</i> )	0.46469817
<i>Pcyt1a</i>	phosphate cytidyltransferase 1, choline, alpha	0.46457323
<i>Depdc5</i>	DEP domain containing 5	0.4645487
<i>Otub1</i>	OTU domain, ubiquitin aldehyde binding 1	0.46450558
<i>Grk1</i>	G protein-coupled receptor kinase 1	0.46443143
<i>Tnrc18</i>	trinucleotide repeat containing 18	0.4638077
<i>Lrrtm2</i>	leucine rich repeat transmembrane neuronal 2	0.46371993
<i>Gpr123</i>	G protein-coupled receptor 123	0.4637139
<i>Trim28</i>	tripartite motif-containing 28	0.46358743
<i>Tbl1x</i>	transducin (beta)-like 1X-linked	0.4633466
<i>Suv39h1</i>	suppressor of variegation 3-9 homolog 1 ( <i>Drosophila</i> )	0.46322888
<i>Dusp18</i>	dual specificity phosphatase 18	0.46280593
<i>Kcnd3</i>	potassium voltage-gated channel, Shal-related subfamily, member 3	0.46216425
<i>Phf23</i>	PHD finger protein 23	0.46216318
<i>Tmem106b</i>	transmembrane protein 106B	0.46209565
<i>Klf12</i>	Kruppel-like factor 12	0.4620436
<i>Amd1</i>	adenosylmethionine decarboxylase 1	0.46203977
<i>Xrn1</i>	5'-3' exoribonuclease 1	0.46196187

<i>Atxn7l3</i>	ataxin 7-like 3	0.46169224
<i>Auts2</i>	autism susceptibility candidate 2	0.46146464
<i>Trio</i>	triple functional domain (PTPRF interacting)	0.46141866
<i>Hdac6</i>	histone deacetylase 6	0.46094477
<i>Nktr</i>	natural killer-tumor recognition sequence	0.46087283
<i>Sumo1</i>	SMT3 suppressor of mif two 3 homolog 1 ( <i>S. cerevisiae</i> )	0.46023193
<i>Scrn1</i>	secernin 1	0.46018517
<i>Prkce</i>	protein kinase C, epsilon	0.46016932
<i>Snph</i>	syntaphilin	0.4600219
<i>Scmh1</i>	sex comb on midleg homolog 1 ( <i>Drosophila</i> )	0.459772
<i>Hcfc1</i>	host cell factor C1 (VP16-accessory protein)	0.45911106
<i>Dio2</i>	deiodinase, iodothyronine, type II	0.45827287
<i>Cited2</i>	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2	0.4582088
<i>Cfl2</i>	cofilin 2 (muscle)	0.45812973
<i>Rnf14</i>	ring finger protein 14	0.45796975
<i>Nsf</i>	N-ethylmaleimide-sensitive factor	0.45773253
<i>Echdc1</i>	enoyl Coenzyme A hydratase domain containing 1	0.45748857
<i>Punc</i>	putative neuronal cell adhesion molecule	0.45745564
<i>Ptch1</i>	patched homolog 1 ( <i>Drosophila</i> )	0.45732945
<i>Bhlhb3</i>	basic helix-loop-helix domain containing, class B, 3	0.45724604
<i>Pfkfb2</i>	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2	0.45717567
<i>Bmp2k</i>	BMP2 inducible kinase	0.45699266
<i>Ccdc75</i>	coiled-coil domain containing 75	0.45693335
<i>Ube3c</i>	ubiquitin protein ligase E3C	0.4568536
<i>Tnrc6b</i>	trinucleotide repeat containing 6B	0.4567132
<i>Kctd3</i>	potassium channel tetramerisation domain containing 3	0.45664063
<i>Fgfr1op2</i>	FGFR1 oncogene partner 2	0.45651343
<i>Kiaa0368</i>	KIAA0368	0.45648026

<i>Pik3r1</i>	phosphoinositide-3-kinase, regulatory subunit 1 (p85 alpha)	0.45637378
<i>Mapk14</i>	mitogen-activated protein kinase 14	0.45596433
<i>Maf</i>	v-maf musculoaponeurotic fibrosarcoma oncogene homolog (avian)	0.45583692
<i>Ywhaz</i>	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide	0.45542482
<i>Pak3</i>	p21 (CDKN1A)-activated kinase 3	0.45512703
<i>Srprb</i>	signal recognition particle receptor, B subunit	0.45507362
<i>Ddx19b</i>	DEAD (Asp-Glu-Ala-As) box polypeptide 19B	0.45503336
<i>Zc3h13</i>	zinc finger CCCH-type containing 13	0.45483178
<i>B4galt6</i>	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 6	0.45482582
<i>Adam22</i>	ADAM metallopeptidase domain 22	0.45476246
<i>Dact3</i>	dapper, antagonist of beta-catenin, homolog 3 ( <i>Xenopus laevis</i> )	0.45452115
<i>Nle1</i>	notchless homolog 1 ( <i>Drosophila</i> )	0.45451707
<i>Tor1b</i>	torsin family 1, member B (torsin B)	0.45415568
<i>Rnf141</i>	ring finger protein 141	0.45412582
<i>Akt3</i>	v-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma)	0.45393404
<i>Nav1</i>	neuron navigator 1	0.4539319
<i>Slc24a4</i>	solute carrier family 24 (sodium/potassium/calcium exchanger), member 4	0.4537809
<i>Luc7l2</i>	LUC7-like 2 ( <i>S. cerevisiae</i> )	0.45365995
<i>Ubr2</i>	ubiquitin protein ligase E3 component n-recogin 2	0.45308694
<i>Slc2a3</i>	solute carrier family 2 (facilitated glucose transporter), member 3	0.45297527
<i>Dpy19l1</i>	dpy-19-like 1 ( <i>C. elegans</i> )	0.452873
<i>Nr6a1</i>	nuclear receptor subfamily 6, group A, member 1	0.45267016
<i>Mynn</i>	myoneurin	0.45250463
<i>Ppp1r1b</i>	protein phosphatase 1, regulatory (inhibitor) subunit 1B (dopamine and cAMP regulated phosphoprotein, DARPP-32)	0.45247677
<i>Cpsf6</i>	cleavage and polyadenylation specific factor 6, 68kDa	0.4524403
<i>Nkx2-6</i>	NK2 transcription factor related, locus 6 ( <i>Drosophila</i> )	0.4524085
<i>Phf8</i>	PHD finger protein 8	0.45217562

<i>Pappa</i>	pregnancy-associated plasma protein A, pappalysin 1	0.45199388
<i>Kiaa0513</i>	KIAA0513	0.45193294
<i>Col4a1</i>	collagen, type IV, alpha 1	0.45178586
<i>Ubl3</i>	ubiquitin-like 3	0.45178285
<i>Ophn1</i>	oligophrenin 1	0.45136836
<i>Prrt2</i>	proline-rich transmembrane protein 2	0.45127198
<i>Adarb2</i>	adenosine deaminase, RNA-specific, B2 (RED2 homolog rat)	0.45121685
<i>Maz</i>	MYC-associated zinc finger protein (purine-binding transcription factor)	0.4510061
<i>Gss</i>	glutathione synthetase	0.45095992
<i>Fkbp1a</i>	FK506 binding protein 1A, 12kDa	0.45057634
<i>Apbb2</i>	amyloid beta (A4) precursor protein-binding, family B, member 2 (Fe65-like)	0.45050558
<i>Rtn3</i>	reticulon 3	0.45025662
<i>Nrxn1</i>	neurexin 1	0.4502457
<i>Nfic</i>	nuclear factor I/C (CCAAT-binding transcription factor)	0.44976634
<i>Ranbp5</i>	RAN binding protein 5	0.44968548
<i>Snapc3</i>	small nuclear RNA activating complex, polypeptide 3, 50kDa	0.4494639
<i>Map4k4</i>	mitogen-activated protein kinase kinase kinase kinase 4	0.44934785
<i>Rasd2</i>	RASD family, member 2	0.44921035
<i>Rgs5</i>	regulator of G-protein signalling 5	0.44913843
<i>Jazf1</i>	JAZF zinc finger 1	0.44876245
<i>Snrpn</i>	small nuclear ribonucleoprotein polypeptide N	0.44829485
<i>Slc25a12</i>	solute carrier family 25 (mitochondrial carrier, Aralar), member 12	0.448003
<i>Exoc4</i>	exocyst complex component 4	0.4479568
<i>Fnbp1</i>	formin binding protein 1	0.44777772
<i>Lhfpl4</i>	lipoma HMGIC fusion partner-like 4	0.4476757
<i>Cxcl11</i>	chemokine (C-X-C motif) ligand 11	0.4476301
<i>Cd53</i>	CD53 molecule	0.4475679
<i>Gnai1</i>	guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 1	0.4468124

<i>Dcn</i>	decorin	0.4468107
<i>Lsm11</i>	LSM11, U7 small nuclear RNA associated	0.44678116
<i>Pcdhb8</i>	protocadherin beta 8	0.4467778
<i>Odz4</i>	odz, odd Oz/ten-m homolog 4 (Drosophila)	0.44651905
<i>Tcf12</i>	transcription factor 12 (HTF4, helix-loop-helix transcription factors 4)	0.446477
<i>Atp9b</i>	ATPase, Class II, type 9B	0.44612476
<i>Negr1</i>	neuronal growth regulator 1	0.445845
<i>Mapk8ip3</i>	mitogen-activated protein kinase 8 interacting protein 3	0.44581577
<i>Fam107b</i>	family with sequence similarity 107, member B	0.44543815
<i>Ppp2r5e</i>	protein phosphatase 2, regulatory subunit B (B56), epsilon isoform	0.44504535
<i>Odz1</i>	odz, odd Oz/ten-m homolog 1(Drosophila)	0.44492805
<i>Mllt10</i>	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 10	0.44423643
<i>Prpf8</i>	PRP8 pre-mRNA processing factor 8 homolog (S. cerevisiae)	0.44418257
<i>Gabrb3</i>	gamma-aminobutyric acid (GABA) A receptor, beta 3	0.44418246
<i>Dlgap3</i>	discs, large (Drosophila) homolog-associated protein 3	0.44411373
<i>Trim44</i>	tripartite motif-containing 44	0.4436933
<i>Slain1</i>	SLAIN motif family, member 1	0.44367638
<i>Rab3gap2</i>	RAB3 GTPase activating protein subunit 2 (non-catalytic)	0.44356805
<i>Rfx2</i>	regulatory factor X, 2 (influences HLA class II expression)	0.44349378
<i>Nol6</i>	nucleolar protein family 6 (RNA-associated)	0.44347924
<i>Dpf2</i>	D4, zinc and double PHD fingers family 2	0.4433072
<i>Ap3s2</i>	adaptor-related protein complex 3, sigma 2 subunit	0.44288534
<i>Man1a2</i>	mannosidase, alpha, class 1A, member 2	0.44261888
<i>Sgce</i>	sarcoglycan, epsilon	0.44261205
<i>Gpm6a</i>	glycoprotein M6A	0.44258133
<i>Prkacb</i>	protein kinase, cAMP-dependent, catalytic, beta	0.44238436
<i>Nr1d1</i>	nuclear receptor subfamily 1, group D, member 1	0.4420873

<i>Neurl</i>	neuralized homolog (Drosophila)	0.44195715
<i>Pea15</i>	phosphoprotein enriched in astrocytes 15	0.44191054
<i>Khdrbs1</i>	KH domain containing, RNA binding, signal transduction associated 1	0.4416238
<i>Rsad2</i>	radical S-adenosyl methionine domain containing 2	0.44138426
<i>Shank1</i>	SH3 and multiple ankyrin repeat domains 1	0.44137296
<i>Inhbb</i>	inhibin, beta B (activin AB beta polypeptide)	0.44114035
<i>Utrn</i>	utrophin (homologous to dystrophin)	0.44107747
<i>Socs3</i>	suppressor of cytokine signaling 3	0.44093925
<i>Per2</i>	period homolog 2 (Drosophila)	0.4406467
<i>Fkrp</i>	fukutin related protein	0.44046548
<i>Sept3</i>	septin 3	0.4404046
<i>Bach2</i>	BTB and CNC homology 1, basic leucine zipper transcription factor 2	0.44003555
<i>Crb1</i>	crumbs homolog 1 (Drosophila)	0.43983388
<i>Ocrl</i>	oculocerebrorenal syndrome of Lowe	0.43898588
<i>Rybp</i>	RING1 and YY1 binding protein	0.43735766
<i>Spock2</i>	sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 2	0.4370995
<i>Ina</i>	internexin neuronal intermediate filament protein, alpha	0.43699864
<i>Hyou1</i>	hypoxia up-regulated 1	0.43699515
<i>Atg9a</i>	ATG9 autophagy related 9 homolog A ( <i>S. cerevisiae</i> )	0.4369223
<i>St6galnac5</i>	ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 5	0.43687686
<i>Abcd2</i>	ATP-binding cassette, sub-family D (ALD), member 2	0.43681002
<i>E2f6</i>	E2F transcription factor 6	0.43590042
<i>Hrb</i>	HIV-1 Rev binding protein	0.4356006
<i>Raly</i>	RNA binding protein, autoantigenic (hnRNP-associated with lethal yellow homolog (mouse))	0.4355898
<i>Clmn</i>	calmin (calponin-like, transmembrane)	0.43545693
<i>Gadd45b</i>	growth arrest and DNA-damage-inducible, beta	0.43531516
<i>Utp14a</i>	UTP14, U3 small nucleolar ribonucleoprotein, homolog A (yeast)	0.43512565

<i>Il17rd</i>	interleukin 17 receptor D	0.43495136
<i>Spry2</i>	sprouty homolog 2 (Drosophila)	0.4347058
<i>Aco2</i>	aconitase 2, mitochondrial	0.4346614
<i>Kctd20</i>	potassium channel tetramerisation domain containing 20	0.43461257
<i>Ncoa6ip</i>	nuclear receptor coactivator 6 interacting protein	0.43391454
<i>Smarcc1</i>	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily c, member 1	0.43363303
<i>Aff3</i>	AF4/FMR2 family, member 3	0.43354195
<i>Si</i>	sucrase-isomaltase (alpha-glucosidase)	0.43347728
<i>Paip2</i>	poly(A) binding protein interacting protein 2	0.43345603
<i>Wdr7</i>	WD repeat domain 7	0.4334203
<i>B3gnt7</i>	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 7	0.43313935
<i>Itsn1</i>	intersectin 1 (SH3 domain protein)	0.43307808
<i>Tbc1d7</i>	TBC1 domain family, member 7	0.43307742
<i>Foxl2</i>	forkhead box L2	0.43296647
<i>Mre11a</i>	MRE11 meiotic recombination 11 homolog A (S. cerevisiae)	0.43290335
<i>Hs3st2</i>	heparan sulfate (glucosamine) 3-O-sulfotransferase 2	0.43280274
<i>Zfp106</i>	zinc finger protein 106 homolog (mouse)	0.43255165
<i>Smpd3</i>	sphingomyelin phosphodiesterase 3, neutral membrane (neutral sphingomyelinase II)	0.43244284
<i>Edil3</i>	EGF-like repeats and discoidin I-like domains 3	0.4322261
<i>Sox30</i>	SRY (sex determining region Y)-box 30	0.4321535
<i>Cntnap2</i>	contactin associated protein-like 2	0.4320871
<i>Kcnab1</i>	potassium voltage-gated channel, shaker-related subfamily, beta member 1	0.43203983
<i>Epc1</i>	enhancer of polycomb homolog 1 (Drosophila)	0.4319037
<i>Olfm2</i>	olfactomedin 2	0.43187466
<i>Tbc1d20</i>	TBC1 domain family, member 20	0.43169832
<i>Cycs</i>	cytochrome c, somatic	0.43129596
<i>Flywch1</i>	FLYWCH-type zinc finger 1	0.43128106

<i>Atxn2</i>	ataxin 2	0.43120423
<i>Kcnn1</i>	potassium intermediate/small conductance calcium-activated channel, subfamily N, member 1	0.4305507
<i>Rps6kb1</i>	ribosomal protein S6 kinase, 70kDa, polypeptide 1	0.43043274
<i>Dnajb5</i>	DnaJ (Hsp40) homolog, subfamily B, member 5	0.43036377
<i>Tmod2</i>	tropomodulin 2 (neuronal)	0.43009865
<i>Centb1</i>	centaurin, beta 1	0.43006217
<i>Rab11fip4</i>	RAB11 family interacting protein 4 (class II)	0.4300291
<i>Ikzf4</i>	IKAROS family zinc finger 4 (Eos)	0.42993593
<i>Hipk1</i>	homeodomain interacting protein kinase 1	0.4293476
<i>Cbx6</i>	chromobox homolog 6	0.42920023
<i>Rad21</i>	RAD21 homolog (S. pombe)	0.42909756
<i>Tsga14</i>	testis specific, 14	0.42896554
<i>Dennd4b</i>	DENN/MADD domain containing 4B	0.42891037
<i>Pip5k2a</i>	phosphatidylinositol-4-phosphate 5-kinase, type II, alpha	0.42879188
<i>Syt11</i>	synaptotagmin XI	0.42873946
<i>Hnrpll</i>	heterogeneous nuclear ribonucleoprotein L-like	0.4286508
<i>Ddi2</i>	DDI1, DNA-damage inducible 1, homolog 2 (S. cerevisiae)	0.42861047
<i>Jarid1b</i>	jumonji, AT rich interactive domain 1B	0.42831975
<i>Ncor1</i>	nuclear receptor co-repressor 1	0.4282212
<i>Mrpl15</i>	mitochondrial ribosomal protein L15	0.4281915
<i>Uhmk1</i>	U2AF homology motif (UHM) kinase 1	0.42767426
<i>Btrc</i>	beta-transducin repeat containing	0.42733502
<i>Top1</i>	topoisomerase (DNA) I	0.42722365
<i>Prtg</i>	protogenin homolog (Gallus gallus)	0.4272079
<i>Rab15</i>	RAB, member RAS oncogene family-like 5	0.42715722
<i>Sqstm1</i>	sequestosome 1	0.4270348
<i>Ube2o</i>	ubiquitin-conjugating enzyme E2O	0.42697287



<i>Inpp5f</i>	inositol polyphosphate-5-phosphatase F	0.4269448
<i>Sertad2</i>	SERTA domain containing 2	0.42624938
<i>Ank2</i>	ankyrin 2, neuronal	0.42585713
<i>Srebf2</i>	sterol regulatory element binding transcription factor 2	0.42574063
<i>Yy1</i>	YY1 transcription factor	0.425707
<i>Epm2aip1</i>	EPM2A (laforin) interacting protein 1	0.4256971
<i>Rai1</i>	retinoic acid induced 1	0.42569065
<i>Bicd2</i>	bicaudal D homolog 2 (Drosophila)	0.4256883
<i>Ppp3cb</i>	protein phosphatase 3 (formerly 2B), catalytic subunit, beta isoform (calcineurin A beta)	0.42544338
<i>Atp2b1</i>	ATPase, Ca <sup>++</sup> transporting, plasma membrane 1	0.42500228
<i>Kcnn2</i>	potassium intermediate/small conductance calcium-activated channel, subfamily N, member 2	0.4249973
<i>Gchfr</i>	GTP cyclohydrolase I feedback regulator	0.4247932
<i>Arhgap12</i>	Rho GTPase activating protein 12	0.4247578
<i>Atxn2l</i>	ataxin 2-like	0.4245355
<i>Clic4</i>	chloride intracellular channel 4	0.42434058
<i>Nrcam</i>	neuronal cell adhesion molecule	0.42410284
<i>Lrp11</i>	low density lipoprotein receptor-related protein 11	0.42400244
<i>Kiaa1430</i>	KIAA1430	0.4237137
<i>Sacs</i>	spastic ataxia of Charlevoix-Saguenay (sacsin)	0.42370537
<i>Ugcgl1</i>	UDP-glucose ceramide glucosyltransferase-like 1	0.42352986
<i>Pomt2</i>	protein-O-mannosyltransferase 2	0.42327648
<i>Mrps9</i>	mitochondrial ribosomal protein S9	0.42323208
<i>Zmynd11</i>	zinc finger, MYND domain containing 11	0.42319244
<i>Cdk5r2</i>	cyclin-dependent kinase 5, regulatory subunit 2 (p39)	0.4231151
<i>Rasl10b</i>	RAS-like, family 10, member B	0.42309177
<i>Mysm1</i>	myb-like, SWIRM and MPN domains 1	0.42297807
<i>Ube4a</i>	ubiquitination factor E4A (UFD2 homolog, yeast)	0.42284447

<i>Mpst</i>	mercaptopyruvate sulfurtransferase	0.42270797
<i>Zdhhc2</i>	zinc finger, DHHC-type containing 2	0.42239004
<i>Abcb10</i>	ATP-binding cassette, sub-family B (MDR/TAP), member 10	0.42228994
<i>Eif4ebp2</i>	eukaryotic translation initiation factor 4E binding protein 2	0.42215782
<i>Rps6ka2</i>	ribosomal protein S6 kinase, 90kDa, polypeptide 2	0.42169094
<i>Ninj1</i>	ninjurin 1	0.42166078
<i>Arhgef12</i>	Rho guanine nucleotide exchange factor (GEF) 12	0.42156604
<i>Sp4</i>	Sp4 transcription factor	0.42141938
<i>Cugbp2</i>	CUG triplet repeat, RNA binding protein 2	0.42122775
<i>Atp2a2</i>	ATPase, Ca <sup>++</sup> transporting, cardiac muscle, slow twitch 2	0.4210533
<i>Tmed8</i>	transmembrane emp24 protein transport domain containing 8	0.4210326
<i>Epm2a</i>	epilepsy, progressive myoclonus type 2A, Lafora disease (laforin)	0.42101428
<i>Rps14</i>	ribosomal protein S14	0.42067033
<i>Napb</i>	N-ethylmaleimide-sensitive factor attachment protein, beta	0.42057532
<i>Ubqln2</i>	ubiquilin 2	0.41981262
<i>Dbh</i>	dopamine beta-hydroxylase (dopamine beta-monoxygenase)	0.41953993
<i>Glr1</i>	glycine receptor, alpha 1 (startle disease/hyperekplexia, stiff man syndrome)	0.41934645
<i>Ero1l</i>	ERO1-like ( <i>S. cerevisiae</i> )	0.4192565
<i>Zfpm2</i>	zinc finger protein, multitype 2	0.4191488
<i>Ubap1</i>	ubiquitin associated protein 1	0.4191476
<i>Slc30a3</i>	solute carrier family 30 (zinc transporter), member 3	0.41894534
<i>Impact</i>	Impact homolog (mouse)	0.4188825
<i>Ube3a</i>	ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Angelman syndrome)	0.4188642
<i>Fam120b</i>	family with sequence similarity 120B	0.41884232
<i>Kcnh3</i>	potassium voltage-gated channel, subfamily H (eag-related), member 3	0.41849902
<i>Rassf4</i>	Ras association (RalGDS/AF-6) domain family 4	0.4182733
<i>Cep76</i>	centrosomal protein 76kDa	0.41805243

<i>Sdk2</i>	sidekick homolog 2 (chicken)	0.41768512
<i>Frmd4b</i>	FERM domain containing 4B	0.41755453
<i>Ctrb1</i>	chymotrypsinogen B1	0.41742107
<i>Gria1</i>	glutamate receptor, ionotropic, AMPA 1	0.41739064
<i>Rai17</i>	retinoic acid induced 17	0.4173208
<i>Tnrc9</i>	trinucleotide repeat containing 9	0.41731483
<i>Rnf130</i>	ring finger protein 130	0.41723034
<i>Obfc2b</i>	oligonucleotide/oligosaccharide-binding fold containing 2B	0.4170463
<i>Wdr35</i>	WD repeat domain 35	0.41698837
<i>Tspan2</i>	tetraspanin 2	0.41695082
<i>Nid1</i>	nidogen 1	0.41676545
<i>Ppp2r5c</i>	protein phosphatase 2, regulatory subunit B (B56), gamma isoform	0.41652745
<i>Crybb1</i>	crystallin, beta B1	0.41650724
<i>Rhobtb3</i>	Rho-related BTB domain containing 3	0.4163563
<i>Git1</i>	G protein-coupled receptor kinase interactor 1	0.41629252
<i>Abhd6</i>	abhydrolase domain containing 6	0.41626665
<i>Osmr</i>	oncostatin M receptor	0.41626638
<i>Klhl8</i>	kelch-like 8 (Drosophila)	0.41622692
<i>Cmtm5</i>	CKLF-like MARVEL transmembrane domain containing 5	0.4160059
<i>Dot1l</i>	DOT1-like, histone H3 methyltransferase ( <i>S. cerevisiae</i> )	0.41597316
<i>Leprel1</i>	leprecan-like 1	0.4159541
<i>Pex11b</i>	peroxisomal biogenesis factor 11B	0.41588247
<i>Nmt2</i>	N-myristoyltransferase 2	0.41565156
<i>Lpin2</i>	lipin 2	0.41544402
<i>Kcnj3</i>	potassium inwardly-rectifying channel, subfamily J, member 3	0.41525254
<i>Trpm2</i>	transient receptor potential cation channel, subfamily M, member 2	0.41506392
<i>Rai14</i>	retinoic acid induced 14	0.41502434
<i>Vstm2</i>	V-set and transmembrane domain containing 2	0.41502368

<i>Vapb</i>	VAMP (vesicle-associated membrane protein)-associated protein B and C	0.41493204
<i>Fbxo21</i>	F-box protein 21	0.4148929
<i>St13</i>	suppression of tumorigenicity 13 (colon carcinoma) (Hsp70 interacting protein)	0.41469663
<i>Tll5</i>	tubulin tyrosine ligase-like family, member 5	0.41467926
<i>Reep1</i>	receptor accessory protein 1	0.41447163
<i>Trim9</i>	tripartite motif-containing 9	0.4142813
<i>Cacng3</i>	calcium channel, voltage-dependent, gamma subunit 3	0.4139596
<i>Rab10</i>	RAB10, member RAS oncogene family	0.41395137
<i>Adcy1</i>	adenylate cyclase 1 (brain)	0.41379583
<i>Sip1</i>	survival of motor neuron protein interacting protein 1	0.4137895
<i>Bzw2</i>	basic leucine zipper and W2 domains 2	0.4136796
<i>Tbl2</i>	transducin (beta)-like 2	0.41352955
<i>Gab3</i>	GRB2-associated binding protein 3	0.41340455
<i>Ptprk</i>	protein tyrosine phosphatase, receptor type, K	0.41321784
<i>Ece1</i>	endothelin converting enzyme 1	0.41304603
<i>Axin2</i>	axin 2 (conductin, axil)	0.4128371
<i>Pbx1</i>	pre-B-cell leukemia transcription factor 1	0.41205525
<i>Wnk2</i>	WNK lysine deficient protein kinase 2	0.41190094
<i>Cldn2</i>	claudin 2	0.41184756
<i>Zfr</i>	zinc finger RNA binding protein	0.41182655
<i>Slc23a2</i>	solute carrier family 23 (nucleobase transporters), member 2	0.41182342
<i>Pafah1b1</i>	platelet-activating factor acetylhydrolase, isoform Ib, alpha subunit 45kDa	0.41170603
<i>Ankib1</i>	ankyrin repeat and IBR domain containing 1	0.4113344
<i>Gtdc1</i>	glycosyltransferase-like domain containing 1	0.41121003
<i>Eif4g2</i>	eukaryotic translation initiation factor 4 gamma, 2	0.41102284
<i>Sphk2</i>	sphingosine kinase 2	0.41053453
<i>Alg12</i>	asparagine-linked glycosylation 12 homolog ( <i>S. cerevisiae</i> , alpha-1,6-mannosyltransferase)	0.41022444

<i>Ccnk</i>	cyclin K	0.40998486
<i>Meg3</i>	maternally expressed 3	0.40992314
<i>Metap2</i>	methionyl aminopeptidase 2	0.40962508
<i>Kif1a</i>	kinesin family member 1A	0.4095858
<i>Kcmf1</i>	potassium channel modulatory factor 1	0.40957433
<i>Cdt1</i>	chromatin licensing and DNA replication factor 1	0.40952152
<i>Pip5k1c</i>	phosphatidylinositol-4-phosphate 5-kinase, type I, gamma	0.40946504
<i>Calml</i>	calmodulin 1 (phosphorylase kinase, delta)	0.40942606
<i>Nme7</i>	non-metastatic cells 7, protein expressed in (nucleoside-diphosphate kinase)	0.4092132
<i>Phactr1</i>	phosphatase and actin regulator 1	0.4092048
<i>Stk38</i>	serine/threonine kinase 38	0.40884128
<i>Acvr2b</i>	activin A receptor, type IIB	0.4086653
<i>Atp6v0a1</i>	ATPase, H <sup>+</sup> transporting, lysosomal V0 subunit a1	0.4083688
<i>Socs5</i>	suppressor of cytokine signaling 5	0.4080707
<i>Crim1</i>	cysteine rich transmembrane BMP regulator 1 (chordin-like)	0.40803924
<i>Nr3c1</i>	nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)	0.40795097
<i>Hmg20a</i>	high-mobility group 20A	0.4076744
<i>Sfrs2</i>	splicing factor, arginine/serine-rich 2	0.40767398
<i>Tbc1d4</i>	TBC1 domain family, member 4	0.4074317
<i>Pctk2</i>	PCTAIRE protein kinase 2	0.40733618
<i>Lgals3bp</i>	lectin, galactoside-binding, soluble, 3 binding protein	0.407319
<i>Nr4a2</i>	nuclear receptor subfamily 4, group A, member 2	0.40723675
<i>Zdhhc17</i>	zinc finger, DHHC-type containing 17	0.40721554
<i>Ezh1</i>	enhancer of zeste homolog 1 (Drosophila)	0.4068211
<i>Fbxo28</i>	F-box protein 28	0.40647918
<i>Ncoa7</i>	nuclear receptor coactivator 7	0.40635434
<i>Dhx36</i>	DEAH (Asp-Glu-Ala-His) box polypeptide 36	0.406348
<i>Ibrdc2</i>	IBR domain containing 2	0.40631232

<i>Stk38l</i>	serine/threonine kinase 38 like	0.40578192
<i>Peg3</i>	paternally expressed 3	0.4056896
<i>Tmem41b</i>	transmembrane protein 41B	0.40533584
<i>Epn1</i>	epsin 1	0.40532064
<i>Rgs4</i>	regulator of G-protein signalling 4	0.40526477
<i>B3gnt1</i>	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 1	0.40488952
<i>Lman1</i>	lectin, mannose-binding, 1	0.40473872
<i>Adar</i>	adenosine deaminase, RNA-specific	0.404492
<i>Ubqln4</i>	ubiquilin 4	0.40448028
<i>Tnks2</i>	tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase 2	0.4042141
<i>Camk1d</i>	calcium/calmodulin-dependent protein kinase ID	0.4037703
<i>Siglec10</i>	sialic acid binding Ig-like lectin 10	0.40362218
<i>Elk3</i>	ELK3, ETS-domain protein (SRF accessory protein 2)	0.40356255
<i>Mbp</i>	myelin basic protein	0.40351722
<i>Tmem26</i>	transmembrane protein 26	0.40349066
<i>Gdi1</i>	GDP dissociation inhibitor 1	0.40335944
<i>Ryr3</i>	ryanodine receptor 3	0.40316936
<i>Slc39a10</i>	solute carrier family 39 (zinc transporter), member 10	0.40310478
<i>Foxj2</i>	forkhead box J2	0.40302873
<i>Chka</i>	choline kinase alpha	0.40293375
<i>Kdr</i>	kinase insert domain receptor (a type III receptor tyrosine kinase)	0.40285355
<i>Crnkl1</i>	Crn, crooked neck-like 1 (Drosophila)	0.4028021
<i>Napg</i>	N-ethylmaleimide-sensitive factor attachment protein, gamma	0.40278658
<i>Mef2a</i>	MADS box transcription enhancer factor 2, polypeptide A (myocyte enhancer factor 2A)	0.40226796
<i>Cask</i>	calcium/calmodulin-dependent serine protein kinase (MAGUK family)	0.40226722
<i>Ube2v1</i>	ubiquitin-conjugating enzyme E2 variant 1	0.40213025
<i>Sec24b</i>	SEC24 related gene family, member B (S. cerevisiae)	0.40190065

<i>Nsmce1</i>	non-SMC element 1 homolog ( <i>S. cerevisiae</i> )	-0.405423
<i>Lst1</i>	leukocyte specific transcript 1	-0.40552524
<i>PsmA6</i>	proteasome (prosome, macropain) subunit, alpha type, 6	-0.40557387
<i>Blmh</i>	bleomycin hydrolase	-0.40558288
<i>Ndufb4</i>	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 4, 15kDa	-0.40566832
<i>Rpl35</i>	ribosomal protein L35	-0.40577206
<i>Akr1b10</i>	aldo-keto reductase family 1, member B10 (aldose reductase)	-0.40583846
<i>Ankrd27</i>	ankyrin repeat domain 27 (VPS9 domain)	-0.4058626
<i>GgtA1</i>	glycoprotein, alpha-galactosyltransferase 1	-0.40596884
<i>Arf2</i>	ADP-ribosylation factor 2	-0.40600154
<i>Spint1</i>	serine peptidase inhibitor, Kunitz type 1	-0.40608183
<i>Prmt3</i>	protein arginine methyltransferase 3	-0.40615043
<i>Il15ra</i>	interleukin 15 receptor, alpha	-0.40615284
<i>TxnL5</i>	thioredoxin-like 5	-0.4062657
<i>Cox7a1</i>	cytochrome c oxidase subunit VIIa polypeptide 1 (muscle)	-0.40627852
<i>Slc25a20</i>	solute carrier family 25 (carnitine/acylcarnitine translocase), member 20	-0.4063082
<i>Fgl2</i>	fibrinogen-like 2	-0.40661338
<i>Brp44</i>	brain protein 44	-0.40669966
<i>Canx</i>	calnexin	-0.4068436
<i>Rit1</i>	Ras-like without CAAX 1	-0.40690798
<i>Fgf7</i>	fibroblast growth factor 7 (keratinocyte growth factor)	-0.40696576
<i>Pole2</i>	polymerase (DNA directed), epsilon 2 (p59 subunit)	-0.4069952
<i>Cib1</i>	calcium and integrin binding 1 (calmyrin)	-0.40704548
<i>Nupr1</i>	Nuclear Protein 1, Transcriptional Regulator	-0.40712363
<i>Scin</i>	scinderin	-0.40743306
<i>Samm50</i>	sorting and assembly machinery component 50 homolog ( <i>S. cerevisiae</i> )	-0.40764663
<i>Wwox</i>	WW domain containing oxidoreductase	-0.40768763

<i>Ywhae</i>	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide	-0.40768957
<i>Sema3d</i>	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3D	-0.4080015
<i>Ifi30</i>	interferon, gamma-inducible protein 30	-0.408493
<i>Mettl3</i>	methyltransferase like 3	-0.40851286
<i>Pitx1</i>	paired-like homeodomain transcription factor 1	-0.40867203
<i>Glcci1</i>	glucocorticoid induced transcript 1	-0.40893224
<i>Zadh2</i>	zinc binding alcohol dehydrogenase, domain containing 2	-0.4089918
<i>Slit3</i>	slit homolog 3 (Drosophila)	-0.4093624
<i>Tpp2</i>	tripeptidyl peptidase II	-0.409364
<i>Psen1</i>	presenilin 1 (Alzheimer disease 3)	-0.40968406
<i>Ifitm2</i>	interferon induced transmembrane protein 2 (1-8D)	-0.4097466
<i>Dmap1</i>	DNA methyltransferase 1 associated protein 1	-0.41006392
<i>Camk4</i>	calcium/calmodulin-dependent protein kinase IV	-0.41008803
<i>Unc45a</i>	unc-45 homolog A (C. elegans)	-0.41015396
<i>Dusp22</i>	dual specificity phosphatase 22	-0.41021493
<i>Ikkkap</i>	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase complex-associated protein	-0.41029197
<i>Lxn</i>	latexin	-0.41032475
<i>Rpa2</i>	replication protein A2, 32kDa	-0.41043252
<i>Cog5</i>	component of oligomeric golgi complex 5	-0.41051787
<i>Ptrf</i>	polymerase I and transcript release factor	-0.41070312
<i>Cidea</i>	cell death-inducing DFFA-like effector a	-0.4112304
<i>Hig2</i>	Hypoxia Inducible Lipid Droplet Associated	-0.4112929
<i>Anxa7</i>	annexin A7	-0.41137332
<i>Pms1</i>	PMS1 postmeiotic segregation increased 1 (S. cerevisiae)	-0.41159147
<i>Surf1</i>	surfeit 1	-0.4117639
<i>Cwf19l1</i>	CWF19-like 1, cell cycle control (S. pombe)	-0.41192126



<i>Rnf19</i>	ring finger protein 19	-0.41230324
<i>Mrpl24</i>	mitochondrial ribosomal protein L24	-0.41230392
<i>Arhgap5</i>	Rho GTPase activating protein 5	-0.41236213
<i>Kif23</i>	kinesin family member 23	-0.41239354
<i>Hspa4l</i>	heat shock 70kDa protein 4-like	-0.41254115
<i>P2rx7</i>	purinergic receptor P2X, ligand-gated ion channel, 7	-0.41263226
<i>Tbk1</i>	TANK-binding kinase 1	-0.4126481
<i>Pon3</i>	paraoxonase 3	-0.41282666
<i>Nola2</i>	nucleolar protein family A, member 2 (H/ACA small nucleolar RNPs)	-0.4129162
<i>Hagh</i>	hydroxyacylglutathione hydrolase	-0.41296735
<i>Sephs1</i>	selenophosphate synthetase 1	-0.4131302
<i>Prr13</i>	proline rich 13	-0.4133532
<i>Ppfbp2</i>	PTPRF interacting protein, binding protein 2 (liprin beta 2)	-0.41362178
<i>Copb2</i>	coatamer protein complex, subunit beta 2 (beta prime)	-0.41387686
<i>Arpc5l</i>	actin related protein 2/3 complex, subunit 5-like	-0.41404203
<i>Slc12a2</i>	solute carrier family 12 (sodium/potassium/chloride transporters), member 2	-0.41418418
<i>Irak1</i>	interleukin-1 receptor-associated kinase 1	-0.4143442
<i>Eftud1</i>	elongation factor Tu GTP binding domain containing 1	-0.41440424
<i>Hadhb</i>	hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit	-0.41442928
<i>Mst1r</i>	macrophage stimulating 1 receptor (c-met-related tyrosine kinase)	-0.4145283
<i>Mcm4</i>	MCM4 minichromosome maintenance deficient 4 ( <i>S. cerevisiae</i> )	-0.41466102
<i>Harsl</i>	histidyl-tRNA synthetase-like	-0.41495726
<i>Recql</i>	RecQ protein-like (DNA helicase Q1-like)	-0.41524586
<i>Myh9</i>	myosin, heavy chain 9, non-muscle	-0.41535237
<i>Gramd1c</i>	GRAM domain containing 1C	-0.41537443
<i>Thumpd3</i>	THUMP domain containing 3	-0.4154612
<i>Herc4</i>	hect domain and RLD 4	-0.41557804

<i>Rrbp1</i>	ribosome binding protein 1 homolog 180kDa (dog)	-0.41567233
<i>Nasp</i>	nuclear autoantigenic sperm protein (histone-binding)	-0.41573668
<i>Rfc5</i>	replication factor C (activator 1) 5, 36.5kDa	-0.4158033
<i>Cobl1</i>	COBL-like 1	-0.41585726
<i>Cradd</i>	CASP2 and RIPK1 domain containing adaptor with death domain	-0.4158911
<i>Pof1b</i>	premature ovarian failure, 1B	-0.41597566
<i>Eprs</i>	glutamyl-prolyl-tRNA synthetase	-0.41599202
<i>Ap1s3</i>	adaptor-related protein complex 1, sigma 3 subunit	-0.4162339
<i>Edg8</i>	endothelial differentiation, sphingolipid G-protein-coupled receptor, 8	-0.4162856
<i>Pdcd2</i>	programmed cell death 2	-0.4167443
<i>Sec11l3</i>	SEC11-like 3 ( <i>S. cerevisiae</i> )	-0.4167739
<i>Bbox1</i>	butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) 1	-0.4169121
<i>Arpc1b</i>	actin related protein 2/3 complex, subunit 1B, 41kDa	-0.4169381
<i>Foxa1</i>	forkhead box A1	-0.41719392
<i>Sh3glb1</i>	SH3-domain GRB2-like endophilin B1	-0.41729796
<i>Dnajb6</i>	DnaJ (Hsp40) homolog, subfamily B, member 6	-0.41730434
<i>Polb</i>	polymerase (DNA directed), beta	-0.41733614
<i>Pkp1</i>	plakophilin 1 (ectodermal dysplasia/skin fragility syndrome)	-0.41758636
<i>Idi1</i>	isopentenyl-diphosphate delta isomerase 1	-0.4175904
<i>Spag9</i>	sperm associated antigen 9	-0.4176374
<i>Hspa14</i>	heat shock 70kDa protein 14	-0.41803515
<i>Hspb3</i>	heat shock 27kDa protein 3	-0.41816866
<i>Chmp4b</i>	chromatin modifying protein 4B	-0.41819698
<i>Fn1</i>	fibronectin 1	-0.41826496
<i>Agr2</i>	anterior gradient 2 homolog ( <i>Xenopus laevis</i> )	-0.41841596
<i>Mrpl19</i>	mitochondrial ribosomal protein L19	-0.41849995
<i>Odc1</i>	ornithine decarboxylase 1	-0.4185273

<i>Dock11</i>	dedicator of cytokinesis 11	-0.4185301
<i>Prkch</i>	protein kinase C, eta	-0.4186158
<i>Slc28a3</i>	solute carrier family 28 (sodium-coupled nucleoside transporter), member 3	-0.41879722
<i>Mtif3</i>	Mitochondrial Translational Initiation Factor 3	-0.4188386
<i>Fdxr</i>	ferredoxin reductase	-0.41886535
<i>Pigc</i>	phosphatidylinositol glycan anchor biosynthesis, class C	-0.41888094
<i>Ltb4r2</i>	leukotriene B4 receptor 2	-0.4189384
<i>Psme4</i>	proteasome (prosome, macropain) activator subunit 4	-0.4190107
<i>Fkbp4</i>	FK506 binding protein 4, 59kDa	-0.41910508
<i>Cebpb</i>	CCAAT/enhancer binding protein (C/EBP), beta	-0.4192081
<i>Dpep1</i>	dipeptidase 1 (renal)	-0.41950583
<i>Pik3cb</i>	phosphoinositide-3-kinase, catalytic, beta polypeptide	-0.419568
<i>Fam83h</i>	family with sequence similarity 83, member H	-0.4196498
<i>Ccdc16</i>	coiled-coil domain containing 16	-0.41992944
<i>Tmem88</i>	transmembrane protein 88	-0.41996694
<i>Nola1</i>	nucleolar protein family A, member 1 (H/ACA small nucleolar RNPs)	-0.42002594
<i>Golph3</i>	golgi phosphoprotein 3 (coat-protein)	-0.4201185
<i>Ccdc28b</i>	coiled-coil domain containing 28B	-0.4202046
<i>Srd5a2l</i>	Steroid 5 Alpha-Reductase 3	-0.42038703
<i>Pde9a</i>	phosphodiesterase 9A	-0.42051607
<i>Prss23</i>	protease, serine, 23	-0.4206144
<i>Wsb2</i>	WD repeat and SOCS box-containing 2	-0.42072147
<i>Dap</i>	death-associated protein	-0.42090812
<i>Lyl1</i>	lymphoblastic leukemia derived sequence 1	-0.42093042
<i>Fam120a</i>	family with sequence similarity 120A	-0.420994
<i>Tmem2</i>	transmembrane protein 2	-0.4211528
<i>Cox15</i>	COX15 homolog, cytochrome c oxidase assembly protein (yeast)	-0.4212805
<i>Foxc2</i>	forkhead box C2 (MFH-1, mesenchyme forkhead 1)	-0.42134196

<i>Xpc</i>	xeroderma pigmentosum, complementation group C	-0.4213861
<i>Kctd9</i>	potassium channel tetramerisation domain containing 9	-0.42152208
<i>Ankrd17</i>	ankyrin repeat domain 17	-0.42176706
<i>Sox7</i>	SRY (sex determining region Y)-box 7	-0.4220478
<i>Vasn</i>	vasorin	-0.42210153
<i>Eny2</i>	enhancer of yellow 2 homolog (Drosophila)	-0.4222005
<i>Mrpl2</i>	mitochondrial ribosomal protein L2	-0.4222141
<i>Nt5c</i>	5', 3'-nucleotidase, cytosolic	-0.42234108
<i>Zcsl2</i>	zinc finger, CSL-type containing 2	-0.42243126
<i>Plekhh1</i>	pleckstrin homology domain containing, family H (with MyTH4 domain) member 1	-0.42257378
<i>Trps1</i>	trichorhinophalangeal syndrome I	-0.42261422
<i>Nexn</i>	nexilin (F actin binding protein)	-0.4226752
<i>Ripk1</i>	receptor (TNFRSF)-interacting serine-threonine kinase 1	-0.42287084
<i>Ehd1</i>	EH-domain containing 1	-0.42290407
<i>Nup85</i>	nucleoporin 85kDa	-0.42291433
<i>Slc25a5</i>	solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 5	-0.42306638
<i>Lrp16</i>	MACRO Domain Containing 1	-0.4231513
<i>Slc1a5</i>	solute carrier family 1 (neutral amino acid transporter), member 5	-0.4231544
<i>Galm</i>	galactose mutarotase (aldose 1-epimerase)	-0.4233232
<i>Polr3h</i>	polymerase (RNA) III (DNA directed) polypeptide H (22.9kD)	-0.4233528
<i>Tnip2</i>	TNFAIP3 interacting protein 2	-0.42353892
<i>Acpl</i>	acid phosphatase 1, soluble	-0.42386743
<i>Immt</i>	inner membrane protein, mitochondrial (mitofilin)	-0.42389032
<i>Gtpbp3</i>	GTP binding protein 3 (mitochondrial)	-0.42392302
<i>Rbm8a</i>	RNA binding motif protein 8A	-0.42403677
<i>Gosr2</i>	golgi SNAP receptor complex member 2	-0.4241053
<i>Txn1l</i>	thioredoxin-like 1	-0.4241964

<i>Coro1c</i>	coronin, actin binding protein, 1C	-0.42434514
<i>Kif5b</i>	kinesin family member 5B	-0.42465177
<i>Ubr1</i>	ubiquitin protein ligase E3 component n-recogin 1	-0.42473218
<i>Nmt1</i>	N-myristoyltransferase 1	-0.42484143
<i>Nudt1</i>	nudix (nucleoside diphosphate linked moiety X)-type motif 1	-0.4250508
<i>Grpel1</i>	GrpE-like 1, mitochondrial (E. coli)	-0.42517772
<i>Bet1</i>	BET1 homolog (S. cerevisiae)	-0.4251954
<i>Ndufs6</i>	NADH dehydrogenase (ubiquinone) Fe-S protein 6, 13kDa (NADH-coenzyme Q reductase)	-0.42524293
<i>Tars</i>	threonyl-tRNA synthetase	-0.42535186
<i>Zcchc6</i>	zinc finger, CCHC domain containing 6	-0.42552793
<i>Tbcc</i>	tubulin-specific chaperone c	-0.4255396
<i>Eef1d</i>	eukaryotic translation elongation factor 1 delta (guanine nucleotide exchange protein)	-0.42559433
<i>Syng2</i>	synaptogyrin 2	-0.4258508
<i>Fdx1</i>	ferredoxin 1	-0.42594153
<i>Cdca2</i>	cell division cycle associated 2	-0.42602834
<i>Mgst1</i>	microsomal glutathione S-transferase 1	-0.42606243
<i>Rnf113a</i>	ring finger protein 113A	-0.42606568
<i>Hddc2</i>	HD domain containing 2	-0.4261041
<i>Adrb2</i>	adrenergic, beta-2-, receptor, surface	-0.42627394
<i>Rnaset2</i>	ribonuclease T2	-0.42633796
<i>H2afj</i>	H2A histone family, member J	-0.4264142
<i>Pitpnc1</i>	phosphatidylinositol transfer protein, cytoplasmic 1	-0.42675588
<i>Wdr76</i>	WD repeat domain 76	-0.4267896
<i>Ncl</i>	nucleolin	-0.42680833
<i>Rabep2</i>	rabaptin, RAB GTPase binding effector protein 2	-0.42697257
<i>Strn</i>	striatin, calmodulin binding protein	-0.4271309
<i>Bnipl</i>	BCL2/adenovirus E1B 19kD interacting protein like	-0.4272819

<i>Pard6g</i>	par-6 partitioning defective 6 homolog gamma (C. elegans)	-0.42744952
<i>Ppic</i>	peptidylprolyl isomerase C (cyclophilin C)	-0.42748767
<i>Krt14</i>	keratin 14 (epidermolysis bullosa simplex, Dowling-Meara, Koebner)	-0.427537
<i>Ptges3</i>	prostaglandin E synthase 3 (cytosolic)	-0.42757618
<i>Bxdc2</i>	brix domain containing 2	-0.4277188
<i>Lrba</i>	LPS-responsive vesicle trafficking, beach and anchor containing	-0.4277775
<i>Fbxo36</i>	F-box protein 36	-0.4278525
<i>Cks2</i>	CDC28 protein kinase regulatory subunit 2	-0.42788684
<i>Rad51</i>	RAD51 homolog (RecA homolog, E. coli) (S. cerevisiae)	-0.42797703
<i>Slc26a8</i>	solute carrier family 26, member 8	-0.4279791
<i>Prpf40a</i>	PRP40 pre-mRNA processing factor 40 homolog A (yeast)	-0.42821884
<i>Rbm35b</i>	RNA binding motif protein 35B	-0.42855778
<i>Prkra</i>	protein kinase, interferon-inducible double stranded RNA dependent activator	-0.4286202
<i>Nagk</i>	N-acetylglucosamine kinase	-0.42863056
<i>Coro2a</i>	coronin, actin binding protein, 2A	-0.42881638
<i>Cul4a</i>	cullin 4A	-0.4288622
<i>Ndufc1</i>	NADH dehydrogenase (ubiquinone) 1, subcomplex unknown, 1, 6kDa	-0.42887607
<i>Hdac8</i>	histone deacetylase 8	-0.42896566
<i>Kpnb1</i>	karyopherin (importin) beta 1	-0.42942762
<i>Wdr33</i>	WD repeat domain 33	-0.42952162
<i>Nab1</i>	NGFI-A binding protein 1 (EGR1 binding protein 1)	-0.42991063
<i>Prmt1</i>	protein arginine methyltransferase 1	-0.42996472
<i>Dock9</i>	dedicator of cytokinesis 9	-0.43006346
<i>Ethe1</i>	ethylmalonic encephalopathy 1	-0.4301152
<i>Ppp1r12a</i>	protein phosphatase 1, regulatory (inhibitor) subunit 12A	-0.43018964
<i>Hnrpf</i>	heterogeneous nuclear ribonucleoprotein F	-0.430227
<i>Upk1b</i>	uroplakin 1B	-0.43041784
<i>Smad1</i>	SMAD, mothers against DPP homolog 1 (Drosophila)	-0.4304545

<i>Lyn</i>	v-yes-1 Yamaguchi sarcoma viral related oncogene homolog	-0.43058825
<i>Gpr21</i>	G protein-coupled receptor 21	-0.43090546
<i>Pigq</i>	phosphatidylinositol glycan anchor biosynthesis, class Q	-0.4309449
<i>Dus1l</i>	dihydrouridine synthase 1-like ( <i>S. cerevisiae</i> )	-0.4313694
<i>Znrf2</i>	zinc and ring finger 2	-0.4316925
<i>Cdc20</i>	CDC20 cell division cycle 20 homolog ( <i>S. cerevisiae</i> )	-0.43170956
<i>Rcl1</i>	RNA terminal phosphate cyclase-like 1	-0.43192044
<i>Arfgap3</i>	ADP-ribosylation factor GTPase activating protein 3	-0.43200436
<i>Igbp1</i>	immunoglobulin (CD79A) binding protein 1	-0.43205875
<i>Lamp1</i>	lysosomal-associated membrane protein 1	-0.43207818
<i>Nup107</i>	nucleoporin 107kDa	-0.43232307
<i>Bud31</i>	BUD31 homolog (yeast)	-0.43233413
<i>Rala</i>	v-ral simian leukemia viral oncogene homolog A (ras related)	-0.43237263
<i>Mcm7</i>	MCM7 minichromosome maintenance deficient 7 ( <i>S. cerevisiae</i> )	-0.43250617
<i>Rps6ka3</i>	ribosomal protein S6 kinase, 90kDa, polypeptide 3	-0.43252596
<i>Sh3d19</i>	SH3 Domain Containing 19	-0.43315893
<i>Blnk</i>	B-cell linker	-0.4332359
<i>Rgmb</i>	RGM domain family, member B	-0.43326068
<i>Spfh1</i>	SPFH domain family, member 1	-0.43341142
<i>Soat1</i>	sterol O-acyltransferase (acyl-Coenzyme A: cholesterol acyltransferase) 1	-0.43352285
<i>Farp2</i>	FERM, RhoGEF and pleckstrin domain protein 2	-0.43363267
<i>S100a10</i>	S100 calcium binding protein A10	-0.43381676
<i>Ccdc12</i>	coiled-coil domain containing 12	-0.43385702
<i>Uchl5</i>	ubiquitin carboxyl-terminal hydrolase L5	-0.4338943
<i>Mrps15</i>	mitochondrial ribosomal protein S15	-0.4339685
<i>Galnt4</i>	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 4 (GalNAc-T4)	-0.4340203
<i>Plekha7</i>	pleckstrin homology domain containing, family A member 7	-0.43406424

<i>Josd3</i>	Josephin domain containing 3	-0.43419534
<i>Tmprss11e</i>	transmembrane protease, serine 11E	-0.43423638
<i>Tm9sf1</i>	transmembrane 9 superfamily member 1	-0.4342897
<i>Rab24</i>	RAB24, member RAS oncogene family	-0.43457508
<i>Tmem109</i>	transmembrane protein 109	-0.43476796
<i>Nup43</i>	nucleoporin 43kDa	-0.4348357
<i>Tagln2</i>	transgelin 2	-0.43487793
<i>Safb2</i>	scaffold attachment factor B2	-0.43504643
<i>Usp36</i>	ubiquitin specific peptidase 36	-0.435128
<i>Lrrc20</i>	leucine rich repeat containing 20	-0.4353953
<i>Mettl9</i>	methyltransferase like 9	-0.4354802
<i>Gsn</i>	gelsolin (amyloidosis, Finnish type)	-0.43550542
<i>Wdr55</i>	WD repeat domain 55	-0.43565878
<i>Rab14</i>	RAB14, member RAS oncogene family	-0.4357406
<i>Pttg1ip</i>	pituitary tumor-transforming 1 interacting protein	-0.43580517
<i>Stard4</i>	START domain containing 4, sterol regulated	-0.43608296
<i>Lima1</i>	LIM domain and actin binding 1	-0.43608508
<i>Xrcc5</i>	X-ray repair complementing defective repair in Chinese hamster cells 5 (double-strand-break rejoining; Ku autoantigen, 80kDa)	-0.43629682
<i>U2af1</i>	U2 small nuclear RNA auxiliary factor 1	-0.43630952
<i>Mars</i>	methionine-tRNA synthetase	-0.4365428
<i>Trim14</i>	tripartite motif-containing 14	-0.4365569
<i>Osbp12</i>	oxysterol binding protein-like 2	-0.43671238
<i>Cep63</i>	centrosomal protein 63kDa	-0.43680373
<i>Rnf39</i>	ring finger protein 39	-0.43682384
<i>Snrpa1</i>	small nuclear ribonucleoprotein polypeptide A'	-0.43691444
<i>Kdelc2</i>	KDEL (Lys-Asp-Glu-Leu) containing 2	-0.4370227
<i>Nolc1</i>	nucleolar and coiled-body phosphoprotein 1	-0.43705267



<i>Paqr5</i>	progesterin and adipoQ receptor family member V	-0.43709978
<i>Surf2</i>	surfeit 2	-0.43716165
<i>Alg3</i>	asparagine-linked glycosylation 3 homolog (S. cerevisiae, alpha-1,3-mannosyltransferase)	-0.43731228
<i>Rbm12</i>	RNA binding motif protein 12	-0.43732524
<i>Zcchc9</i>	zinc finger, CCHC domain containing 9	-0.4375593
<i>Serpina11</i>	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 11	-0.43758327
<i>Cbll1</i>	Cas-Br-M (murine) ecotropic retroviral transforming sequence-like 1	-0.43771377
<i>Rbm35a</i>	RNA binding motif protein 35A	-0.43789148
<i>Rbbp8</i>	retinoblastoma binding protein 8	-0.43794912
<i>Smndc1</i>	survival motor neuron domain containing 1	-0.4380873
<i>Abcc4</i>	ATP-binding cassette, sub-family C (CFTR/MRP), member 4	-0.43832535
<i>Stard5</i>	START domain containing 5	-0.43849483
<i>Krt8</i>	keratin 8	-0.4385867
<i>Ing1</i>	inhibitor of growth family, member 1	-0.43862087
<i>Polr3g</i>	polymerase (RNA) III (DNA directed) polypeptide G (32kD)	-0.4386464
<i>Krt1</i>	keratin 1 (epidermolytic hyperkeratosis)	-0.4387221
<i>Rps17</i>	ribosomal protein S17	-0.43882063
<i>Ccdc101</i>	coiled-coil domain containing 101	-0.43901035
<i>Mkln1</i>	muskelin 1, intracellular mediator containing kelch motifs	-0.4391776
<i>Usp49</i>	ubiquitin specific peptidase 49	-0.43922886
<i>Uap1</i>	UDP-N-acetylglucosamine pyrophosphorylase 1	-0.43940574
<i>Nudt13</i>	nudix (nucleoside diphosphate linked moiety X)-type motif 13	-0.43955034
<i>Bcl9</i>	B-cell CLL/lymphoma 9	-0.4396146
<i>Tmpo</i>	thymopoietin	-0.43987286
<i>Ccpg1</i>	cell cycle progression 1	-0.43990153
<i>Dst</i>	dystonin	-0.44014445
<i>Polr2k</i>	polymerase (RNA) II (DNA directed) polypeptide K, 7.0kDa	-0.44043243

<i>Lrrcc1</i>	leucine rich repeat and coiled-coil domain containing 1	-0.4405496
<i>Atxn3</i>	ataxin 3	-0.44064322
<i>Htatip2</i>	HIV-1 Tat interactive protein 2, 30kDa	-0.44075665
<i>Pa2g4</i>	proliferation-associated 2G4, 38kDa	-0.4407768
<i>Nck2</i>	NCK adaptor protein 2	-0.44127774
<i>Frg1</i>	FSHD region gene 1	-0.44145554
<i>Utp15</i>	UTP15, U3 small nucleolar ribonucleoprotein, homolog ( <i>S. cerevisiae</i> )	-0.441471
<i>Elov6</i>	ELOVL family member 6, elongation of long chain fatty acids (FEN1/Elo2, SUR4/Elo3-like, yeast)	-0.44155306
<i>Aldh1a3</i>	aldehyde dehydrogenase 1 family, member A3	-0.44161022
<i>Lhpp</i>	Phospholysine Phosphohistidine Inorganic Pyrophosphate Phosphatase	-0.44175586
<i>Stoml1</i>	stomatin (EPB72)-like 1	-0.44176835
<i>Hadh2</i>	hydroxyacyl-Coenzyme A dehydrogenase, type II	-0.4418426
<i>Notch4</i>	Notch homolog 4 ( <i>Drosophila</i> )	-0.44203013
<i>Nme1</i>	non-metastatic cells 1, protein (NM23A) expressed in	-0.44214398
<i>Tlr3</i>	toll-like receptor 3	-0.44228938
<i>Hook2</i>	hook homolog 2 ( <i>Drosophila</i> )	-0.44234642
<i>Coq2</i>	coenzyme Q2 homolog, prenyltransferase (yeast)	-0.4423908
<i>Dsg2</i>	desmoglein 2	-0.4428154
<i>Rab21</i>	RAB21, member RAS oncogene family	-0.44291532
<i>Malt1</i>	mucosa associated lymphoid tissue lymphoma translocation gene 1	-0.44297096
<i>Psm5</i>	proteasome (prosome, macropain) subunit, alpha type, 5	-0.4429828
<i>Sdcbp2</i>	syndecan binding protein (syntenin) 2	-0.4430128
<i>Exosc8</i>	exosome component 8	-0.44321126
<i>Rpl12</i>	ribosomal protein L12	-0.4436986
<i>Zfyve20</i>	zinc finger, FYVE domain containing 20	-0.44374448
<i>Leprot</i>	leptin receptor overlapping transcript	-0.44378257
<i>Calu</i>	calumenin	-0.44383287

<i>Smarcd3</i>	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 3	-0.44385606
<i>Clint1</i>	clathrin interactor 1	-0.44405007
<i>Cpsf3</i>	cleavage and polyadenylation specific factor 3, 73kDa	-0.44451612
<i>Marveld3</i>	MARVEL domain containing 3	-0.44457844
<i>Usp3</i>	ubiquitin specific peptidase 3	-0.44466892
<i>Homer2</i>	homer homolog 2 (Drosophila)	-0.44478604
<i>Asahl</i>	N-acylsphingosine amidohydrolase (acid ceramidase)-like	-0.44501597
<i>Hsd12</i>	hydroxysteroid dehydrogenase like 2	-0.4450715
<i>Ctns</i>	cystinosis, nephropathic	-0.44517854
<i>Ttll1</i>	tubulin tyrosine ligase-like family, member 1	-0.44533673
<i>Kif1c</i>	kinesin family member 1C	-0.44558546
<i>Fbxo45</i>	F-box protein 45	-0.44573414
<i>Mrps21</i>	mitochondrial ribosomal protein S21	-0.44611636
<i>Nqo1</i>	NAD(P)H dehydrogenase, quinone 1	-0.4461764
<i>Ngrn</i>	neugrin, neurite outgrowth associated	-0.44622868
<i>Dcbl1</i>	discoïdin, CUB and LCCL domain containing 1	-0.44631484
<i>Cenpe</i>	centromere protein E, 312kDa	-0.44705626
<i>Ap1g2</i>	adaptor-related protein complex 1, gamma 2 subunit	-0.44709727
<i>Cnksr3</i>	CNKSR family member 3	-0.44766566
<i>Pdcl3</i>	phosducin-like 3	-0.44784126
<i>Chd1</i>	chromodomain helicase DNA binding protein 1	-0.4480941
<i>Glx2</i>	glutaredoxin 2	-0.44822785
<i>Prkrip1</i>	PRKR interacting protein 1 (IL11 inducible)	-0.4482724
<i>Hn1</i>	hematological and neurological expressed 1	-0.44882646
<i>Wdr53</i>	WD repeat domain 53	-0.44935942
<i>Ccdc43</i>	coiled-coil domain containing 43	-0.44973195
<i>Sirt7</i>	sirtuin (silent mating type information regulation 2 homolog) 7 (S. cerevisiae)	-0.44973978

<i>Rcn1</i>	reticulocalbin 1, EF-hand calcium binding domain	-0.44974998
<i>Cttnbp2nl</i>	CTTNBP2 N-terminal like	-0.44997486
<i>Tcf19</i>	transcription factor 19 (SC1)	-0.45002356
<i>S100a13</i>	S100 calcium binding protein A13	-0.45015743
<i>Hnrpab</i>	heterogeneous nuclear ribonucleoprotein A/B	-0.45019048
<i>St8sia6</i>	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 6	-0.45030957
<i>Slco2a1</i>	solute carrier organic anion transporter family, member 2A1	-0.4503369
<i>Psmb1</i>	proteasome (prosome, macropain) subunit, beta type, 1	-0.45046863
<i>Serbp1</i>	SERPINE1 mRNA binding protein 1	-0.45062146
<i>Nol5a</i>	nucleolar protein 5A (56kDa with KKE/D repeat)	-0.45143783
<i>Rnaseh1</i>	ribonuclease H1	-0.45158425
<i>Sumf1</i>	sulfatase modifying factor 1	-0.4516215
<i>Oraov1</i>	oral cancer overexpressed 1	-0.45194784
<i>Nudt18</i>	nudix (nucleoside diphosphate linked moiety X)-type motif 18	-0.45229483
<i>Cks1b</i>	CDC28 protein kinase regulatory subunit 1B	-0.4534107
<i>Foxc1</i>	forkhead box C1	-0.45349246
<i>Cdc42bpg</i>	CDC42 binding protein kinase gamma (DMPK-like)	-0.45359036
<i>Ptk9</i>	PTK9 protein tyrosine kinase 9	-0.45372406
<i>Ormdl2</i>	ORM1-like 2 (S. cerevisiae)	-0.45391363
<i>Trim21</i>	tripartite motif-containing 21	-0.4541191
<i>Churc1</i>	churchill domain containing 1	-0.45420855
<i>Slu7</i>	SLU7 Homolog, Splicing Factor	-0.45421654
<i>Ankrd15</i>	ankyrin repeat domain 15	-0.45454934
<i>Anxa4</i>	annexin A4	-0.45514166
<i>Braf</i>	v-raf murine sarcoma viral oncogene homolog B1	-0.45524698
<i>Fdft1</i>	farnesyl-diphosphate farnesyltransferase 1	-0.45546648
<i>Susd2</i>	sushi domain containing 2	-0.45559308
<i>Vps4b</i>	vacuolar protein sorting 4 homolog B (S. cerevisiae)	-0.45614126

<i>Dffb</i>	DNA fragmentation factor, 40kDa, beta polypeptide (caspase-activated DNase)	-0.45620662
<i>Jsrp1</i>	junctional sarcoplasmic reticulum protein 1	-0.45646405
<i>Uqcrh</i>	ubiquinol-cytochrome c reductase hinge protein	-0.4566836
<i>Nfatc3</i>	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3	-0.45680884
<i>Boc</i>	Boc homolog (mouse)	-0.4568237
<i>Usp7</i>	ubiquitin specific peptidase 7 (herpes virus-associated)	-0.4568993
<i>Apobec1</i>	apolipoprotein B mRNA editing enzyme, catalytic polypeptide 1	-0.45698744
<i>Ptger4</i>	prostaglandin E receptor 4 (subtype EP4)	-0.4571905
<i>Trappc6a</i>	trafficking protein particle complex 6A	-0.4573073
<i>Toe1</i>	target of EGR1, member 1 (nuclear)	-0.4575376
<i>Sephs2</i>	selenophosphate synthetase 2	-0.45766532
<i>Sptlc2</i>	serine palmitoyltransferase, long chain base subunit 2	-0.45783377
<i>Sorbs1</i>	sorbin and SH3 domain containing 1	-0.45832747
<i>Dedd</i>	death effector domain containing	-0.45875114
<i>Noc4l</i>	nucleolar complex associated 4 homolog ( <i>S. cerevisiae</i> )	-0.45882007
<i>Spsb1</i>	splA/ryanodine receptor domain and SOCS box containing 1	-0.45884335
<i>Gpr172b</i>	G protein-coupled receptor 172B	-0.45934474
<i>Hirip5</i>	HIRA interacting protein 5	-0.45959675
<i>Htatsf1</i>	HIV-1 Tat specific factor 1	-0.45972702
<i>Hsd17b4</i>	hydroxysteroid (17-beta) dehydrogenase 4	-0.45973343
<i>Tpm2</i>	tropomyosin 2 (beta)	-0.45975858
<i>Cdk7</i>	cyclin-dependent kinase 7 (MO15 homolog, <i>Xenopus laevis</i> , cdk-activating kinase)	-0.45988232
<i>Bcas2</i>	breast carcinoma amplified sequence 2	-0.46031603
<i>Poldip3</i>	polymerase (DNA-directed), delta interacting protein 3	-0.4606846
<i>Ndnl2</i>	necdin-like 2	-0.46084496
<i>Gmps</i>	guanine monphosphate synthetase	-0.46109414
<i>Arg1</i>	arginase, liver	-0.46131593
<i>Qpctl</i>	glutaminy-peptide cyclotransferase-like	-0.46138206

<i>Surf4</i>	surfeit 4	-0.4614453
<i>Mlst2</i>	male sterility domain containing 2	-0.46148115
<i>Thoc4</i>	THO complex 4	-0.4615548
<i>Obfc2a</i>	oligonucleotide/oligosaccharide-binding fold containing 2A	-0.46191105
<i>Mcl1</i>	myeloid cell leukemia sequence 1 (BCL2-related)	-0.46210006
<i>Zbtb9</i>	zinc finger and BTB domain containing 9	-0.46233958
<i>Commd5</i>	COMM domain containing 5	-0.4624251
<i>Dhrs4</i>	dehydrogenase/reductase (SDR family) member 4	-0.46265373
<i>Ruvbl1</i>	RuvB-like 1 (E. coli)	-0.46310872
<i>Rod1</i>	ROD1 regulator of differentiation 1 (S. pombe)	-0.46325493
<i>Armc9</i>	armadillo repeat containing 9	-0.463407
<i>Optn</i>	optineurin	-0.46362188
<i>Cog1</i>	component of oligomeric golgi complex 1	-0.46445087
<i>Ap3m1</i>	adaptor-related protein complex 3, mu 1 subunit	-0.46471453
<i>Snrpd1</i>	small nuclear ribonucleoprotein D1 polypeptide 16kDa	-0.46492174
<i>Ptbp1</i>	polypyrimidine tract binding protein 1	-0.4650409
<i>Cryl1</i>	crystallin, lambda 1	-0.46519086
<i>Top3b</i>	topoisomerase (DNA) III beta	-0.4652591
<i>Pyhin1</i>	pyrin and HIN domain family, member 1	-0.46531793
<i>Fech</i>	ferrochelatase (protoporphyrin)	-0.46536088
<i>Otx1</i>	orthodenticle homolog 1 (Drosophila)	-0.46550557
<i>Dgat2</i>	diacylglycerol O-acyltransferase homolog 2 (mouse)	-0.4655904
<i>Klf4</i>	Kruppel-like factor 4 (gut)	-0.4656861
<i>Rdbp</i>	RD RNA binding protein	-0.46581468
<i>Smc4</i>	structural maintenance of chromosomes 4	-0.46640664
<i>Sfrs9</i>	splicing factor, arginine/serine-rich 9	-0.46677172
<i>Xab1</i>	XPA binding protein 1, GTPase	-0.46686688
<i>Rfc2</i>	replication factor C (activator 1) 2, 40kDa	-0.4670885

<i>Tmem15</i>	transmembrane protein 15	-0.4672025
<i>Slc40a1</i>	solute carrier family 40 (iron-regulated transporter), member 1	-0.4672805
<i>Timm9</i>	translocase of inner mitochondrial membrane 9 homolog (yeast)	-0.46735364
<i>Pdcd6</i>	programmed cell death 6	-0.46742746
<i>Hspa1b</i>	heat shock 70kDa protein 1B	-0.46756947
<i>Nubp2</i>	nucleotide binding protein 2 (MinD homolog, E. coli)	-0.46815762
<i>Stx6</i>	syntaxin 6	-0.46822965
<i>Gnl2</i>	guanine nucleotide binding protein-like 2 (nucleolar)	-0.46874568
<i>Zic1</i>	Zic family member 1 (odd-paired homolog, Drosophila)	-0.46886063
<i>Mrpl52</i>	mitochondrial ribosomal protein L52	-0.46887198
<i>Tmem4</i>	transmembrane protein 4	-0.46916628
<i>Ebna1bp2</i>	EBNA1 binding protein 2	-0.46929094
<i>Chdh</i>	choline dehydrogenase	-0.46947625
<i>Mrpl51</i>	mitochondrial ribosomal protein L51	-0.46950302
<i>Rfc3</i>	replication factor C (activator 1) 3, 38kDa	-0.46982428
<i>Anapc4</i>	anaphase promoting complex subunit 4	-0.46987626
<i>Trpm6</i>	transient receptor potential cation channel, subfamily M, member 6	-0.47005022
<i>Qrsl1</i>	glutamyl-tRNA synthase (glutamine-hydrolyzing)-like 1	-0.4701167
<i>Mrps24</i>	mitochondrial ribosomal protein S24	-0.4701695
<i>Phf14</i>	PHD finger protein 14	-0.47021878
<i>Rpl7l1</i>	ribosomal protein L7-like 1	-0.47070876
<i>Mapk13</i>	mitogen-activated protein kinase 13	-0.47090968
<i>Pigl</i>	phosphatidylinositol glycan anchor biosynthesis, class L	-0.47119504
<i>Acp5</i>	acid phosphatase 5, tartrate resistant	-0.47126564
<i>Dnajb11</i>	DnaJ (Hsp40) homolog, subfamily B, member 11	-0.4713754
<i>Zbtb1</i>	zinc finger and BTB domain containing 1	-0.47146684
<i>Igfbp7</i>	insulin-like growth factor binding protein 7	-0.47187924
<i>Snx12</i>	sorting nexin 12	-0.4719738

<i>Pomp</i>	proteasome maturation protein	-0.4723721
<i>Nfkbiz</i>	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta	-0.47237572
<i>Txnrd3</i>	thioredoxin reductase 3	-0.47239265
<i>Crip1</i>	cysteine-rich protein 1 (intestinal)	-0.47264594
<i>Mki67</i>	antigen identified by monoclonal antibody Ki-67	-0.47275132
<i>Apex1</i>	APEX nuclease (multifunctional DNA repair enzyme) 1	-0.472928
<i>Pmpca</i>	peptidase (mitochondrial processing) alpha	-0.47342
<i>Pex6</i>	peroxisomal biogenesis factor 6	-0.47350514
<i>Cst6</i>	cystatin E/M	-0.47356278
<i>Erp29</i>	endoplasmic reticulum protein 29	-0.47397012
<i>Rbm33</i>	RNA binding motif protein 33	-0.47435725
<i>Sp3</i>	Sp3 transcription factor	-0.47463676
<i>Nfe2l3</i>	nuclear factor (erythroid-derived 2)-like 3	-0.47474983
<i>Zbtb8</i>	zinc finger and BTB domain containing 8	-0.4748837
<i>Bag1</i>	BCL2-associated athanogene	-0.47557136
<i>Mtch2</i>	mitochondrial carrier homolog 2 (C. elegans)	-0.4766343
<i>Decr1</i>	2,4-dienoyl CoA reductase 1, mitochondrial	-0.47690856
<i>Rbl1</i>	retinoblastoma-like 1 (p107)	-0.47706217
<i>Srp19</i>	signal recognition particle 19kDa	-0.47731686
<i>Ckap1</i>	cytoskeleton associated protein 1	-0.4778114
<i>Krtcap2</i>	keratinocyte associated protein 2	-0.47829518
<i>Casp8</i>	caspase 8, apoptosis-related cysteine peptidase	-0.4785356
<i>Atpif1</i>	ATPase inhibitory factor 1	-0.47855687
<i>Mrpl39</i>	mitochondrial ribosomal protein L39	-0.47856545
<i>Cyp51a1</i>	cytochrome P450, family 51, subfamily A, polypeptide 1	-0.4789697
<i>Zfand2b</i>	zinc finger, AN1-type domain 2B	-0.4792616
<i>Trim56</i>	tripartite motif-containing 56	-0.4799712
<i>Exoc8</i>	exocyst complex component 8	-0.48004007



<i>Erh</i>	enhancer of rudimentary homolog (Drosophila)	-0.48049718
<i>Tnk1</i>	tyrosine kinase, non-receptor, 1	-0.48054776
<i>Dapk2</i>	death-associated protein kinase 2	-0.480871
<i>Sec63</i>	SEC63 homolog (S. cerevisiae)	-0.48111907
<i>Slc44a2</i>	solute carrier family 44, member 2	-0.48114488
<i>Tmem14c</i>	transmembrane protein 14C	-0.48188344
<i>Ly6g6c</i>	lymphocyte antigen 6 complex, locus G6C	-0.4819473
<i>Moxd1</i>	monooxygenase, DBH-like 1	-0.48216662
<i>Gstk1</i>	glutathione S-transferase kappa 1	-0.48316547
<i>Vamp3</i>	vesicle-associated membrane protein 3 (cellubrevin)	-0.48318294
<i>Nup98</i>	nucleoporin 98kDa	-0.48326394
<i>Efnb2</i>	ephrin-B2	-0.48327273
<i>Fabp6</i>	fatty acid binding protein 6, ileal (gastrotropin)	-0.483328
<i>Arl6ip4</i>	ADP-ribosylation-like factor 6 interacting protein 4	-0.48359612
<i>Chmp2b</i>	chromatin modifying protein 2B	-0.48373103
<i>Arhgef5</i>	Rho guanine nucleotide exchange factor (GEF) 5	-0.4839576
<i>Nei1</i>	nei endonuclease VIII-like 1 (E. coli)	-0.48411816
<i>Ixl</i>	intersex-like (Drosophila)	-0.48412386
<i>Chmp5</i>	chromatin modifying protein 5	-0.48435578
<i>Lrrfip1</i>	leucine rich repeat (in FLII) interacting protein 1	-0.48465863
<i>Usp6nl</i>	USP6 N-terminal like	-0.48499736
<i>Drg1</i>	developmentally regulated GTP binding protein 1	-0.48529595
<i>Ccdc49</i>	coiled-coil domain containing 49	-0.48569283
<i>Dck</i>	deoxycytidine kinase	-0.48571733
<i>Mad21l</i>	MAD2 mitotic arrest deficient-like 1 (yeast)	-0.48573843
<i>Nrap</i>	nebulin-related anchoring protein	-0.48629194
<i>Il18</i>	interleukin 18 (interferon-gamma-inducing factor)	-0.4863792
<i>Pacs1</i>	phosphofurin acidic cluster sorting protein 1	-0.4867826

<i>Casp7</i>	caspase 7, apoptosis-related cysteine peptidase	-0.48705095
<i>Csta</i>	cystatin A (stefin A)	-0.4874459
<i>Gba</i>	glucosidase, beta; acid (includes glucosylceramidase)	-0.4874612
<i>Pgd</i>	phosphogluconate dehydrogenase	-0.4877583
<i>Yipf4</i>	Yip1 domain family, member 4	-0.4877605
<i>Gmpr2</i>	guanosine monophosphate reductase 2	-0.4888784
<i>Ifngr2</i>	interferon gamma receptor 2 (interferon gamma transducer 1)	-0.48916823
<i>Nfib</i>	nuclear factor I/B	-0.48928425
<i>Edem1</i>	ER degradation enhancer, mannosidase alpha-like 1	-0.48961672
<i>Kif22</i>	kinesin family member 22	-0.48963588
<i>Ccdc77</i>	coiled-coil domain containing 77	-0.489807
<i>Dlst</i>	dihydrolipoamide S-succinyltransferase (E2 component of 2-oxo-glutarate complex)	-0.4898481
<i>Ccdc3</i>	coiled-coil domain containing 3	-0.49028087
<i>Mfsd1</i>	major facilitator superfamily domain containing 1	-0.49050355
<i>Ddx54</i>	DEAD (Asp-Glu-Ala-Asp) box polypeptide 54	-0.4905445
<i>Hnrpm</i>	heterogeneous nuclear ribonucleoprotein M	-0.49071497
<i>Cstb</i>	cystatin B (stefin B)	-0.4912228
<i>Rnf24</i>	ring finger protein 24	-0.49161476
<i>Lama3</i>	laminin, alpha 3	-0.49163446
<i>Urod</i>	uroporphyrinogen decarboxylase	-0.4919411
<i>Dtx2</i>	deltex homolog 2 (Drosophila)	-0.49255863
<i>Taf11</i>	TAF11 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 28kDa	-0.49288362
<i>Pin4</i>	protein (peptidylprolyl cis/trans isomerase) NIMA-interacting, 4 (parvulin)	-0.4930045
<i>Mki67ip</i>	MKI67 (FHA domain) interacting nucleolar phosphoprotein	-0.49306038
<i>Hace1</i>	HECT domain and ankyrin repeat containing, E3 ubiquitin protein ligase 1	-0.49333116
<i>Anxa13</i>	annexin A13	-0.49341843
<i>Hmgcs1</i>	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1 (soluble)	-0.49352074

<i>March3</i>	membrane-associated ring finger (C3HC4) 3	-0.4936105
<i>Rnaseh2a</i>	ribonuclease H2, subunit A	-0.49363092
<i>Psmal</i>	proteasome (prosome, macropain) subunit, alpha type, 1	-0.4937012
<i>Exosc7</i>	exosome component 7	-0.49378553
<i>Ugt1a1</i>	UDP glucuronosyltransferase 1 family, polypeptide A1	-0.49397722
<i>Rad18</i>	RAD18 homolog ( <i>S. cerevisiae</i> )	-0.49432638
<i>Igfbp3</i>	insulin-like growth factor binding protein 3	-0.49438214
<i>Cept1</i>	choline/ethanolamine phosphotransferase 1	-0.49484718
<i>Trim25</i>	tripartite motif-containing 25	-0.4952667
<i>Efha1</i>	EF-hand domain family, member A1	-0.49530175
<i>Dnase1ll1</i>	deoxyribonuclease I-like 1	-0.495472
<i>Xab2</i>	XPA binding protein 2	-0.49579993
<i>Mrpl18</i>	mitochondrial ribosomal protein L18	-0.49586052
<i>Alg5</i>	asparagine-linked glycosylation 5 homolog ( <i>S. cerevisiae</i> , dolichyl-phosphate beta-glucosyltransferase)	-0.49586642
<i>Nmi</i>	N-myc (and STAT) interactor	-0.4960451
<i>Cyp2s1</i>	cytochrome P450, family 2, subfamily S, polypeptide 1	-0.49607912
<i>Prdm1</i>	PR domain containing 1, with ZNF domain	-0.49682698
<i>Eif4ebp1</i>	eukaryotic translation initiation factor 4E binding protein 1	-0.49691966
<i>Krt23</i>	keratin 23 (histone deacetylase inducible)	-0.49719986
<i>Cox17</i>	COX17 cytochrome c oxidase assembly homolog ( <i>S. cerevisiae</i> )	-0.4973558
<i>Fgd3</i>	FYVE, RhoGEF and PH domain containing 3	-0.4980198
<i>Mta3</i>	metastasis associated 1 family, member 3	-0.49810326
<i>Tmem45a</i>	transmembrane protein 45A	-0.4983455
<i>Sgpl1</i>	sphingosine-1-phosphate lyase 1	-0.49837223
<i>Denr</i>	density-regulated protein	-0.49850795
<i>Trit1</i>	tRNA isopentenyltransferase 1	-0.49893102
<i>Psm14</i>	proteasome (prosome, macropain) 26S subunit, non-ATPase, 14	-0.4989813

<i>Mina</i>	MYC induced nuclear antigen	-0.4992029
<i>Ppfia1</i>	protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein (liprin), alpha 1	-0.4992808
<i>Ephx2</i>	epoxide hydrolase 2, cytoplasmic	-0.49930948
<i>Mon1b</i>	MON1 homolog B (yeast)	-0.49945188
<i>Crabp2</i>	cellular retinoic acid binding protein 2	-0.49958497
<i>Trspap1</i>	tRNA selenocysteine associated protein 1	-0.49962595
<i>Rlf</i>	rearranged L-myc fusion	-0.5001979
<i>Cdh1</i>	cadherin 1, type 1, E-cadherin (epithelial)	-0.50055885
<i>Ugt1a10</i>	UDP glucuronosyltransferase 1 family, polypeptide A10	-0.500801
<i>Skiv2l2</i>	superkiller viralicidic activity 2-like 2 (S. cerevisiae)	-0.5009658
<i>Wdr34</i>	WD repeat domain 34	-0.50102276
<i>Snai2</i>	snail homolog 2 (Drosophila)	-0.50112206
<i>Parn</i>	poly(A)-specific ribonuclease (deadenylation nuclease)	-0.50121015
<i>Btg3</i>	BTG family, member 3	-0.50131315
<i>Polr3c</i>	polymerase (RNA) III (DNA directed) polypeptide C (62kD)	-0.50131804
<i>Rhov</i>	ras homolog gene family, member V	-0.50136036
<i>Chchd3</i>	coiled-coil-helix-coiled-coil-helix domain containing 3	-0.5019218
<i>Ccna2</i>	cyclin A2	-0.5020621
<i>Csnk1a1</i>	casein kinase 1, alpha 1	-0.50227934
<i>Tuft1</i>	tuftelin 1	-0.50271213
<i>Nans</i>	N-acetylneuraminic acid synthase (sialic acid synthase)	-0.50289327
<i>Sf3a3</i>	splicing factor 3a, subunit 3, 60kDa	-0.5029008
<i>Timm23</i>	translocase of inner mitochondrial membrane 23 homolog (yeast)	-0.503378
<i>Cth</i>	cystathionase (cystathionine gamma-lyase)	-0.5034792
<i>Atad3a</i>	ATPase family, AAA domain containing 3A	-0.50372595
<i>Sprr1a</i>	small proline-rich protein 1A	-0.5043818
<i>Ndufa6</i>	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 6, 14kDa	-0.50467664

<i>Mapkap1</i>	mitogen-activated protein kinase associated protein 1	-0.5047313
<i>Cbln1</i>	cerebellin 1 precursor	-0.5048788
<i>Ube2f</i>	ubiquitin-conjugating enzyme E2F (putative)	-0.5050809
<i>Tmed9</i>	transmembrane emp24 protein transport domain containing 9	-0.50527984
<i>Mum1</i>	melanoma associated antigen (mutated) 1	-0.5053419
<i>Ssbp1</i>	single-stranded DNA binding protein 1	-0.50574803
<i>Birc3</i>	baculoviral IAP repeat-containing 3	-0.5057506
<i>Wwc1</i>	WW, C2 and coiled-coil domain containing 1	-0.5058612
<i>Cpm</i>	carboxypeptidase M	-0.505983
<i>Ndufa2</i>	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 2, 8kDa	-0.5060328
<i>Adam17</i>	ADAM metallopeptidase domain 17 (tumor necrosis factor, alpha, converting enzyme)	-0.50608367
<i>Bola2</i>	bolA homolog 2 (E. coli)	-0.5067655
<i>Cyld</i>	cylindromatosis (turban tumor syndrome)	-0.5070148
<i>Irx2</i>	iroquois homeobox protein 2	-0.50718653
<i>Nme2</i>	non-metastatic cells 2, protein (NM23B) expressed in	-0.50726795
<i>Selk</i>	Selenoprotein K	-0.5077975
<i>Adsl</i>	adenylosuccinate lyase	-0.50815696
<i>Dhcr24</i>	24-dehydrocholesterol reductase	-0.50822216
<i>Qars</i>	glutaminyl-tRNA synthetase	-0.50841004
<i>Uxt</i>	ubiquitously-expressed transcript	-0.5086135
<i>Gdpd2</i>	glycerophosphodiester phosphodiesterase domain containing 2	-0.508871
<i>Chmp2a</i>	chromatin modifying protein 2A	-0.5093567
<i>Tarsl1</i>	threonyl-tRNA synthetase-like 1	-0.5098236
<i>Dhcr7</i>	7-dehydrocholesterol reductase	-0.5103834
<i>Polr2i</i>	polymerase (RNA) II (DNA directed) polypeptide I, 14.5kDa	-0.5106737
<i>Cd36</i>	CD36 molecule (thrombospondin receptor)	-0.51079005
<i>Plagl2</i>	pleiomorphic adenoma gene-like 2	-0.51079607
<i>Rnf135</i>	ring finger protein 135	-0.5109955

<i>Rreb1</i>	ras responsive element binding protein 1	-0.5110194
<i>Cldn1</i>	claudin 1	-0.5116027
<i>Ddx27</i>	DEAD (Asp-Glu-Ala-Asp) box polypeptide 27	-0.51224774
<i>Cab39</i>	calcium binding protein 39	-0.5125223
<i>Taz</i>	tafazzin (cardiomyopathy, dilated 3A (X-linked); endocardial fibroelastosis 2; Barth syndrome)	-0.5125585
<i>Nubp1</i>	nucleotide binding protein 1 (MinD homolog, E. coli)	-0.5125682
<i>Acacb</i>	acetyl-Coenzyme A carboxylase beta	-0.5131496
<i>Lrrfip2</i>	leucine rich repeat (in FLII) interacting protein 2	-0.51340204
<i>Rilp</i>	Rab interacting lysosomal protein	-0.5135305
<i>Pank1</i>	pantothenate kinase 1	-0.51357883
<i>Vrk1</i>	vaccinia related kinase 1	-0.5137213
<i>Dusp12</i>	dual specificity phosphatase 12	-0.51376456
<i>Sod1</i>	superoxide dismutase 1, soluble (amyotrophic lateral sclerosis 1 (adult))	-0.51403636
<i>Trmt1</i>	TRM1 tRNA methyltransferase 1 homolog (S. cerevisiae)	-0.5143538
<i>Cblb</i>	Cas-Br-M (murine) ecotropic retroviral transforming sequence b	-0.5143866
<i>Tnfaip1</i>	tumor necrosis factor, alpha-induced protein 1 (endothelial)	-0.5143932
<i>Wtap</i>	Wilms tumor 1 associated protein	-0.5148472
<i>Ddx39</i>	DEAD (Asp-Glu-Ala-Asp) box polypeptide 39	-0.5156909
<i>Adm</i>	adrenomedullin	-0.5159038
<i>Gtf3c2</i>	general transcription factor IIIC, polypeptide 2, beta 110kDa	-0.51591754
<i>Snrpg</i>	small nuclear ribonucleoprotein polypeptide G	-0.5161649
<i>Hsd17b7</i>	hydroxysteroid (17-beta) dehydrogenase 7	-0.5162329
<i>Mrpl9</i>	mitochondrial ribosomal protein L9	-0.5163123
<i>Tradd</i>	TNFRSF1A-associated via death domain	-0.5185949
<i>Pigr</i>	polymeric immunoglobulin receptor	-0.51865727
<i>Katna1</i>	katanin p60 (ATPase-containing) subunit A 1	-0.51891786
<i>Chmp1b</i>	chromatin modifying protein 1B	-0.519675

<i>Pld2</i>	phospholipase D2	-0.5197049
<i>Kcnk6</i>	potassium channel, subfamily K, member 6	-0.52024746
<i>Csrp2</i>	cysteine and glycine-rich protein 2	-0.5205046
<i>Mtmr12</i>	myotubularin related protein 12	-0.520586
<i>Commd6</i>	COMM domain containing 6	-0.52169925
<i>Odf2</i>	outer dense fiber of sperm tails 2	-0.52228004
<i>Cpox</i>	coproporphyrinogen oxidase	-0.52333164
<i>Agxt2l2</i>	alanine-glyoxylate aminotransferase 2-like 2	-0.52415144
<i>Ces1</i>	carboxylesterase 1 (monocyte/macrophage serine esterase 1)	-0.5245853
<i>Slc35a3</i>	solute carrier family 35 (UDP-N-acetylglucosamine (UDP-GlcNAc) transporter), member A3	-0.52459234
<i>Slc35a2</i>	solute carrier family 35 (UDP-galactose transporter), member A2	-0.52478886
<i>Tmed3</i>	transmembrane emp24 protein transport domain containing 3	-0.5249362
<i>Fahd1</i>	fumarylacetoacetate hydrolase domain containing 1	-0.52498585
<i>Atad2</i>	ATPase family, AAA domain containing 2	-0.5260901
<i>Brp</i>	BRCA1 associated protein	-0.52649236
<i>Bola3</i>	bolA homolog 3 (E. coli)	-0.5274847
<i>Xpot</i>	exportin, tRNA (nuclear export receptor for tRNAs)	-0.5276157
<i>Taf13</i>	TAF13 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 18kDa	-0.52793545
<i>Rai16</i>	retinoic acid induced 16	-0.52794373
<i>Cybas3</i>	cytochrome b, ascorbate dependent 3	-0.52809924
<i>Sdf2</i>	stromal cell-derived factor 2	-0.52834696
<i>Cno</i>	cappuccino homolog (mouse)	-0.5286738
<i>Mettl7a</i>	methyltransferase like 7A	-0.5293696
<i>Prg4</i>	proteoglycan 4	-0.5294986
<i>Spag7</i>	sperm associated antigen 7	-0.52966917
<i>Incenp</i>	inner centromere protein antigens 135/155kDa	-0.5302028
<i>Pinx1</i>	PIN2/TERF1 Interacting, Telomerase Inhibitor 1	-0.5306184

<i>Med8</i>	mediator of RNA polymerase II transcription, subunit 8 homolog ( <i>S. cerevisiae</i> )	-0.5310509
<i>Sc4mol</i>	sterol-C4-methyl oxidase-like	-0.53126365
<i>Mical1</i>	microtubule associated monooxygenase, calponin and LIM domain containing 1	-0.53251624
<i>Map2k6</i>	mitogen-activated protein kinase kinase 6	-0.53270346
<i>Dpp7</i>	dipeptidyl-peptidase 7	-0.53299844
<i>Uqcrb</i>	ubiquinol-cytochrome c reductase binding protein	-0.53334683
<i>Foxp1</i>	forkhead box P1	-0.5344466
<i>Entpd1</i>	ectonucleoside triphosphate diphosphohydrolase 1	-0.53475595
<i>Acs15</i>	acyl-CoA synthetase long-chain family member 5	-0.53484976
<i>Tmprss13</i>	transmembrane protease, serine 13	-0.5350335
<i>Tacstd1</i>	tumor-associated calcium signal transducer 1	-0.5363919
<i>Acaa2</i>	acetyl-Coenzyme A acyltransferase 2 (mitochondrial 3-oxoacyl-Coenzyme A thiolase)	-0.5364875
<i>Wrn</i>	Werner syndrome	-0.5366246
<i>Bcap31</i>	B-cell receptor-associated protein 31	-0.5370729
<i>B3galnt2</i>	beta-1,3-N-acetylgalactosaminyltransferase 2	-0.5379507
<i>Dsp</i>	desmoplakin	-0.5382306
<i>Plcb3</i>	phospholipase C, beta 3 (phosphatidylinositol-specific)	-0.5384267
<i>Cklf</i>	chemokine-like factor	-0.53844213
<i>Crb3</i>	crumbs homolog 3 ( <i>Drosophila</i> )	-0.5384671
<i>Nat5</i>	N-acetyltransferase 5	-0.53900796
<i>Krt17</i>	keratin 17	-0.53946507
<i>Comm3</i>	COMM domain containing 3	-0.5395593
<i>Amid</i>	apoptosis-inducing factor (AIF)-like mitochondrion-associated inducer of death	-0.5416377
<i>Pigh</i>	phosphatidylinositol glycan anchor biosynthesis, class H	-0.5427376
<i>Mlh1</i>	mutL homolog 1, colon cancer, nonpolyposis type 2 ( <i>E. coli</i> )	-0.54371804
<i>Gtf2f2</i>	general transcription factor IIF, polypeptide 2, 30kDa	-0.5448543
<i>Vps54</i>	vacuolar protein sorting 54 ( <i>S. cerevisiae</i> )	-0.54566693
<i>Acat2</i>	acetyl-Coenzyme A acetyltransferase 2 (acetoacetyl Coenzyme A thiolase)	-0.54575515



<i>Cdsn</i>	corneodesmosin	-0.5458692
<i>Dhrs7</i>	dehydrogenase/reductase (SDR family) member 7	-0.54612285
<i>Psph</i>	phosphoserine phosphatase	-0.54627323
<i>Sbsn</i>	suprabasin	-0.5466525
<i>Brf1</i>	BRF1 homolog, subunit of RNA polymerase III transcription initiation factor IIIB ( <i>S. cerevisiae</i> )	-0.5474855
<i>Mycbp</i>	c-myc binding protein	-0.5488205
<i>Elovl1</i>	elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 1	-0.5494555
<i>Cbr4</i>	carbonyl reductase 4	-0.5500963
<i>Acsl4</i>	acyl-CoA synthetase long-chain family member 4	-0.55070496
<i>Pigk</i>	phosphatidylinositol glycan anchor biosynthesis, class K	-0.55082756
<i>Preb</i>	prolactin regulatory element binding	-0.5515884
<i>Rnaseh2c</i>	ribonuclease H2, subunit C	-0.55181324
<i>Rars</i>	arginyl-tRNA synthetase	-0.5528169
<i>Gtf2f1</i>	general transcription factor IIF, polypeptide 1, 74kDa	-0.55366486
<i>Hmgcr</i>	3-hydroxy-3-methylglutaryl-Coenzyme A reductase	-0.5545941
<i>Mrps35</i>	mitochondrial ribosomal protein S35	-0.55460656
<i>Ppp1cb</i>	protein phosphatase 1, catalytic subunit, beta isoform	-0.55519575
<i>March8</i>	membrane-associated ring finger (C3HC4) 8	-0.55572706
<i>Tmem147</i>	transmembrane protein 147	-0.55909467
<i>Lsm5</i>	LSM5 homolog, U6 small nuclear RNA associated ( <i>S. cerevisiae</i> )	-0.5602853
<i>Pxmp4</i>	peroxisomal membrane protein 4, 24kDa	-0.56035805
<i>Dscr3</i>	Down syndrome critical region gene 3	-0.5608427
<i>Mrps26</i>	mitochondrial ribosomal protein S26	-0.56137526
<i>Exosc4</i>	exosome component 4	-0.5620113
<i>Rfwd3</i>	ring finger and WD repeat domain 3	-0.5640502
<i>Pdgfa</i>	platelet-derived growth factor alpha polypeptide	-0.56422114
<i>Dera</i>	2-deoxyribose-5-phosphate aldolase homolog ( <i>C. elegans</i> )	-0.56447285

<i>Ssrp1</i>	structure specific recognition protein 1	-0.5652562
<i>B4gal7</i>	xylosylprotein beta 1,4-galactosyltransferase, polypeptide 7 (galactosyltransferase I)	-0.56533825
<i>Lyk5</i>	Protein kinase LYK5	-0.5659527
<i>Pon2</i>	paraoxonase 2	-0.56817526
<i>Mrps18c</i>	mitochondrial ribosomal protein S18C	-0.5685383
<i>Ivl</i>	involucrin	-0.56934464
<i>Zwint</i>	ZW10 interactor	-0.5693866
<i>Scrn3</i>	secernin 3	-0.57084775
<i>Trak1</i>	trafficking protein, kinesin binding 1	-0.5710228
<i>Commd1</i>	copper metabolism (Murr1) domain containing 1	-0.57172865
<i>Elovl7</i>	ELOVL family member 7, elongation of long chain fatty acids (yeast)	-0.5721851
<i>Krt10</i>	keratin 10 (epidermolytic hyperkeratosis; keratosis palmaris et plantaris)	-0.5726212
<i>Rad1</i>	RAD1 homolog (S. pombe)	-0.57381934
<i>Ros1</i>	v-ros UR2 sarcoma virus oncogene homolog 1 (avian)	-0.57399225
<i>Tmem85</i>	transmembrane protein 85	-0.5767328
<i>Top1mt</i>	topoisomerase (DNA) I, mitochondrial	-0.5772761
<i>Paox</i>	polyamine oxidase (exo-N4-amino)	-0.5814223
<i>Nucb2</i>	nucleobindin 2	-0.5823903
<i>Mbt1</i>	mbt domain containing 1	-0.5827208
<i>Lbr</i>	lamin B receptor	-0.58304197
<i>Eppk1</i>	epiplakin 1	-0.5844886
<i>Adrm1</i>	adhesion regulating molecule 1	-0.58491206
<i>Lmna</i>	lamin A/C	-0.58580565
<i>Acot1</i>	acyl-CoA thioesterase 1	-0.58904594
<i>Nup37</i>	nucleoporin 37kDa	-0.5900054
<i>Wdr73</i>	WD repeat domain 73	-0.59316665
<i>E4f1</i>	E4F transcription factor 1	-0.5958187
<i>Actl6a</i>	actin-like 6A	-0.60059273

<i>Pgm1</i>	phosphoglucomutase 1	-0.6008014
<i>Eif4e2</i>	eukaryotic translation initiation factor 4E member 2	-0.60221875
<i>Ptplb</i>	protein tyrosine phosphatase-like (proline instead of catalytic arginine), member b	-0.6108468
<i>Gltscr2</i>	glioma tumor suppressor candidate region gene 2	-0.6125858
<i>Sharpin</i>	SHANK-associated RH domain interactor	-0.6153948
<i>Pctp</i>	phosphatidylcholine transfer protein	-0.61782753
<i>Ube2e1</i>	ubiquitin-conjugating enzyme E2E 1 (UBC4/5 homolog, yeast)	-0.61868834
<i>Cog4</i>	component of oligomeric golgi complex 4	-0.6207945
<i>Utp11l</i>	UTP11-like, U3 small nucleolar ribonucleoprotein, (yeast)	-0.6263142
<i>Rps27l</i>	ribosomal protein S27-like	-0.6311915
<i>Nxt1</i>	NTF2-like export factor 1	-0.6368598
<i>Mrps28</i>	mitochondrial ribosomal protein S28	-0.6374935
<i>Lrrc28</i>	leucine rich repeat containing 28	-0.6376598
<i>Rab27a</i>	RAB27A, member RAS oncogene family	-0.6392911
<i>Rpl30</i>	ribosomal protein L30	-0.6450369
<i>Tax1bp3</i>	Tax1 (human T-cell leukemia virus type I) binding protein 3	-0.6477524
<i>Ap4b1</i>	adaptor-related protein complex 4, beta 1 subunit	-0.6606905

---

All genes were significantly correlated (uncorrected  $p \leq 0.05$ ) with *Cacna2d1* in the whole eye of BXD strains. Genes were ranked according to the correlation coefficient and used for Gene Set Enrichment Analysis.