Table SI. Potential targets of GE in ETCM databases.

Chemical component	Candidate target genes	Tanimoto score
Sitosterol	AKR1C1	0.8158
	AKR1C2	0.8158
	AR	0.8421
	CLEC4E	0.9714
	ESR1	0.8421
	ESR2	0.8378
	GABRA1	0.8378
	GABRA2	0.8378
	GABRA3	0.8378
	GABRA4	0.8378
	GABRA5	0.8378
	GABRA6	0.8378
	GABRB1	0.8378
	GABRB2	0.8378
	GABRB3	0.8378
	GABRD	0.8378
	GABRE	0.8378
	GABRG1	0.8378
	GABRG2	0.8378
	GABRG3	0.8378
	GABRP	0.8378
	GABRQ	0.8378
	GRIN1	0.8378
	GRIN2A	0.8378
	GRIN2B	0.8378
	GRIN2C	0.8378
	GRIN2D	0.8378
	GRIN3A	0.8378
	GRIN3B	0.8378
	HSD17B1	0.8378
	LIP3	0.8205
	LSS	0.9444
	NCOA2	0.8158
	NR1I2	0.8649
	NR1I3	0.9714
	NR3C1	0.8250
	NR3C2	0.8158
	PGR	0.8378
	PPARA	0.8378
	RORA	0.9714
	SIGMAR1	0.8378

	SULT2A1	0.8378
	SULT2B1	0.8649
	VDR	0.9714
Vanillin	ALB	0.8947
	AR	0.8571
	ESR1	0.8571
	ESR2	0.8571
	PGR	0.8571
	PLA2G1B	0.8000
	PLA2G2E	0.8000
Palmitic Acid	ABAT	0.8095
	ABL1	1.0000
	ACADSB	0.8095
	ACOX1	0.8000
	ACSL3	0.8571
	ACSL4	0.8571
	ADH5	1.0000
	ALDH5A1	0.8095
	ARF1	1.0000
	ARF6	1.0000
	C8G	1.0000
	CALM1	1.0000
	CNR1	0.8333
	CNR2	0.8333
	CYP2C8	1.0000
	ECI2	1.0000
	ELOVL4	0.8571
	FADS1	0.8571
	FADS2	0.8571
	FFAR1	0.8571
	FKBP1A	1.0000
	FURIN	1.0000
	GLTP	1.0000
	GM2A	1.0000
	GUCA1A	1.0000
	HAO1	0.8000
	HDAC2	0.8095
	HDAC9	0.8095
	HNF4A	1.0000
	HNF4G	1.0000
	INS	1.0000
	LALBA	1.0000
	LIP3	1.0000

	LTB4R	0.8000
	LTB4R2	0.8000
	LTF	1.0000
	LY96	1.0000
	NCOA1	1.0000
	NR1H4	0.9524
	OGDH	0.8095
	PAEP	1.0000
	PKIA	1.0000
	PLA2G1B	1.0000
	PLA2G2A	1.0000
	PLA2G2D	1.0000
	PLA2G2E	1.0000
	PMP2	1.0000
	PPARA	1.0000
	PPARD	0.9524
	PPARG	1.0000
	PPA_RS05235	0.9524
	PPP3CA	1.0000
	PPP3R1	1.0000
	PPT1	1.0000
	PRKACA	1.0000
	PTGS1	0.9524
	PTGS2	0.9524
	PVR	1.0000
	RCVRN	1.0000
	RHO	1.0000
	RXRA	0.9524
	RXRB	0.8095
	RXRG	0.8095
	S100B	0.8571
	SCN10A	0.8095
	SCN11A	0.8095
	SCN1A	0.8095
	SCN1B	0.8095
	SCN2A	0.8095
	SCN2B	0.8095
	SCN3A	0.8095
	SCN3B	0.8095
	SCN4A	0.8095
	SCN4B	0.8095
	SCN5A	0.8095
	SCN7A	0.8095

	SCN8A	0.8095
	SCN9A	0.8095
	SEC14L2	1.0000
	SLC8A1	0.8571
	SREBF1	0.8095
	TLR4	1.0000
	TM1468	1.0000
	TRAPPC3	1.0000
	TRPV1	0.8571
	VLDLR	1.0000
Sucrose	ABO	0.8158
	ACTA1	1.0000
	AMY1A	0.8000
	AMY2A	0.8000
	AMY2B	0.8611
	ATOX1	1.0000
	BAMF_RS28815	0.8000
	CYP2B6	0.8205
	FHIT	0.8611
	FTL	0.8333
	GCK	0.8000
	GLT6D1	0.8611
	GLTP	0.8611
	GNPDA1	0.8000
	HBA1	0.8974
	HBB	0.8333
	HK1	0.8000
	IFNB1	0.8000
	KRTAP5-2	0.8000
	KRTAP5-3	0.8000
	LCTL	0.8000
	LGALS2	0.8000
	LGALS3	0.8611
	LGALS7	0.8000
	LYZ	1.0000
	MB	0.8000
	NCAN	0.8000
	NUDT9	0.8000
	PTGS1	0.8000
	PYGL	0.8000
	PYGM	0.8000
	RTCB	1.0000
	SFTPD	0.8000

	SIGLEC1	0.8000
	SMARCA5	0.8000
	TAS1R2	1.0000
	TM0024	0.8000
Succinic Acid	ACO2	0.8235
	AKR1D1	0.8421
	ALAD	0.8421
	ALDH5A1	1.0000
	ASPH	1.0000
	BBOX1	1.0000
	HBA1	0.8421
	HBB	0.8421
	HSD17B6	1.0000
	OXCT1	1.0000
	OXCT2	1.0000
	P3H1	1.0000
	P3H2	1.0000
	P3H3	1.0000
	P4HA1	1.0000
	P4HA2	1.0000
	PLOD1	1.0000
	PLOD3	1.0000
	SDHA	1.0000
	SDHB	1.0000
	SDHC	1.0000
	SDHD	1.0000
	SLC13A1	1.0000
	SLC13A2	1.0000
	SLC13A3	1.0000
	SLC25A10	1.0000
	SRD5A2	0.8421
	SUCLA2	1.0000
	SUCLG1	1.0000
	SUCLG2	1.0000
	SUCNR1	1.0000
	TMLHE	1.0000
	TYR	0.8421
Alexandrin	ANXA1	0.8148
	ATP1A1	0.8421
	ATP1A2	0.8246
	ATP1A3	0.8246
	CASP3	0.8333
	GABRB3	0.8596

	GLRA3	0.8596
	HSD11B1	0.8333
	HSD11B2	0.8148
	HSD3B1	0.8148
	LPL	0.8333
	NFKB1	0.8333
	NFKB2	0.8333
	NR3C1	0.8148
	PPP1CC	0.8036
	SLCO1B3	0.9074
	TNF	0.8333
	VDR	0.8148
	YWHAE	0.8103
P-Hydroxybenzaldehyde	ALB	0.8333
	E	0.8333
	ERG11	0.8000
	TYR	0.8462
Citric Acid	ACO2	0.9167
	AKR1B1	1.0000
	ANG	1.0000
	APRT	1.0000
	BC1747	1.0000
	BHMT	1.0000
	C8G	1.0000
	CPB1	1.0000
	CS	1.0000
	CTDSP1	1.0000
	GNMT	1.0000
	HGS	1.0000
	HS3ST3A1	1.0000
	IDH1	0.9091
	IDH2	0.9091
	IL4I1	1.0000
	ITEVIR	1.0000
	ITPA	1.0000
	LSM6	1.0000
	MDH2	1.0000
	ME2	0.8636
	MIF	1.0000
	PDE5A	1.0000
	PLEKHA1	1.0000
	RNASE1	1.0000
	RNASE3	1.0000

	SRC	1.0000
	TM0857	1.0000
	TM1436	1.0000
	TNFSF13B	1.0000
	UCK2	1.0000
Protocatechuic Aldehyde	LCN2	0.8182
	MIF	0.8571
Bis(4-Hydroxybenzyl)Ether Mono-Î’-D-Glucopyranoside	ABO	0.8378
	ALDH2	0.8000
	AMY1A	0.8235
	AMY2A	0.8235
	AMY2B	0.8857
	AR	0.8205
	BAMF_RS28815	0.8235
	GCK	0.8235
	GLT6D1	0.8857
	GLTP	0.8857
	GNPDA1	0.8235
	HK1	0.8235
	IFNB1	0.8235
	KRTAP5-2	0.8235
	KRTAP5-3	0.8235
	LCT	0.8000
	LCTL	0.8235
	LGALS2	0.8235
	LGALS3	0.8857
	LGALS7	0.8235
	MB	0.8235
	MBL2	0.8056
	NCAN	0.8235
	NUDT9	0.8235
	PTGS1	0.8235
	PYGL	0.8235
	PYGM	0.8235
	SFTPD	0.8235
	SIGLEC1	0.8235
	SMARCA5	0.8235
	TM0024	0.8235
	TYR	0.9412
Bis(4-Hydroxybenzyl)Ether	TYR	0.8000
4,4'-Dihydroxydiphenyl Methane	ERG11	0.8125
	TYR	0.8571
Gastrodin	ABO	0.8611

	ALDH2	0.8205
	AMY1A	0.8485
	AMY2A	0.8485
	AMY2B	0.9118
	AR	0.8421
	BAMF_RS28815	0.8485
	CYP2B6	0.8158
	GCK	0.8485
	GLT6D1	0.9118
	GLTP	0.9118
	GNPDA1	0.8485
	HK1	0.8485
	IFNB1	0.8485
	KRTAP5-2	0.8485
	KRTAP5-3	0.8485
	LCT	0.8235
	LCTL	0.8485
	LGALS2	0.8485
	LGALS3	0.9118
	LGALS7	0.8485
	MB	0.8485
	MBL2	0.8286
	NCAN	0.8485
	NUDT9	0.8485
	PTGS1	0.8485
	PYGL	0.8485
	PYGM	0.8485
	SFTPD	0.8485
	SIGLEC1	0.8485
	SMARCA5	0.8485
	TM0024	0.8485
	TYR	0.9697

Table SII. Potential targets of GE in the SwissTargetPrediction database.

Chemical component	Target	Gene common name
Sitosterol	HMG-CoA reductase	HMGCR
	Cytochrome P450 51 (by homology)	CYP51A1
	Androgen Receptor	AR
	Niemann-Pick C1-like protein 1	NPC1L1
	LXR-α	NR1H3
	Cytochrome P450 17A1	CYP17A1
	Nuclear receptor ROR-γ	RORC
	Cytochrome P450 19A1	CYP19A1
	Estrogen receptor β	ESR2
	Estrogen receptor α	ESR1
	Testis-specific androgen-binding protein	SHBG
	Sterol regulatory element-binding protein 2	SREBF2
	Cytochrome P450 2C19	CYP2C19
	Norepinephrine transporter	SLC6A2
	Butyrylcholinesterase	BCHE
	Nuclear receptor ROR-α	RORA
	Protein-tyrosine phosphatase 1B	PTPN1
	Corticosteroid binding globulin	SERPINA6
	Serotonin transporter	SLC6A4
	Glucose-6-phosphate 1-dehydrogenase	G6PD
	Nuclear receptor subfamily 1 group I member 3 (by homology)	NR1I3
	Muscarinic acetylcholine receptor M2	CHRM2
	Acetylcholinesterase	ACHE
	Vitamin D receptor	VDR
	Carboxylesterase 2	CES2
	LXR-β	NR1H2
	Dual specificity phosphatase Cdc25A	CDC25A
	Prostanoid EP1 receptor (by homology)	PTGER1
	Prostanoid EP2 receptor (by homology)	PTGER2
	11-β-hydroxysteroid dehydrogenase 1	HSD11B1
	Anti-estrogen binding site (AEBS) (by homology)	DHCR7
	Glycine receptor subunit α-1	GLRA1
	Peroxisome proliferator-activated receptor δ	PPARD
	Squalene monooxygenase	SQLE
	Protein-tyrosine phosphatase 1C	PTPN6
	Squalene synthetase (by homology)	FDFT1
	Nitric oxide synthase, inducible (by homology)	NOS2
	Glucocorticoid receptor	NR3C1
	Dual specificity phosphatase Cdc25B	CDC25B

	Sonic hedgehog protein (by homology)	SHH
	UDP-glucuronosyltransferase 2B7	UGT2B7
	11-β-hydroxysteroid dehydrogenase 2	HSD11B2
	Dopamine D2 receptor	DRD2
	DNA polymerase β (by homology)	POLB
	Prolyl endopeptidase	PREP
	Thromboxane-A synthase	TBXAS1
	Prostanoid EP4 receptor (by homology)	PTGER4
	Indoleamine 2,3-dioxygenase	IDO1
	Protein Mdm4	MDM4
	C-C chemokine receptor type 1	CCR1
	p53-binding protein Mdm-2	MDM2
	ς opioid receptor	SIGMAR1
	Muscarinic acetylcholine receptor M4	CHRM4
	Potassium-transporting ATPase α chain 2	ATP12A
	Prostanoid IP receptor	PTGIR
	Protein kinase C γ	PRKCG
	Protein kinase C δ	PRKCD
	Protein kinase C β	PRKCB
	Protein kinase C ε	PRKCE
	Protein kinase C θ	PRKCQ
	Anti-estrogen binding site (AEBS)	DHCR7
	Fatty acid binding protein adipocyte	FABP4
	Fatty acid binding protein muscle	FABP3
	Fatty acid binding protein epidermal	FABP5
	Fatty acid-binding protein, liver	FABP1
	Prostaglandin E synthase	PTGES
	T-cell protein-tyrosine phosphatase	PTPN2
	Adenosine A3 receptor	ADORA3
	MAP kinase ERK1	MAPK3
	Protein-tyrosine phosphatase 2C	PTPN11
	Aldo-keto reductase family 1 member B10	AKR1B10
	Voltage-gated potassium channel subunit Kv1.5	KCNA5
	Acetyl-CoA carboxylase 2	ACACB
	Receptor-type tyrosine-protein phosphatase F (LAR)	PTPRF
	Phospholipase A2 group 1B	PLA2G1B
	Low molecular weight phosphotyrosine protein phosphatase	ACP1
	β-secretase 1	BACE1
	Serotonin 2b (5-HT2b) receptor	HTR2B
	Platelet activating factor receptor	PTAFR
	Metabotropic glutamate receptor 2	GRM2

	Acyl-CoA desaturase	SCD
	β secretase 2	BACE2
	Monoglyceride lipase	MGLL
	Protein kinase C η	PRKCH
	Neurokinin 1 receptor (by homology)	TACR1
	Peroxisome proliferator-activated receptor α	PPARA
	Proteinase-activated receptor 1	F2R
	ALK tyrosine kinase receptor	ALK
	Insulin-like growth factor I receptor	IGF1R
	Tyrosine-protein kinase SRC	SRC
	Vascular endothelial growth factor receptor 2	KDR
	Type-1 angiotensin II receptor (by homology)	AGTR1
	DNA topoisomerase II α	TOP2A
	Vasopressin V2 receptor	AVPR2
	Vasopressin V1a receptor	AVPR1A
	Melatonin receptor 1A	MTNR1A
	Melatonin receptor 1B	MTNR1B
	Muscarinic acetylcholine receptor M5	CHRM5
	Interleukin-6 receptor subunit β	IL6ST
	MAP kinase p38 α	MAPK14
Vanillin	Serine/threonine-protein kinase/endoribonuclease IRE1	ERN1
	Carbonic anhydrase II	CA2
	Carbonic anhydrase VII	CA7
	Carbonic anhydrase I	CA1
	Carbonic anhydrase XII	CA12
	Carbonic anhydrase XIV	CA14
	Carbonic anhydrase IX	CA9
	Carbonic anhydrase IV	CA4
	Carbonic anhydrase III	CA3
	Carbonic anhydrase VI	CA6
	Carbonic anhydrase VA	CA5A
	Dual specificity phosphatase Cdc25B	CDC25B
	Leukocyte common antigen	PTPRC
	Histone acetyltransferase p300	EP300
	Transthyretin	TTR
	Arylamine N-acetyltransferase 1	NAT1
	Alkaline phosphatase placental-like	ALPG
	Phospholipase A-2-activating protein	PLAA
	Aldo-keto-reductase family 1 member C3	AKR1C3
	Matrix metalloproteinase 1	MMP1
	Myoglobin	MB

	Serine/threonine-protein kinase PIM1	PIM1
	Histone deacetylase 3	HDAC3
	Angiotensin-converting enzyme (by homology)	ACE
	Acetylcholinesterase	ACHE
	α-(1,3)-fucosyltransferase 7	FUT7
	Carbonic anhydrase VB	CA5B
	Phosphodiesterase 5A	PDE5A
	Hematopoietic cell protein-tyrosine phosphatase 70Z-PEP	PTPN22
	Calcium-activated potassium channel subunit α-1	KCNMA1
	Dual specificity protein phosphatase 1 (by homology)	DUSP1
	Tyrosine-protein kinase FYN	FYN
	Tyrosine-protein kinase LCK	LCK
	PI3-kinase p110-δ subunit	PIK3CD
	DNA-dependent protein kinase	PRKDC
	PI3-kinase p110-γ subunit	PIK3CG
	CDGSH iron-sulfur domain-containing protein 1	CISD1
	Vascular cell adhesion protein 1	VCAM1
	Sodium/hydrogen exchanger 1	SLC9A1
	Thiopurine S-methyltransferase	TPMT
	Catechol O-methyltransferase (by homology)	COMT
	Neuronal acetylcholine receptor protein α-7 subunit	CHRNA7
	Inosine-5'-monophosphate dehydrogenase 2	IMPDH2
	Myeloperoxidase	MPO
	Matrix metalloproteinase 9	MMP9
	Matrix metalloproteinase 2	MMP2
	MAP kinase-interacting serine/threonine-protein kinase MNK1	MKNK1
	Monoamine oxidase B	MAOB
	Histone chaperone ASF1A	ASF1A
	Tubulin β-1 chain	TUBB1
	Indoleamine 2,3-dioxygenase	IDO1
	Metabotropic glutamate receptor 5	GRM5
	Histone deacetylase 6	HDAC6
	Alkaline phosphatase, tissue-nonspecific isozyme	ALPL
	Thymidylate synthase	TYMS
	Hydroxycarboxylic acid receptor 2	HCAR2
	Matrix metalloproteinase 8	MMP8
	Matrix metalloproteinase 3	MMP3
	PI3-kinase p110-α subunit	PIK3CA
	Adenylate cyclase type V	ADCY5

	D-amino-acid oxidase	DAO
	Cathepsin L	CTSL
	Serine/threonine-protein kinase PIM3	PIM3
	Amine oxidase, copper containing	AOC3
	c-Jun N-terminal kinase 2	MAPK9
	Neprilysin (by homology)	MME
	Heme oxygenase 1 (by homology)	HMOX1
	Protein kinase C μ	PRKD1
	Serine/threonine-protein kinase D2	PRKD2
	Protein-glutamine γ-glutamyltransferase	TGM2
	Poly [ADP-ribose] polymerase-1	PARP1
	Butyrylcholinesterase	BCHE
	Plasminogen activator inhibitor-1	SERPINE1
	Fructose-1,6-bisphosphatase	FBP1
	Cannabinoid receptor 1	CNR1
	Cannabinoid receptor 2	CNR2
	DNA polymerase α subunit	POLA1
	DNA polymerase β	POLB
	Induced myeloid leukemia cell differentiation protein Mcl-1	MCL1
	Histone deacetylase 8	HDAC8
	Methionine aminopeptidase 1	METAP1
	Leucine-rich repeat serine/threonine-protein kinase 2	LRRK2
	Lysine-specific demethylase 5C	KDM5C
	Lysine-specific demethylase 4B	KDM4B
	Lysine-specific demethylase 5B	KDM5B
	Lysine-specific demethylase 4A	KDM4A
	Muscarinic acetylcholine receptor M1 (by homology)	CHRM1
	Steroid 5-α-reductase 2	SRD5A2
	Aldehyde dehydrogenase 1A1	ALDH1A1
	Acyl coenzyme A:cholesterol acyltransferase	CES1
	Histone deacetylase 5	HDAC5
	Histone deacetylase 7	HDAC7
	MAP kinase ERK2	MAPK1
	Cathepsin (V and K)	CTSV
	Serum albumin	ALB
	HMG-CoA reductase	HMGCR
	Prostaglandin E synthase	PTGES
	Tyrosine-protein kinase ABL	ABL1
	Death-associated protein kinase 3	DAPK3
	Tyrosine-protein kinase SRC	SRC

Palmitic Acid	Fatty acid binding protein adipocyte	FABP4
	Peroxisome proliferator-activated receptor α	PPARA
	Fatty acid binding protein muscle	FABP3
	Fatty acid binding protein epidermal	FABP5
	Peroxisome proliferator-activated receptor δ	PPARD
	Fatty acid binding protein intestinal	FABP2
	Free fatty acid receptor 1	FFAR1
	Solute carrier family 22 member 6 (by homology)	SLC22A6
	Dual specificity phosphatase Cdc25A	CDC25A
	11-β-hydroxysteroid dehydrogenase 1	HSD11B1
	Aldo-keto reductase family 1 member B10	AKR1B10
	DNA polymerase β	POLB
	Vitamin D receptor	VDR
	Bile acid receptor FXR	NR1H4
	Histone lysine demethylase PHF8	PHF8
	UDP-glucuronosyltransferase 2B7	UGT2B7
	Cytochrome P450 19A1	CYP19A1
	Corticosteroid binding globulin	SERPINA6
	Testis-specific androgen-binding protein	SHBG
	Estradiol 17-β-dehydrogenase 3	HSD17B3
	Glucose-6-phosphate 1-dehydrogenase	G6PD
	GABA-B receptor (by homology)	GABBR1
	Prostanoid EP2 receptor	PTGER2
	Lysine-specific demethylase 2A	KDM2A
	Lysine-specific demethylase 5C	KDM5C
	G-protein coupled bile acid receptor 1	GPBAR1
	Niemann-Pick C1-like protein 1	NPC1L1
	GABA A receptor α-2/β-2/γ-2	GABRA2
	Protein farnesyltransferase	FNTA
	Androgen Receptor	AR
	Hydroxyacid oxidase 1	HAO1
	Prostanoid FP receptor	PTGFR
	Protein-tyrosine phosphatase 1B	PTPN1
	11-β-hydroxysteroid dehydrogenase 2	HSD11B2
	Glutathione S-transferase κ 1	GSTK1
	Leukotriene A4 hydrolase	LTA4H
	Carbonic anhydrase II	CA2
	Carbonic anhydrase I	CA1
	Nuclear receptor subfamily 0 group B member 2	NR0B2
	CDC45-related protein	CDC45
	Leukocyte common antigen	PTPRC
	Peroxisome proliferator-activated receptor γ	PPARG

	Cytochrome P450 26A1	CYP26A1
	Retinoid X receptor α	RXRA
	Retinoic acid receptor γ	RARG
	Retinoic acid receptor β	RARB
	Retinoic acid receptor α	RARA
	Anandamide amidohydrolase	FAAH
	Telomerase reverse transcriptase	TERT
	Fatty acid-binding protein, liver	FABP1
	Cytochrome P450 26B1	CYP26B1
	Retinoid X receptor γ (by homology)	RXRG
	G-protein coupled receptor 120	FFAR4
	Voltage-gated calcium channel α2/δ subunit 1	CACNA2D1
	Retinoid X receptor β	RXRB
	Monocarboxylate transporter 1 (by homology)	SLC16A1
	Arachidonate 15-lipoxygenase	ALOX15
	Arachidonate 12-lipoxygenase	ALOX12
	Prostanoid EP4 receptor	PTGER4
	Glycine receptor subunit α-1	GLRA1
	Epoxide hydratase	EPHX2
	Multidrug resistance-associated protein 1	ABCC1
	P-glycoprotein 1	ABCB1
	Neuronal acetylcholine receptor protein α-7 subunit (by homology)	CHRNA7
	Cytosolic phospholipase A2	PLA2G4A
	Prostaglandin E synthase	PTGES
	Acyl-CoA desaturase	SCD
	SUMO-activating enzyme	SAE1
	Metabotropic glutamate receptor 5	GRM5
	Plasminogen	PLG
	Serotonin 2b (5-HT2b) receptor	HTR2B
	Nuclear receptor ROR-β	RORB
	MAP kinase ERK2	MAPK1
	Nuclear receptor ROR-α	RORA
	G protein-coupled receptor 44	PTGDR2
	Intercellular adhesion molecule (ICAM-1), Integrin α-L/β-2	ITGAL
	Thromboxane A2 receptor	TBXA2R
	Hepatocyte nuclear factor 4-α	HNF4A
	Matrix metalloproteinase 2	MMP2
	Aldo-keto reductase family 1 member C1	AKR1C1
	HMG-CoA reductase	HMGCR
	Autotaxin	ENPP2
	Progesterone receptor	PGR

	Transient receptor potential cation channel subfamily A member 1	TRPA1
	Methionine aminopeptidase 1	METAP1
	Plasma retinol-binding protein	RBP4
	Glucagon	GCG
	Steryl-sulfatase	STS
	Prostanoid DP receptor	PTGDR
	γ-secretase	PSEN2
	Leukocyte adhesion glycoprotein LFA-1 α	ITGAL
	AMPK α2/β1/γ1	PRKAG1
	Thyroid hormone receptor α	THRA
	Thyroid hormone receptor β-1	THRB
	Neprilysin (by homology)	MME
	Prostanoid EP3 receptor	PTGER3
	Diacylglycerol O-acyltransferase 1	DGAT1
	α-2b adrenergic receptor	ADRA2B
	MAP kinase p38 α	MAPK14
	Prostaglandin E synthase 2	PTGES2
Sucrose	Cyclin-dependent kinase 1	CDK1
	Heat shock protein HSP 90-α	HSP90AA1
	Vascular endothelial growth factor A	VEGFA
	γ-secretase	PSEN2
	Acidic fibroblast growth factor	FGF1
	Heparanase	HPSE
	Basic fibroblast growth factor	FGF2
	Galectin-4	LGALS4
	Galectin-3	LGALS3
	Galectin-8	LGALS8
	Serotonin 2b (5-HT2b) receptor	HTR2B
	α-2a adrenergic receptor	ADRA2A
	Adrenergic receptor α-2	ADRA2C
	α-2b adrenergic receptor	ADRA2B
	Dopamine D1 receptor	DRD1
	Dopamine D2 receptor	DRD2
	α-1d adrenergic receptor	ADRA1D
	Serotonin 2a (5-HT2a) receptor	HTR2A
	Serotonin 2c (5-HT2c) receptor	HTR2C
	Dopamine D3 receptor	DRD3
	Cytochrome P450 2D6	CYP2D6
	Serotonin 6 (5-HT6) receptor	HTR6
	α-1a adrenergic receptor (by homology)	ADRA1A
	Serotonin 1b (5-HT1b) receptor (by homology)	HTR1B

	Glutamate carboxypeptidase II	FOLH1
	Nuclear receptor ROR-γ	RORC
	Vanilloid receptor	TRPV1
	Signal transducer and activator of transcription 3	STAT3
	Liver glycogen phosphorylase	PYGL
	Muscle glycogen phosphorylase	PYGM
	Brain glycogen phosphorylase	PYGB
	Adenosylhomocysteinase (by homology)	AHCY
	κ Opioid receptor	OPRK1
	Carbonic anhydrase II	CA2
	Carbonic anhydrase I	CA1
	Carbonic anhydrase IX	CA9
	Interleukin-2	IL2
	NAALADase II	NAALAD2
	Sodium channel protein type IX α subunit	SCN9A
	Trehalase	TREH
	Carbonic anhydrase XII	CA12
	Glycine receptor subunit α-1	GLRA1
	Glycine receptor subunit α-2	GLRA2
	γ-glutamyl hydrolase	GGH
	Somatostatin receptor 5	SSTR5
	Somatostatin receptor 2	SSTR2
	Somatostatin receptor 4	SSTR4
	Somatostatin receptor 1	SSTR1
	Somatostatin receptor 3	SSTR3
	Sialidase 3	NEU3
	Sialidase 2	NEU2
	Sialidase 4	NEU4
	Bifunctional protein NCOAT	OGA
	Endothelin-converting enzyme 1	ECE1
	Vitamin D receptor	VDR
	Pancreatic α-amylase	AMY2A
	Maltase-glucoamylase	MGAM
	Sucrase-isomaltase	SI
	Platelet activating factor receptor (by homology)	PTAFR
	Kynurenine 3-monooxygenase (by homology)	KMO
	Insulin-like growth factor II receptor	IGF2R
	Apoptosis regulator Bcl-X	BCL2L1
	Adenosine A2a receptor (by homology)	ADORA2A
	Adenosine A1 receptor (by homology)	ADORA1
	Carbonic anhydrase VII	CA7
	Carbonic anhydrase VI	CA6

	Carbonic anhydrase XIV	CA14
	Carbonic anhydrase IV	CA4
	Carbonic anhydrase XIII	CA13
	Carbonic anhydrase VB	CA5B
	Carbonic anhydrase VA	CA5A
	Adenosine deaminase	ADA
	Adenosine A3 receptor	ADORA3
	Protein phosphatase 2C α	PPM1A
	Aldose reductase	AKR1B1
	Leucine aminopeptidase	LAP3
	Motilin receptor	MLNR
	HERG	KCNH2
	μ opioid receptor	OPRM1
	Caspase-3	CASP3
	Aldo-keto-reductase family 1 member C3	AKR1C3
	Tyrosinase	TYR
	α-L-fucosidase I	FUCA1
	Fructose-1,6-bisphosphatase	FBP1
	Angiotensin-converting enzyme	ACE
	Thiopurine S-methyltransferase	TPMT
	β-glucocerebrosidase	GBA
	Thymidylate kinase	DTYMK
	Hexokinase type II	HK2
	Hexokinase type I	HK1
	Cytidine deaminase (by homology)	CDA
	Squalene synthetase (by homology)	FDFT1
	Galectin-9	LGALS9
	Norepinephrine transporter	SLC6A2
	11-β-hydroxysteroid dehydrogenase 2	HSD11B2
	11-β-hydroxysteroid dehydrogenase 1	HSD11B1
	Sodium/potassium-transporting ATPase α-1 chain	ATP1A1
	P-glycoprotein 1	ABCB1
	Bile salt export pump	ABCB11
	Protein kinase C γ	PRKCG
Succinic Acid	Egl nine homolog 1	EGLN1
	Histone deacetylase 3	HDAC3
	Histone lysine demethylase PHF8	PHF8
	ATP-citrate synthase	ACLY
	Protein farnesyltransferase	FNTA
	GABA transporter 1	SLC6A1
	GABA-A receptor; α-1/β-2/γ-2	GABRA1
	GABA A receptor α-3/β-2/γ-2	GABRA3

	GABA A receptor α-2/β-2/γ-2	GABRA2
	GABA-B receptor	GABBR2
	GABA receptor ρ-1 subunit	GABRR1
	GABA transporter 3	SLC6A11
	Solute carrier family 22 member 6 (by homology)	SLC22A6
	GABA transporter 2 (by homology)	SLC6A13
	Hydroxyacid oxidase 1	HAO1
	Fatty acid binding protein adipocyte	FABP4
	Peroxisome proliferator-activated receptor α	PPARA
	Fatty acid binding protein muscle	FABP3
	Fatty acid binding protein epidermal	FABP5
	Peroxisome proliferator-activated receptor δ	PPARD
	Free fatty acid receptor 1	FFAR1
	Fatty acid binding protein intestinal	FABP2
	HMG-CoA reductase	HMGCR
	11-β-hydroxysteroid dehydrogenase 1	HSD11B1
	Prostanoid EP2 receptor	PTGER2
	Prostanoid FP receptor	PTGFR
	Neuronal acetylcholine receptor protein α-7 subunit (by homology)	CHRNA7
	Squalene synthetase (by homology)	FDFT1
	Androgen Receptor	AR
	Vitamin D receptor	VDR
	Niemann-Pick C1-like protein 1	NPC1L1
	Bile acid receptor FXR	NR1H4
	Dual specificity phosphatase Cdc25A	CDC25A
	G-protein coupled bile acid receptor 1	GPBAR1
	Aldo-keto reductase family 1 member B10	AKR1B10
	DNA polymerase β (by homology)	POLB
	Lysine-specific demethylase 3A	KDM3A
	α-ketoglutarate-dependent dioxygenase FTO	FTO
	Lysine-specific demethylase 5A	KDM5A
	Hypoxia-inducible factor prolyl hydroxylase 1	EGLN2
	Lysine-specific demethylase 5B	KDM5B
	Egl nine homolog 3	EGLN3
	Lysine-specific demethylase 4A	KDM4A
	Hypoxia-inducible factor 1-α inhibitor	HIF1AN
	Lysine-specific demethylase 4D	KDM4D
	Lysine-specific demethylase 4C	KDM4C
	Carbonic anhydrase I	CA1
	Carbonic anhydrase IX	CA9
	Aminopeptidase B	RNPEP

	UDP-glucuronosyltransferase 2B7	UGT2B7
	Lysine-specific demethylase 6B	KDM6B
	Glutamate carboxypeptidase II	FOLH1
	Cytochrome P450 19A1	CYP19A1
	Corticosteroid binding globulin	SERPINA6
	Testis-specific androgen-binding protein	SHBG
	Estradiol 17-β-dehydrogenase 3	HSD17B3
	Glucose-6-phosphate 1-dehydrogenase	G6PD
	GABA-B receptor (by homology)	GABBR1
	Lysine-specific demethylase 2A	KDM2A
	Lysine-specific demethylase 5C	KDM5C
	Angiotensin-converting enzyme (by homology)	ACE
	Lysine-specific demethylase 4D-like	KDM4E
Alexandrin	Interleukin-2	IL2
	Signal transducer and activator of transcription 3	STAT3
	Sphingosine 1-phosphate receptor Edg-3	S1PR3
	Sphingosine 1-phosphate receptor Edg-1	S1PR1
	γ-secretase	PSEN2
	Sphingosine 1-phosphate receptor Edg-8	S1PR5
	Sphingosine 1-phosphate receptor Edg-6	S1PR4
	Plasma retinol-binding protein	RBP4
	Platelet activating factor receptor	PTAFR
	6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 3	PFKFB3
	Vascular endothelial growth factor receptor 1	FLT1
	Hepatocyte growth factor receptor	MET
	Protein phosphatase 2C β	PPM1B
	Serine/threonine protein phosphatase PP1-γ catalytic subunit	PPP1CC
	Serine/threonine protein phosphatase 2A, catalytic subunit, α isoform	PPP2CA
	Serine/threonine protein phosphatase 2A, 56 kDa regulatory subunit, α isoform	PPP2R5A
	Arachidonate 5-lipoxygenase	ALOX5
	11-β-hydroxysteroid dehydrogenase 2	HSD11B2
	Transitional endoplasmic reticulum ATPase	VCP
	Protein-tyrosine phosphatase 1B	PTPN1
	Monoamine oxidase A	MAOA
	Adenosine A1 receptor	ADORA1
	Adenosine A2b receptor	ADORA2B
	Adenosine A3 receptor	ADORA3
	MAP kinase p38 α	MAPK14
	Dual specificity phosphatase Cdc25B (by	CDC25B

	homology)	
	Acetylcholinesterase	ACHE
	15-hydroxyprostaglandin dehydrogenase [NAD+]	HPGD
	C-X-C chemokine receptor type 3	CXCR3
	Dopamine D4 receptor	DRD4
	Peroxisome proliferator-activated receptor α	PPARA
	Glucose-dependent insulinotropic receptor	GPR119
	Tyrosine-protein kinase JAK2	JAK2
	Histone deacetylase 6	HDAC6
	Acetyl-CoA carboxylase 2	ACACB
	T-cell protein-tyrosine phosphatase	PTPN2
	Low molecular weight phosphotyrosine protein phosphatase	ACP1
	Macrophage colony stimulating factor receptor	CSF1R
	Muscarinic acetylcholine receptor M4	CHRM4
	Muscarinic acetylcholine receptor M5	CHRM5
	Muscarinic acetylcholine receptor M2	CHRM2
	Muscarinic acetylcholine receptor M1	CHRM1
	Muscarinic acetylcholine receptor M3	CHRM3
	Tyrosine-protein kinase receptor TYRO3	TYRO3
	Acyl-CoA desaturase	SCD
	Niemann-Pick C1-like protein 1	NPC1L1
	Cytochrome P450 2C9	CYP2C9
	Cytochrome P450 3A4	CYP3A4
	Cytochrome P450 2C19	CYP2C19
	Apoptosis regulator Bcl-X	BCL2L1
	Matrix metalloproteinase 13	MMP13
	Matrix metalloproteinase 1	MMP1
	ADAM17	ADAM17
	Adrenergic receptor β	ADRB2
	β-1 adrenergic receptor	ADRB1
	β-3 adrenergic receptor	ADRB3
	Nuclear receptor ROR-γ	RORC
	Bromodomain-containing protein 4	BRD4
	Histone deacetylase 3	HDAC3
	Histone deacetylase 1	HDAC1
	11-β-hydroxysteroid dehydrogenase 1	HSD11B1
	Intercellular adhesion molecule (ICAM-1), Integrin α-L/β-2	ITGAL
	Serine/threonine-protein kinase PLK1	PLK1
	Fatty acid synthase	FASN
	Pyruvate dehydrogenase kinase isoform 1	PDK1
	Heat shock protein HSP 90-α	HSP90AA1

	C-C chemokine receptor type 5	CCR5
	Thymidylate synthase (by homology)	TYMS
	Vascular endothelial growth factor A	VEGFA
	Acidic fibroblast growth factor	FGF1
	Basic fibroblast growth factor	FGF2
	Heparanase	HPSE
	Carbonic anhydrase I	CA1
	Renin	REN
	Histone deacetylase 2	HDAC2
	p53-binding protein Mdm-2	MDM2
	Sodium/potassium-transporting ATPase α-1 chain	ATP1A1
	Protein-tyrosine phosphatase 2C	PTPN11
	Epoxide hydratase	EPHX2
	Serotonin 4 (5-HT4) receptor	HTR4
	Niemann-Pick C1 protein	NPC1
	Receptor protein-tyrosine kinase erbB-2	ERBB2
	Epidermal growth factor receptor erbB1	EGFR
	Serotonin 1a (5-HT1a) receptor	HTR1A
	Serotonin transporter	SLC6A4
	Cathepsin L	CTSL
	DNA polymerase α subunit	POLA1
	Dual specificity mitogen-activated protein kinase kinase 1	MAP2K1
	Induced myeloid leukemia cell differentiation protein Mcl-1	MCL1
	Sodium channel protein type V α subunit	SCN5A
	Phosphodiesterase 4B	PDE4B
	Cytosolic phospholipase A2	PLA2G4A
	Sodium channel protein type IX α subunit	SCN9A
	β-secretase 1	BACE1
	Perforin-1	PRF1
	Stem cell growth factor receptor	KIT
	Tyrosine-protein kinase receptor FLT3	FLT3
	Serine/threonine-protein kinase Aurora-B	AURKB
	Serine/threonine-protein kinase Aurora-A	AURKA
	Serine/threonine-protein kinase PIM1	PIM1
P-Hydroxybenzaldehyde	Carbonic anhydrase II	CA2
	Carbonic anhydrase VII	CA7
	Carbonic anhydrase I	CA1
	Carbonic anhydrase III	CA3
	Carbonic anhydrase VI	CA6
	Carbonic anhydrase XII	CA12
	Carbonic anhydrase XIV	CA14

	Carbonic anhydrase IX	CA9
	Carbonic anhydrase IV	CA4
	Carbonic anhydrase VB	CA5B
	Carbonic anhydrase VA	CA5A
	Carbonic anhydrase XIII (by homology)	CA13
	Serine/threonine-protein kinase/endoribonuclease IRE1	ERN1
	Catechol O-methyltransferase (by homology)	COMT
	Acetylcholinesterase	ACHE
	Succinate semialdehyde dehydrogenase	ALDH5A1
	Tyrosinase (by homology)	TYR
	γ-amino-N-butyrate transaminase	ABAT
	α-(1,3)-fucosyltransferase 7	FUT7
	Poly [ADP-ribose] polymerase-1	PARP1
	Estrogen receptor β	ESR2
	Carboxylesterase 2	CES2
	Estradiol 17-β-dehydrogenase 1	HSD17B1
	D-amino-acid oxidase	DAO
	Induced myeloid leukemia cell differentiation protein Mcl-1	MCL1
	Dual-specificity tyrosine-phosphorylation regulated kinase 1A	DYRK1A
	Dual specificty protein kinase CLK1	CLK1
	Dual specificity tyrosine-phosphorylation-regulated kinase 1B	DYRK1B
	Steroid 5-α-reductase 2	SRD5A2
	Androgen Receptor (by homology)	AR
	Glycogen synthase kinase-3 β	GSK3B
	Estradiol 17-β-dehydrogenase 3	HSD17B3
	Estrogen receptor α	ESR1
	Myeloperoxidase	MPO
	Melatonin receptor 1A	MTNR1A
	Fatty acid synthase	FASN
	Serum albumin	ALB
	Estradiol 17-β-dehydrogenase 2	HSD17B2
	Steryl-sulfatase	STS
	Lysine-specific demethylase 4D-like	KDM4E
	L-lactate dehydrogenase A chain	LDHA
	L-lactate dehydrogenase B chain	LDHB
	Cannabinoid receptor 1	CNR1
	Acyl coenzyme A:cholesterol acyltransferase	CES1
	Cannabinoid receptor 2	CNR2
	Squalene monooxygenase (by homology)	SQLE

	Serotonin 6 (5-HT6) receptor	HTR6
	Estrogen-related receptor γ	ESRRG
	Monoamine oxidase B	MAOB
	Arachidonate 5-lipoxygenase	ALOX5
	GABA-A receptor; α-1/β-2/γ-2	GABRA1
	Cyclin-dependent kinase 1	CDK1
	Aldo-keto reductase family 1 member C2	AKR1C2
	Aldo-keto reductase family 1 member C1	AKR1C1
	Corticotropin releasing factor receptor 1	CRHR1
	Serotonin 2b (5-HT2b) receptor	HTR2B
	GABA-A receptor; α-1/β-3/γ-2	GABRB3
	Cyclooxygenase-1	PTGS1
	Norepinephrine transporter	SLC6A2
	Serotonin 2c (5-HT2c) receptor	HTR2C
	Dopamine D3 receptor	DRD3
	Apoptosis regulator Bcl-2	BCL2
	Retinoic acid receptor γ	RARG
	Retinoic acid receptor β	RARB
	Aldo-keto-reductase family 1 member C3	AKR1C3
	Testis-specific androgen-binding protein	SHBG
	Transient receptor potential cation channel subfamily A member 1	TRPA1
	Insulin-like growth factor I receptor	IGF1R
	Leukocyte elastase	ELANE
	ALK tyrosine kinase receptor	ALK
	Glutathione S-transferase A1	GSTA1
	Indoleamine 2,3-dioxygenase	IDO1
	Monoamine oxidase A	MAOA
	Arachidonate 15-lipoxygenase	ALOX15
	Cystic fibrosis transmembrane conductance regulator	CFTR
	Apoptosis regulator Bcl-X	BCL2L1
	G protein-coupled receptor 44	PTGDR2
	Aldehyde dehydrogenase	ALDH2
	Coagulation factor VII/tissue factor	F3
	Protein-tyrosine phosphatase 1B	PTPN1
	G-protein coupled receptor 35	GPR35
	Thymidylate synthase	TYMS
	Cyclooxygenase-2	PTGS2
	Plasminogen activator inhibitor-1	SERPINE1
	Dipeptidyl peptidase IV	DPP4
	α-2a adrenergic receptor	ADRA2A
	Adrenergic receptor α-2	ADRA2C

	α-2b adrenergic receptor	ADRA2B
	Muscarinic acetylcholine receptor M2	CHRM2
	Muscarinic acetylcholine receptor M1	CHRM1
	Serotonin transporter	SLC6A4
	Neurokinin 2 receptor	TACR2
	Dopamine transporter	SLC6A3
	Muscarinic acetylcholine receptor M3	CHRM3
	β-3 adrenergic receptor	ADRB3
	Adenosine A3 receptor	ADORA3
	Trace amine-associated receptor 1 (by homology)	TAAR1
	Transthyretin	TTR
Citric Acid	ATP-citrate synthase	ACLY
	Squalene synthetase (by homology)	FDFT1
	Neuronal acetylcholine receptor protein α-7 subunit (by homology)	CHRNA7
	Egl nine homolog 1	EGLN1
	HMG-CoA reductase	HMGCR
	Solute carrier family 22 member 6 (by homology)	SLC22A6
	Protein farnesyltransferase	FNTA
	Excitatory amino acid transporter 3	SLC1A1
	Prostanoid EP2 receptor	PTGER2
	Prostanoid FP receptor	PTGFR
	Niemann-Pick C1-like protein 1	NPC1L1
	Hydroxyacid oxidase 1	HAO1
	Lysine-specific demethylase 2A	KDM2A
	Histone lysine demethylase PHF8	PHF8
	Lysine-specific demethylase 5C	KDM5C
	Metabotropic glutamate receptor 3	GRM3
	Metabotropic glutamate receptor 2	GRM2
	Glutamate receptor ionotropic kainate 1	GRIK1
	Glutamate receptor ionotropic, AMPA 1	GRIA1
	Adenosine A3 receptor	ADORA3
	Glutamate receptor ionotropic kainate 5	GRIK5
	Metabotropic glutamate receptor 4	GRM4
	Glutamate receptor ionotropic, AMPA 4	GRIA4
	Metabotropic glutamate receptor 5	GRM5
	Metabotropic glutamate receptor 8	GRM8
	Glutamate receptor ionotropic kainate 2	GRIK2
	Glutamate receptor ionotropic kainate 3	GRIK3
	Metabotropic glutamate receptor 1	GRM1
	Metabotropic glutamate receptor 7	GRM7
	Glutamate receptor ionotropic, AMPA 2	GRIA2

	Metabotropic glutamate receptor 6	GRM6
	UDP-glucuronosyltransferase 2B7	UGT2B7
	Glutamate carboxypeptidase II	FOLH1
	6-phosphogluconate dehydrogenase	PGD
	Fatty acid binding protein adipocyte	FABP4
	Peroxisome proliferator-activated receptor α	PPARA
	Fatty acid binding protein muscle	FABP3
	Fatty acid binding protein epidermal	FABP5
	Peroxisome proliferator-activated receptor δ	PPARD
	Free fatty acid receptor 1	FFAR1
	Fatty acid binding protein intestinal	FABP2
	Bile acid receptor FXR	NR1H4
	Glucose-6-phosphate 1-dehydrogenase	G6PD
	G-protein coupled bile acid receptor 1	GPBAR1
	Carnitine O-palmitoyltransferase 1, liver isoform (by homology)	CPT1A
	11-β-hydroxysteroid dehydrogenase 1	HSD11B1
	11-β-hydroxysteroid dehydrogenase 2	HSD11B2
	Androgen Receptor	AR
	Vitamin D receptor	VDR
	Cytochrome P450 19A1	CYP19A1
	GABA A receptor α-2/β-2/γ-2	GABRA2
	Dual specificity phosphatase Cdc25A	CDC25A
	Aldo-keto reductase family 1 member B10	AKR1B10
	DNA polymerase β (by homology)	POLB
	Histone deacetylase 3	HDAC3
	Excitatory amino acid transporter 2	SLC1A2
	Carbonic anhydrase I	CA1
	Carbonic anhydrase IX	CA9
	Aminopeptidase B	RNPEP
	Prostaglandin E synthase	PTGES
	Corticosteroid binding globulin	SERPINA6
	Testis-specific androgen-binding protein	SHBG
	Estradiol 17-β-dehydrogenase 3	HSD17B3
	GABA-B receptor (by homology)	GABBR1
Bis(4-Hydroxybenzyl)Ether	Estrogen receptor β	ESR2
	Carbonic anhydrase II	CA2
	Carbonic anhydrase I	CA1
	Carbonic anhydrase IX	CA9
	Carbonic anhydrase XIV	CA14
	Estrogen receptor α	ESR1
	Carbonic anhydrase VII	CA7

	Carbonic anhydrase XII	CA12
	Dual-specificity tyrosine-phosphorylation regulated kinase 1A	DYRK1A
	Dual specificty protein kinase CLK1	CLK1
	Dual specificity tyrosine-phosphorylation-regulated kinase 1B	DYRK1B
	Solute carrier family 22 member 12	SLC22A12
	Adenosine A1 receptor	ADORA1
	Adenosine A2a receptor	ADORA2A
	Adenosine A2b receptor	ADORA2B
	Induced myeloid leukemia cell differentiation protein Mcl-1	MCL1
	Cyclin-dependent kinase 2	CDK2
	Squalene monooxygenase (by homology)	SQLE
	G protein-coupled receptor kinase 6	GRK6
	Protein-tyrosine phosphatase 1B	PTPN1
	Cyclooxygenase-2	PTGS2
	Endothelin receptor ET-A	EDNRA
	PI3-kinase p110-γ subunit	PIK3CG
	PI3-kinase p110-α subunit	PIK3CA
	Urokinase-type plasminogen activator	PLAU
	c-Jun N-terminal kinase 2	MAPK9
	Neuronal acetylcholine receptor protein α-7 subunit	CHRNA7
	Serine/threonine-protein kinase Chk1	CHEK1
	Serine/threonine-protein kinase WEE1	WEE1
	Histone deacetylase 3	HDAC3
	Tyrosine-protein kinase ABL	ABL1
	Histone deacetylase 6	HDAC6
	Histone deacetylase 2	HDAC2
	PI3-kinase p110-δ subunit	PIK3CD
	DNA-dependent protein kinase	PRKDC
	Tyrosine-protein kinase HCK	HCK
	Histone deacetylase 1	HDAC1
	Endothelin receptor ET-B	EDNRB
	Metabotropic glutamate receptor 5	GRM5
	Glycogen synthase kinase-3 β	GSK3B
	Catechol O-methyltransferase	COMT
	β-secretase 1	BACE1
	Norepinephrine transporter	SLC6A2
	Tyrosine-protein kinase receptor FLT3	FLT3
	Matrix metalloproteinase 9	MMP9
	Matrix metalloproteinase 1	MMP1

	Matrix metalloproteinase 2	MMP2
	ADAM17	ADAM17
	Matrix metalloproteinase 8	MMP8
	Matrix metalloproteinase 13	MMP13
	C-C chemokine receptor type 9	CCR9
	Serine/threonine-protein kinase mTOR	MTOR
	Neprilysin	MME
	Matrix metalloproteinase 3	MMP3
	Matrix metalloproteinase 14	MMP14
	Phenylethanolamine N-methyltransferase	PNMT
	Neuropeptide Y receptor type 5	NPY5R
	Glucagon receptor (by homology)	GCGR
	14-3-3 protein γ	YWHAG
	Dual specificity phosphatase Cdc25A	CDC25A
	Dual specificity phosphatase Cdc25B	CDC25B
	Carboxypeptidase B	CPB1
	Histone deacetylase 8	HDAC8
	Estrogen-related receptor α	ESRRA
	Estrogen-related receptor β	ESRRB
	Immunoglobulin ε Fc receptor	FCER2
	UDP-N-acetylglucosamine--peptide N-acetylglucosaminyltransferase 110 kDa subunit	OGT
	Cystinyl aminopeptidase	LNPEP
	NF-κB inhibitor α	NFKBIA
	Histone deacetylase 5	HDAC5
	Tyrosine-protein kinase SYK	SYK
	Histone deacetylase 7	HDAC7
	Histone deacetylase 4	HDAC4
	Serine/threonine-protein kinase B-raf	BRAF
	PI3-kinase p110-α/p85-α	PIK3CA
	Adenylate cyclase type V	ADCY5
	Serine/threonine-protein kinase PIM1	PIM1
	Tyrosine-protein kinase JAK1	JAK1
	Tyrosine-protein kinase JAK2	JAK2
	Matrix metalloproteinase 7	MMP7
	Purine nucleoside phosphorylase	PNP
	Cytochrome P450 19A1	CYP19A1
	Serine/threonine-protein kinase ILK-1	ILK
	Cyclooxygenase-1	PTGS1
	Cytochrome b-c1 complex subunit 7	UQCRB
	Anandamide amidohydrolase	FAAH
	LDL-associated phospholipase A2	PLA2G7

	Cytochrome P450 17A1	CYP17A1
	Prostanoid EP3 receptor	PTGER3
	Histone acetyltransferase p300	EP300
	Heat shock protein HSP 90-α	HSP90AA1
	Monoglyceride lipase	MGLL
	Sodium channel protein type IX α subunit	SCN9A
	p53-binding protein Mdm-2	MDM2
	Mitogen-activated protein kinase kinase kinase 12	MAP3K12
	Arachidonate 5-lipoxygenase	ALOX5
	Cytochrome P450 11B1	CYP11B1
	Dopamine D3 receptor	DRD3
	Cytochrome P450 11B2	CYP11B2
	Estradiol 17-β-dehydrogenase 3	HSD17B3
Protocatechuic Aldehyde	Carbonic anhydrase VI	CA6
	Carbonic anhydrase IV	CA4
	Carbonic anhydrase III	CA3
	α-(1,3)-fucosyltransferase 7	FUT7
	Carbonic anhydrase VB	CA5B
	Carbonic anhydrase VA	CA5A
	Carbonic anhydrase II	CA2
	Tyrosinase (by homology)	TYR
	Carbonic anhydrase VII	CA7
	Carbonic anhydrase I	CA1
	Carbonic anhydrase XII	CA12
	Carbonic anhydrase XIV	CA14
	Carbonic anhydrase IX	CA9
	Serine/threonine-protein kinase/endoribonuclease IRE1	ERN1
	Catechol O-methyltransferase (by homology)	COMT
	Dual specificity phosphatase Cdc25B	CDC25B
	Dual specificity protein phosphatase 1 (by homology)	DUSP1
	Dual-specificity tyrosine-phosphorylation regulated kinase 1A	DYRK1A
	Dual specificty protein kinase CLK1	CLK1
	Dual specificity tyrosine-phosphorylation-regulated kinase 1B	DYRK1B
	Transthyretin	TTR
	Epidermal growth factor receptor erbB1	EGFR
	Serum albumin	ALB
	Histone deacetylase 1	HDAC1
	L-lactate dehydrogenase A chain	LDHA
	L-lactate dehydrogenase B chain	LDHB

	Succinate semialdehyde dehydrogenase	ALDH5A1
	γ-amino-N-butyrate transaminase	ABAT
	Fatty acid synthase	FASN
	Steryl-sulfatase	STS
	Poly [ADP-ribose] polymerase-1	PARP1
	Indoleamine 2,3-dioxygenase	IDO1
	Lysine-specific demethylase 4D-like	KDM4E
	Carbonic anhydrase XIII	CA13
	Estrogen receptor β	ESR2
	Induced myeloid leukemia cell differentiation protein Mcl-1	MCL1
	Apoptosis regulator Bcl-2	BCL2
	Histone deacetylase 6	HDAC6
	Histone deacetylase 2	HDAC2
	Myoglobin	MB
	Estrogen receptor α	ESR1
	Insulin-like growth factor I receptor	IGF1R
	ALK tyrosine kinase receptor	ALK
	Leukocyte common antigen	PTPRC
	Estradiol 17-β-dehydrogenase 1	HSD17B1
	Apoptosis regulator Bcl-X	BCL2L1
	Arachidonate 15-lipoxygenase	ALOX15
	Alkaline phosphatase placental-like	ALPG
	Phospholipase A-2-activating protein	PLAA
	Aldo-keto-reductase family 1 member C3	AKR1C3
	Proteasome Macropain subunit MB1	PSMB5
	G-protein coupled receptor 35	GPR35
	Dopamine β-hydroxylase	DBH
	Hydroxycarboxylic acid receptor 2	HCAR2
	Steroid 5-α-reductase 2	SRD5A2
	Estradiol 17-β-dehydrogenase 2	HSD17B2
	Plasminogen activator inhibitor-1	SERPINE1
	Voltage-gated potassium channel subunit Kv1.1	KCNA1
	Voltage-gated potassium channel subunit Kv1.4	KCNA4
	Arylamine N-acetyltransferase 1	NAT1
	Glycogen synthase kinase-3 β	GSK3B
	Estradiol 17-β-dehydrogenase 3	HSD17B3
	Corticotropin releasing factor receptor 1	CRHR1
	Dopamine D3 receptor	DRD3
	Thiopurine S-methyltransferase	TPMT
	Histone deacetylase 3	HDAC3
	Androgen Receptor (by homology)	AR

	Cyclooxygenase-1	PTGS1
	Transient receptor potential cation channel subfamily A member 1	TRPA1
	Melatonin receptor 1A	MTNR1A
	Acetylcholinesterase	ACHE
	PI3-kinase p110-δ subunit	PIK3CD
	DNA-dependent protein kinase	PRKDC
	PI3-kinase p110-γ subunit	PIK3CG
	Hematopoietic cell protein-tyrosine phosphatase 70Z-PEP	PTPN22
	Serotonin 2b (5-HT2b) receptor	HTR2B
	Dopamine D5 receptor	DRD5
	Melatonin receptor 1B	MTNR1B
	Monoamine oxidase A	MAOA
	Dopamine D1 receptor	DRD1
	Dopamine D2 receptor	DRD2
	Dopamine D4 receptor	DRD4
	Norepinephrine transporter	SLC6A2
	Dopamine transporter	SLC6A3
	Aldo-keto reductase family 1 member C2	AKR1C2
	Aldo-keto reductase family 1 member C1	AKR1C1
	Thrombin	F2
	Amine oxidase, copper containing	AOC3
	Tyrosyl-DNA phosphodiesterase 1	TDP1
	PI3-kinase p110-α subunit	PIK3CA
	Myeloperoxidase	MPO
	Cannabinoid receptor 1	CNR1
	Cannabinoid receptor 2	CNR2
	Butyrylcholinesterase	BCHE
	Neuronal acetylcholine receptor protein α-7 subunit	CHRNA7
	Histone acetyltransferase p300	EP300
	Lysosomal α-glucosidase	GAA
	Quinone reductase 2	NQO2
	Adenosine A1 receptor (by homology)	ADORA1
	Cathepsin (V and K)	CTSV
4,4'-Dihydroxydiphenyl Methane	Estrogen receptor α	ESR1
	Estrogen receptor β	ESR2
	Androgen Receptor	AR
	Serotonin 6 (5-HT6) receptor	HTR6
	Estrogen-related receptor γ	ESRRG
	Carbonic anhydrase II	CA2
	Carbonic anhydrase IV	CA4

	Arachidonate 5-lipoxygenase	ALOX5
	Cyclooxygenase-1	PTGS1
	Ribosomal protein S6 kinase α 3	RPS6KA3
	Arachidonate 15-lipoxygenase	ALOX15
	Arachidonate 12-lipoxygenase	ALOX12
	Cyclooxygenase-2	PTGS2
	Carbonic anhydrase VII	CA7
	Carbonic anhydrase XIV	CA14
	Carbonic anhydrase XIII	CA13
	Carbonic anhydrase VB	CA5B
	Carbonic anhydrase VA	CA5A
	Nuclear receptor ROR-γ	RORC
	Apoptosis regulator Bcl-X	BCL2L1
	Apoptosis regulator Bcl-2	BCL2
	GABA-A receptor; α-1/β-2/γ-2	GABRA1
	Dual-specificity tyrosine-phosphorylation regulated kinase 1A	DYRK1A
	Testis-specific androgen-binding protein	SHBG
	Cyclin-dependent kinase 5/CDK5 activator 1	CDK5R1
	GABA-A receptor; α-1/β-3/γ-2	GABRB3
	Serotonin 2b (5-HT2b) receptor	HTR2B
	Matrix metalloproteinase 9	MMP9
	Matrix metalloproteinase 1	MMP1
	Matrix metalloproteinase 2	MMP2
	α-ketoglutarate-dependent dioxygenase FTO	FTO
	Norepinephrine transporter	SLC6A2
	Steroid 5-α-reductase 1	SRD5A1
	D-amino-acid oxidase	DAO
	Indoleamine 2,3-dioxygenase	IDO1
	Steroid 5-α-reductase 2	SRD5A2
	Leukotriene A4 hydrolase	LTA4H
	Poly [ADP-ribose] polymerase-1	PARP1
	Alkaline phosphatase, tissue-nonspecific isozyme	ALPL
	Serine/threonine-protein kinase B-raf	BRAF
	β-3 adrenergic receptor	ADRB3
	Histone deacetylase 1	HDAC1
	Dual specificty protein kinase CLK1	CLK1
	Dual specificity tyrosine-phosphorylation-regulated kinase 1B	DYRK1B
	Nitric-oxide synthase, brain	NOS1
	Heat shock protein HSP 90-α	HSP90AA1
	Nitric-oxide synthase, endothelial	NOS3
	Tyrosine-protein kinase ABL	ABL1

	Protein kinase C α	PRKCA
	ρ-associated protein kinase 1	ROCK1
	cAMP-dependent protein kinase α-catalytic subunit	PRKACA
	Phenylethanolamine N-methyltransferase	PNMT
	Dual specificity protein phosphatase 3	DUSP3
	Serine/threonine-protein kinase WEE1	WEE1
	Cytochrome P450 19A1	CYP19A1
	Tyrosinase	TYR
	Dopamine D5 receptor	DRD5
	Interleukin-8 receptor A	CXCR1
	Neprilysin (by homology)	MME
	Dihydropteridine reductase	QDPR
	Transient receptor potential cation channel subfamily A member 1	TRPA1
	Uridine phosphorylase 1 (by homology)	UPP1
	Cathepsin L	CTSL
	Fatty acid synthase	FASN
	Insulin-like growth factor I receptor	IGF1R
	Histone deacetylase 6	HDAC6
	Trace amine-associated receptor 1 (by homology)	TAAR1
	Histone deacetylase 5	HDAC5
	Histone deacetylase 7	HDAC7
	LXR-α	NR1H3
	Histone deacetylase 9	HDAC9
	Dual specificity mitogen-activated protein kinase kinase 1	MAP2K1
	GABA-B receptor	GABBR2
	Epoxide hydratase	EPHX2
	Alkaline phosphatase placental-like	ALPG
	Phospholipase A-2-activating protein	PLAA
	Hepatocyte growth factor receptor	MET
	Serine/threonine-protein kinase Aurora-B	AURKB
	Cyclin-dependent kinase 2	CDK2
	Cyclin-dependent kinase 4	CDK4
	Phospholipase A2 group IIA	PLA2G2A
	Histamine H4 receptor	HRH4
	Heat shock protein HSP 90-β	HSP90AB1
	Serine/threonine-protein kinase Aurora-A	AURKA
	α-2a adrenergic receptor	ADRA2A
	Adrenergic receptor α-2	ADRA2C
	α-2b adrenergic receptor	ADRA2B
	Muscarinic acetylcholine receptor M1	CHRM1

	Serotonin transporter	SLC6A4
	Neurokinin 2 receptor	TACR2
	Dopamine transporter	SLC6A3
	Muscarinic acetylcholine receptor M3	CHRM3
	Adenosine A3 receptor	ADORA3
	Heat shock protein 75 kDa, mitochondrial	TRAP1
	HERG	KCNH2
	Microtubule-associated protein τ	MAPT
	Fibroblast growth factor receptor 1	FGFR1
	Acetylcholinesterase	ACHE
	NADPH oxidase 4	NOX4
	Insulin receptor	INSR
Gastrodin	Tyrosinase	TYR
	Cytidine deaminase (by homology)	CDA
	Adenosine A2a receptor (by homology)	ADORA2A
	Sodium/glucose cotransporter 2	SLC5A2
	Tyrosyl-DNA phosphodiesterase 1	TDP1
	Adenosine A1 receptor	ADORA1
	Aldose reductase	AKR1B1
	Sodium/glucose cotransporter 1	SLC5A1
	Low affinity sodium-glucose cotransporter	SLC5A4
	α-L-fucosidase I	FUCA1
	Maltase-glucoamylase	MGAM
	Trehalase	TREH
	Carbonic anhydrase XIV	CA14
	Glutamate carboxypeptidase II	FOLH1
	Adenosine A3 receptor	ADORA3
	Adenosine deaminase	ADA
	Sucrase-isomaltase	SI
	Hexokinase type II	HK2
	Hexokinase type I	HK1
	Pancreatic α-amylase	AMY2A
	Indoleamine 2,3-dioxygenase	IDO1
	Adenosine kinase	ADK
	Aldo-keto-reductase family 1 member C3	AKR1C3
	Hypoxanthine-guanine phosphoribosyltransferase	HPRT1
	Protein-tyrosine phosphatase 1B	PTPN1
	Steroid 5-α-reductase 1	SRD5A1
	Epoxide hydratase	EPHX2
	NAALADase II	NAALAD2
	Glyceraldehyde-3-phosphate dehydrogenase liver	GAPDH
	Heat shock cognate 71 kDa protein	HSPA8

	Purine nucleoside phosphorylase	PNP
	Rhodopsin kinase	GRK1
	Thymidylate kinase	DTYMK
	Carbonic anhydrase I	CA1
	Carbonic anhydrase XII	CA12
	Carbonic anhydrase IX	CA9
	Protein-tyrosine phosphatase 2C	PTPN11
	Insulin-like growth factor binding protein 3	IGFBP3
	78 kDa glucose-regulated protein	HSPA5
	Bifunctional protein NCOAT	OGA
	Equilibrative nucleoside transporter 1	SLC29A1
	PI3-kinase p110-γ subunit	PIK3CG
	PI3-kinase p110-α subunit	PIK3CA
	Cytochrome P450 19A1	CYP19A1
	MAP kinase ERK2	MAPK1
	Neprilysin (by homology)	MME
	Cyclin-dependent kinase 2/cyclin A	CDK2
	Dipeptidyl peptidase IV	DPP4
	Carbonic anhydrase VA	CA5A
	Carbonic anhydrase VI	CA6
	Adenosylhomocysteinase	AHCY
	Fructose-1,6-bisphosphatase	FBP1
	Glutamate receptor ionotropic kainate 1	GRIK1
	Insulin-like growth factor I receptor	IGF1R
	Insulin receptor	INSR
	Glutamate receptor ionotropic kainate 2	GRIK2
	Glutamate receptor ionotropic kainate 3	GRIK3
	Leukocyte adhesion molecule-1	SELL
	Selectin E	SELE
	P-selectin	SELP
	Carbonic anhydrase III	CA3
	Liver glycogen phosphorylase	PYGL
	Muscle glycogen phosphorylase	PYGM
	Carbonic anhydrase II	CA2
	Caspase-3	CASP3
	γ-glutamyl hydrolase	GGH
	Aminopeptidase A	ENPEP
	Glycogen synthase kinase-3 β	GSK3B
	Matrix metalloproteinase 13	MMP13
	Matrix metalloproteinase 1	MMP1
	Matrix metalloproteinase 7	MMP7
	Matrix metalloproteinase 8	MMP8

	Aldo-keto reductase family 1 member C2	AKR1C2
	Cyclooxygenase-1	PTGS1
	P2X purinoceptor 3	P2RX3
	Aldo-keto reductase family 1 member C1	AKR1C1
	Cyclin-dependent kinase 1/cyclin B1	CDK1
	Serine/threonine-protein kinase/endoribonuclease IRE1	ERN1
	Endothelin receptor ET-A (by homology)	EDNRA
	Cystic fibrosis transmembrane conductance regulator	CFTR
	Caspase-6	CASP6
	Caspase-7	CASP7
	Caspase-8	CASP8
	Endothelin-converting enzyme 1	ECE1
	Caspase-1	CASP1
	Caspase-2	CASP2
	Matrix metalloproteinase 16	MMP16
	α-ketoglutarate-dependent dioxygenase FTO	FTO
	Adenosine A2b receptor	ADORA2B
	Matrix metalloproteinase 9	MMP9
	Matrix metalloproteinase 14	MMP14
	Dopamine D2 receptor	DRD2
	Dopamine D4 receptor	DRD4
	G-protein coupled receptor 35	GPR35
	Thymidine phosphorylase	TYMP
	Acyl-CoA:dihydroxyacetonephosphateacyltransferase	GNPAT
	Phospholipase A2 group 1VB	PLA2G4B
	Inosine-5'-monophosphate dehydrogenase 1	IMPDH1
	Inosine-5'-monophosphate dehydrogenase 2	IMPDH2
	Epidermal growth factor receptor erbB1	EGFR
Tris-[4-(Î’-D-Glucopyranosyloxy)Benzyl]Citrate	Tyrosyl-DNA phosphodiesterase 1	TDP1
	Estrogen receptor α	ESR1
	Tyrosinase	TYR
	Aldose reductase (by homology)	AKR1B1
	Eukaryotic initiation factor 4A-I	EIF4A1
	Low affinity sodium-glucose cotransporter	SLC5A4
	Telomerase reverse transcriptase	TERT
	Heat shock protein HSP 90-α	HSP90AA1
	Adenosine A2a receptor	ADORA2A
	Adenosine A3 receptor	ADORA3
	Cytochrome P450 19A1	CYP19A1
	T-cell protein-tyrosine phosphatase	PTPN2

	Pancreatic α-amylase	AMY2A
	Squalene monooxygenase (by homology)	SQLE
	Epoxide hydratase	EPHX2
	Adenosine A1 receptor	ADORA1
	Vascular endothelial growth factor receptor 2	KDR
	Thrombin and coagulation factor X	F10
	AMY1C	AMY1A
	Plasminogen activator inhibitor-1	SERPINE1
	Caspase-3	CASP3
	Norepinephrine transporter	SLC6A2
	Steroid 5-α-reductase 1	SRD5A1
	Platelet activating factor receptor	PTAFR
	Integrin α-V/β-3	ITGAV
	P47929	LGALS7
	Squalene synthetase (by homology)	FDFT1
	Sodium/potassium-transporting ATPase α-1 chain	ATP1A1
	Neurokinin 2 receptor	TACR2
	3-phosphoinositide dependent protein kinase-1	PDPK1
	Integrin β-3	ITGB3
	HLA class I histocompatibility antigen A-3	HLA-A
	Somatostatin receptor 5	SSTR5
	Somatostatin receptor 2	SSTR2
	Somatostatin receptor 4	SSTR4
	Somatostatin receptor 1	SSTR1
	Somatostatin receptor 3	SSTR3
	δ opioid receptor	OPRD1
	Cholecystokinin B receptor	CCKBR
	P-selectin	SELP
	Glutaminase kidney isoform, mitochondrial	GLS
	Tyrosine-protein kinase receptor FLT3	FLT3
	Apoptosis regulator Bcl-2	BCL2
	Matrix metalloproteinase 13	MMP13
	Folylpoly-γ-glutamate synthetase	FPGS
	Matrix metalloproteinase 9	MMP9
	Matrix metalloproteinase 8	MMP8
	Histone deacetylase 6	HDAC6
	Histone deacetylase 8	HDAC8
	Histone deacetylase 1	HDAC1
	Receptor-type tyrosine-protein phosphatase α	PTPRA
	Thymidylate synthase (by homology)	TYMS
	Neurokinin 1 receptor (by homology)	TACR1
	Membrane-associated guanylate kinase-related 3	MAGI3

	Vascular endothelial growth factor A	VEGFA
	Acidic fibroblast growth factor	FGF1
	Basic fibroblast growth factor	FGF2
	Heparanase	HPSE
	Protein kinase C δ	PRKCD
	Carbonic anhydrase XIV	CA14
	Carbonic anhydrase IV	CA4
	Protein kinase C γ	PRKCG
	Protein kinase C α	PRKCA
	Protein kinase C β	PRKCB
	Protein kinase C ε	PRKCE
	Protein kinase C η	PRKCH
	Protein kinase C θ	PRKCQ
	DNA (cytosine-5)-methyltransferase 1	DNMT1
	Cathepsin D	CTSD
	DNA (cytosine-5)-methyltransferase 3B	DNMT3B
	Epidermal growth factor receptor erbB1	EGFR
	Renin	REN
	Leukocyte common antigen	PTPRC
	Phospholipase A2 group 1VB	PLA2G4B
	Glutamate carboxypeptidase II	FOLH1
	Neuropeptide Y receptor type 1	NPY1R
	Free fatty acid receptor 1	FFAR1
	Cyclooxygenase-1	PTGS1
	Leukocyte elastase	ELANE
	Acetylcholinesterase	ACHE
	Sodium/glucose cotransporter 2	SLC5A2
	Sodium/glucose cotransporter 1	SLC5A1
	Ileal bile acid transporter	SLC10A2
	Solute carrier family 28 member 3	SLC28A3
	CD22	CD22
	Protein-tyrosine phosphatase 1B	PTPN1
	Butyrylcholinesterase	BCHE
	P-glycoprotein 1	ABCB1
	Cyclooxygenase-2	PTGS2
	Induced myeloid leukemia cell differentiation protein Mcl-1	MCL1
	Glucagon receptor	GCGR
	α-1a adrenergic receptor	ADRA1A
	α-1b adrenergic receptor	ADRA1B
	C-C chemokine receptor type 6	CCR6
	Niemann-Pick C1-like protein 1	NPC1L1

	Vanilloid receptor (by homology)	TRPV1
	Aldehyde dehydrogenase	ALDH2
	Leukocyte adhesion molecule-1	SELL
	Metabotropic glutamate receptor 2 (by homology)	GRM2
	Inosine-5'-monophosphate dehydrogenase 2	IMPDH2

Table SIII. Target molecules obtained from the ETCM and SwissTargetPrediction databases are collected and assembled to remove all the drug targets.

Targets for the active ingredient of GE
HMGCR
CYP51A1
AR
NPC1L1
NR1H3
CYP17A1
RORC
CYP19A1
ESR2
ESR1
SHBG
SREBF2
CYP2C19
SLC6A2
BCHE
RORA
PTPN1
SERPINA6
SLC6A4
G6PD
NR1I3
CHRM2
ACHE
VDR
CES2
NR1H2
CDC25A
PTGER1
PTGER2
HSD11B1
DHCR7
GLRA1
PPARD
SQLE
PTPN6
FDFT1
NOS2
NR3C1
CDC25B
SHH

UGT2B7
HSD11B2
DRD2
POLB
PREP
TBXAS1
PTGER4
IDO1
MDM4
CCR1
MDM2
SIGMAR1
CHRM4
ATP12A
PTGIR
PRKCG
PRKCD
PRKCB
PRKCE
PRKCQ
FABP4
FABP3
FABP5
FABP1
PTGES
PTPN2
ADORA3
MAPK3
PTPN11
AKR1B10
KCNA5
ACACB
PTPRF
PLA2G1B
ACP1
BACE1
HTR2B
PTAFR
GRM2
SCD
BACE2
MGLL
PRKCH

TACR1
PPARA
F2R
ALK
IGF1R
SRC
KDR
AGTR1
TOP2A
AVPR2
AVPR1A
MTNR1A
MTNR1B
CHRM5
IL6ST
MAPK14
ERN1
CA2
CA7
CA1
CA12
CA14
CA9
CA4
CA3
CA6
CA5A
PTPRC
EP300
TTR
NAT1
ALPG
PLAA
AKR1C3
MMP1
MB
PIM1
HDAC3
ACE
FUT7
CA5B
PDE5A
PTPN22

KCNMA1
DUSP1
FYN
LCK
PIK3CD
PRKDC
PIK3CG
CISD1
VCAM1
SLC9A1
TPMT
COMT
CHRNA7
IMPDH2
MPO
MMP9
MMP2
MKNK1
MAOB
ASF1A
TUBB1
GRM5
HDAC6
ALPL
TYMS
HCAR2
MMP8
MMP3
PIK3CA
ADCY5
DAO
CTSL
PIM3
AOC3
MAPK9
MME
HMOX1
PRKD1
PRKD2
TGM2
PARP1
SERPINE1
FBP1

CNR1
CNR2
POLA1
MCL1
HDAC8
METAP1
LRRK2
KDM5C
KDM4B
KDM5B
KDM4A
CHRM1
SRD5A2
ALDH1A1
CES1
HDAC5
HDAC7
MAPK1
CTSV
ALB
ABL1
DAPK3
FABP2
FFAR1
SLC22A6
NR1H4
PHF8
HSD17B3
GABBR1
KDM2A
GPBAR1
GABRA2
FNTA
HAO1
PTGFR
GSTK1
LTA4H
NR0B2
CDC45
PPARG
CYP26A1
RXRA
RARG

RARB
RARA
FAAH
TERT
CYP26B1
RXRG
FFAR4
CACNA2D1
RXRB
SLC16A1
ALOX15
ALOX12
EPHX2
ABCC1
ABCB1
PLA2G4A
SAE1
PLG
RORB
PTGDR2
ITGAL
TBXA2R
HNF4A
AKR1C1
ENPP2
PGR
TRPA1
RBP4
GCG
STS
PTGDR
PSEN2
PRKAG1
THRA
THRB
PTGER3
DGAT1
ADRA2B
PTGES2
CDK1
HSP90AA1
VEGFA
FGF1

HPSE
FGF2
LGALS4
LGALS3
LGALS8
ADRA2A
ADRA2C
DRD1
ADRA1D
HTR2A
HTR2C
DRD3
CYP2D6
HTR6
ADRA1A
HTR1B
FOLH1
TRPV1
STAT3
PYGL
PYGM
PYGB
AHCY
OPRK1
IL2
NAALAD2
SCN9A
TREH
GLRA2
GGH
SSTR5
SSTR2
SSTR4
SSTR1
SSTR3
NEU3
NEU2
NEU4
OGA
ECE1
AMY2A
MGAM
SI

KMO
IGF2R
BCL2L1
ADORA2A
ADORA1
CA13
ADA
PPM1A
AKR1B1
LAP3
MLNR
KCNH2
OPRM1
CASP3
TYR
FUCA1
GBA
DTYMK
HK2
HK1
CDA
LGALS9
ATP1A1
ABCB11
EGLN1
ACLY
SLC6A1
GABRA1
GABRA3
GABBR2
GABRR1
SLC6A11
SLC6A13
KDM3A
FTO
KDM5A
EGLN2
EGLN3
HIF1AN
KDM4D
KDM4C
RNPEP
KDM6B

KDM4E
S1PR3
S1PR1
S1PR5
S1PR4
PFKFB3
FLT1
MET
PPM1B
PPP1CC
PPP2CA
PPP2R5A
ALOX5
VCP
MAOA
ADORA2B
HPGD
CXCR3
DRD4
GPR119
JAK2
CSF1R
CHRM3
TYRO3
CYP2C9
CYP3A4
MMP13
ADAM17
ADRB2
ADRB1
ADRB3
BRD4
HDAC1
PLK1
FASN
PDK1
CCR5
REN
HDAC2
HTR4
NPC1
ERBB2
EGFR

HTR1A
MAP2K1
SCN5A
PDE4B
PRF1
KIT
FLT3
AURKB
AURKA
ALDH5A1
ABAT
HSD17B1
DYRK1A
CLK1
DYRK1B
GSK3B
HSD17B2
LDHA
LDHB
ESRRG
AKR1C2
CRHR1
GABRB3
PTGS1
BCL2
ELANE
GSTA1
CFTR
ALDH2
F3
GPR35
PTGS2
DPP4
TACR2
SLC6A3
TAAR1
SLC1A1
GRM3
GRIK1
GRIA1
GRIK5
GRM4
GRIA4

GRM8
GRIK2
GRIK3
GRM1
GRM7
GRIA2
GRM6
PGD
CPT1A
SLC1A2
SLC22A12
CDK2
GRK6
EDNRA
PLAU
CHEK1
WEE1
HCK
EDNRB
CCR9
MTOR
MMP14
PNMT
NPY5R
GCGR
YWHAG
CPB1
ESRRA
ESRRB
FCER2
OGT
LNPEP
NFKBIA
SYK
HDAC4
BRAF
JAK1
MMP7
PNP
ILK
UQCRB
PLA2G7
MAP3K12

CYP11B1
CYP11B2
PSMB5
DBH
KCNA1
KCNA4
DRD5
F2
TDP1
GAA
NQO2
RPS6KA3
CDK5R1
SRD5A1
NOS1
NOS3
PRKCA
ROCK1
PRKACA
DUSP3
CXCR1
QDPR
UPP1
HDAC9
CDK4
PLA2G2A
HRH4
HSP90AB1
TRAP1
MAPT
FGFR1
NOX4
INSR
SLC5A2
SLC5A1
SLC5A4
ADK
HPRT1
GAPDH
HSPA8
GRK1
IGFBP3
HSPA5

SLC29A1
SELL
SELE
SELP
ENPEP
P2RX3
CASP6
CASP7
CASP8
CASP1
CASP2
MMP16
TYMP
GNPAT
PLA2G4B
IMPDH1
EIF4A1
F10
AMY1A
ITGAV
LGALS7
PDPK1
HLA-A
OPRD1
CCKBR
GLS
FPGS
PTPRA
MAGI3
DNMT1
CTSD
DNMT3B
NPY1R
SLC10A2
SLC28A3
CD22
ADRA1B
CCR6
CLEC4E
GABRA4
GABRA5
GABRA6
GABRB1

GABRB2
GABRD
GABRE
GABRG1
GABRG2
GABRG3
GABRP
GABRQ
GRIN1
GRIN2A
GRIN2B
GRIN2C
GRIN2D
GRIN3A
GRIN3B
LIP3
LSS
NCOA2
NR1I2
NR3C2
SULT2A1
SULT2B1
PLA2G2E
ACADSB
ACOX1
ACSL3
ACSL4
ADH5
ARF1
ARF6
C8G
CALM1
CYP2C8
ECI2
ELOVL4
FADS1
FADS2
FKBP1A
FURIN
GLTP
GM2A
GUCA1A
HNF4G

INS
LALBA
LTB4R
LTB4R2
LTF
LY96
NCOA1
OGDH
PAEP
PKIA
PLA2G2D
PMP2
PPA_RS05235
PPP3CA
PPP3R1
PPT1
PVR
RCVRN
RHO
S100B
SCN10A
SCN11A
SCN1A
SCN1B
SCN2A
SCN2B
SCN3A
SCN3B
SCN4A
SCN4B
SCN7A
SCN8A
SEC14L2
SLC8A1
SREBF1
TLR4
TM1468
TRAPPC3
VLDLR
ABO
ACTA1
AMY2B
ATOX1

BAMF_RS28815
CYP2B6
FHIT
FTL
GCK
GLT6D1
GNPDA1
HBA1
HBB
IFNB1
KRTAP5-2
KRTAP5-3
LCTL
LGALS2
LYZ
NCAN
NUDT9
RTCB
SFTPD
SIGLEC1
SMARCA5
TAS1R2
TM0024
ACO2
AKR1D1
ALAD
ASPH
BBOX1
HSD17B6
OXCT1
OXCT2
P3H1
P3H2
P3H3
P4HA1
P4HA2
PLOD1
PLOD3
SDHA
SDHB
SDHC
SDHD
SLC13A1

SLC13A2
SLC13A3
SLC25A10
SUCLA2
SUCLG1
SUCLG2
SUCNR1
TMLHE
ANXA1
ATP1A2
ATP1A3
GLRA3
HSD3B1
LPL
NFKB1
NFKB2
SLCO1B3
TNF
YWHAE
E
ERG11
ANG
APRT
BC1747
BHMT
CS
CTDSP1
GNMT
HGS
HS3ST3A1
IDH1
IDH2
IL4I1
ITEVIR
ITPA
LSM6
MDH2
ME2
MIF
PLEKHA1
RNASE1
RNASE3
TM0857

TM1436
TNFSF13B
UCK2
LCN2
LCT
MBL2
EBP
FNTB
UBA2
ICAM1
PSENEN
PRKAB1
PIK3R1
CDK5
CCNA1
CCNB1
ITGB3
ITGB2
NCSTN
PRKAA2
CCNA2
APH1A
PSEN1
APH1B

Table SIV. IS targets in the GeneCards.

Gene symbol	Description	Category	Gifts	GeneCards ID	Relevance score	Reference
NOTCH3	Notch Receptor 3	Protein coding	50	GC19M015159	75.72226715	genecards.org/cgi-bin/carddisp.pl?gene=NOTCH3
F5	Coagulation Factor V	Protein coding	45	GC01M169511	72.80163574	https://www.genecards.org/cgi-bin/carddisp.pl?gene=F5
F2	Coagulation Factor II, Thrombin	Protein coding	48	GC11P046720	70.71131134	https://www.genecards.org/cgi-bin/carddisp.pl?gene=F2
NOS3	Nitric Oxide Synthase 3	Protein coding	51	GC07P150990	64.72219849	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NOS3
MT-TL1	Mitochondrially Encoded TRNA-Leu (UUA/G) 1	RNA gene	16	GCMTP003232	58.29695129	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MT-TL1
ALOX5AP	Arachidonate 5-Lipoxygenase Activating Protein	Protein coding	44	GC13P030713	51.97010422	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALOX5AP
FBN1	Fibrillin 1	Protein coding	46	GC15M048408	51.71870422	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FBN1
PRKCH	Protein Kinase C η	Protein coding	51	GC14P061187	47.69760895	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKCH
ACE	Angiotensin I Converting Enzyme	Protein coding	50	GC17P063477	46.07327271	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACE
LDLR	Low Density Lipoprotein Receptor	Protein coding	49	GC19P011091	46.04667664	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LDLR
MTHFR	Methylenetetrahydrofolate Reductase	Protein coding	48	GC01M011785	45.67252731	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MTHFR
GP1BA	Glycoprotein Ib Platelet Subunit α	Protein coding	45	GC17P004932	45.06479645	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GP1BA
PIK3CA	Phosphatidylinositol-4,5-Bisphosphate 3-Kinase Catalytic Subunit α	Protein coding	53	GC03P179148	41.61894608	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIK3CA
ACSL4	Acyl-CoA Synthetase Long Chain Family Member 4	Protein coding	45	GC0XM109624	37.55938339	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSL4
COL4A1	Collagen Type IV α 1 Chain	Protein coding	48	GC13M110148	35.11104584	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COL4A1
ENG	Endoglin	Protein coding	45	GC09M127815	33.80020905	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENG
CRP	C-Reactive Protein	Protein coding	45	GC01M159720	32.44629669	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRP
MT-ND1	Mitochondrially Encoded NADH:Ubiquinone Oxidoreductase Core Subunit 1	Protein coding	33	GCMTP003309	32.16898346	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MT-ND1
APOE	Apolipoprotein E	Protein coding	50	GC19P044906	30.52431488	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APOE
IL6	Interleukin 6	Protein coding	48	GC07P022725	29.1897049	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL6
TNF	Tumor Necrosis Factor	Protein coding	50	GC06P058308	29.18524742	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNF
AGTR1	Angiotensin II Receptor Type 1	Protein coding	51	GC03P148697	28.07429886	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGTR1
MT-ND5	Mitochondrially Encoded NADH:Ubiquinone Oxidoreductase Core Subunit 5	Protein coding	33	GCMTP012339	28.06443214	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MT-ND5
SERPINE1	Serpin Family E Member 1	Protein coding	50	GC07P101127	26.93718338	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPINE1
MT-ND6	Mitochondrially Encoded NADH:Ubiquinone Oxidoreductase Core Subunit 6	Protein coding	33	GCMTM014151	25.9613781	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MT-ND6
AGT	Angiotensinogen	Protein coding	49	GC01M230702	25.70749855	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGT
ADA2	Adenosine Deaminase 2	Protein coding	33	GC22M017179	25.67053986	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADA2
MT-ND4	Mitochondrially Encoded NADH:Ubiquinone Oxidoreductase Core Subunit 4	Protein coding	33	GCMTP010762	25.62470818	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MT-ND4
MT-CO1	Mitochondrially Encoded Cytochrome C Oxidase I	Protein coding	34	GCMTP005906	25.03742218	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MT-CO1
PDE4D	Phosphodiesterase 4D	Protein coding	49	GC05M058969	24.76003647	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDE4D
ACTA2	Actin α 2, Smooth Muscle	Protein coding	48	GC10M088935	24.5772438	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACTA2
PLAT	Plasminogen Activator, Tissue Type	Protein coding	48	GC08M042174	24.53118134	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLAT
NPPA	Natriuretic Peptide A	Protein coding	46	GC01M011846	23.79712296	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPPA
MMP9	Matrix Metallopeptidase 9	Protein coding	53	GC20P046008	23.73701859	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMP9
MT-ATP6	Mitochondrially Encoded ATP Synthase Membrane Subunit 6	Protein coding	33	GCMTP008531	23.69134903	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MT-ATP6
SELP	Selectin P	Protein coding	45	GC01M169558	23.62394524	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SELP
GLA	Galactosidase α	Protein coding	48	GC0XM101393	23.52035904	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLA
NPPB	Natriuretic Peptide B	Protein coding	44	GC01M011858	23.01249695	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPPB
CST3	Cystatin C	Protein coding	44	GC20M023627	22.81313705	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CST3
PON1	Paraoxonase 1	Protein coding	45	GC07M095297	22.61106491	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PON1
ADAMTS13	ADAM Metallopeptidase With Thrombospondin Type 1 Motif 13	Protein coding	46	GC09P133414	22.60787201	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADAMTS13
IL1B	Interleukin 1 β	Protein coding	47	GC02M112829	22.4975853	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL1B
HTRA1	HtrA Serine Peptidase 1	Protein coding	44	GC10P122461	22.32984161	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HTRA1
RNF213	Ring Finger Protein 213	Protein coding	39	GC17P080260	21.75890732	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNF213
VWF	Von Willebrand Factor	Protein coding	48	GC12M005917	21.69753265	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VWF
APOH	Apolipoprotein H	Protein coding	43	GC17M066212	21.60301971	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APOH
SERPINC1	Serpin Family C Member 1	Protein coding	48	GC01M174280	21.58385849	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPINC1
JAK2	Janus Kinase 2	Protein coding	52	GC09P004985	20.36562347	https://www.genecards.org/cgi-bin/carddisp.pl?gene=JAK2
COL4A2	Collagen Type IV α 2 Chain	Protein coding	45	GC13P110305	20.24249649	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COL4A2
MT-CO2	Mitochondrially Encoded Cytochrome C Oxidase II	Protein coding	34	GCMTP007587	20.11138153	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MT-CO2
MAPT	Microtubule Associated Protein Tau	Protein coding	50	GC17P045894	19.40291405	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAPT
BDNF	Brain Derived Neurotrophic Factor	Protein coding	47	GC11M027654	19.30661011	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BDNF
VEGFA	Vascular Endothelial Growth Factor A	Protein coding	48	GC06P043770	19.18872643	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VEGFA
GUCY1A1	Guanylate Cyclase 1 Soluble Subunit α 1	Protein coding	37	GC04P155667	19.14651299	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GUCY1A1
FGA	Fibrinogen α Chain	Protein coding	47	GC04M154583	18.66513824	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGA
APP	Amyloid β Precursor Protein	Protein coding	51	GC21M025880	18.63409615	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APP
APOB	Apolipoprotein B	Protein coding	45	GC02M020956	18.51686859	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APOB
LPA	Lipoprotein(A)	Protein coding	42	GC06M160531	18.04546738	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LPA
TLR4	Toll Like Receptor 4	Protein coding	50	GC09P117704	17.89483643	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TLR4
F7	Coagulation Factor VII	Protein coding	48	GC13P113105	17.69317436	https://www.genecards.org/cgi-bin/carddisp.pl?gene=F7
MT-CO3	Mitochondrially Encoded Cytochrome C Oxidase III	Protein coding	31	GCMTP009209	17.61222649	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MT-CO3
PTGIS	Prostaglandin I2 Synthase	Protein coding	48	GC20M049503	17.49741745	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTGIS
F3	Coagulation Factor III, Tissue Factor	Protein coding	44	GC01M094530	17.4459877	https://www.genecards.org/cgi-bin/carddisp.pl?gene=F3
TP53	Tumor Protein P53	Protein coding	52	GC17M007661	17.3061409	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TP53
EDNRA	Endothelin Receptor Type A	Protein coding	50	GC04P147480	17.12099648	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EDNRA
PLA2G7	Phospholipase A2 Group VII	Protein coding	49	GC06M049418	16.92056084	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLA2G7
ITGB3	Integrin Subunit β 3	Protein coding	50	GC17P047254	16.74591255	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGB3
IL10	Interleukin 10	Protein coding	46	GC01M206767	16.57954788	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL10
ELN	Elastin	Protein coding	45	GC07P074027	16.47415161	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ELN
THBD	Thrombomodulin	Protein coding	44	GC20M023026	16.29055405	https://www.genecards.org/cgi-bin/carddisp.pl?gene=THBD
PON2	Paraoxonase 2	Protein coding	43	GC07M095404	16.28116417	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PON2
CXCL12	C-X-C Motif Chemokine Ligand 12	Protein coding	45	GC10M044294	15.89864635	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXCL12
CASP3	Caspase 3	Protein coding	50	GC04M184627	15.85417747	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CASP3
ALB	Albumin	Protein coding	49	GC04P073397	15.84566689	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALB

PRKG1	Protein Kinase CGMP-Dependent 1	Protein coding	51	GC10P050991	15.79905701	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKG1
SERPINA3	Serpin Family A Member 3	Protein coding	43	GC14P094612	15.64317131	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPINA3
PROZ	Protein Z, Vitamin K Dependent Plasma Glycoprotein	Protein coding	40	GC13P113158	15.55898571	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PROZ
LMNA	Lamin A/C	Protein coding	48	GC01P156082	15.4899826	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LMNA
REN	Renin	Protein coding	47	GC01M204154	15.44249725	https://www.genecards.org/cgi-bin/carddisp.pl?gene=REN
EDN1	Endothelin 1	Protein coding	47	GC06P012256	15.3421669	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EDN1
TGFB2	Transforming Growth Factor β 2	Protein coding	50	GC01P218345	15.29639816	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TGFB2
SOD2	Superoxide Dismutase 2	Protein coding	50	GC06M159669	15.27142048	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SOD2
VKORC1	Vitamin K Epoxide Reductase Complex Subunit 1	Protein coding	47	GC16M031814	15.22452354	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VKORC1
CDKN2B-AS1	CDKN2B Antisense RNA 1	Protein coding	22	GC09P021994	15.21159935	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDKN2B-AS1
MYH11	Myosin Heavy Chain 11	Protein coding	45	GC16M015704	15.14138603	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYH11
ENO2	Enolase 2	Protein coding	47	GC12P006913	14.98089409	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENO2
RNF213-AS1	RNF213 Antisense RNA 1	Protein coding	12	GC17M080335	14.97168064	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNF213-AS1
FGB	Fibrinogen β Chain	Protein coding	46	GC04P154575	14.83216286	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGB
ACTA2-AS1	ACTA2 Antisense RNA 1	Protein coding	16	GC10P088932	14.55962944	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACTA2-AS1
P2RY12	Purinergic Receptor P2Y12	Protein coding	48	GC03M151336	14.55374718	https://www.genecards.org/cgi-bin/carddisp.pl?gene=P2RY12
LOX	Lysyl Oxidase	Protein coding	45	GC05M122063	14.39517784	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOX
ABCA1	ATP Binding Cassette Subfamily A Member 1	Protein coding	47	GC09M104781	14.16120148	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCA1
COL3A1	Collagen Type III α 1 Chain	Protein coding	46	GC02P188974	14.1514473	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COL3A1
HIF1A	Hypoxia Inducible Factor 1 Subunit α	Protein coding	47	GC14P061695	14.12484455	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HIF1A
ALOX5	Arachidonate 5-Lipoxygenase	Protein coding	49	GC10P045374	14.11089516	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALOX5
F10	Coagulation Factor X	Protein coding	48	GC13P113122	14.10568523	https://www.genecards.org/cgi-bin/carddisp.pl?gene=F10
PECAM1	Platelet And Endothelial Cell Adhesion Molecule 1	Protein coding	40	GC17M064319	14.0573988	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PECAM1
OLR1	Oxidized Low Density Lipoprotein Receptor 1	Protein coding	43	GC12M016311	13.89896107	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OLR1
HMGCR	3-Hydroxy-3-Methylglutaryl-CoA Reductase	Protein coding	46	GC05P075336	13.89016724	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HMGCR
SMAD3	SMAD Family Member 3	Protein coding	49	GC15P067063	13.82665634	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMAD3
SELE	Selectin E	Protein coding	43	GC01M169722	13.78046322	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SELE
MYLK	Myosin Light Chain Kinase	Protein coding	52	GC03M123610	13.77758121	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYLK
ADM	Adrenomedullin	Protein coding	44	GC11P010304	13.70690346	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADM
LOC102723566	Uncharacterized LOC102723566	RNA gene	10	GC09P127816	13.5931921	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC102723566
ACVRL1	Activin A Receptor Like Type 1	Protein coding	49	GC12P051906	13.59162807	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACVRL1
ANGPT1	Angiopoietin 1	Protein coding	45	GC08M107246	13.52841187	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANGPT1
SMAD4	SMAD Family Member 4	Protein coding	50	GC18P051028	13.49933338	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMAD4
GSR	Glutathione-Disulfide Reductase	Protein coding	49	GC08M030678	13.48409271	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GSR
TGFBR2	Transforming Growth Factor β Receptor 2	Protein coding	50	GC03P030623	13.40212059	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TGFBR2
PROCR	Protein C Receptor	Protein coding	41	GC20P035252	13.36319256	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PROCR
F2R	Coagulation Factor II Thrombin Receptor	Protein coding	47	GC05P076716	13.35517311	https://www.genecards.org/cgi-bin/carddisp.pl?gene=F2R
SLC2A10	Solute Carrier Family 2 Member 10	Protein coding	44	GC20P046709	13.31521225	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC2A10
NGB	Neuroglobin	Protein coding	37	GC14M077265	13.23265076	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NGB
PSEN1	Presenilin 1	Protein coding	52	GC14P073136	13.22008133	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSEN1
ICAM1	Intercellular Adhesion Molecule 1	Protein coding	50	GC19P010270	13.21998024	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ICAM1
ADIPOQ	Adiponectin, C1Q And Collagen Domain Containing	Protein coding	44	GC03P186842	13.16485596	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADIPOQ
TGFBR1	Transforming Growth Factor β Receptor 1	Protein coding	52	GC09P099104	13.15031433	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TGFBR1
PF4	Platelet Factor 4	Protein coding	41	GC04M073980	13.14593506	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PF4
HSPA4	Heat Shock Protein Family A (Hsp70) Member 4	Protein coding	42	GC05P133051	13.03904343	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSPA4
ENPP1	Ectonucleotide Pyrophosphatase/Phosphodiesterase 1	Protein coding	47	GC06P131808	13.03814125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENPP1
AVP	Arginine Vasopressin	Protein coding	46	GC20M003082	12.99696922	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AVP
SH2B3	SH2B Adaptor Protein 3	Protein coding	47	GC12P111405	12.94278908	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SH2B3
PIK3C2A	Phosphatidylinositol-4-Phosphate 3-Kinase Catalytic Subunit Type 2 α	Protein coding	47	GC11M017305	12.84323406	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIK3C2A
AQP4	Aquaporin 4	Protein coding	46	GC18M026852	12.82839203	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AQP4
PLG	Plasminogen	Protein coding	48	GC06P160702	12.79783726	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLG
HMGB1	High Mobility Group Box 1	Protein coding	44	GC13M030456	12.78829098	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HMGB1
CYCS	Cytochrome C, Somatic	Protein coding	48	GC07M025118	12.77298927	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYCS
MAP2	Microtubule Associated Protein 2	Protein coding	43	GC02P209424	12.70368385	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP2
ADORA1	Adenosine A1 Receptor	Protein coding	47	GC01P203090	12.59196568	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADORA1
MPL	MPL Proto-Oncogene, Thrombopoietin Receptor	Protein coding	47	GC01P043337	12.57350922	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MPL
KCNQ1	Potassium Voltage-Gated Channel Subfamily Q Member 1	Protein coding	50	GC11P002444	12.48999119	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNQ1
INS	Insulin	Protein coding	47	GC11M002159	12.48485756	https://www.genecards.org/cgi-bin/carddisp.pl?gene=INS
TTR	Transthyretin	Protein coding	48	GC18P031557	12.4522953	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TTR
CREB1	CAMP Responsive Element Binding Protein 1	Protein coding	49	GC02P207529	12.40608215	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CREB1
GJA1	Gap Junction Protein α 1	Protein coding	51	GC06P121436	12.35748196	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GJA1
GNB3	G Protein Subunit β 3	Protein coding	47	GC12P006839	12.33969212	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GNB3
F9	Coagulation Factor IX	Protein coding	47	GC0XP139530	12.32289028	https://www.genecards.org/cgi-bin/carddisp.pl?gene=F9
AKT1	AKT Serine/Threonine Kinase 1	Protein coding	53	GC14M104769	12.30043602	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKT1
TNNI3	Troponin I3, Cardiac Type	Protein coding	48	GC19M055151	12.2371664	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNNI3
TNNT2	Troponin T2, Cardiac Type	Protein coding	49	GC01M201359	12.22701263	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNNT2
PPBP	Pro-Platelet Basic Protein	Protein coding	43	GC04M073986	12.16885948	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPBP
ABCC6	ATP Binding Cassette Subfamily C Member 6	Protein coding	46	GC16M016148	12.12478065	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCC6
MB	Myoglobin	Protein coding	43	GC22M035606	12.11946297	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MB
LPL	Lipoprotein Lipase	Protein coding	49	GC08P019901	12.08930969	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LPL
EPOR	Erythropoietin Receptor	Protein coding	47	GC19M011377	12.07604027	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPOR
TNFRSF1A	TNF Receptor Superfamily Member 1A	Protein coding	48	GC12M006328	12.07574844	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFRSF1A
APOA1	Apolipoprotein A1	Protein coding	48	GC11M116835	12.05739212	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APOA1
SLC1A2	Solute Carrier Family 1 Member 2	Protein coding	50	GC11M035252	12.04760075	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC1A2
CCL2	C-C Motif Chemokine Ligand 2	Protein coding	48	GC17P034255	12.04722977	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCL2
SERPINI1	Serpin Family I Member 1	Protein coding	45	GC03P167735	12.00961876	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPINI1

MALAT1	Metastasis Associated Lung Adenocarcinoma Transcript 1	RNA gene	23	GC11P066818	11.88642883	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MALAT1
EDNRB	Endothelin Receptor Type B	Protein coding	50	GC13M077895	11.85520554	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EDNRB
CASP1	Caspase 1	Protein coding	50	GC11M105025	11.79752064	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CASP1
SERPINF2	Serpin Family F Member 2	Protein coding	44	GC17P001742	11.78234291	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPINF2
IGF1	Insulin Like Growth Factor 1	Protein coding	49	GC12M102395	11.75992775	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IGF1
CXCR4	C-X-C Motif Chemokine Receptor 4	Protein coding	52	GC02M136114	11.75244522	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXCR4
GATA4	GATA Binding Protein 4	Protein coding	48	GC08P011676	11.74405861	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GATA4
MT-CYB	Mitochondrially Encoded Cytochrome B	Protein coding	32	GCMTP014749	11.74324512	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MT-CYB
SULT1A3	Sulfotransferase Family 1A Member 3	Protein coding	38	GC16P030199	11.71180916	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SULT1A3
HSPA8	Heat Shock Protein Family A (Hsp70) Member 8	Protein coding	47	GC11M123057	11.67529488	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSPA8
MBP	Myelin Basic Protein	Protein coding	44	GC18M076978	11.5817337	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MBP
GP6	Glycoprotein VI Platelet	Protein coding	44	GC19M055013	11.57354355	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GP6
NES	Nestin	Protein coding	40	GC01M156668	11.54577065	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NES
ADD1	Adducin 1	Protein coding	44	GC04P002855	11.49605179	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADD1
AOC3	Amine Oxidase Copper Containing 3	Protein coding	44	GC17P042851	11.48252106	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AOC3
PPARG	Peroxisome Proliferator Activated Receptor γ	Protein coding	52	GC03P012287	11.4636364	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPARG
THPO	Thrombopoietin	Protein coding	41	GC03M184371	11.44934082	https://www.genecards.org/cgi-bin/carddisp.pl?gene=THPO
GDNF	Glial Cell Derived Neurotrophic Factor	Protein coding	47	GC05M037812	11.44526005	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GDNF
ITGA2	Integrin Subunit α 2	Protein coding	45	GC05P052989	11.40814972	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGA2
ESR1	Estrogen Receptor 1	Protein coding	52	GC06P151656	11.40275574	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ESR1
F13A1	Coagulation Factor XIII A Chain	Protein coding	46	GC06M006144	11.3861618	https://www.genecards.org/cgi-bin/carddisp.pl?gene=F13A1
TET2	Tet Methylcytosine Dioxygenase 2	Protein coding	44	GC04P105145	11.38082504	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TET2
TH	Tyrosine Hydroxylase	Protein coding	52	GC11M002163	11.34387398	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TH
VCAM1	Vascular Cell Adhesion Molecule 1	Protein coding	45	GC01P100719	11.31287289	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VCAM1
TSPO	Translocator Protein	Protein coding	43	GC22P043151	11.30289841	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TSPO
CCL3	C-C Motif Chemokine Ligand 3	Protein coding	39	GC17M036088	11.2669239	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCL3
BMP7	Bone Morphogenetic Protein 7	Protein coding	45	GC20M057168	11.23011589	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BMP7
SIRT1	Sirtuin 1	Protein coding	48	GC10P067884	11.18833351	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SIRT1
ANXA5	Annexin A5	Protein coding	45	GC04M121667	11.17113304	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANXA5
CALR	Calreticulin	Protein coding	50	GC19P012938	11.14026451	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CALR
CXCL8	C-X-C Motif Chemokine Ligand 8	Protein coding	40	GC04P073740	11.12573338	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXCL8
TGFB3	Transforming Growth Factor β 3	Protein coding	46	GC14M075958	11.03636169	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TGFB3
HBA1	Hemoglobin Subunit α 1	Protein coding	42	GC16P006099	11.00537872	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HBA1
CYP2C19	Cytochrome P450 Family 2 Subfamily C Member 19	Protein coding	48	GC10P094762	10.97634506	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP2C19
TBXA2R	Thromboxane A2 Receptor	Protein coding	48	GC19M003594	10.97619057	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TBXA2R
PTGS2	Prostaglandin-Endoperoxide Synthase 2	Protein coding	48	GC01M186640	10.94750023	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTGS2
TREX1	Three Prime Repair Exonuclease 1	Protein coding	42	GC03P048466	10.9351368	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TREX1
SPP1	Secreted Phosphoprotein 1	Protein coding	45	GC04P087975	10.87703323	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPP1
NKX2-5	NK2 Homeobox 5	Protein coding	45	GC05M173232	10.74535275	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NKX2-5
ENTPD1	Ectonucleoside Triphosphate Diphosphohydrolase 1	Protein coding	47	GC10P095711	10.72510052	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENTPD1
ACTC1	Actin α Cardiac Muscle 1	Protein coding	43	GC15M034790	10.69788551	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACTC1
MFAP5	Microfibril Associated Protein 5	Protein coding	41	GC12M008637	10.65945816	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MFAP5
F12	Coagulation Factor XII	Protein coding	48	GC05M177402	10.64008427	https://www.genecards.org/cgi-bin/carddisp.pl?gene=F12
NFE2L2	Nuclear Factor, Erythroid 2 Like 2	Protein coding	48	GC02M177227	10.58923149	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NFE2L2
ADRB2	Adrenoceptor β 2	Protein coding	50	GC05P148825	10.58823586	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADRB2
ADORA3	Adenosine A3 Receptor	Protein coding	46	GC01M111499	10.51327324	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADORA3
CD40LG	CD40 Ligand	Protein coding	47	GC0XP136649	10.50374222	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD40LG
SOD1	Superoxide Dismutase 1	Protein coding	51	GC21P031659	10.49269676	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SOD1
MYBPC3	Myosin Binding Protein C3	Protein coding	46	GC11M071234	10.43990421	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYBPC3
MAT2A	Methionine Adenosyltransferase 2A	Protein coding	47	GC02P085538	10.42476177	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAT2A
AGTR2	Angiotensin II Receptor Type 2	Protein coding	43	GC0XP116170	10.41490173	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGTR2
ADORA2A	Adenosine A2a Receptor	Protein coding	46	GC22P024417	10.38405037	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADORA2A
IL1RN	Interleukin 1 Receptor Antagonist	Protein coding	48	GC02P117302	10.35118198	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL1RN
FOXE3	Forkhead Box E3	Protein coding	37	GC01P047416	10.32187653	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FOXE3
IL4	Interleukin 4	Protein coding	45	GC05P132673	10.21636868	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL4
MMP2	Matrix Metallopeptidase 2	Protein coding	52	GC16P055390	10.21218872	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMP2
RPL36A-HNRNPH2	RPL36A-HNRNPH2 Readthrough	Protein coding	18	GC0XP101390	10.09581947	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPL36A-HNRNPH2
MAPK3	Mitogen-Activated Protein Kinase 3	Protein coding	48	GC16M031685	10.08491135	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAPK3
MMP3	Matrix Metallopeptidase 3	Protein coding	51	GC11M102835	10.06524086	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMP3
DCX	Doublecortin	Protein coding	45	GC0XM111293	10.05057621	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DCX
KNG1	Kininogen 1	Protein coding	45	GC03P186717	10.03766918	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KNG1
TNFRSF12A	TNF Receptor Superfamily Member 12A	Protein coding	43	GC16P003018	9.99246788	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFRSF12A
PTEN	Phosphatase And Tensin Homolog	Protein coding	52	GC10P087863	9.988119125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTEN
MIAT	Myocardial Infarction Associated Transcript	RNA gene	24	GC22P026646	9.977873802	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIAT
FGF2	Fibroblast Growth Factor 2	Protein coding	47	GC04P122826	9.968539238	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGF2
ITGA2B	Integrin Subunit α 2b	Protein coding	51	GC17M044477	9.87289238	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGA2B
SCN5A	Sodium Voltage-Gated Channel α Subunit 5	Protein coding	50	GC03M038549	9.85046196	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCN5A
CD14	CD14 Molecule	Protein coding	44	GC05M140631	9.744434357	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD14
SERPIND1	Serpin Family D Member 1	Protein coding	45	GC22P021208	9.727474213	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPIND1
BACE1	β-Secretase 1	Protein coding	47	GC11M117285	9.688318253	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BACE1
HBB	Hemoglobin Subunit β	Protein coding	45	GC11M005462	9.588320732	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HBB
HEY2	Hes Related Family BHLH Transcription Factor With YRPW Motif 2	Protein coding	40	GC06P125730	9.562351227	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HEY2
MYH7	Myosin Heavy Chain 7	Protein coding	47	GC14M023412	9.497509003	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYH7
TGFB1	Transforming Growth Factor β 1	Protein coding	51	GC19M041301	9.412311554	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TGFB1
SON	SON DNA And RNA Binding Protein	Protein coding	40	GC21P033542	9.388869286	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SON

CASP9	Caspase 9	Protein coding	48	GC01M015491	9.373119354	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CASP9
BRCC3	BRCA1/BRCA2-Containing Complex Subunit 3	Protein coding	43	GC0XP155071	9.357881546	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BRCC3
HHT4	Telangiectasia, Hereditary Hemorrhagic, Type 4	Genetic locus	1	GC07U901803	9.337359428	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HHT4
GATA6	GATA Binding Protein 6	Protein coding	47	GC18P022169	9.325033188	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GATA6
CBS	Cystathionine β-Synthase	Protein coding	49	GC21M043053	9.285207748	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CBS
AIF1	Allograft Inflammatory Factor 1	Protein coding	38	GC06P058306	9.256052017	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AIF1
RETN	Resistin	Protein coding	43	GC19P007669	9.228279114	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RETN
DARS2	Aspartyl-TRNA Synthetase 2, Mitochondrial	Protein coding	42	GC01P173824	9.197587967	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DARS2
SMAD2	SMAD Family Member 2	Protein coding	47	GC18M047809	9.187968254	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMAD2
NDE1	NudE Neurodevelopment Protein 1	Protein coding	43	GC16P015671	9.167289734	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NDE1
PMM2	Phosphomannomutase 2	Protein coding	46	GC16P008788	9.161190033	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PMM2
F8	Coagulation Factor VIII	Protein coding	46	GC0XM154835	9.111580849	https://www.genecards.org/cgi-bin/carddisp.pl?gene=F8
NTF3	Neurotrophin 3	Protein coding	42	GC12P005432	9.053094864	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NTF3
MIR21	MicroRNA 21	RNA gene	24	GC17P059841	9.015267372	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR21
CYP3A5	Cytochrome P450 Family 3 Subfamily A Member 5	Protein coding	48	GC07M099648	8.99514389	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP3A5
HMOX1	Heme Oxygenase 1	Protein coding	52	GC22P035380	8.994007111	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HMOX1
EPO	Erythropoietin	Protein coding	40	GC07P100720	8.934011459	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPO
MIR155	MicroRNA 155	RNA gene	19	GC21P025573	8.933791161	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR155
IL18	Interleukin 18	Protein coding	43	GC11M112143	8.931594849	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL18
POLG	DNA Polymerase γ, Catalytic Subunit	Protein coding	45	GC15M089393	8.922725677	https://www.genecards.org/cgi-bin/carddisp.pl?gene=POLG
S100B	S100 Calcium Binding Protein B	Protein coding	45	GC21M048631	8.883867264	https://www.genecards.org/cgi-bin/carddisp.pl?gene=S100B
MPO	Myeloperoxidase	Protein coding	50	GC17M058269	8.79464817	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MPO
PRNP	Prion Protein	Protein coding	46	GC20P004686	8.751431465	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRNP
LTA	Lymphotoxin α	Protein coding	41	GC06P058305	8.747433662	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LTA
ACTB	Actin β	Protein coding	49	GC07M005527	8.738634109	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACTB
IL1A	Interleukin 1 α	Protein coding	43	GC02M112773	8.716461182	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL1A
CETP	Cholesteryl Ester Transfer Protein	Protein coding	47	GC16P056961	8.591667175	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CETP
ZMPSTE24	Zinc Metallopeptidase STE24	Protein coding	43	GC01P040258	8.555393219	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZMPSTE24
PDE5A	Phosphodiesterase 5A	Protein coding	45	GC04M119494	8.520957947	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDE5A
HSPA1A	Heat Shock Protein Family A (Hsp70) Member 1A	Protein coding	44	GC06P058328	8.502643585	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSPA1A
MYH6	Myosin Heavy Chain 6	Protein coding	46	GC14M023380	8.498790741	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYH6
PTGS1	Prostaglandin-Endoperoxide Synthase 1	Protein coding	46	GC09P122370	8.490834236	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTGS1
RTN4	Reticulon 4	Protein coding	44	GC02M054934	8.452795982	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RTN4
GFAP	Glial Fibrillary Acidic Protein	Protein coding	47	GC17M044905	8.359365463	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GFAP
APOC3	Apolipoprotein C3	Protein coding	44	GC11P116829	8.358756065	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APOC3
ECE1	Endothelin Converting Enzyme 1	Protein coding	48	GC01M021217	8.337213516	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ECE1
G6PD	Glucose-6-Phosphate Dehydrogenase	Protein coding	50	GC0XM154531	8.310552597	https://www.genecards.org/cgi-bin/carddisp.pl?gene=G6PD
LEP	Leptin	Protein coding	47	GC07P128241	8.277990341	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LEP
LIPC	Lipase C, Hepatic Type	Protein coding	45	GC15P058410	8.269201279	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LIPC
BGN	Biglycan	Protein coding	42	GC0XP153494	8.249116898	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BGN
RBFOX3	RNA Binding Fox-1 Homolog 3	Protein coding	36	GC17M079089	8.248031616	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RBFOX3
NOS2	Nitric Oxide Synthase 2	Protein coding	50	GC17M027756	8.245108604	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NOS2
PKD1	Polycystin 1, Transient Receptor Potential Channel Interacting	Protein coding	45	GC16M003824	8.217687607	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PKD1
NOTCH1	Notch Receptor 1	Protein coding	51	GC09M136832	8.187603951	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NOTCH1
NOS1	Nitric Oxide Synthase 1	Protein coding	50	GC12M117208	8.16618824	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NOS1
EPHX2	Epoxide Hydrolase 2	Protein coding	48	GC08P027490	7.95101881	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPHX2
KRAS	KRAS Proto-Oncogene, GTPase	Protein coding	51	GC12M025204	7.93198967	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRAS
PROC	Protein C, Inactivator Of Coagulation Factors Va And VIIIa	Protein coding	49	GC02P127418	7.83908844	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PROC
NF1	Neurofibromin 1	Protein coding	49	GC17P031094	7.82336235	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NF1
TNFRSF11B	TNF Receptor Superfamily Member 11b	Protein coding	47	GC08M118923	7.820196152	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFRSF11B
SLC6A4	Solute Carrier Family 6 Member 4	Protein coding	48	GC17M030194	7.786734104	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC6A4
HLA-DRB1	Major Histocompatibility Complex, Class II, DR β 1	Protein coding	47	GC06M032578	7.77658844	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HLA-DRB1
HP	Haptoglobin	Protein coding	44	GC16P072089	7.762225151	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HP
CALCA	Calcitonin Related Polypeptide α	Protein coding	43	GC11M014945	7.7306633	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CALCA
ALDH2	Aldehyde Dehydrogenase 2 Family Member	Protein coding	50	GC12P111766	7.702367783	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDH2
NPY	Neuropeptide Y	Protein coding	45	GC07P024290	7.679821968	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPY
CDKN2A	Cyclin Dependent Kinase Inhibitor 2A	Protein coding	51	GC09M021967	7.676673889	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDKN2A
F11	Coagulation Factor XI	Protein coding	45	GC04P186265	7.674022675	https://www.genecards.org/cgi-bin/carddisp.pl?gene=F11
CYP11B2	Cytochrome P450 Family 11 Subfamily B Member 2	Protein coding	47	GC08M142910	7.655077934	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP11B2
PITX2	Paired Like Homeodomain 2	Protein coding	47	GC04M110617	7.644974709	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PITX2
FLVCR2	FLVCR Heme Transporter 2	Protein coding	41	GC14P075578	7.549800396	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FLVCR2
NCF1	Neutrophil Cytosolic Factor 1	Protein coding	48	GC07P074773	7.525801659	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NCF1
AGER	Advanced Glycosylation End-Product Specific Receptor	Protein coding	44	GC06M032180	7.50450325	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGER
LOC113939944	Sharpr-MPRA Regulatory Region 9539	Biological region	2	GC15P048520	7.450813293	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC113939944
CP	Ceruloplasmin	Protein coding	48	GC03M149162	7.448239326	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CP
AMPD1	Adenosine Monophosphate Deaminase 1	Protein coding	46	GC01M114673	7.42686367	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AMPD1
FGG	Fibrinogen γ Chain	Protein coding	48	GC04M154604	7.383600235	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGG
HDAC9	Histone Deacetylase 9	Protein coding	47	GC07P018086	7.315122604	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HDAC9
MIR146A	MicroRNA 146a	RNA gene	23	GC05P160485	7.304676533	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR146A
GDF15	Growth Differentiation Factor 15	Protein coding	41	GC19P027797	7.303331852	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GDF15
GNAQ	G Protein Subunit α Q	Protein coding	49	GC09M077716	7.275221348	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GNAQ
KRIT1	KRIT1 Ankyrin Repeat Containing	Protein coding	42	GC07M092198	7.255153656	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRIT1
DES	Desmin	Protein coding	47	GC02P219418	7.245953083	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DES
CCR2	C-C Motif Chemokine Receptor 2	Protein coding	44	GC03P046356	7.235372543	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCR2
PDE3A	Phosphodiesterase 3A	Protein coding	49	GC12P020294	7.218407631	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDE3A
BRCA2	BRCA2 DNA Repair Associated	Protein coding	49	GC13P032315	7.161483765	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BRCA2

NGF	Nerve Growth Factor	Protein coding	50	GC01M115285	7.084950447	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NGF
KCNJ5	Potassium Inwardly Rectifying Channel Subfamily J Member 5	Protein coding	47	GC11P128891	7.061995983	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNJ5
ATM	ATM Serine/Threonine Kinase	Protein coding	52	GC11P108222	7.045526028	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATM
WFS1	Wolframin ER Transmembrane Glycoprotein	Protein coding	45	GC04P006260	7.033541679	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WFS1
CSF3	Colony Stimulating Factor 3	Protein coding	39	GC17P040015	7.033453465	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSF3
TBX20	T-Box Transcription Factor 20	Protein coding	42	GC07M035237	6.994659424	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TBX20
HLA-DQB1	Major Histocompatibility Complex, Class II, DQ β 1	Protein coding	43	GC06M049175	6.966951847	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HLA-DQB1
CYP2C9	Cytochrome P450 Family 2 Subfamily C Member 9	Protein coding	49	GC10P094938	6.899747849	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP2C9
MMACHC	Metabolism Of Cobalamin Associated C	Protein coding	43	GC01P045500	6.891348362	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMACHC
ZFHX3	Zinc Finger Homeobox 3	Protein coding	41	GC16M072782	6.863381386	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZFHX3
ADRB1	Adrenoceptor β 1	Protein coding	48	GC10P114044	6.835595608	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADRB1
APOA5	Apolipoprotein A5	Protein coding	44	GC11M116789	6.802562237	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APOA5
GCKR	Glucokinase Regulator	Protein coding	41	GC02P027496	6.777915001	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GCKR
CYBA	Cytochrome B-245 α Chain	Protein coding	47	GC16M088643	6.770494461	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYBA
C3	Complement C3	Protein coding	47	GC19M006677	6.749676704	https://www.genecards.org/cgi-bin/carddisp.pl?gene=C3
CCR5	C-C Motif Chemokine Receptor 5	Protein coding	46	GC03P046383	6.747981071	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCR5
KDR	Kinase Insert Domain Receptor	Protein coding	52	GC04M055078	6.73373127	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KDR
CAPN3	Calpain 3	Protein coding	48	GC15P042359	6.732082367	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAPN3
DPM3	Dolichyl-Phosphate Mannosyltransferase Subunit 3, Regulatory	Protein coding	40	GC01M155112	6.686644554	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DPM3
GPT	Glutamic--Pyruvic Transaminase	Protein coding	41	GC08P144502	6.68070364	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPT
TTN	Titin	Protein coding	47	GC02M178525	6.658669949	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TTN
HFE	Homeostatic Iron Regulator	Protein coding	43	GC06P026087	6.654267311	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HFE
FLT1	Fms Related Receptor Tyrosine Kinase 1	Protein coding	50	GC13M028300	6.649538994	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FLT1
CNTF	Ciliary Neurotrophic Factor	Protein coding	41	GC11P058622	6.621702194	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CNTF
CTF1	Cardiotrophin 1	Protein coding	38	GC16P033495	6.609263897	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTF1
GRIN2A	Glutamate Ionotropic Receptor NMDA Type Subunit 2A	Protein coding	52	GC16M009753	6.60088253	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIN2A
MTX2	Metaxin 2	Protein coding	41	GC02P176269	6.568894386	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MTX2
MYMY1	Moyamoya Disease 1	Genetic locus	2	GC03U900234	6.556677818	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYMY1
MYMY3	Moyamoya Disease 3	Genetic locus	2	GC08U900539	6.556677818	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYMY3
CITED2	Cbp/P300 Interacting Transactivator With Glu/Asp Rich Carboxy-Terminal Domain 2	Protein coding	43	GC06M139371	6.509186268	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CITED2
CCND1	Cyclin D1	Protein coding	52	GC11P069641	6.502706528	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCND1
JAG1	Jagged Canonical Notch Ligand 1	Protein coding	50	GC20M010637	6.497455597	https://www.genecards.org/cgi-bin/carddisp.pl?gene=JAG1
SRFBP1	Serum Response Factor Binding Protein 1	Protein coding	33	GC05P121961	6.463252068	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SRFBP1
VDR	Vitamin D Receptor	Protein coding	51	GC12M047841	6.409247398	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VDR
NR3C1	Nuclear Receptor Subfamily 3 Group C Member 1	Protein coding	50	GC05M143277	6.406597137	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NR3C1
PCSK9	Proprotein Convertase Subtilisin/Kexin Type 9	Protein coding	50	GC01P055039	6.403251648	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PCSK9
ABCB1	ATP Binding Cassette Subfamily B Member 1	Protein coding	51	GC07M087504	6.385769844	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCB1
TCF7L2	Transcription Factor 7 Like 2	Protein coding	46	GC10P112950	6.385392189	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TCF7L2
MMUT	Methylmalonyl-CoA Mutase	Protein coding	36	GC06M049430	6.383408546	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMUT
MEN1	Menin 1	Protein coding	46	GC11M064803	6.377994537	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MEN1
CD34	CD34 Molecule	Protein coding	43	GC01M207880	6.371311188	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD34
CTLA4	Cytotoxic T-Lymphocyte Associated Protein 4	Protein coding	45	GC02P203867	6.365667343	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTLA4
TIMP1	TIMP Metallopeptidase Inhibitor 1	Protein coding	44	GC0XP047583	6.350315094	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TIMP1
COL2A1	Collagen Type II α 1 Chain	Protein coding	48	GC12M047972	6.345514774	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COL2A1
UCP2	Uncoupling Protein 2	Protein coding	45	GC11M073974	6.340950012	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UCP2
PRL	Prolactin	Protein coding	43	GC06M022287	6.287054062	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRL
TMEM126B	Transmembrane Protein 126B	Protein coding	38	GC11P085628	6.272479057	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TMEM126B
INSL6	Insulin Like 6	Protein coding	35	GC09M004991	6.268529892	https://www.genecards.org/cgi-bin/carddisp.pl?gene=INSL6
PRKAG2	Protein Kinase AMP-Activated Non-Catalytic Subunit γ 2	Protein coding	50	GC07M151556	6.262793064	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKAG2
HLA-B	Major Histocompatibility Complex, Class I, B	Protein coding	47	GC06M049073	6.256195068	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HLA-B
SELL	Selectin L	Protein coding	43	GC01M169690	6.232209206	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SELL
GNB1	G Protein Subunit β 1	Protein coding	45	GC01M001785	6.23182106	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GNB1
FLNA	Filamin A	Protein coding	49	GC0XM154348	6.213269711	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FLNA
RPS27A	Ribosomal Protein S27a	Protein coding	43	GC02P055231	6.21207428	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPS27A
KL	Klotho	Protein coding	45	GC13P033016	6.203378677	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KL
CYP4F2	Cytochrome P450 Family 4 Subfamily F Member 2	Protein coding	45	GC19M015878	6.202888966	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP4F2
CUX2	Cut Like Homeobox 2	Protein coding	41	GC12P111034	6.197788715	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CUX2
NINJ2	Ninjurin 2	Protein coding	34	GC12M000564	6.178388596	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NINJ2
NSD1	Nuclear Receptor Binding SET Domain Protein 1	Protein coding	43	GC05P177134	6.171768188	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NSD1
CSF2	Colony Stimulating Factor 2	Protein coding	43	GC05P132073	6.16844368	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSF2
FLNC	Filamin C	Protein coding	45	GC07P128830	6.161774635	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FLNC
PTPN11	Protein Tyrosine Phosphatase Non-Receptor Type 11	Protein coding	52	GC12P112418	6.160317421	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPN11
MYMY4	Moyamoya Disease 4	Genetic locus	1	GC0XU901754	6.15953064	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYMY4
PPARA	Peroxisome Proliferator Activated Receptor α	Protein coding	46	GC22P046150	6.144661427	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPARA
MMP1	Matrix Metallopeptidase 1	Protein coding	51	GC11M102810	6.144601822	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMP1
FCGR2A	Fc Fragment Of IgG Receptor IIa	Protein coding	45	GC01P161505	6.140078545	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FCGR2A
GRIN2B	Glutamate Ionotropic Receptor NMDA Type Subunit 2B	Protein coding	51	GC12M013437	6.122282028	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIN2B
ACHE	Acetylcholinesterase (Cartwright Blood Group)	Protein coding	46	GC07M100889	6.094027519	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACHE
MAN2B1	Mannosidase α Class 2B Member 1	Protein coding	44	GC19M012663	6.082442284	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAN2B1
GJA5	Gap Junction Protein α 5	Protein coding	45	GC01M147756	6.081840515	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GJA5
CPS1	Carbamoyl-Phosphate Synthase 1	Protein coding	45	GC02P210477	6.060049534	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CPS1
COL4A5	Collagen Type IV α 5 Chain	Protein coding	44	GC0XP108439	6.040412903	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COL4A5
NLRP3	NLR Family Pyrin Domain Containing 3	Protein coding	47	GC01P247415	6.026886463	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NLRP3
NPR3	Natriuretic Peptide Receptor 3	Protein coding	44	GC05P032689	6.026222229	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPR3
CDK5	Cyclin Dependent Kinase 5	Protein coding	52	GC07M151053	6.021576881	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDK5
IL17A	Interleukin 17A	Protein coding	41	GC06P052186	5.995017052	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL17A

CPB2	Carboxypeptidase B2	Protein coding	44	GC13M046053	5.991405487	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CPB2
XDH	Xanthine Dehydrogenase	Protein coding	47	GC02M031334	5.976667404	https://www.genecards.org/cgi-bin/carddisp.pl?gene=XDH
CDKN2B	Cyclin Dependent Kinase Inhibitor 2B	Protein coding	47	GC09M022002	5.958500862	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDKN2B
HTR2A	5-Hydroxytryptamine Receptor 2A	Protein coding	48	GC13M046831	5.9424963	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HTR2A
ACAN	Aggrecan	Protein coding	47	GC15P088813	5.935297012	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACAN
XBP1	X-Box Binding Protein 1	Protein coding	45	GC22M028794	5.928098679	https://www.genecards.org/cgi-bin/carddisp.pl?gene=XBP1
FKRP	Fukutin Related Protein	Protein coding	40	GC19P046746	5.892821312	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FKRP
PTX3	Pentraxin 3	Protein coding	41	GC03P157436	5.882364273	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTX3
CAT	Catalase	Protein coding	49	GC11P034460	5.872531891	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAT
TANGO2	Transport And Golgi Organization 2 Homolog	Protein coding	35	GC22P020017	5.871419907	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TANGO2
GSTM1	Glutathione S-Transferase μ 1	Protein coding	42	GC01P109687	5.868401051	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GSTM1
CYP2J2	Cytochrome P450 Family 2 Subfamily J Member 2	Protein coding	44	GC01M059893	5.868251324	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP2J2
CX3CR1	C-X3-C Motif Chemokine Receptor 1	Protein coding	45	GC03M039279	5.849345207	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CX3CR1
SLC34A1	Solute Carrier Family 34 Member 1	Protein coding	44	GC05P177380	5.838026524	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC34A1
TWNK	Twinkle MtDNA Helicase	Protein coding	33	GC10P100993	5.832365513	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TWNK
ATP1B1	ATPase Na+/K+ Transporting Subunit β 1	Protein coding	47	GC01P169105	5.826225758	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATP1B1
SERPINA1	Serpin Family A Member 1	Protein coding	48	GC14M094376	5.806275368	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPINA1
ATP1A2	ATPase Na+/K+ Transporting Subunit α 2	Protein coding	48	GC01P160115	5.804023743	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATP1A2
FH	Fumarate Hydratase	Protein coding	45	GC01M241499	5.783442974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FH
SMARCA4	SWI/SNF Related, Matrix Associated, Actin Dependent Regulator Of Chromatin, Subfamily A, Member 4	Protein coding	49	GC19P010932	5.751421452	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMARCA4
PARP1	Poly(ADP-Ribose) Polymerase 1	Protein coding	49	GC01M226360	5.74087286	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PARP1
GHRL	Ghrelin And Obestatin Prepropeptide	Protein coding	43	GC03M010285	5.738366604	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GHRL
TLL1	Tolloid Like 1	Protein coding	43	GC04P165873	5.724071503	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TLL1
TF	Transferrin	Protein coding	48	GC03P133666	5.720663071	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TF
POU4F1	POU Class 4 Homeobox 1	Protein coding	39	GC13M078598	5.715135098	https://www.genecards.org/cgi-bin/carddisp.pl?gene=POU4F1
PKD2	Polycystin 2, Transient Receptor Potential Cation Channel	Protein coding	47	GC04P088007	5.708503246	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PKD2
CELA2A	Chymotrypsin Like Elastase 2A	Protein coding	39	GC01P015456	5.708503246	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CELA2A
PDGFRA	Platelet Derived Growth Factor Receptor α	Protein coding	54	GC04P054229	5.689031601	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDGFRA
ITIH4	Inter-α-Trypsin Inhibitor Heavy Chain 4	Protein coding	42	GC03M052812	5.669485569	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITIH4
CCL11	C-C Motif Chemokine Ligand 11	Protein coding	43	GC17P034285	5.658752918	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCL11
MBL2	Mannose Binding Lectin 2	Protein coding	47	GC10M052760	5.652535915	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MBL2
MT-ATP8	Mitochondrially Encoded ATP Synthase Membrane Subunit 8	Protein coding	31	GCMTP008368	5.645841122	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MT-ATP8
BGLAP	Bone γ-Carboxyglutamate Protein	Protein coding	40	GC01P156242	5.643784523	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BGLAP
LTC4S	Leukotriene C4 Synthase	Protein coding	42	GC05P179793	5.623233318	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LTC4S
MTR	5-Methyltetrahydrofolate-Homocysteine Methyltransferase	Protein coding	47	GC01P236795	5.59706974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MTR
HYT1	Hypertension, Essential, Susceptibility To, 1	Genetic locus	1	GC17U990303	5.587248802	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HYT1
HNF1A	HNF1 Homeobox A	Protein coding	45	GC12P120978	5.578286648	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HNF1A
HSPA5	Heat Shock Protein Family A (Hsp70) Member 5	Protein coding	47	GC09M125234	5.575797558	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSPA5
GRN	Granulin Precursor	Protein coding	46	GC17P044345	5.566358566	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRN
VHL	Von Hippel-Lindau Tumor Suppressor	Protein coding	45	GC03P011127	5.543662071	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VHL
NEFL	Neurofilament Light Chain	Protein coding	46	GC08M024950	5.541169167	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NEFL
IL2	Interleukin 2	Protein coding	44	GC04M122451	5.53144455	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL2
MIR132	MicroRNA 132	RNA gene	22	GC17M002049	5.52125597	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR132
MMP12	Matrix Metallopeptidase 12	Protein coding	45	GC11M102862	5.503199577	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMP12
SCNN1A	Sodium Channel Epithelial 1 Subunit α	Protein coding	47	GC12M006346	5.501520157	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCNN1A
RGS5	Regulator Of G Protein Signaling 5	Protein coding	40	GC01M163111	5.500445366	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RGS5
HYT2	Hypertension, Essential, Susceptibility To, 2	Genetic locus	1	GC15U990105	5.500445366	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HYT2
HYT3	Hypertension, Essential, Susceptibility To, 3	Genetic locus	1	GC02U900228	5.500445366	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HYT3
HYT4	Hypertension, Essential, Susceptibility To, 4	Genetic locus	1	GC12U900475	5.500445366	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HYT4
HYT5	Hypertension, Essential, Susceptibility To, 5	Genetic locus	1	GC20U900425	5.500445366	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HYT5
HYT6	Hypertension, Essential, Susceptibility To, 6	Genetic locus	1	GC05U901045	5.500445366	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HYT6
HYT7	Hypertension, Essential, Susceptibility To, 7	Genetic locus	1	GC03U901240	5.500445366	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HYT7
HYT8	Hypertension, Essential, Susceptibility To, 8	Genetic locus	1	GC18U900482	5.500445366	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HYT8
TBX5	T-Box Transcription Factor 5	Protein coding	46	GC12M114353	5.481939793	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TBX5
MIR145	MicroRNA 145	RNA gene	22	GC05P149430	5.474709034	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR145
MIR9-1	MicroRNA 9-1	RNA gene	21	GC01M156420	5.458321095	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR9-1
BRAF	B-Raf Proto-Oncogene, Serine/Threonine Kinase	Protein coding	53	GC07M140718	5.424529552	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BRAF
MYL4	Myosin Light Chain 4	Protein coding	44	GC17P047200	5.417258263	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYL4
CD40	CD40 Molecule	Protein coding	47	GC20P046118	5.402803421	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD40
IGFBP3	Insulin Like Growth Factor Binding Protein 3	Protein coding	44	GC07M045912	5.402165413	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IGFBP3
OTC	Ornithine Transcarbamylase	Protein coding	47	GC0XP038353	5.34236145	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OTC
IL13	Interleukin 13	Protein coding	44	GC05P132656	5.335382462	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL13
FAS	Fas Cell Surface Death Receptor	Protein coding	50	GC10P088969	5.331914425	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FAS
TBXAS1	Thromboxane A Synthase 1	Protein coding	51	GC07P139777	5.312111378	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TBXAS1
IL1R1	Interleukin 1 Receptor Type 1	Protein coding	45	GC02P102136	5.310017109	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL1R1
ACE2	Angiotensin Converting Enzyme 2	Protein coding	48	GC0XM015494	5.309986115	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACE2
SLC1A1	Solute Carrier Family 1 Member 1	Protein coding	48	GC09P004490	5.309069633	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC1A1
ABCC8	ATP Binding Cassette Subfamily C Member 8	Protein coding	46	GC11M017392	5.30683136	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCC8
ABO	ABO, α 1-3-N-Acetylgalactosaminyltransferase And α 1-3-Galactosyltransferase	Protein coding	36	GC09M133250	5.300428867	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABO
MAPK14	Mitogen-Activated Protein Kinase 14	Protein coding	51	GC06P058451	5.297143936	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAPK14
BCL2	BCL2 Apoptosis Regulator	Protein coding	50	GC18M063123	5.294238091	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BCL2
CS	Citrate Synthase	Protein coding	44	GC12M056271	5.291215897	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CS
PPOX	Protoporphyrinogen Oxidase	Protein coding	44	GC01P161205	5.275152206	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPOX
GBA	Glucosylceramidase β	Protein coding	47	GC01M155234	5.259410858	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GBA
TLR2	Toll Like Receptor 2	Protein coding	50	GC04P153684	5.254338264	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TLR2

ERCC6	ERCC Excision Repair 6, Chromatin Remodeling Factor	Protein coding	45	GC10M049454	5.253311634	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ERCC6
IL6R	Interleukin 6 Receptor	Protein coding	48	GC01P154405	5.248811245	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL6R
IAPP	Islet Amyloid Polypeptide	Protein coding	41	GC12P021354	5.236206055	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IAPP
FOS	Fos Proto-Oncogene, AP-1 Transcription Factor Subunit	Protein coding	50	GC14P075278	5.23579073	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FOS
SMARCAL1	SWI/SNF Related, Matrix Associated, Actin Dependent Regulator Of Chromatin, Subfamily A Like 1	Protein coding	43	GC02P216412	5.2317729	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMARCAL1
LRP1	LDL Receptor Related Protein 1	Protein coding	47	GC12P057128	5.228310585	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LRP1
MGP	Matrix Gla Protein	Protein coding	42	GC12M016385	5.221977234	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MGP
SURF1	SURF1 Cytochrome C Oxidase Assembly Factor	Protein coding	43	GC09M133351	5.201442719	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SURF1
PCNT	Pericentrin	Protein coding	42	GC21P046324	5.201153278	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PCNT
IL4R	Interleukin 4 Receptor	Protein coding	47	GC16P027325	5.197076797	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL4R
TFPI	Tissue Factor Pathway Inhibitor	Protein coding	44	GC02M187464	5.195569992	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TFPI
CD36	CD36 Molecule	Protein coding	48	GC07P080369	5.180634499	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD36
DKK1	Dickkopf WNT Signaling Pathway Inhibitor 1	Protein coding	44	GC10P052314	5.169650078	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DKK1
CFH	Complement Factor H	Protein coding	45	GC01P196621	5.166233063	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CFH
OPN4	Opsin 4	Protein coding	41	GC10P086655	5.158004284	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OPN4
LGALS3	Galectin 3	Protein coding	44	GC14P055124	5.149111748	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LGALS3
NAMPT	Nicotinamide Phosphoribosyltransferase	Protein coding	47	GC07M106248	5.14513588	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NAMPT
ITGB2	Integrin Subunit β 2	Protein coding	50	GC21M044885	5.143673897	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGB2
MIR126	MicroRNA 126	RNA gene	23	GC09P136670	5.140875816	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR126
NDUFS4	NADH:Ubiquinone Oxidoreductase Subunit S4	Protein coding	44	GC05P053560	5.134493828	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NDUFS4
PDGFRB	Platelet Derived Growth Factor Receptor β	Protein coding	54	GC05M150113	5.1233778	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDGFRB
FABP4	Fatty Acid Binding Protein 4	Protein coding	44	GC08M081478	5.122590065	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FABP4
CASP2	Caspase 2	Protein coding	48	GC07P146115	5.103130341	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CASP2
CYP4A11	Cytochrome P450 Family 4 Subfamily A Member 11	Protein coding	43	GC01M046929	5.101863384	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP4A11
C5	Complement C5	Protein coding	46	GC09M120952	5.076778889	https://www.genecards.org/cgi-bin/carddisp.pl?gene=C5
GJA4	Gap Junction Protein α 4	Protein coding	44	GC01P034792	5.076355934	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GJA4
SYNGAP1	Synaptic Ras GTPase Activating Protein 1	Protein coding	44	GC06P033419	5.07335186	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SYNGAP1
MAPK1	Mitogen-Activated Protein Kinase 1	Protein coding	52	GC22M021754	5.067660809	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAPK1
MIF	Macrophage Migration Inhibitory Factor	Protein coding	49	GC22P023894	5.055105209	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIF
GARS1	Glycyl-TRNA Synthetase 1	Protein coding	36	GC07P030580	5.041885376	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GARS1
TREM2	Triggering Receptor Expressed On Myeloid Cells 2	Protein coding	42	GC06M049313	5.041487217	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TREM2
LIMK1	LIM Domain Kinase 1	Protein coding	50	GC07P074082	5.027829647	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LIMK1
STAT3	Signal Transducer And Activator Of Transcription 3	Protein coding	52	GC17M042313	5.017473221	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STAT3
SELPLG	Selectin P Ligand	Protein coding	42	GC12M108621	5.004415512	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SELPLG
BCL2L1	BCL2 Like 1	Protein coding	47	GC20M031664	4.987825394	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BCL2L1
COL1A1	Collagen Type I α 1 Chain	Protein coding	50	GC17M050183	4.985594749	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COL1A1
TGFBR3	Transforming Growth Factor β Receptor 3	Protein coding	46	GC01M091680	4.972678185	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TGFBR3
MYH9	Myosin Heavy Chain 9	Protein coding	50	GC22M036281	4.969046593	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYH9
ITGAM	Integrin Subunit α M	Protein coding	47	GC16P033523	4.968577862	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGAM
ANGPT2	Angiopoietin 2	Protein coding	45	GC08M006499	4.954447746	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANGPT2
ELANE	Elastase, Neutrophil Expressed	Protein coding	46	GC19P000871	4.94735527	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ELANE
CRELD1	Cysteine Rich With EGF Like Domains 1	Protein coding	40	GC03P011101	4.94260931	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRELD1
SORT1	Sortilin 1	Protein coding	43	GC01M109310	4.93305397	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SORT1
CYP2C8	Cytochrome P450 Family 2 Subfamily C Member 8	Protein coding	48	GC10M095038	4.930232048	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP2C8
SLC9A1	Solute Carrier Family 9 Member A1	Protein coding	51	GC01M027109	4.919675827	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC9A1
LCN2	Lipocalin 2	Protein coding	43	GC09P128149	4.914496422	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LCN2
CHAT	Choline O-Acetyltransferase	Protein coding	47	GC10P049609	4.912224293	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHAT
CAV1	Caveolin 1	Protein coding	48	GC07P116524	4.896810532	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAV1
POMC	Proopiomelanocortin	Protein coding	47	GC02M025160	4.88965416	https://www.genecards.org/cgi-bin/carddisp.pl?gene=POMC
ADA	Adenosine Deaminase	Protein coding	51	GC20M044620	4.881008148	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADA
ABCC9	ATP Binding Cassette Subfamily C Member 9	Protein coding	45	GC12M021797	4.880141258	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCC9
RYR1	Ryanodine Receptor 1	Protein coding	47	GC19P041518	4.862224579	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RYR1
GATA3	GATA Binding Protein 3	Protein coding	49	GC10P008045	4.85787487	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GATA3
RBP4	Retinol Binding Protein 4	Protein coding	44	GC10M093591	4.852359772	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RBP4
KCNE2	Potassium Voltage-Gated Channel Subfamily E Regulatory Subunit 2	Protein coding	41	GC21P034364	4.840103626	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNE2
COG2	Component Of Oligomeric Golgi Complex 2	Protein coding	41	GC01P230642	4.83080864	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COG2
H19	H19 Imprinted Maternally Expressed Transcript	RNA gene	28	GC11M001995	4.826947212	https://www.genecards.org/cgi-bin/carddisp.pl?gene=H19
ACTG1	Actin γ 1	Protein coding	50	GC17M081509	4.812610626	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACTG1
ADRB3	Adrenoceptor β 3	Protein coding	45	GC08M037962	4.789031029	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADRB3
TARDBP	TAR DNA Binding Protein	Protein coding	46	GC01P011013	4.766427517	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TARDBP
TNFSF4	TNF Superfamily Member 4	Protein coding	40	GC01M173183	4.76218605	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFSF4
COX5B	Cytochrome C Oxidase Subunit 5B	Protein coding	41	GC02P097628	4.758938313	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COX5B
PTH	Parathyroid Hormone	Protein coding	45	GC11M013492	4.756153107	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTH
AHSG	α 2-HS Glycoprotein	Protein coding	43	GC03P186612	4.753621101	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AHSG
SNCA	Synuclein α	Protein coding	49	GC04M089724	4.75213623	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNCA
SLC2A1	Solute Carrier Family 2 Member 1	Protein coding	52	GC01M042925	4.750926971	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC2A1
MFN2	Mitofusin 2	Protein coding	48	GC01P011980	4.736171246	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MFN2
SCN2A	Sodium Voltage-Gated Channel α Subunit 2	Protein coding	47	GC02P165194	4.701293945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCN2A
CLCN1	Chloride Voltage-Gated Channel 1	Protein coding	44	GC07P143316	4.701293945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CLCN1
DNAH8	Dynein Axonemal Heavy Chain 8	Protein coding	38	GC06P058478	4.701005936	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DNAH8
IRS1	Insulin Receptor Substrate 1	Protein coding	47	GC02M226731	4.697993755	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IRS1
ANGPTL6	Angiopoietin Like 6	Protein coding	38	GC19M010092	4.697779655	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANGPTL6
MTERF1	Mitochondrial Transcription Termination Factor 1	Protein coding	34	GC07M091692	4.692548275	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MTERF1
ITGB1	Integrin Subunit β 1	Protein coding	50	GC10M032892	4.67652607	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGB1
PHACTR1	Phosphatase And Actin Regulator 1	Protein coding	37	GC06P012717	4.671995163	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PHACTR1

CTNNB1	Catenin β 1	Protein coding	53	GC03P041236	4.663755417	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTNNB1
FABP2	Fatty Acid Binding Protein 2	Protein coding	42	GC04M119317	4.661312103	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FABP2
ASS1	Argininosuccinate Synthase 1	Protein coding	48	GC09P130444	4.654839993	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ASS1
EGF	Epidermal Growth Factor	Protein coding	50	GC04P109912	4.654715538	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EGF
ARSA	Arylsulfatase A	Protein coding	46	GC22M050622	4.65216732	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARSA
FGF21	Fibroblast Growth Factor 21	Protein coding	39	GC19P048784	4.645974159	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGF21
MIR210	MicroRNA 210	RNA gene	22	GC11M001307	4.621683121	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR210
FLNC-AS1	FLNC Antisense RNA 1	RNA gene	11	GC07M128851	4.620165348	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FLNC-AS1
MC4R	Melanocortin 4 Receptor	Protein coding	46	GC18M060371	4.601145744	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MC4R
VCP	Valosin Containing Protein	Protein coding	49	GC09M035056	4.601136208	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VCP
IFNG	Interferon γ	Protein coding	47	GC12M068154	4.5866642	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IFNG
MYD88	MYD88 Innate Immune Signal Transduction Adaptor	Protein coding	48	GC03P038139	4.584213257	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYD88
KCNA5	Potassium Voltage-Gated Channel Subfamily A Member 5	Protein coding	45	GC12P005043	4.583177567	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNA5
SLC1A3	Solute Carrier Family 1 Member 3	Protein coding	51	GC05P036623	4.582777023	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC1A3
NOTCH2	Notch Receptor 2	Protein coding	50	GC01M119911	4.58099699	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NOTCH2
PCCA	Propionyl-CoA Carboxylase Subunit α	Protein coding	47	GC13P100089	4.574438095	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PCCA
PTPN22	Protein Tyrosine Phosphatase Non-Receptor Type 22	Protein coding	47	GC01M113813	4.56750679	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPN22
IRF5	Interferon Regulatory Factor 5	Protein coding	47	GC07P128937	4.551713943	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IRF5
BMP2	Bone Morphogenetic Protein 2	Protein coding	46	GC20P006696	4.540714264	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BMP2
SCN1A	Sodium Voltage-Gated Channel α Subunit 1	Protein coding	47	GC02M165989	4.538622856	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCN1A
FN1	Fibronectin 1	Protein coding	50	GC02M215360	4.532525539	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FN1
CCR6	C-C Motif Chemokine Receptor 6	Protein coding	45	GC06P167111	4.531476498	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCR6
XIAP	X-Linked Inhibitor Of Apoptosis	Protein coding	49	GC0XP123859	4.530772686	https://www.genecards.org/cgi-bin/carddisp.pl?gene=XIAP
EPRS1	Glutamyl-Prolyl-TRNA Synthetase 1	Protein coding	36	GC01M219969	4.525707245	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPRS1
ARRDC4	Arrestin Domain Containing 4	Protein coding	34	GC15P097960	4.514660358	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARRDC4
COMT	Catechol-O-Methyltransferase	Protein coding	51	GC22P019941	4.513561726	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COMT
BMP6	Bone Morphogenetic Protein 6	Protein coding	43	GC06P007726	4.509186745	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BMP6
GDF2	Growth Differentiation Factor 2	Protein coding	42	GC10P047322	4.507152557	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GDF2
TPM1	Tropomyosin 1	Protein coding	50	GC15P080570	4.504650593	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TPM1
CD163	CD163 Molecule	Protein coding	41	GC12M007471	4.501879692	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD163
FMR1	FMRP Translational Regulator 1	Protein coding	44	GC0XP147928	4.497466564	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FMR1
ARG1	Arginase 1	Protein coding	49	GC06P131473	4.484262466	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARG1
F13B	Coagulation Factor XIII B Chain	Protein coding	41	GC01M197008	4.471457958	https://www.genecards.org/cgi-bin/carddisp.pl?gene=F13B
TSPAN2	Tetraspanin 2	Protein coding	37	GC01M115050	4.469252586	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TSPAN2
WDR26	WD Repeat Domain 26	Protein coding	40	GC01M224385	4.458930016	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WDR26
YY1AP1	YY1 Associated Protein 1	Protein coding	39	GC01M155659	4.445444107	https://www.genecards.org/cgi-bin/carddisp.pl?gene=YY1AP1
ASTN2	Astrotactin 2	Protein coding	36	GC09M116425	4.438468456	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ASTN2
LOC110806262	Solute Carrier Family 6 Member 4 Gene Promoter	Biological region	1	GC17P030235	4.43233633	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC110806262
B2M	β-2-Microglobulin	Protein coding	48	GC15P044711	4.431304932	https://www.genecards.org/cgi-bin/carddisp.pl?gene=B2M
CORIN	Corin, Serine Peptidase	Protein coding	44	GC04M047596	4.430745602	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CORIN
KMO	Kynurenine 3-Monooxygenase	Protein coding	44	GC01P241532	4.425868511	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KMO
HTR3A	5-Hydroxytryptamine Receptor 3A	Protein coding	46	GC11P113974	4.425365925	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HTR3A
SAMHD1	SAM And HD Domain Containing Deoxynucleoside Triphosphate Triphosphohydrolase 1	Protein coding	43	GC20M036890	4.417947769	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SAMHD1
PGF	Placental Growth Factor	Protein coding	43	GC14M074941	4.407823563	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PGF
MGR5	Migraine With Or Without Aura, Susceptibility To, 5	Genetic locus	1	GC19U900053	4.405620575	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MGR5
MGR6	Migraine, Several Forms	Genetic locus	1	GC01U904111	4.405620575	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MGR6
GH1	Growth Hormone 1	Protein coding	44	GC17M063917	4.404236794	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GH1
KALRN	Kalirin RhoGEF Kinase	Protein coding	43	GC03P124033	4.403354645	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KALRN
NRP1	Neuropilin 1	Protein coding	46	GC10M033177	4.38891077	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NRP1
ODC1	Ornithine Decarboxylase 1	Protein coding	48	GC02M010432	4.385074615	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ODC1
SST	Somatostatin	Protein coding	42	GC03M187668	4.37627697	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SST
NR2F2	Nuclear Receptor Subfamily 2 Group F Member 2	Protein coding	49	GC15P096325	4.375780106	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NR2F2
CLU	Clusterin	Protein coding	45	GC08M027596	4.374174118	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CLU
ASIC1	Acid Sensing Ion Channel Subunit 1	Protein coding	43	GC12P050057	4.366595268	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ASIC1
THSD1	Thrombospondin Type 1 Domain Containing 1	Protein coding	39	GC13M052377	4.36397934	https://www.genecards.org/cgi-bin/carddisp.pl?gene=THSD1
SRC	SRC Proto-Oncogene, Non-Receptor Tyrosine Kinase	Protein coding	51	GC20P037344	4.362557411	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SRC
SETD2	SET Domain Containing 2, Histone Lysine Methyltransferase	Protein coding	47	GC03M047033	4.359635353	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SETD2
FCGR3B	Fc Fragment Of IgG Receptor IIIb	Protein coding	42	GC01M161623	4.346986771	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FCGR3B
MMP8	Matrix Metallopeptidase 8	Protein coding	48	GC11M102617	4.332929611	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMP8
SPG7	SPG7 Matrix AAA Peptidase Subunit, Paraplegin	Protein coding	43	GC16P089879	4.332630634	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPG7
TFAM	Transcription Factor A, Mitochondrial	Protein coding	44	GC10P058385	4.331443787	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TFAM
CYP3A4	Cytochrome P450 Family 3 Subfamily A Member 4	Protein coding	51	GC07M099759	4.321602345	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP3A4
GRIA1	Glutamate Ionotropic Receptor AMPA Type Subunit 1	Protein coding	49	GC05P153467	4.319773674	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIA1
SDHB	Succinate Dehydrogenase Complex Iron Sulfur Subunit B	Protein coding	48	GC01M017338	4.311541557	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SDHB
MIR143	MicroRNA 143	RNA gene	23	GC05P149410	4.29777956	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR143
LIPA	Lipase A, Lysosomal Acid Type	Protein coding	48	GC10M089213	4.295601845	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LIPA
PARK7	Parkinsonism Associated Deglycase	Protein coding	45	GC01P008025	4.289067268	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PARK7
CPT2	Carnitine Palmitoyltransferase 2	Protein coding	49	GC01P053196	4.287819862	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CPT2
HTR1A	5-Hydroxytryptamine Receptor 1A	Protein coding	47	GC05M063960	4.283052444	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HTR1A
CD63	CD63 Molecule	Protein coding	42	GC12M055725	4.273869514	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD63
GRIN1	Glutamate Ionotropic Receptor NMDA Type Subunit 1	Protein coding	50	GC09P137138	4.2697649	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIN1
CNR1	Cannabinoid Receptor 1	Protein coding	47	GC06M088139	4.269175053	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CNR1
CHI3L1	Chitinase 3 Like 1	Protein coding	43	GC01M203148	4.253834724	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHI3L1
TEK	TEK Receptor Tyrosine Kinase	Protein coding	50	GC09P027109	4.231464386	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TEK
DRD1	Dopamine Receptor D1	Protein coding	45	GC05M175440	4.227813721	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DRD1
CHIT1	Chitinase 1	Protein coding	43	GC01M203181	4.223034382	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHIT1

UQCRFS1	Ubiquinol-Cytochrome C Reductase, Rieske Iron-Sulfur Polypeptide 1	Protein coding	45	GC19M029205	4.220843315	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UQCRFS1
IL5RA	Interleukin 5 Receptor Subunit α	Protein coding	45	GC03M003066	4.219671249	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL5RA
LEPR	Leptin Receptor	Protein coding	49	GC01P065421	4.208309174	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LEPR
MT-ND3	Mitochondrially Encoded NADH:Ubiquinone Oxidoreductase Core Subunit 3	Protein coding	33	GCMTP010061	4.207285404	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MT-ND3
FURIN	Furin, Paired Basic Amino Acid Cleaving Enzyme	Protein coding	45	GC15P090868	4.204946041	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FURIN
NR3C2	Nuclear Receptor Subfamily 3 Group C Member 2	Protein coding	48	GC04M148078	4.201635838	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NR3C2
CRYAB	Crystallin α B	Protein coding	44	GC11M111908	4.189797401	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRYAB
FGF23	Fibroblast Growth Factor 23	Protein coding	45	GC12M004368	4.182587624	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGF23
MGR2	Migraine, Familial Typical, Susceptibility To	Genetic locus	1	GC0XU900032	4.17092514	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MGR2
MGR3	Migraine, Familial, With Or Without Aura, Susceptibility To	Genetic locus	1	GC06U900014	4.17092514	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MGR3
MGR8	Migraine, Susceptibility To, 8	Genetic locus	1	GC05U901104	4.17092514	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MGR8
MGR1	Migraine With Aura, Susceptibility To	Genetic locus	1	GC04U901855	4.17092514	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MGR1
MGR10	Migraine With Or Without Aura, Susceptibility To, 10	Genetic locus	1	GC17U902914	4.17092514	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MGR10
MGR11	Migraine With Or Without Aura, Susceptibility To, 11	Genetic locus	1	GC18U901349	4.17092514	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MGR11
MGR12	Migraine, With Or Without Aura, Susceptibility To, 12	Genetic locus	1	GC10U901155	4.17092514	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MGR12
ALG13	ALG13 UDP-N-Acetylglucosaminyltransferase Subunit	Protein coding	38	GC0XP111665	4.165397644	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALG13
NTS	Neurotensin	Protein coding	40	GC12P085876	4.160854816	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NTS
KLKB1	Kallikrein B1	Protein coding	47	GC04P186208	4.160516739	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KLKB1
MT-ND2	Mitochondrially Encoded NADH:Ubiquinone Oxidoreductase Core Subunit 2	Protein coding	34	GCMTP004472	4.160121441	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MT-ND2
NDUFA1	NADH:Ubiquinone Oxidoreductase Subunit A1	Protein coding	44	GC0XP119871	4.152535915	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NDUFA1
GCG	Glucagon	Protein coding	41	GC02M162142	4.13766098	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GCG
PCCB	Propionyl-CoA Carboxylase Subunit β	Protein coding	47	GC03P136250	4.13540554	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PCCB
TIMP3	TIMP Metallopeptidase Inhibitor 3	Protein coding	45	GC22P032800	4.135045052	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TIMP3
GYS1	Glycogen Synthase 1	Protein coding	50	GC19M049510	4.134681225	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GYS1
RNLS	Renalase, FAD Dependent Amine Oxidase	Protein coding	38	GC10M088180	4.11588192	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNLS
KCNMA1	Potassium Calcium-Activated Channel Subfamily M α 1	Protein coding	50	GC10M076869	4.104284286	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNMA1
PNP	Purine Nucleoside Phosphorylase	Protein coding	47	GC14P020468	4.101555824	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PNP
COX4I1	Cytochrome C Oxidase Subunit 4I1	Protein coding	46	GC16P085798	4.094920635	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COX4I1
TERT	Telomerase Reverse Transcriptase	Protein coding	51	GC05M001253	4.087656975	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TERT
PAPPA	Pappalysin 1	Protein coding	40	GC09P116653	4.086742878	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PAPPA
HSD11B2	Hydroxysteroid 11-β Dehydrogenase 2	Protein coding	46	GC16P067433	4.084470749	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSD11B2
SCNN1B	Sodium Channel Epithelial 1 Subunit β	Protein coding	48	GC16P023278	4.070623398	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCNN1B
MEFV	MEFV Innate Immuity Regulator, Pyrin	Protein coding	44	GC16M003970	4.066651821	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MEFV
BAD	BCL2 Associated Agonist Of Cell Death	Protein coding	45	GC11M071604	4.054996014	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BAD
LOC106029312	Williams-Beuren Syndrome Medial Block B Recombination Region	Biological region	2	GC07P074733	4.050317764	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC106029312
IRS2	Insulin Receptor Substrate 2	Protein coding	45	GC13M109752	4.039325237	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IRS2
CDH5	Cadherin 5	Protein coding	47	GC16P066366	4.039106846	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDH5
IL9	Interleukin 9	Protein coding	43	GC05M135891	4.038871765	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL9
PIGA	Phosphatidylinositol Glycan Anchor Biosynthesis Class A	Protein coding	45	GC0XM015319	4.038198948	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIGA
NAGS	N-Acetylglutamate Synthase	Protein coding	42	GC17P044004	4.037002563	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NAGS
IGF2BP2	Insulin Like Growth Factor 2 MRNA Binding Protein 2	Protein coding	44	GC03M185643	4.024525642	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IGF2BP2
ATXN2	Ataxin 2	Protein coding	43	GC12M111443	3.999251842	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATXN2
SCGB1A1	Secretoglobin Family 1A Member 1	Protein coding	40	GC11P062405	3.997830153	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCGB1A1
ATFB5	Atrial Fibrillation, Familial, 5	Genetic locus	1	GC04U900998	3.996117353	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATFB5
WDR45	WD Repeat Domain 45	Protein coding	40	GC0XM049074	3.989904881	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WDR45
MIR451A	MicroRNA 451a	RNA gene	19	GC17M028861	3.968869925	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR451A
APLNR	Apelin Receptor	Protein coding	43	GC11M057233	3.968307257	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APLNR
MT-ND4L	Mitochondrially Encoded NADH:Ubiquinone Oxidoreductase Core Subunit 4L	Protein coding	29	GCMTP010472	3.959968805	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MT-ND4L
GPX3	Glutathione Peroxidase 3	Protein coding	43	GC05P150997	3.936702967	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPX3
UCP3	Uncoupling Protein 3	Protein coding	43	GC11M074000	3.935195446	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UCP3
DMD	Dystrophin	Protein coding	47	GC0XM031097	3.934718132	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DMD
MIR499A	MicroRNA 499a	RNA gene	22	GC20P034990	3.932772636	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR499A
MTAP	Methylthioadenosine Phosphorylase	Protein coding	48	GC09P021792	3.920066357	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MTAP
CMA1	Chymase 1	Protein coding	44	GC14M024506	3.907726288	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CMA1
MIR149	MicroRNA 149	RNA gene	21	GC02P240456	3.907142639	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR149
MIR30A	MicroRNA 30a	RNA gene	20	GC06M071403	3.906103611	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR30A
KCNJ11	Potassium Inwardly Rectifying Channel Subfamily J Member 11	Protein coding	48	GC11M017364	3.900326729	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNJ11
NT5E	5'-Nucleotidase Ecto	Protein coding	51	GC06P085449	3.899983883	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NT5E
HABP2	Hyaluronan Binding Protein 2	Protein coding	45	GC10P113550	3.896471739	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HABP2
MIR122	MicroRNA 122	RNA gene	22	GC18P058451	3.887628078	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR122
KYNU	Kynureninase	Protein coding	47	GC02P142877	3.884968519	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KYNU
CELSR1	Cadherin EGF LAG Seven-Pass G-Type Receptor 1	Protein coding	41	GC22M046360	3.865314484	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CELSR1
CYP1A1	Cytochrome P450 Family 1 Subfamily A Member 1	Protein coding	47	GC15M074719	3.860416412	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP1A1
JUN	Jun Proto-Oncogene, AP-1 Transcription Factor Subunit	Protein coding	48	GC01M058780	3.857952595	https://www.genecards.org/cgi-bin/carddisp.pl?gene=JUN
GGCX	γ-Glutamyl Carboxylase	Protein coding	47	GC02M085544	3.856995821	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GGCX
MIR223	MicroRNA 223	RNA gene	22	GC0XP066018	3.856517553	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR223
SGK1	Serum/Glucocorticoid Regulated Kinase 1	Protein coding	48	GC06M134169	3.855800629	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SGK1
TYR	Tyrosinase	Protein coding	47	GC11P089177	3.855480671	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TYR
CYP17A1	Cytochrome P450 Family 17 Subfamily A Member 1	Protein coding	49	GC10M102830	3.854734898	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP17A1
NTN1	Netrin 1	Protein coding	44	GC17P009021	3.84481144	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NTN1
MIR144	MicroRNA 144	RNA gene	18	GC17M031468	3.839379311	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR144
XRCC1	X-Ray Repair Cross Complementing 1	Protein coding	44	GC19M043543	3.822722197	https://www.genecards.org/cgi-bin/carddisp.pl?gene=XRCC1
MROS	Melkersson-Rosenthal Syndrome	Genetic locus	2	GC09U990083	3.818276405	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MROS
ERCC8	ERCC Excision Repair 8, CSA Ubiquitin Ligase Complex Subunit	Protein coding	42	GC05M060876	3.813338041	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ERCC8
HGF	Hepatocyte Growth Factor	Protein coding	51	GC07M081699	3.81035471	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HGF
PRKN	Parkin RBR E3 Ubiquitin Protein Ligase	Protein coding	39	GC06M161348	3.80499506	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKN

THBS1	Thrombospondin 1	Protein coding	44	GC15P039581	3.800085545	https://www.genecards.org/cgi-bin/carddisp.pl?gene=THBS1
IMPA2	Inositol Monophosphatase 2	Protein coding	44	GC18P011981	3.788786173	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IMPA2
KITLG	KIT Ligand	Protein coding	44	GC12M088492	3.786730289	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KITLG
SLC17A5	Solute Carrier Family 17 Member 5	Protein coding	44	GC06M073593	3.784972906	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC17A5
LAMP2	Lysosomal Associated Membrane Protein 2	Protein coding	44	GC0XM120426	3.768020391	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LAMP2
CCN2	Cellular Communication Network Factor 2	Protein coding	38	GC06M131948	3.759025097	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCN2
KIT	KIT Proto-Oncogene, Receptor Tyrosine Kinase	Protein coding	52	GC04P054657	3.755486012	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KIT
IGFBP1	Insulin Like Growth Factor Binding Protein 1	Protein coding	43	GC07P046936	3.747914076	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IGFBP1
LIF	LIF Interleukin 6 Family Cytokine	Protein coding	41	GC22M030240	3.746820211	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LIF
MMP7	Matrix Metallopeptidase 7	Protein coding	48	GC11M102425	3.735569954	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMP7
MDM2	MDM2 Proto-Oncogene	Protein coding	52	GC12P068808	3.732131243	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MDM2
APOL1	Apolipoprotein L1	Protein coding	44	GC22P036253	3.731431007	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APOL1
GCH1	GTP Cyclohydrolase 1	Protein coding	47	GC14M054842	3.724099636	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GCH1
IRAK1	Interleukin 1 Receptor Associated Kinase 1	Protein coding	49	GC0XM154010	3.722781897	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IRAK1
MASP2	MBL Associated Serine Protease 2	Protein coding	46	GC01M011026	3.720680237	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MASP2
PON3	Paraoxonase 3	Protein coding	44	GC07M095359	3.71866703	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PON3
ITLN1	Intelectin 1	Protein coding	38	GC01M160876	3.715398312	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITLN1
WRN	WRN RecQ Like Helicase	Protein coding	45	GC08P031033	3.715301991	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WRN
TAC1	Tachykinin Precursor 1	Protein coding	43	GC07P097731	3.713142395	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TAC1
KARS1	Lysyl-TRNA Synthetase 1	Protein coding	37	GC16M075628	3.701917171	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KARS1
ADAM17	ADAM Metallopeptidase Domain 17	Protein coding	51	GC02M009488	3.686322212	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADAM17
SLC2A4	Solute Carrier Family 2 Member 4	Protein coding	46	GC17P009310	3.678814888	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC2A4
C4B	Complement C4B (Chido Blood Group)	Protein coding	43	GC06P032014	3.671227932	https://www.genecards.org/cgi-bin/carddisp.pl?gene=C4B
RAI1	Retinoic Acid Induced 1	Protein coding	40	GC17P017682	3.670593262	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAI1
GC	GC Vitamin D Binding Protein	Protein coding	43	GC04M071741	3.665287495	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GC
MEG3	Maternally Expressed 3	RNA gene	30	GC14P106791	3.664371014	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MEG3
TYMP	Thymidine Phosphorylase	Protein coding	46	GC22M050525	3.658165216	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TYMP
CCR3	C-C Motif Chemokine Receptor 3	Protein coding	47	GC03P046163	3.65374279	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCR3
FOXP2	Forkhead Box P2	Protein coding	44	GC07P114086	3.652798891	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FOXP2
MIR196A2	MicroRNA 196a-2	RNA gene	22	GC12P054542	3.637716293	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR196A2
IL37	Interleukin 37	Protein coding	37	GC02P117299	3.629179955	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL37
MIR181A1	MicroRNA 181a-1	RNA gene	19	GC01M198860	3.623659611	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR181A1
FABP3	Fatty Acid Binding Protein 3	Protein coding	43	GC01M031365	3.618423223	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FABP3
S100A1	S100 Calcium Binding Protein A1	Protein coding	41	GC01P153627	3.616727829	https://www.genecards.org/cgi-bin/carddisp.pl?gene=S100A1
WNK1	WNK Lysine Deficient Protein Kinase 1	Protein coding	47	GC12P000733	3.613400936	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WNK1
ITGAL	Integrin Subunit α L	Protein coding	46	GC16P030472	3.612178326	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGAL
ACP5	Acid Phosphatase 5, Tartrate Resistant	Protein coding	47	GC19M011574	3.608444929	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACP5
CCL5	C-C Motif Chemokine Ligand 5	Protein coding	43	GC17M035871	3.602361202	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCL5
PPARGC1A	PPARG Coactivator 1 α	Protein coding	46	GC04M023755	3.601317883	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPARGC1A
HSPB1	Heat Shock Protein Family B (Small) Member 1	Protein coding	51	GC07P076302	3.599119186	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSPB1
IL3	Interleukin 3	Protein coding	43	GC05P132060	3.597385883	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL3
KCNK17	Potassium Two Pore Domain Channel Subfamily K Member 17	Protein coding	36	GC06M049287	3.593248844	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNK17
ALOX12	Arachidonate 12-Lipoxygenase, 12S Type	Protein coding	44	GC17P006995	3.592920303	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALOX12
MAPK8	Mitogen-Activated Protein Kinase 8	Protein coding	50	GC10P048306	3.575964212	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAPK8
TIMP2	TIMP Metallopeptidase Inhibitor 2	Protein coding	43	GC17M078852	3.572782516	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TIMP2
PTK2B	Protein Tyrosine Kinase 2 β	Protein coding	50	GC08P027311	3.571918964	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTK2B
FTO	FTO α-Ketoglutarate Dependent Dioxygenase	Protein coding	45	GC16P053737	3.562188625	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FTO
NUP155	Nucleoporin 155	Protein coding	44	GC05M037288	3.561933517	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NUP155
TRPV4	Transient Receptor Potential Cation Channel Subfamily V Member 4	Protein coding	50	GC12M109783	3.56115818	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRPV4
GGT1	γ-Glutamyltransferase 1	Protein coding	48	GC22P024583	3.555764198	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GGT1
PVALB	Parvalbumin	Protein coding	38	GC22M036800	3.555222511	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PVALB
CLCN6	Chloride Voltage-Gated Channel 6	Protein coding	43	GC01P011806	3.554638624	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CLCN6
LOC106627981	GBA Recombination Region	Biological region	2	GC01P155233	3.546694756	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC106627981
TNFRSF1B	TNF Receptor Superfamily Member 1B	Protein coding	47	GC01P012167	3.545584679	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFRSF1B
WARS2	Tryptophanyl TRNA Synthetase 2, Mitochondrial	Protein coding	45	GC01M119031	3.537296057	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WARS2
TFB1M	Transcription Factor B1, Mitochondrial	Protein coding	42	GC06M155247	3.537296057	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TFB1M
DNAH5	Dynein Axonemal Heavy Chain 5	Protein coding	40	GC05M013693	3.533631563	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DNAH5
CCDC88C	Coiled-Coil Domain Containing 88C	Protein coding	39	GC14M091271	3.529526711	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCDC88C
DDAH1	Dimethylarginine Dimethylaminohydrolase 1	Protein coding	43	GC01M085318	3.522596598	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DDAH1
INSR	Insulin Receptor	Protein coding	53	GC19M007112	3.5223279	https://www.genecards.org/cgi-bin/carddisp.pl?gene=INSR
ESR2	Estrogen Receptor 2	Protein coding	49	GC14M064084	3.518482685	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ESR2
ROCK1	Rho Associated Coiled-Coil Containing Protein Kinase 1	Protein coding	50	GC18M020946	3.509199142	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ROCK1
GHR	Growth Hormone Receptor	Protein coding	46	GC05P042429	3.473473787	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GHR
SLCO1C1	Solute Carrier Organic Anion Transporter Family Member 1C1	Protein coding	40	GC12P020695	3.454162836	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLCO1C1
TWIST1	Twist Family BHLH Transcription Factor 1	Protein coding	46	GC07M019020	3.451712608	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TWIST1
MTOR	Mechanistic Target Of Rapamycin Kinase	Protein coding	54	GC01M011106	3.446678162	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MTOR
CYP11B1	Cytochrome P450 Family 11 Subfamily B Member 1	Protein coding	48	GC08M142872	3.434547663	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP11B1
SOST	Sclerostin	Protein coding	43	GC17M043753	3.433771372	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SOST
NR4A2	Nuclear Receptor Subfamily 4 Group A Member 2	Protein coding	47	GC02M156324	3.424216032	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NR4A2
GAA	α Glucosidase	Protein coding	47	GC17P080101	3.417210817	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GAA
NEFH	Neurofilament Heavy Chain	Protein coding	46	GC22P029480	3.413326263	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NEFH
CD68	CD68 Molecule	Protein coding	39	GC17P007579	3.407513618	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD68
SHBG	Sex Hormone Binding Globulin	Protein coding	40	GC17P007613	3.393645763	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SHBG
H2AC18	H2A Clustered Histone 18	Protein coding	27	GC01M150202	3.382412434	https://www.genecards.org/cgi-bin/carddisp.pl?gene=H2AC18
IGF1R	Insulin Like Growth Factor 1 Receptor	Protein coding	54	GC15P098648	3.380025625	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IGF1R
CYP1B1	Cytochrome P450 Family 1 Subfamily B Member 1	Protein coding	48	GC02M038066	3.37464118	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP1B1

KIF6	Kinesin Family Member 6	Protein coding	37	GC06M049285	3.373132706	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KIF6
GRIK2	Glutamate Ionotropic Receptor Kainate Type Subunit 2	Protein coding	47	GC06P100962	3.372010231	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIK2
C4A	Complement C4A (Rodgers Blood Group)	Protein coding	44	GC06P058333	3.36608839	https://www.genecards.org/cgi-bin/carddisp.pl?gene=C4A
AR	Androgen Receptor	Protein coding	52	GC0XP067544	3.363680601	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AR
SLC19A1	Solute Carrier Family 19 Member 1	Protein coding	47	GC21M045493	3.351695299	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC19A1
ADAMTS7	ADAM Metallopeptidase With Thrombospondin Type 1 Motif 7	Protein coding	40	GC15M078759	3.340489388	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADAMTS7
MIRLET7B	MicroRNA Let-7b	RNA gene	21	GC22P046119	3.328681469	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIRLET7B
IDO1	Indoleamine 2,3-Dioxygenase 1	Protein coding	44	GC08P039891	3.327741623	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IDO1
DRD2	Dopamine Receptor D2	Protein coding	50	GC11M113409	3.32753849	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DRD2
ALPL	Alkaline Phosphatase, Biomineralization Associated	Protein coding	50	GC01P021508	3.327400684	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALPL
TXN	Thioredoxin	Protein coding	45	GC09M110243	3.315989971	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TXN
MIR199A1	MicroRNA 199a-1	RNA gene	19	GC19M010817	3.315351486	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR199A1
ALOX15	Arachidonate 15-Lipoxygenase	Protein coding	44	GC17M004630	3.315172195	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALOX15
STX1A	Syntaxin 1A	Protein coding	47	GC07M073700	3.303699017	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STX1A
AIFM1	Apoptosis Inducing Factor Mitochondria Associated 1	Protein coding	48	GC0XM130129	3.298995972	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AIFM1
MIR29A	MicroRNA 29a	RNA gene	22	GC07M130876	3.290714741	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR29A
GAPDH	Glyceraldehyde-3-Phosphate Dehydrogenase	Protein coding	47	GC12P013162	3.288787842	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GAPDH
NR1H3	Nuclear Receptor Subfamily 1 Group H Member 3	Protein coding	47	GC11P047248	3.286007881	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NR1H3
KCNB1	Potassium Voltage-Gated Channel Subfamily B Member 1	Protein coding	47	GC20M049293	3.279401302	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNB1
HAVCR1	Hepatitis A Virus Cellular Receptor 1	Protein coding	41	GC05M157028	3.27886939	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HAVCR1
JPH3	Junctophilin 3	Protein coding	41	GC16P087601	3.27793169	https://www.genecards.org/cgi-bin/carddisp.pl?gene=JPH3
SPTB	Spectrin β, Erythrocytic	Protein coding	40	GC14M064746	3.276830435	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPTB
NOTCH4	Notch Receptor 4	Protein coding	45	GC06M049148	3.274196863	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NOTCH4
SOCS1	Suppressor Of Cytokine Signaling 1	Protein coding	43	GC16M011255	3.265773535	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SOCS1
PIGQ	Phosphatidylinositol Glycan Anchor Biosynthesis Class Q	Protein coding	43	GC16P006116	3.262368441	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIGQ
MS4A2	Membrane Spanning 4-Domains A2	Protein coding	41	GC11P060088	3.255297422	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MS4A2
GPX1	Glutathione Peroxidase 1	Protein coding	47	GC03M049537	3.252576828	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPX1
SUOX	Sulfite Oxidase	Protein coding	45	GC12P055997	3.249260426	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SUOX
NPC1	NPC Intracellular Cholesterol Transporter 1	Protein coding	47	GC18M023506	3.248376369	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPC1
MMP10	Matrix Metallopeptidase 10	Protein coding	46	GC11M102770	3.242784023	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMP10
VIPR2	Vasoactive Intestinal Peptide Receptor 2	Protein coding	44	GC07M159028	3.241565704	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VIPR2
BDKRB2	Bradykinin Receptor B2	Protein coding	44	GC14P096205	3.2316432	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BDKRB2
IL33	Interleukin 33	Protein coding	38	GC09P006206	3.223978519	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL33
DLL4	δ Like Canonical Notch Ligand 4	Protein coding	45	GC15P040929	3.222126961	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DLL4
CACNA1C	Calcium Voltage-Gated Channel Subunit α1 C	Protein coding	49	GC12P001970	3.216880083	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CACNA1C
CDH13	Cadherin 13	Protein coding	43	GC16P082626	3.216671944	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDH13
ADAMTSL1	ADAMTS Like 1	Protein coding	41	GC09P017906	3.214998245	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADAMTSL1
APOA4	Apolipoprotein A4	Protein coding	42	GC11M116820	3.213994741	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APOA4
SLC6A3	Solute Carrier Family 6 Member 3	Protein coding	50	GC05M001392	3.207286358	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC6A3
TIE1	Tyrosine Kinase With Immunoglobulin Like And EGF Like Domains 1	Protein coding	42	GC01P043300	3.204343557	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TIE1
LEPQTL1	Leptin, Serum Levels Of	Genetic locus	2	GC02U903086	3.203526497	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LEPQTL1
GCK	Glucokinase	Protein coding	50	GC07M044190	3.202139139	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GCK
FNDC5	Fibronectin Type III Domain Containing 5	Protein coding	33	GC01M032877	3.19818306	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FNDC5
BRAP	BRCA1 Associated Protein	Protein coding	41	GC12M111642	3.191978931	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BRAP
VASP	Vasodilator Stimulated Phosphoprotein	Protein coding	43	GC19P045507	3.186223984	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VASP
SREBF1	Sterol Regulatory Element Binding Transcription Factor 1	Protein coding	45	GC17M017810	3.180946827	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SREBF1
CFLAR	CASP8 And FADD Like Apoptosis Regulator	Protein coding	45	GC02P201117	3.174108982	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CFLAR
ADCYAP1	Adenylate Cyclase Activating Polypeptide 1	Protein coding	42	GC18P000895	3.172010899	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADCYAP1
ABCG2	ATP Binding Cassette Subfamily G Member 2 (Junior Blood Group)	Protein coding	50	GC04M088090	3.166645765	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCG2
DLL1	δ Like Canonical Notch Ligand 1	Protein coding	45	GC06M170282	3.165777206	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DLL1
CD79A	CD79a Molecule	Protein coding	46	GC19P041877	3.161233902	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD79A
RBPJ	Recombination Signal Binding Protein For Immunoglobulin κ J Region	Protein coding	47	GC04P026165	3.157582998	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RBPJ
TCF7	Transcription Factor 7	Protein coding	45	GC05P134114	3.144065857	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TCF7
GNAS	GNAS Complex Locus	Protein coding	51	GC20P058839	3.142588139	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GNAS
CAMK2G	Calcium/Calmodulin Dependent Protein Kinase II γ	Protein coding	48	GC10M073812	3.136489153	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAMK2G
DLG4	Discs Large MAGUK Scaffold Protein 4	Protein coding	48	GC17M007189	3.127924919	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DLG4
PTGDS	Prostaglandin D2 Synthase	Protein coding	44	GC09P137013	3.123105764	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTGDS
RYR2	Ryanodine Receptor 2	Protein coding	48	GC01P237042	3.123040676	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RYR2
CIITA	Class II Major Histocompatibility Complex Transactivator	Protein coding	45	GC16P010879	3.121751547	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CIITA
MTTP	Microsomal Triglyceride Transfer Protein	Protein coding	45	GC04P099563	3.120309114	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MTTP
GSTT1	Glutathione S-Transferase θ 1	Protein coding	33	GC22Mi00270	3.11806488	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GSTT1
PLA2G2A	Phospholipase A2 Group IIA	Protein coding	47	GC01M019975	3.114442348	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLA2G2A
PSMA6	Proteasome 20S Subunit α 6	Protein coding	46	GC14P035278	3.110429764	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSMA6
CDH11	Cadherin 11	Protein coding	47	GC16M064943	3.107358932	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDH11
ATP1A3	ATPase Na+/K+ Transporting Subunit α 3	Protein coding	48	GC19M041966	3.105328083	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATP1A3
AFG3L2	AFG3 Like Matrix AAA Peptidase Subunit 2	Protein coding	44	GC18M012328	3.102565527	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AFG3L2
CYBB	Cytochrome B-245 β Chain	Protein coding	47	GC0XP037780	3.101630688	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYBB
ABCG8	ATP Binding Cassette Subfamily G Member 8	Protein coding	43	GC02P043828	3.10146594	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCG8
EGR1	Early Growth Response 1	Protein coding	43	GC05P138465	3.095691204	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EGR1
P2RY1	Purinergic Receptor P2Y1	Protein coding	46	GC03P152835	3.089677334	https://www.genecards.org/cgi-bin/carddisp.pl?gene=P2RY1
SCN8A	Sodium Voltage-Gated Channel α Subunit 8	Protein coding	47	GC12P051590	3.089550018	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCN8A
SLCO1B1	Solute Carrier Organic Anion Transporter Family Member 1B1	Protein coding	48	GC12P021132	3.073178291	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLCO1B1
TNFSF11	TNF Superfamily Member 11	Protein coding	47	GC13P042562	3.071291447	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFSF11
PTHLH	Parathyroid Hormone Like Hormone	Protein coding	45	GC12M027959	3.068457127	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTHLH
PMM1	Phosphomannomutase 1	Protein coding	40	GC22M041576	3.067127705	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PMM1
CHGA	Chromogranin A	Protein coding	42	GC14P092929	3.065340519	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHGA

MIR134	MicroRNA 134	RNA gene	19	GC14P106797	3.064644337	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR134
PDGFB	Platelet Derived Growth Factor Subunit B	Protein coding	49	GC22M050295	3.050550461	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDGFB
SQSTM1	Sequestosome 1	Protein coding	48	GC05P179806	3.050289154	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SQSTM1
TRPV1	Transient Receptor Potential Cation Channel Subfamily V Member 1	Protein coding	46	GC17M003565	3.045722008	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRPV1
OPRM1	Opioid Receptor μ 1	Protein coding	48	GC06P154075	3.035374403	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OPRM1
NOX4	NADPH Oxidase 4	Protein coding	42	GC11M089324	3.035027266	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NOX4
BAX	BCL2 Associated X, Apoptosis Regulator	Protein coding	48	GC19P048954	3.030854702	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BAX
PTPN1	Protein Tyrosine Phosphatase Non-Receptor Type 1	Protein coding	50	GC20P050510	3.030286312	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPN1
TRIM2	Tripartite Motif Containing 2	Protein coding	41	GC04P153152	3.029047012	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRIM2
MME	Membrane Metalloendopeptidase	Protein coding	50	GC03P155024	3.027881145	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MME
CCK	Cholecystokinin	Protein coding	42	GC03M042274	3.027450323	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCK
AKR1B1	Aldo-Keto Reductase Family 1 Member B	Protein coding	47	GC07M134442	3.021580219	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKR1B1
SOD3	Superoxide Dismutase 3	Protein coding	41	GC04P024798	3.018280029	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SOD3
SELENOS	Selenoprotein S	Protein coding	31	GC15M108722	3.017411232	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SELENOS
ABCG1	ATP Binding Cassette Subfamily G Member 1	Protein coding	44	GC21P042199	3.017077446	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCG1
KIAA0319L	KIAA0319 Like	Protein coding	37	GC01M035433	3.015804768	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KIAA0319L
LTB	Lymphotoxin β	Protein coding	40	GC06M049117	3.012680769	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LTB
TRPM7	Transient Receptor Potential Cation Channel Subfamily M Member 7	Protein coding	45	GC15M050552	3.009033442	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRPM7
IFNA1	Interferon α 1	Protein coding	39	GC09P021532	3.008667469	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IFNA1
DLL3	δ Like Canonical Notch Ligand 3	Protein coding	41	GC19P039498	3.008014202	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DLL3
SRRT	Serrate, RNA Effector Molecule	Protein coding	38	GC07P100875	3.008014202	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SRRT
CALM1	Calmodulin 1	Protein coding	45	GC14P090396	3.006863594	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CALM1
STAT5A	Signal Transducer And Activator Of Transcription 5A	Protein coding	46	GC17P042287	3.006483793	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STAT5A
STIN2-VNTR	Serotonin Transporter Intronic VNTR Enhancer	Biological region	1	GC17P030221	3.003309011	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STIN2-VNTR
RUNX2	RUNX Family Transcription Factor 2	Protein coding	48	GC06P058536	3.003157616	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RUNX2
ABCC1	ATP Binding Cassette Subfamily C Member 1	Protein coding	49	GC16P015949	3.001239061	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCC1
GRM7	Glutamate Metabotropic Receptor 7	Protein coding	47	GC03P006770	3.001124144	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRM7
DBH	Dopamine β-Hydroxylase	Protein coding	50	GC09P133636	2.998775244	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DBH
CX3CL1	C-X3-C Motif Chemokine Ligand 1	Protein coding	41	GC16P057372	2.994762421	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CX3CL1
IL12A	Interleukin 12A	Protein coding	43	GC03P159988	2.993739605	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL12A
CASP8	Caspase 8	Protein coding	52	GC02P201233	2.992638111	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CASP8
GRM1	Glutamate Metabotropic Receptor 1	Protein coding	51	GC06P145973	2.991319418	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRM1
IL2RA	Interleukin 2 Receptor Subunit α	Protein coding	50	GC10M006010	2.988510847	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL2RA
PSEN2	Presenilin 2	Protein coding	50	GC01P226870	2.986310005	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSEN2
PLOD1	Procollagen-Lysine,2-Oxoglutarate 5-Dioxygenase 1	Protein coding	42	GC01P011934	2.985775471	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLOD1
UGT1A1	UDP Glucuronosyltransferase Family 1 Member A1	Protein coding	48	GC02P233760	2.983431339	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGT1A1
FOLH1	Folate Hydrolase 1	Protein coding	47	GC11M071265	2.982842207	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FOLH1
ADH1C	Alcohol Dehydrogenase 1C (Class I), γ Polypeptide	Protein coding	42	GC04M099336	2.978156567	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADH1C
LTA4H	Leukotriene A4 Hydrolase	Protein coding	45	GC12M096000	2.977104664	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LTA4H
HEY1	Hes Related Family BHLH Transcription Factor With YRPW Motif 1	Protein coding	43	GC08M079764	2.974816799	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HEY1
JAG2	Jagged Canonical Notch Ligand 2	Protein coding	42	GC14M105140	2.974816799	https://www.genecards.org/cgi-bin/carddisp.pl?gene=JAG2
HEYL	Hes Related Family BHLH Transcription Factor With YRPW Motif Like	Protein coding	39	GC01M039623	2.974816799	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HEYL
CYP2D6	Cytochrome P450 Family 2 Subfamily D Member 6	Protein coding	48	GC22M042126	2.971186876	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP2D6
EPHB4	EPH Receptor B4	Protein coding	51	GC07M100803	2.968825817	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPHB4
EP300	E1A Binding Protein P300	Protein coding	51	GC22P041091	2.967563152	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EP300
IFIH1	Interferon Induced With Helicase C Domain 1	Protein coding	47	GC02M162267	2.957386971	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IFIH1
MMP13	Matrix Metallopeptidase 13	Protein coding	50	GC11M102942	2.954930305	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMP13
MIR34A	MicroRNA 34a	RNA gene	23	GC01M009151	2.950960159	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR34A
MTRR	5-Methyltetrahydrofolate-Homocysteine Methyltransferase Reductase	Protein coding	43	GC05P007851	2.949322701	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MTRR
CELF2	CUGBP Elav-Like Family Member 2	Protein coding	42	GC10P010462	2.947994947	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CELF2
NAGLU	N-Acetyl-α-Glucosaminidase	Protein coding	42	GC17P042543	2.943696499	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NAGLU
MUC1	Mucin 1, Cell Surface Associated	Protein coding	47	GC01M155185	2.938732624	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MUC1
CHRNA7	Cholinergic Receptor Nicotinic α 7 Subunit	Protein coding	45	GC15P031923	2.937201738	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHRNA7
CACNA1A	Calcium Voltage-Gated Channel Subunit α1 A	Protein coding	47	GC19M013206	2.937168598	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CACNA1A
PATJ	PATJ Crumbs Cell Polarity Complex Component	Protein coding	31	GC01P061743	2.936070442	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PATJ
MYT1L	Myelin Transcription Factor 1 Like	Protein coding	41	GC02M001789	2.93124032	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYT1L
MIR140	MicroRNA 140	RNA gene	22	GC16P069934	2.926820278	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR140
ADRA2A	Adrenoceptor α 2A	Protein coding	47	GC10P111077	2.925698519	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADRA2A
DENND11	DENN Domain Containing 11	Protein coding	25	GC07M141656	2.924808741	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DENND11
SAA1	Serum Amyloid A1	Protein coding	41	GC11P018267	2.924681902	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SAA1
PTGES	Prostaglandin E Synthase	Protein coding	41	GC09M129738	2.918799877	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTGES
DYRK1A	Dual Specificity Tyrosine Phosphorylation Regulated Kinase 1A	Protein coding	50	GC21P037365	2.916493177	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DYRK1A
MIR221	MicroRNA 221	RNA gene	21	GC0XM045746	2.916249275	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR221
CDH4	Cadherin 4	Protein coding	42	GC20P061252	2.914408445	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDH4
MMRN1	Multimerin 1	Protein coding	40	GC04P089879	2.912666321	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMRN1
SLC2A3	Solute Carrier Family 2 Member 3	Protein coding	48	GC12M007919	2.912596703	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC2A3
MIR124-1	MicroRNA 124-1	RNA gene	22	GC08M009903	2.907217741	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR124-1
GAS6	Growth Arrest Specific 6	Protein coding	44	GC13M113820	2.906847715	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GAS6
HNF1B	HNF1 Homeobox B	Protein coding	44	GC17M037686	2.904248238	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HNF1B
TNXB	Tenascin XB	Protein coding	44	GC06M049135	2.903488636	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNXB
BCHE	Butyrylcholinesterase	Protein coding	48	GC03M165772	2.90081501	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BCHE
APEX1	Apurinic/Apyrimidinic Endodeoxyribonuclease 1	Protein coding	44	GC14P020455	2.900336742	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APEX1
MAOA	Monoamine Oxidase A	Protein coding	50	GC0XP043654	2.894194126	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAOA
NDUFC2	NADH:Ubiquinone Oxidoreductase Subunit C2	Protein coding	41	GC11M078068	2.892429829	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NDUFC2
SREBF2	Sterol Regulatory Element Binding Transcription Factor 2	Protein coding	43	GC22P041833	2.886911392	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SREBF2
COL1A2	Collagen Type I α 2 Chain	Protein coding	47	GC07P094394	2.88596344	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COL1A2

ZC3HC1	Zinc Finger C3HC-Type Containing 1	Protein coding	37	GC07M130026	2.884869099	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZC3HC1
BECN1	Beclin 1	Protein coding	45	GC17M042810	2.884428024	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BECN1
BMPR1A	Bone Morphogenetic Protein Receptor Type 1A	Protein coding	50	GC10P086756	2.882528305	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BMPR1A
HSD11B1	Hydroxysteroid 11-β Dehydrogenase 1	Protein coding	50	GC01P209686	2.878652573	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSD11B1
RUVBL2	RuvB Like AAA ATPase 2	Protein coding	44	GC19P048993	2.874909878	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RUVBL2
LLGL2	LLGL Scribble Cell Polarity Complex Component 2	Protein coding	40	GC17P075525	2.874909878	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LLGL2
APLN	Apelin	Protein coding	37	GC0XM129645	2.872885227	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APLN
GRIA2	Glutamate Ionotropic Receptor AMPA Type Subunit 2	Protein coding	50	GC04P157204	2.871995926	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIA2
MIR125B1	MicroRNA 125b-1	RNA gene	22	GC11M122100	2.863858223	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR125B1
ERCC4	ERCC Excision Repair 4, Endonuclease Catalytic Subunit	Protein coding	45	GC16P013920	2.863517761	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ERCC4
MYC	MYC Proto-Oncogene, BHLH Transcription Factor	Protein coding	51	GC08P127735	2.862642288	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYC
SLC8A1	Solute Carrier Family 8 Member A1	Protein coding	45	GC02M040078	2.862523079	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC8A1
PSAP	Prosaposin	Protein coding	46	GC10M071816	2.861062765	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSAP
CALCRL	Calcitonin Receptor Like Receptor	Protein coding	45	GC02M187341	2.858897209	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CALCRL
SP1	Sp1 Transcription Factor	Protein coding	44	GC12P053380	2.851135731	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SP1
MIR125A	MicroRNA 125a	RNA gene	22	GC19P051720	2.849973202	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR125A
ALKBH8	AlkB Homolog 8, TRNA Methyltransferase	Protein coding	37	GC11M107502	2.842199564	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALKBH8
CD28	CD28 Molecule	Protein coding	46	GC02P203706	2.841977596	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD28
IDH1	Isocitrate Dehydrogenase (NADP(+)) 1	Protein coding	52	GC02M208236	2.83890152	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IDH1
CD177	CD177 Molecule	Protein coding	38	GC19P043353	2.837999344	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD177
IGF2	Insulin Like Growth Factor 2	Protein coding	47	GC11M002130	2.834954739	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IGF2
ASIC3	Acid Sensing Ion Channel Subunit 3	Protein coding	39	GC07P151048	2.834653616	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ASIC3
KCNN4	Potassium Calcium-Activated Channel Subfamily N Member 4	Protein coding	48	GC19M048587	2.833781719	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNN4
GSTO1	Glutathione S-Transferase ω 1	Protein coding	44	GC10P104235	2.832417011	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GSTO1
TNFSF10	TNF Superfamily Member 10	Protein coding	45	GC03M172505	2.83225584	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFSF10
LGALS2	Galectin 2	Protein coding	41	GC22M037570	2.832134247	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LGALS2
CALB1	Calbindin 1	Protein coding	41	GC08M090058	2.828175545	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CALB1
MIR142	MicroRNA 142	RNA gene	20	GC17M058331	2.824404001	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR142
C19orf12	Chromosome 19 Open Reading Frame 12	Protein coding	36	GC19M029699	2.823279142	https://www.genecards.org/cgi-bin/carddisp.pl?gene=C19orf12
S1PR1	Sphingosine-1-Phosphate Receptor 1	Protein coding	44	GC01P101236	2.818180084	https://www.genecards.org/cgi-bin/carddisp.pl?gene=S1PR1
ABCB7	ATP Binding Cassette Subfamily B Member 7	Protein coding	44	GC0XM075053	2.815701485	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCB7
HRAS	HRas Proto-Oncogene, GTPase	Protein coding	51	GC11M001303	2.812121391	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HRAS
HTT	Huntingtin	Protein coding	44	GC04P003041	2.809645653	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HTT
CTSB	Cathepsin B	Protein coding	51	GC08M011842	2.809618235	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTSB
CYP24A1	Cytochrome P450 Family 24 Subfamily A Member 1	Protein coding	47	GC20M054153	2.805990934	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP24A1
DEFA1	Defensin α 1	Protein coding	41	GC08M006977	2.80259943	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DEFA1
ROS1	ROS Proto-Oncogene 1, Receptor Tyrosine Kinase	Protein coding	45	GC06M117287	2.799934387	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ROS1
MEF2D	Myocyte Enhancer Factor 2D	Protein coding	44	GC01M156463	2.79530406	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MEF2D
SIL1	SIL1 Nucleotide Exchange Factor	Protein coding	40	GC05M138957	2.79381156	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SIL1
KCNMB1	Potassium Calcium-Activated Channel Subfamily M Regulatory β Subunit 1	Protein coding	43	GC05M170374	2.792865753	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNMB1
CD4	CD4 Molecule	Protein coding	49	GC12P006786	2.78975606	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD4
DNAH11	Dynein Axonemal Heavy Chain 11	Protein coding	42	GC07P021543	2.786105633	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DNAH11
DDC	Dopa Decarboxylase	Protein coding	52	GC07M050458	2.785496235	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DDC
EZH2	Enhancer Of Zeste 2 Polycomb Repressive Complex 2 Subunit	Protein coding	54	GC07M148807	2.781049013	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EZH2
NTRK2	Neurotrophic Receptor Tyrosine Kinase 2	Protein coding	52	GC09P084668	2.78010869	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NTRK2
H2AX	H2A.X Variant Histone	Protein coding	36	GC11M119097	2.776882648	https://www.genecards.org/cgi-bin/carddisp.pl?gene=H2AX
STAT5B	Signal Transducer And Activator Of Transcription 5B	Protein coding	49	GC17M042199	2.774267673	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STAT5B
PALLD	Palladin, Cytoskeletal Associated Protein	Protein coding	43	GC04P168497	2.772378922	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PALLD
VAMP8	Vesicle Associated Membrane Protein 8	Protein coding	41	GC02P085561	2.772378922	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VAMP8
SCNN1G	Sodium Channel Epithelial 1 Subunit γ	Protein coding	46	GC16P023182	2.769763947	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCNN1G
APOD	Apolipoprotein D	Protein coding	42	GC03M195568	2.764491081	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APOD
MYH15	Myosin Heavy Chain 15	Protein coding	38	GC03M108380	2.763609886	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYH15
SNX19	Sorting Nexin 19	Protein coding	36	GC11M130868	2.763609886	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNX19
ICAM4	Intercellular Adhesion Molecule 4 (Landsteiner-Wiener Blood Group)	Protein coding	37	GC19P010286	2.763345718	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ICAM4
ADRA2B	Adrenoceptor α 2B	Protein coding	46	GC02M096112	2.761274815	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADRA2B
LMX1B	LIM Homeobox Transcription Factor 1 β	Protein coding	45	GC09P126614	2.760239124	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LMX1B
IL1F10	Interleukin 1 Family Member 10	Protein coding	38	GC02P113067	2.756058931	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL1F10
CSF1	Colony Stimulating Factor 1	Protein coding	43	GC01P109911	2.755208969	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSF1
GRM8	Glutamate Metabotropic Receptor 8	Protein coding	47	GC07M126438	2.754663944	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRM8
COL6A3	Collagen Type VI α 3 Chain	Protein coding	44	GC02M237324	2.751624107	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COL6A3
IRF1	Interferon Regulatory Factor 1	Protein coding	47	GC05M132440	2.747545242	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IRF1
PRKAA2	Protein Kinase AMP-Activated Catalytic Subunit α 2	Protein coding	50	GC01P056645	2.743619919	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKAA2
HAMP	Hepcidin Antimicrobial Peptide	Protein coding	44	GC19P041412	2.742558241	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HAMP
GSTO2	Glutathione S-Transferase ω 2	Protein coding	43	GC10P104268	2.742022514	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GSTO2
NTRK1	Neurotrophic Receptor Tyrosine Kinase 1	Protein coding	49	GC01P156815	2.741882801	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NTRK1
STAT4	Signal Transducer And Activator Of Transcription 4	Protein coding	47	GC02M191029	2.741284847	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STAT4
PPARD	Peroxisome Proliferator Activated Receptor δ	Protein coding	47	GC06P058435	2.738316059	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPARD
TRIB1	Tribbles Pseudokinase 1	Protein coding	38	GC08P125430	2.735250235	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRIB1
SERPINA12	Serpin Family A Member 12	Protein coding	38	GC14M096476	2.735022783	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPINA12
NQO1	NAD(P)H Quinone Dehydrogenase 1	Protein coding	48	GC16M069706	2.734405518	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NQO1
MIR24-1	MicroRNA 24-1	RNA gene	19	GC09P095086	2.73285675	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR24-1
HSPD1	Heat Shock Protein Family D (Hsp60) Member 1	Protein coding	47	GC02M197486	2.728806257	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSPD1
AKT2	AKT Serine/Threonine Kinase 2	Protein coding	54	GC19M040230	2.727531433	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKT2
GATA5	GATA Binding Protein 5	Protein coding	39	GC20M062464	2.726651907	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GATA5
ERAP1	Endoplasmic Reticulum Aminopeptidase 1	Protein coding	44	GC05M096760	2.72621274	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ERAP1
HSPA1B	Heat Shock Protein Family A (Hsp70) Member 1B	Protein coding	39	GC06P058327	2.72118926	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSPA1B

EGLN1	Egl-9 Family Hypoxia Inducible Factor 1	Protein coding	50	GC01M231363	2.719798803	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EGLN1
OPA1	OPA1 Mitochondrial Dynamin Like GTPase	Protein coding	44	GC03P193594	2.718375921	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OPA1
TLR3	Toll Like Receptor 3	Protein coding	51	GC04P186059	2.714648724	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TLR3
MVK	Mevalonate Kinase	Protein coding	48	GC12P109573	2.712249756	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MVK
LRP5	LDL Receptor Related Protein 5	Protein coding	48	GC11P068298	2.711889744	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LRP5
NPR1	Natriuretic Peptide Receptor 1	Protein coding	46	GC01P153735	2.71130085	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPR1
CCL17	C-C Motif Chemokine Ligand 17	Protein coding	37	GC16P057405	2.707761526	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCL17
EPAS1	Endothelial PAS Domain Protein 1	Protein coding	49	GC02P046293	2.706075668	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPAS1
AUTS2	Activator Of Transcription And Developmental Regulator AUTS2	Protein coding	39	GC07P069598	2.705483437	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AUTS2
GRK2	G Protein-Coupled Receptor Kinase 2	Protein coding	37	GC11P067266	2.700797558	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRK2
CCR1	C-C Motif Chemokine Receptor 1	Protein coding	45	GC03M046218	2.698007584	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCR1
KLC1	Kinesin Light Chain 1	Protein coding	41	GC14P106529	2.693399429	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KLC1
MIR188	MicroRNA 188	RNA gene	16	GC0XP050003	2.688959122	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR188
SLC25A4	Solute Carrier Family 25 Member 4	Protein coding	50	GC04P185143	2.6851542	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC25A4
ATP2B3	ATPase Plasma Membrane Ca2+ Transporting 3	Protein coding	48	GC0XP153517	2.683402538	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATP2B3
GSN	Gelsolin	Protein coding	48	GC09P121201	2.681714058	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GSN
ST2	Suppression Of Tumorigenicity 2	Genetic locus	6	GC11U990127	2.681020498	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ST2
KCNQ2	Potassium Voltage-Gated Channel Subfamily Q Member 2	Protein coding	48	GC20M063400	2.680829048	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNQ2
RAC1	Rac Family Small GTPase 1	Protein coding	49	GC07P006377	2.680413246	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAC1
CXCL16	C-X-C Motif Chemokine Ligand 16	Protein coding	39	GC17M004733	2.669481516	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXCL16
CLEC16A	C-Type Lectin Domain Containing 16A	Protein coding	37	GC16P010944	2.66871953	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CLEC16A
KCNK4	Potassium Two Pore Domain Channel Subfamily K Member 4	Protein coding	41	GC11P064292	2.666420221	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNK4
MIR150	MicroRNA 150	RNA gene	22	GC19M049500	2.663278103	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR150
LAMA1	Laminin Subunit α 1	Protein coding	46	GC18M006941	2.660968781	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LAMA1
NRG1	Neuregulin 1	Protein coding	46	GC08P031639	2.660413265	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NRG1
EIF2AK2	Eukaryotic Translation Initiation Factor 2 α Kinase 2	Protein coding	47	GC02M037099	2.657449722	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EIF2AK2
CSTB	Cystatin B	Protein coding	45	GC21M043772	2.655944824	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSTB
ALDH1A2	Aldehyde Dehydrogenase 1 Family Member A2	Protein coding	48	GC15M068750	2.653786421	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDH1A2
CRH	Corticotropin Releasing Hormone	Protein coding	44	GC08M066176	2.650784492	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRH
VIP	Vasoactive Intestinal Peptide	Protein coding	44	GC06P152750	2.649690628	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VIP
PROS1	Protein S	Protein coding	47	GC03M093873	2.647009611	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PROS1
MIR30E	MicroRNA 30e	RNA gene	22	GC01P040754	2.646023512	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR30E
SUPT3H	SPT3 Homolog, SAGA And STAGA Complex Component	Protein coding	41	GC06M049405	2.642816067	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SUPT3H
ITPR3	Inositol 1,4,5-Trisphosphate Receptor Type 3	Protein coding	46	GC06P033620	2.64207983	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITPR3
IDE	Insulin Degrading Enzyme	Protein coding	48	GC10M092451	2.640630007	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IDE
UMOD	Uromodulin	Protein coding	41	GC16M020344	2.632339954	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UMOD
NFKB1	Nuclear Factor κ B Subunit 1	Protein coding	52	GC04P102501	2.631258965	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NFKB1
PSRC1	Proline And Serine Rich Coiled-Coil 1	Protein coding	38	GC01M109279	2.627158642	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSRC1
LEMD3	LEM Domain Containing 3	Protein coding	41	GC12P065169	2.625838757	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LEMD3
PLAUR	Plasminogen Activator, Urokinase Receptor	Protein coding	44	GC19M043646	2.622840166	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLAUR
AQP1	Aquaporin 1 (Colton Blood Group)	Protein coding	46	GC07P030911	2.622479677	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AQP1
KLK1	Kallikrein 1	Protein coding	45	GC19M050819	2.620002508	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KLK1
IL11	Interleukin 11	Protein coding	40	GC19M055364	2.619628906	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL11
FABP12	Fatty Acid Binding Protein 12	Protein coding	31	GC08M081524	2.614249229	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FABP12
TLR8	Toll Like Receptor 8	Protein coding	47	GC0XP012924	2.609654427	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TLR8
PRTN3	Proteinase 3	Protein coding	44	GC19P000840	2.60869956	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRTN3
HRES1	HTLV-1 Related Endogenous Sequence	Pseudgene	11	GC01U990083	2.608298779	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HRES1
TTC7B	Tetratricopeptide Repeat Domain 7B	Protein coding	33	GC14M090524	2.60736227	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TTC7B
AP3B1	Adaptor Related Protein Complex 3 Subunit β 1	Protein coding	45	GC05M078000	2.604679108	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AP3B1
TRAF3	TNF Receptor Associated Factor 3	Protein coding	47	GC14P106523	2.604533672	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRAF3
MIR17	MicroRNA 17	RNA gene	22	GC13P091350	2.603705406	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR17
RUNX1	RUNX Family Transcription Factor 1	Protein coding	48	GC21M034787	2.601000786	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RUNX1
FADS1	Fatty Acid Desaturase 1	Protein coding	44	GC11M061799	2.600322723	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FADS1
GHRH	Growth Hormone Releasing Hormone	Protein coding	38	GC20M037251	2.598248005	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GHRH
HLA-DRA	Major Histocompatibility Complex, Class II, DR α	Protein coding	47	GC06P032439	2.598051548	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HLA-DRA
DSP	Desmoplakin	Protein coding	50	GC06P007541	2.597561598	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DSP
ADAMTS1	ADAM Metallopeptidase With Thrombospondin Type 1 Motif 1	Protein coding	45	GC21M026835	2.584623098	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADAMTS1
ARHGEF10	Rho Guanine Nucleotide Exchange Factor 10	Protein coding	43	GC08P001823	2.582096577	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARHGEF10
NGFR	Nerve Growth Factor Receptor	Protein coding	45	GC17P049495	2.580614328	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NGFR
ADCYAP1R1	ADCYAP Receptor Type I	Protein coding	45	GC07P031058	2.578980446	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADCYAP1R1
KCNQ3	Potassium Voltage-Gated Channel Subfamily Q Member 3	Protein coding	45	GC08M132120	2.575335741	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNQ3
TNFSF12	TNF Superfamily Member 12	Protein coding	40	GC17P009335	2.571112633	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFSF12
ZCCHC14	Zinc Finger CCHC-Type Containing 14	Protein coding	33	GC16M087406	2.569196701	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZCCHC14
PDGFD	Platelet Derived Growth Factor D	Protein coding	44	GC11M103907	2.567523956	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDGFD
DCN	Decorin	Protein coding	46	GC12M091140	2.567391872	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DCN
BLK	BLK Proto-Oncogene, Src Family Tyrosine Kinase	Protein coding	50	GC08P011486	2.563750267	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BLK
ITGB6	Integrin Subunit β 6	Protein coding	47	GC02M160099	2.561737776	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGB6
SERPINA9	Serpin Family A Member 9	Protein coding	34	GC14M094462	2.558998585	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPINA9
HNF4A	Hepatocyte Nuclear Factor 4 α	Protein coding	51	GC20P044355	2.558803082	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HNF4A
MLYCD	Malonyl-CoA Decarboxylase	Protein coding	43	GC16P083899	2.558645487	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MLYCD
ITGA4	Integrin Subunit α 4	Protein coding	48	GC02P181456	2.556515455	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGA4
FGFR1	Fibroblast Growth Factor Receptor 1	Protein coding	54	GC08M038400	2.556310892	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGFR1
HPS1	HPS1 Biogenesis Of Lysosomal Organelles Complex 3 Subunit 1	Protein coding	42	GC10M098416	2.553804398	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HPS1
MAPK10	Mitogen-Activated Protein Kinase 10	Protein coding	50	GC04M085990	2.552734852	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAPK10
UBR3	Ubiquitin Protein Ligase E3 Component N-Recognin 3	Protein coding	35	GC02P169827	2.547387123	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UBR3
FOXF2	Forkhead Box F2	Protein coding	37	GC06P001390	2.54714489	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FOXF2

USF1	Upstream Transcription Factor 1	Protein coding	43	GC01M161039	2.546326876	https://www.genecards.org/cgi-bin/carddisp.pl?gene=USF1
PRCP	Prolylcarboxypeptidase	Protein coding	45	GC11M082823	2.545893431	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRCP
APIP	APAF1 Interacting Protein	Protein coding	39	GC11M034854	2.544367552	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APIP
STK11	Serine/Threonine Kinase 11	Protein coding	49	GC19P001177	2.540942907	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STK11
FASLG	Fas Ligand	Protein coding	47	GC01P172628	2.539871693	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FASLG
MAPK8IP1	Mitogen-Activated Protein Kinase 8 Interacting Protein 1	Protein coding	45	GC11P046139	2.539869308	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAPK8IP1
DPP4	Dipeptidyl Peptidase 4	Protein coding	49	GC02M161992	2.538581848	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DPP4
HOTAIR	HOX Transcript Antisense RNA	RNA gene	26	GC12M053962	2.538295746	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HOTAIR
HHT3	Osler-Rendu-Weber Syndrome 3	Genetic locus	1	GC05U901934	2.53821969	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HHT3
KCNIP4	Potassium Voltage-Gated Channel Interacting Protein 4	Protein coding	38	GC04M020728	2.535425186	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNIP4
LBP	Lipopolysaccharide Binding Protein	Protein coding	43	GC20P038346	2.533523083	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LBP
ANGPTL4	Angiopoietin Like 4	Protein coding	44	GC19P008363	2.533199549	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANGPTL4
CXCR2	C-X-C Motif Chemokine Receptor 2	Protein coding	48	GC02P218125	2.532358408	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXCR2
FUNDC2	FUN14 Domain Containing 2	Protein coding	34	GC0XP155025	2.531027555	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FUNDC2
SLC9A3R2	SLC9A3 Regulator 2	Protein coding	40	GC16P006188	2.528905869	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC9A3R2
SMPD1	Sphingomyelin Phosphodiesterase 1	Protein coding	47	GC11P006390	2.528905153	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMPD1
TCF21	Transcription Factor 21	Protein coding	36	GC06P133889	2.52686739	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TCF21
HSPG2	Heparan Sulfate Proteoglycan 2	Protein coding	46	GC01M021822	2.52656889	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSPG2
CAMTA1	Calmodulin Binding Transcription Activator 1	Protein coding	40	GC01P006825	2.525376558	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAMTA1
TRAPPC9	Trafficking Protein Particle Complex Subunit 9	Protein coding	38	GC08M139728	2.525376558	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRAPPC9
EPHA3	EPH Receptor A3	Protein coding	46	GC03P089077	2.524411917	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPHA3
GCLC	Glutamate-Cysteine Ligase Catalytic Subunit	Protein coding	44	GC06M053497	2.521836758	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GCLC
NOD2	Nucleotide Binding Oligomerization Domain Containing 2	Protein coding	48	GC16P050693	2.519214869	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NOD2
ANGPTL3	Angiopoietin Like 3	Protein coding	45	GC01P062597	2.515438318	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANGPTL3
RARRES2	Retinoic Acid Receptor Responder 2	Protein coding	38	GC07M150333	2.512977362	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RARRES2
BCAN	Brevican	Protein coding	41	GC01P156641	2.509629726	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BCAN
MGAT5	α-1,6-Mannosylglycoprotein 6-β-N-Acetylglucosaminyltransferase	Protein coding	40	GC02P134119	2.509629726	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MGAT5
SPATA13	Spermatogenesis Associated 13	Protein coding	37	GC13P024016	2.509629726	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPATA13
RHOA	Ras Homolog Family Member A	Protein coding	47	GC03M049359	2.503813267	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RHOA
CSF1R	Colony Stimulating Factor 1 Receptor	Protein coding	51	GC05M150053	2.498917103	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSF1R
DAPK1	Death Associated Protein Kinase 1	Protein coding	49	GC09P087497	2.498408556	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DAPK1
PCDH19	Protocadherin 19	Protein coding	41	GC0XM100291	2.497345686	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PCDH19
TRH	Thyrotropin Releasing Hormone	Protein coding	42	GC03P129974	2.495891571	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRH
UCHL1	Ubiquitin C-Terminal Hydrolase L1	Protein coding	51	GC04P041256	2.495031357	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UCHL1
ZNF292	Zinc Finger Protein 292	Protein coding	36	GC06P087153	2.49156332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZNF292
GRM5	Glutamate Metabotropic Receptor 5	Protein coding	48	GC11M088504	2.486018658	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRM5
CSF3R	Colony Stimulating Factor 3 Receptor	Protein coding	47	GC01M036466	2.481967449	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSF3R
APOA2	Apolipoprotein A2	Protein coding	44	GC01M161222	2.479827881	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APOA2
PFKM	Phosphofructokinase, Muscle	Protein coding	50	GC12P048105	2.477176428	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PFKM
MKI67	Marker Of Proliferation Ki-67	Protein coding	44	GC10M128096	2.476938248	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MKI67
CD59	CD59 Molecule (CD59 Blood Group)	Protein coding	45	GC11M033704	2.476097584	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD59
S100A9	S100 Calcium Binding Protein A9	Protein coding	42	GC01P153357	2.475050449	https://www.genecards.org/cgi-bin/carddisp.pl?gene=S100A9
MMAA	Metabolism Of Cobalamin Associated A	Protein coding	40	GC04P145607	2.474514723	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMAA
ALDH7A1	Aldehyde Dehydrogenase 7 Family Member A1	Protein coding	47	GC05M126541	2.473130465	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDH7A1
SPSB4	SplA/Ryanodine Receptor Domain And SOCS Box Containing 4	Protein coding	31	GC03P141051	2.470539331	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPSB4
GAL	Galanin And GMAP Prepropeptide	Protein coding	44	GC11P068684	2.470417023	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GAL
SLC22A3	Solute Carrier Family 22 Member 3	Protein coding	44	GC06P160348	2.469266891	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC22A3
MAG	Myelin Associated Glycoprotein	Protein coding	45	GC19P035292	2.466915607	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAG
STN1	STN1 Subunit Of CST Complex	Protein coding	31	GC10M103895	2.460392714	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STN1
HPSE	Heparanase	Protein coding	44	GC04M083292	2.457319736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HPSE
CELSR2	Cadherin EGF LAG Seven-Pass G-Type Receptor 2	Protein coding	41	GC01P109250	2.452867508	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CELSR2
TBX3	T-Box Transcription Factor 3	Protein coding	45	GC12M114670	2.449998379	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TBX3
ITM2B	Integral Membrane Protein 2B	Protein coding	43	GC13P048233	2.443171024	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITM2B
CRYBG1	Crystallin β-γ Domain Containing 1	Protein coding	25	GC06P106361	2.441155195	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRYBG1
OXT	Oxytocin/Neurophysin I Prepropeptide	Protein coding	40	GC20P003068	2.437024117	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OXT
VEGFC	Vascular Endothelial Growth Factor C	Protein coding	47	GC04M176683	2.435768843	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VEGFC
DRD4	Dopamine Receptor D4	Protein coding	47	GC11P001061	2.430494308	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DRD4
PDGFA	Platelet Derived Growth Factor Subunit A	Protein coding	43	GC07M000497	2.426645756	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDGFA
FLG	Filaggrin	Protein coding	40	GC01M152274	2.42610693	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FLG
CACNA1B	Calcium Voltage-Gated Channel Subunit α1 B	Protein coding	49	GC09P137877	2.424849033	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CACNA1B
KCNK3	Potassium Two Pore Domain Channel Subfamily K Member 3	Protein coding	50	GC02P026692	2.424816608	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNK3
CYBRD1	Cytochrome B Reductase 1	Protein coding	40	GC02P171522	2.422753811	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYBRD1
CHRNA4	Cholinergic Receptor Nicotinic α 4 Subunit	Protein coding	49	GC20M063343	2.42237854	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHRNA4
LOC110673971	CYP11B2 Promoter	Biological region	1	GC08P142917	2.419398785	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC110673971
MAOB	Monoamine Oxidase B	Protein coding	43	GC0XM043766	2.409998178	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAOB
ADAMTS2	ADAM Metallopeptidase With Thrombospondin Type 1 Motif 2	Protein coding	43	GC05M179110	2.407376051	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADAMTS2
APCS	Amyloid P Component, Serum	Protein coding	41	GC01P159587	2.404732227	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APCS
FOXG1	Forkhead Box G1	Protein coding	43	GC14P028766	2.402463913	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FOXG1
TSC2	TSC Complex Subunit 2	Protein coding	50	GC16P006190	2.402092934	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TSC2
WNT3	Wnt Family Member 3	Protein coding	47	GC17M046762	2.398211956	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WNT3
CARD8	Caspase Recruitment Domain Family Member 8	Protein coding	41	GC19M048900	2.396899223	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CARD8
LCAT	Lecithin-Cholesterol Acyltransferase	Protein coding	46	GC16M067939	2.39626193	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LCAT
PKP2	Plakophilin 2	Protein coding	45	GC12M032790	2.393494606	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PKP2
TLR7	Toll Like Receptor 7	Protein coding	47	GC0XP012867	2.392966509	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TLR7
PIK3CG	Phosphatidylinositol-4,5-Bisphosphate 3-Kinase Catalytic Subunit γ	Protein coding	48	GC07P106865	2.39050746	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIK3CG
MIR195	MicroRNA 195	RNA gene	20	GC17M007018	2.390054941	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR195

GSTP1	Glutathione S-Transferase Pi 1	Protein coding	50	GC11P067583	2.389478207	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GSTP1
VIM	Vimentin	Protein coding	50	GC10P017227	2.388063431	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VIM
SCGN	Secretagogin, EF-Hand Calcium Binding Protein	Protein coding	37	GC06P025652	2.386688232	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCGN
NFAT5	Nuclear Factor Of Activated T Cells 5	Protein coding	43	GC16P069565	2.3864007	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NFAT5
CARD14	Caspase Recruitment Domain Family Member 14	Protein coding	43	GC17P080170	2.381175756	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CARD14
MON1B	MON1 Homolog B, Secretory Trafficking Associated	Protein coding	34	GC16P077190	2.381175756	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MON1B
BMPR2	Bone Morphogenetic Protein Receptor Type 2	Protein coding	50	GC02P202376	2.379487991	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BMPR2
ATG7	Autophagy Related 7	Protein coding	43	GC03P011273	2.369612694	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATG7
ROPN1	Rhophilin Associated Tail Protein 1	Protein coding	34	GC03M123968	2.366288185	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ROPN1
PTPRC	Protein Tyrosine Phosphatase Receptor Type C	Protein coding	50	GC01P198607	2.365142345	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRC
EDN3	Endothelin 3	Protein coding	46	GC20P059300	2.362086296	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EDN3
NAA25	N-α-Acetyltransferase 25, NatB Auxiliary Subunit	Protein coding	36	GC12M112026	2.360514164	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NAA25
SNHG14	Small Nucleolar RNA Host Gene 14	RNA gene	16	GC15P027670	2.357454538	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNHG14
ZPR1	ZPR1 Zinc Finger	Protein coding	36	GC11M116777	2.355058193	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZPR1
STRN	Striatin	Protein coding	40	GC02M036815	2.35297966	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STRN
MIRLET7I	MicroRNA Let-7i	RNA gene	20	GC12P062606	2.352704048	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIRLET7I
DOCK8	Dedicator Of Cytokinesis 8	Protein coding	43	GC09P000214	2.352644444	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DOCK8
CAPN10	Calpain 10	Protein coding	41	GC02P240586	2.349555016	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAPN10
S100A8	S100 Calcium Binding Protein A8	Protein coding	42	GC01M153391	2.349375248	https://www.genecards.org/cgi-bin/carddisp.pl?gene=S100A8
HSPA1L	Heat Shock Protein Family A (Hsp70) Member 1 Like	Protein coding	44	GC06M031809	2.347002506	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSPA1L
COL4A4	Collagen Type IV α 4 Chain	Protein coding	44	GC02M226973	2.345821381	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COL4A4
CSN3	Casein κ	Protein coding	34	GC04P070242	2.344546318	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSN3
TYRO3	TYRO3 Protein Tyrosine Kinase	Protein coding	47	GC15P041557	2.339778662	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TYRO3
DFFA	DNA Fragmentation Factor Subunit α	Protein coding	44	GC01M010456	2.339729786	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DFFA
GRIA3	Glutamate Ionotropic Receptor AMPA Type Subunit 3	Protein coding	51	GC0XP123184	2.333147526	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIA3
CYP2E1	Cytochrome P450 Family 2 Subfamily E Member 1	Protein coding	45	GC10P133520	2.330587864	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP2E1
SRSF3	Serine And Arginine Rich Splicing Factor 3	Protein coding	40	GC06P058456	2.328489304	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SRSF3
LTB4R	Leukotriene B4 Receptor	Protein coding	45	GC14P024311	2.32291317	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LTB4R
ANK2	Ankyrin 2	Protein coding	41	GC04P112706	2.319845438	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANK2
IL16	Interleukin 16	Protein coding	42	GC15P081159	2.318170071	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL16
ASPM	Assembly Factor For Spindle Microtubules	Protein coding	38	GC01M197084	2.314853668	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ASPM
HTR2C	5-Hydroxytryptamine Receptor 2C	Protein coding	48	GC0XP114584	2.311404705	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HTR2C
SYNPO	Synaptopodin	Protein coding	38	GC05P150601	2.308113337	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SYNPO
ZC3H12A	Zinc Finger CCCH-Type Containing 12A	Protein coding	36	GC01P037474	2.303322315	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZC3H12A
COL5A1	Collagen Type V α 1 Chain	Protein coding	45	GC09P134641	2.301845312	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COL5A1
CLCN2	Chloride Voltage-Gated Channel 2	Protein coding	46	GC03M184346	2.298526525	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CLCN2
EGFR	Epidermal Growth Factor Receptor	Protein coding	53	GC07P055019	2.292897224	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EGFR
PRKCG	Protein Kinase C γ	Protein coding	52	GC19P053879	2.292600393	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKCG
ADRA2C	Adrenoceptor α 2C	Protein coding	45	GC04P003766	2.29203701	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADRA2C
NCAM1	Neural Cell Adhesion Molecule 1	Protein coding	46	GC11P112961	2.290941954	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NCAM1
SLC5A2	Solute Carrier Family 5 Member 2	Protein coding	47	GC16P033552	2.289741993	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC5A2
CHUK	Component Of Inhibitor Of Nuclear Factor κ B Kinase Complex	Protein coding	52	GC10M100188	2.28851223	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHUK
ALDH1L1	Aldehyde Dehydrogenase 1 Family Member L1	Protein coding	40	GC03M126103	2.288434982	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDH1L1
GUSB	Glucuronidase β	Protein coding	47	GC07M065960	2.284465551	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GUSB
WDR12	WD Repeat Domain 12	Protein coding	38	GC02M202874	2.281857491	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WDR12
KMT2A	Lysine Methyltransferase 2A	Protein coding	45	GC11P118436	2.281098604	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KMT2A
GLUD2	Glutamate Dehydrogenase 2	Protein coding	43	GC0XP121047	2.281098604	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLUD2
MOCS2	Molybdenum Cofactor Synthesis 2	Protein coding	42	GC05M053095	2.281098604	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MOCS2
NUDC	Nuclear Distribution C, Dynein Complex Regulator	Protein coding	42	GC01P026953	2.281098604	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NUDC
KLF4	Kruppel Like Factor 4	Protein coding	45	GC09M107484	2.27999258	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KLF4
SYP	Synaptophysin	Protein coding	44	GC0XM049187	2.279093266	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SYP
SOCS3	Suppressor Of Cytokine Signaling 3	Protein coding	44	GC17M078356	2.278394222	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SOCS3
MTHFS	Methenyltetrahydrofolate Synthetase	Protein coding	43	GC15M079833	2.278189182	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MTHFS
SUN1	Sad1 And UNC84 Domain Containing 1	Protein coding	38	GC07P000815	2.276191473	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SUN1
OXA1L	OXA1L Mitochondrial Inner Membrane Protein	Protein coding	39	GC14P022766	2.276071548	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OXA1L
IGFBP2	Insulin Like Growth Factor Binding Protein 2	Protein coding	43	GC02P216632	2.275911093	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IGFBP2
PLA2G6	Phospholipase A2 Group VI	Protein coding	48	GC22M050884	2.275238991	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLA2G6
LPAL2	Lipoprotein(A) Like 2, Pseudogene	Pseudogene	26	GC06M160453	2.273447037	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LPAL2
SPTBN5	Spectrin β, Non-Erythrocytic 5	Protein coding	35	GC15M041848	2.272842407	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPTBN5
OPTN	Optineurin	Protein coding	44	GC10P013099	2.269617558	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OPTN
CST9L	Cystatin 9 Like	Protein coding	36	GC20M023545	2.268769026	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CST9L
CST8	Cystatin 8	Protein coding	36	GC20P023491	2.268769026	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CST8
IL5	Interleukin 5	Protein coding	44	GC05M132541	2.267925024	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL5
PRRT2	Proline Rich Transmembrane Protein 2	Protein coding	38	GC16P029811	2.267467976	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRRT2
MIR33A	MicroRNA 33a	RNA gene	19	GC22P041900	2.267467976	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR33A
AMBP	α-1-Microglobulin/Bikunin Precursor	Protein coding	41	GC09M114060	2.266134739	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AMBP
MIR125B2	MicroRNA 125b-2	RNA gene	22	GC21P016590	2.260219574	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR125B2
CYP19A1	Cytochrome P450 Family 19 Subfamily A Member 1	Protein coding	49	GC15M051208	2.258968353	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP19A1
LPXN	Leupaxin	Protein coding	40	GC11M071338	2.256958723	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LPXN
VDAC1	Voltage Dependent Anion Channel 1	Protein coding	45	GC05M133975	2.256471634	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VDAC1
TAGLN	Transgelin	Protein coding	43	GC11P117199	2.254525661	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TAGLN
CXCL1	C-X-C Motif Chemokine Ligand 1	Protein coding	43	GC04P073869	2.249398232	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXCL1
CDC5L	Cell Division Cycle 5 Like	Protein coding	40	GC06P044387	2.243990421	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDC5L
TNIP1	TNFAIP3 Interacting Protein 1	Protein coding	41	GC05M151029	2.243969202	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNIP1
ADK	Adenosine Kinase	Protein coding	50	GC10P074152	2.24307251	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADK
CNNM2	Cyclin And CBS Domain Divalent Metal Cation Transport Mediator 2	Protein coding	42	GC10P102918	2.241807461	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CNNM2

ETS1	ETS Proto-Oncogene 1, Transcription Factor	Protein coding	48	GC11M128458	2.240116358	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ETS1
MMAB	Metabolism Of Cobalamin Associated B	Protein coding	45	GC12M109553	2.239818811	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMAB
PPP3CA	Protein Phosphatase 3 Catalytic Subunit α	Protein coding	52	GC04M101024	2.239688158	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPP3CA
ACP1	Acid Phosphatase 1	Protein coding	43	GC02P000254	2.239408255	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACP1
ADCY10	Adenylate Cyclase 10	Protein coding	45	GC01M167809	2.238815784	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADCY10
CACNB2	Calcium Voltage-Gated Channel Auxiliary Subunit β 2	Protein coding	47	GC10P018165	2.237946033	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CACNB2
ENPEP	Glutamyl Aminopeptidase	Protein coding	44	GC04P110365	2.237845182	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENPEP
IL1RL1	Interleukin 1 Receptor Like 1	Protein coding	40	GC02P102294	2.235427856	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL1RL1
CD8A	CD8a Molecule	Protein coding	46	GC02M086784	2.234191895	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD8A
PNPO	Pyridoxamine 5'-Phosphate Oxidase	Protein coding	45	GC17P047941	2.234079838	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PNPO
ROCK2	Rho Associated Coiled-Coil Containing Protein Kinase 2	Protein coding	47	GC02M011240	2.232777119	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ROCK2
APAF1	Apoptotic Peptidase Activating Factor 1	Protein coding	47	GC12P098645	2.232755899	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APAF1
TUBB3	Tubulin β 3 Class III	Protein coding	48	GC16P089922	2.232222557	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TUBB3
TIMD4	T Cell Immunoglobulin And Mucin Domain Containing 4	Protein coding	36	GC05M156919	2.228131294	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TIMD4
IBSP	Integrin Binding Sialoprotein	Protein coding	37	GC04P087799	2.227115154	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IBSP
HCRT	Hypocretin Neuropeptide Precursor	Protein coding	41	GC17M042185	2.217495441	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HCRT
SPTAN1	Spectrin α, Non-Erythrocytic 1	Protein coding	48	GC09P128552	2.217483997	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPTAN1
LDB3	LIM Domain Binding 3	Protein coding	41	GC10P086666	2.21192503	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LDB3
CREBBP	CREB Binding Protein	Protein coding	52	GC16M004002	2.206712723	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CREBBP
LINC01394	Long Intergenic Non-Protein Coding RNA 1394	RNA gene	9	GC06M001208	2.204988718	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LINC01394
TTF2	Transcription Termination Factor 2	Protein coding	40	GC01P117060	2.204286575	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TTF2
OSM	Oncostatin M	Protein coding	41	GC22M030262	2.204276085	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OSM
PAWR	Pro-Apoptotic WT1 Regulator	Protein coding	41	GC12M079574	2.20374918	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PAWR
MIR206	MicroRNA 206	RNA gene	21	GC06P052144	2.201489687	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR206
GZMB	Granzyme B	Protein coding	45	GC14M024630	2.200712681	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GZMB
GFER	Growth Factor, Augmenter Of Liver Regeneration	Protein coding	44	GC16P001984	2.197028399	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GFER
MIR29C	MicroRNA 29c	RNA gene	19	GC01M207802	2.191455364	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR29C
PEAR1	Platelet Endothelial Aggregation Receptor 1	Protein coding	36	GC01P156893	2.189505816	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PEAR1
TERC	Telomerase RNA Component	RNA gene	29	GC03M169765	2.187264442	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TERC
C3AR1	Complement C3a Receptor 1	Protein coding	44	GC12M008058	2.185493946	https://www.genecards.org/cgi-bin/carddisp.pl?gene=C3AR1
AMPD3	Adenosine Monophosphate Deaminase 3	Protein coding	45	GC11P010309	2.185393333	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AMPD3
FADS2	Fatty Acid Desaturase 2	Protein coding	44	GC11P061792	2.179516077	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FADS2
FXN	Frataxin	Protein coding	46	GC09P069035	2.178533077	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FXN
MIR130A	MicroRNA 130a	RNA gene	20	GC11P057641	2.177936554	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR130A
ACYP2	Acylphosphatase 2	Protein coding	40	GC02P053970	2.177241325	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACYP2
NRIP2	Nuclear Receptor Interacting Protein 2	Protein coding	36	GC12M002824	2.176455021	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NRIP2
UFSP2	UFM1 Specific Peptidase 2	Protein coding	39	GC04M185399	2.173690557	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UFSP2
TNFAIP3	TNF α Induced Protein 3	Protein coding	48	GC06P137866	2.172752142	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFAIP3
FST	Follistatin	Protein coding	46	GC05P053480	2.172357321	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FST
TNFRSF11A	TNF Receptor Superfamily Member 11a	Protein coding	45	GC18P062325	2.170055866	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFRSF11A
FCN1	Ficolin 1	Protein coding	40	GC09M135040	2.168426752	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FCN1
NKX2-1	NK2 Homeobox 1	Protein coding	46	GC14M036516	2.168112993	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NKX2-1
ITGAV	Integrin Subunit α V	Protein coding	47	GC02P186589	2.167337179	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGAV
BIRC5	Baculoviral IAP Repeat Containing 5	Protein coding	46	GC17P078214	2.164391041	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BIRC5
NEAT1	Nuclear Paraspeckle Assembly Transcript 1	RNA gene	23	GC11P066811	2.161044359	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NEAT1
ITGAE	Integrin Subunit α E	Protein coding	40	GC17M003722	2.157740593	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGAE
HSPB2	Heat Shock Protein Family B (Small) Member 2	Protein coding	40	GC11P111913	2.157273054	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSPB2
WNK3	WNK Lysine Deficient Protein Kinase 3	Protein coding	40	GC0XM054207	2.155707359	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WNK3
XKR6	XK Related 6	Protein coding	32	GC08M010896	2.153495073	https://www.genecards.org/cgi-bin/carddisp.pl?gene=XKR6
P2RX7	Purinergic Receptor P2X 7	Protein coding	45	GC12P123863	2.152783394	https://www.genecards.org/cgi-bin/carddisp.pl?gene=P2RX7
PRKCE	Protein Kinase C ε	Protein coding	49	GC02P045651	2.15172863	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKCE
UGCG	UDP-Glucose Ceramide Glucosyltransferase	Protein coding	43	GC09P111896	2.14874959	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGCG
SMARCA2	SWI/SNF Related, Matrix Associated, Actin Dependent Regulator Of Chromatin, Subfamily A, Member 2	Protein coding	50	GC09P001980	2.148426771	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMARCA2
ABCD2	ATP Binding Cassette Subfamily D Member 2	Protein coding	41	GC12M039530	2.148335218	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCD2
CDK4	Cyclin Dependent Kinase 4	Protein coding	53	GC12M057743	2.148146868	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDK4
PEMT	Phosphatidylethanolamine N-Methyltransferase	Protein coding	41	GC17M017506	2.147951603	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PEMT
CTSK	Cathepsin K	Protein coding	49	GC01M150876	2.147244692	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTSK
POMT2	Protein O-Mannosyltransferase 2	Protein coding	43	GC14M077274	2.145932913	https://www.genecards.org/cgi-bin/carddisp.pl?gene=POMT2
COL5A2	Collagen Type V α 2 Chain	Protein coding	42	GC02M189031	2.139962912	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COL5A2
ADRA1A	Adrenoceptor α 1A	Protein coding	47	GC08M026747	2.138268709	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADRA1A
CR2	Complement C3d Receptor 2	Protein coding	45	GC01P207454	2.137906551	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CR2
MIR130B	MicroRNA 130b	RNA gene	18	GC22P027760	2.137248516	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR130B
NFATC1	Nuclear Factor Of Activated T Cells 1	Protein coding	48	GC18P079395	2.132640123	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NFATC1
MTHFD1	Methylenetetrahydrofolate Dehydrogenase, Cyclohydrolase And Formyltetrahydrofolate Synthetase 1	Protein coding	45	GC14P064388	2.132539749	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MTHFD1
SLC6A2	Solute Carrier Family 6 Member 2	Protein coding	48	GC16P055656	2.131088495	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC6A2
PAFAH1B1	Platelet Activating Factor Acetylhydrolase 1b Regulatory Subunit 1	Protein coding	45	GC17P002593	2.129851103	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PAFAH1B1
LOC102724058	Uncharacterized LOC102724058	RNA gene	6	GC02P165958	2.127529621	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC102724058
TJP1	Tight Junction Protein 1	Protein coding	44	GC15M029699	2.12569499	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TJP1
RASD1	Ras Related Dexamethasone Induced 1	Protein coding	40	GC17M017494	2.120362282	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RASD1
PLPP3	Phospholipid Phosphatase 3	Protein coding	35	GC01M056495	2.120362282	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLPP3
NPPC	Natriuretic Peptide C	Protein coding	40	GC02M231921	2.120230198	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPPC
PRKCA	Protein Kinase C α	Protein coding	51	GC17P066302	2.118850708	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKCA
TOX	Thymocyte Selection Associated High Mobility Group Box	Protein coding	40	GC08M058791	2.118283749	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TOX
NT5C2	5'-Nucleotidase, Cytosolic II	Protein coding	46	GC10M103088	2.113830566	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NT5C2

FAM205A	Family With Sequence Similarity 205 Member A	Protein coding	26	GC09M034723	2.113005877	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FAM205A
FHIP1A	FHF Complex Subunit HOOK Interacting Protein 1A	Protein coding	21	GC04P151411	2.113005877	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FHIP1A
ADNP	Activity Dependent Neuroprotector Homeobox	Protein coding	42	GC20M050888	2.111311674	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADNP
ADAMTS18	ADAM Metallopeptidase With Thrombospondin Type 1 Motif 18	Protein coding	44	GC16M077316	2.109141111	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADAMTS18
FCGR2B	Fc Fragment Of IgG Receptor IIb	Protein coding	47	GC01P161663	2.105943918	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FCGR2B
GDAP1	Ganglioside Induced Differentiation Associated Protein 1	Protein coding	43	GC08P074315	2.105943918	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GDAP1
FCAR	Fc Fragment Of IgA Receptor	Protein coding	41	GC19P057016	2.10304904	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FCAR
VEGFB	Vascular Endothelial Growth Factor B	Protein coding	44	GC11P064234	2.101142883	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VEGFB
RPS6KA3	Ribosomal Protein S6 Kinase A3	Protein coding	52	GC0XM020149	2.099988222	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPS6KA3
SLC39A7	Solute Carrier Family 39 Member 7	Protein coding	41	GC06P033200	2.096572161	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC39A7
AQP10	Aquaporin 10	Protein coding	37	GC01P154321	2.096572161	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AQP10
TAS2R50	Taste 2 Receptor Member 50	Protein coding	33	GC12M010985	2.096572161	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TAS2R50
NFKBIA	NFKB Inhibitor α	Protein coding	50	GC14M035401	2.094538212	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NFKBIA
CKB	Creatine Kinase B	Protein coding	45	GC14M103519	2.09376359	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CKB
CKM	Creatine Kinase, M-Type	Protein coding	44	GC19M045306	2.091287613	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CKM
EPHA4	EPH Receptor A4	Protein coding	50	GC02M221418	2.087696314	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPHA4
IL20	Interleukin 20	Protein coding	38	GC01P206866	2.085718155	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL20
KRT5	Keratin 5	Protein coding	47	GC12M052514	2.085172653	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRT5
DCC	DCC Netrin 1 Receptor	Protein coding	46	GC18P052340	2.085172653	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DCC
ALOX12B	Arachidonate 12-Lipoxygenase, 12R Type	Protein coding	43	GC17M009337	2.085172653	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALOX12B
MLF1	Myeloid Leukemia Factor 1	Protein coding	43	GC03P158571	2.085172653	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MLF1
SERPINB8	Serpin Family B Member 8	Protein coding	43	GC18P063969	2.085172653	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPINB8
P2RX6	Purinergic Receptor P2X 6	Protein coding	42	GC22P021222	2.085172653	https://www.genecards.org/cgi-bin/carddisp.pl?gene=P2RX6
SLC26A8	Solute Carrier Family 26 Member 8	Protein coding	41	GC06M049262	2.085172653	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC26A8
TAF3	TATA-Box Binding Protein Associated Factor 3	Protein coding	39	GC10P007860	2.085172653	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TAF3
VTI1A	Vesicle Transport Through Interaction With T-SNAREs 1A	Protein coding	39	GC10P112446	2.085172653	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VTI1A
MCM10	Minichromosome Maintenance 10 Replication Initiation Factor	Protein coding	38	GC10P013161	2.085172653	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MCM10
KRT74	Keratin 74	Protein coding	37	GC12M052565	2.085172653	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRT74
PGLYRP2	Peptidoglycan Recognition Protein 2	Protein coding	37	GC19M015468	2.085172653	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PGLYRP2
DMXL2	Dmx Like 2	Protein coding	36	GC15M051447	2.085172653	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DMXL2
FCRLB	Fc Receptor Like B	Protein coding	35	GC01P161721	2.085172653	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FCRLB
FSTL4	Follistatin Like 4	Protein coding	34	GC05M133196	2.085172653	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FSTL4
SGIP1	SH3GL Interacting Endocytic Adaptor 1	Protein coding	34	GC01P066533	2.085172653	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SGIP1
HEATR5B	HEAT Repeat Containing 5B	Protein coding	33	GC02M036949	2.085172653	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HEATR5B
TMPRSS11B	Transmembrane Serine Protease 11B	Protein coding	33	GC04M068226	2.085172653	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TMPRSS11B
WDR31	WD Repeat Domain 31	Protein coding	33	GC09M113313	2.085172653	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WDR31
MYOM3	Myomesin 3	Protein coding	32	GC01M024056	2.085172653	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYOM3
ZNF132	Zinc Finger Protein 132	Protein coding	32	GC19M058432	2.085172653	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZNF132
OR13G1	Olfactory Receptor Family 13 Subfamily G Member 1	Protein coding	31	GC01M247672	2.085172653	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OR13G1
OR2A25	Olfactory Receptor Family 2 Subfamily A Member 25	Protein coding	31	GC07P146125	2.085172653	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OR2A25
WDR55	WD Repeat Domain 55	Protein coding	31	GC05P144337	2.085172653	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WDR55
LGALS14	Galectin 14	Protein coding	30	GC19P039704	2.085172653	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LGALS14
LY6G5B	Lymphocyte Antigen 6 Family Member G5B	Protein coding	29	GC06P058316	2.085172653	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LY6G5B
RPLP0P4	Ribosomal Protein Lateral Stalk Subunit P0 Pseudogene 4	Pseudogene	7	GC01P153198	2.085172653	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPLP0P4
ITGA3	Integrin Subunit α 3	Protein coding	47	GC17P050055	2.085023403	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGA3
NPTX1	Neuronal Pentraxin 1	Protein coding	38	GC17M080466	2.084607363	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPTX1
DEFB4A	Defensin β 4A	Protein coding	36	GC08P007895	2.084520102	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DEFB4A
SOX9	SRY-Box Transcription Factor 9	Protein coding	47	GC17P072121	2.082202911	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SOX9
LBR	Lamin B Receptor	Protein coding	48	GC01M225401	2.079694033	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LBR
TCN2	Transcobalamin 2	Protein coding	44	GC22P030606	2.077836514	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TCN2
IVD	Isovaleryl-CoA Dehydrogenase	Protein coding	45	GC15P040405	2.077306747	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IVD
ZFP30	ZFP30 Zinc Finger Protein	Protein coding	35	GC19M037613	2.077306747	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZFP30
GAS5-AS1	GAS5 Antisense RNA 1	RNA gene	13	GC01P173863	2.074144602	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GAS5-AS1
ICOSLG	Inducible T Cell Costimulator Ligand	Protein coding	38	GC21M044222	2.073806524	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ICOSLG
PANK2	Pantothenate Kinase 2	Protein coding	44	GC20P003887	2.073583126	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PANK2
PRDM16	PR/SET Domain 16	Protein coding	45	GC01P003068	2.073039532	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRDM16
OGG1	8-Oxoguanine DNA Glycosylase	Protein coding	45	GC03P009816	2.071639061	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OGG1
SLC2A6	Solute Carrier Family 2 Member 6	Protein coding	41	GC09M133471	2.067724228	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC2A6
CXCL10	C-X-C Motif Chemokine Ligand 10	Protein coding	44	GC04M076021	2.06397891	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXCL10
NF2	Neurofibromin 2	Protein coding	48	GC22P029603	2.061370373	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NF2
UCP1	Uncoupling Protein 1	Protein coding	44	GC04M140559	2.05989027	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UCP1
HSPB8	Heat Shock Protein Family B (Small) Member 8	Protein coding	44	GC12P119173	2.059034586	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSPB8
GJB1	Gap Junction Protein β 1	Protein coding	47	GC0XP071212	2.054889917	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GJB1
SCARB1	Scavenger Receptor Class B Member 1	Protein coding	45	GC12M124776	2.053256035	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCARB1
RAMP2	Receptor Activity Modifying Protein 2	Protein coding	41	GC17P042758	2.052038908	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAMP2
MEF2C	Myocyte Enhancer Factor 2C	Protein coding	49	GC05M088718	2.051256657	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MEF2C
GCLM	Glutamate-Cysteine Ligase Modifier Subunit	Protein coding	41	GC01M093885	2.050646544	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GCLM
RASIP1	Ras Interacting Protein 1	Protein coding	37	GC19M048720	2.050500631	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RASIP1
STAT1	Signal Transducer And Activator Of Transcription 1	Protein coding	52	GC02M190908	2.047232628	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STAT1
CTSD	Cathepsin D	Protein coding	51	GC11M001752	2.046490431	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTSD
TNC	Tenascin C	Protein coding	49	GC09M115019	2.046169758	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNC
GALC	Galactosylceramidase	Protein coding	44	GC14M087837	2.046153307	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GALC
RPS6KA2	Ribosomal Protein S6 Kinase A2	Protein coding	47	GC06M166409	2.043493271	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPS6KA2
PPIG	Peptidylprolyl Isomerase G	Protein coding	41	GC02P169584	2.042293549	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPIG
P2RX4	Purinergic Receptor P2X 4	Protein coding	43	GC12P123865	2.040742159	https://www.genecards.org/cgi-bin/carddisp.pl?gene=P2RX4
TSHR	Thyroid Stimulating Hormone Receptor	Protein coding	47	GC14P080954	2.040725946	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TSHR

M6PR	Mannose-6-Phosphate Receptor, Cation Dependent	Protein coding	43	GC12M008976	2.039159298	https://www.genecards.org/cgi-bin/carddisp.pl?gene=M6PR
APOC1	Apolipoprotein C1	Protein coding	40	GC19P044914	2.038874865	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APOC1
HPX	Hemopexin	Protein coding	39	GC11M006435	2.038487434	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HPX
SLPI	Secretory Leukocyte Peptidase Inhibitor	Protein coding	39	GC20M045252	2.037778616	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLPI
TFRC	Transferrin Receptor	Protein coding	48	GC03M196027	2.03729558	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TFRC
COX5A	Cytochrome C Oxidase Subunit 5A	Protein coding	44	GC15M074919	2.035711527	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COX5A
ITPR1	Inositol 1,4,5-Trisphosphate Receptor Type 1	Protein coding	48	GC03P004486	2.032258511	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITPR1
MIR124-3	MicroRNA 124-3	RNA gene	18	GC20P063180	2.032237053	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR124-3
IDH2	Isocitrate Dehydrogenase (NADP(+)) 2	Protein coding	52	GC15M090083	2.030665159	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IDH2
GAP43	Growth Associated Protein 43	Protein coding	43	GC03P115623	2.026215792	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GAP43
PRKAA1	Protein Kinase AMP-Activated Catalytic Subunit α 1	Protein coding	47	GC05M040759	2.026132107	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKAA1
GATA1	GATA Binding Protein 1	Protein coding	47	GC0XP048786	2.023926973	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GATA1
SLC12A1	Solute Carrier Family 12 Member 1	Protein coding	47	GC15P048191	2.023681164	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC12A1
ARG2	Arginase 2	Protein coding	45	GC14P067619	2.023047924	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARG2
CXCR3	C-X-C Motif Chemokine Receptor 3	Protein coding	44	GC0XM071615	2.016802073	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXCR3
PENK	Proenkephalin	Protein coding	38	GC08M056436	2.013073444	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PENK
PNOC	Prepronociceptin	Protein coding	37	GC08P028316	2.011604786	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PNOC
PHF6	PHD Finger Protein 6	Protein coding	40	GC0XP134373	2.003304482	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PHF6
PTPRF	Protein Tyrosine Phosphatase Receptor Type F	Protein coding	50	GC01P043527	1.998403549	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRF
CGAS	Cyclic GMP-AMP Synthase	Protein coding	30	GC06M073414	1.996276021	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CGAS
SOAT1	Sterol O-Acyltransferase 1	Protein coding	45	GC01P179262	1.994888544	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SOAT1
MYOCD	Myocardin	Protein coding	41	GC17P012665	1.993364692	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYOCD
LAMA3	Laminin Subunit α 3	Protein coding	44	GC18P023689	1.991608143	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LAMA3
GRIK1	Glutamate Ionotropic Receptor Kainate Type Subunit 1	Protein coding	45	GC21M029536	1.990653038	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIK1
P4HB	Prolyl 4-Hydroxylase Subunit β	Protein coding	48	GC17M081843	1.984768152	https://www.genecards.org/cgi-bin/carddisp.pl?gene=P4HB
CDKN3	Cyclin Dependent Kinase Inhibitor 3	Protein coding	42	GC14P054398	1.984120607	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDKN3
ADIPOR2	Adiponectin Receptor 2	Protein coding	43	GC12P001670	1.984009147	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADIPOR2
NPHS2	NPHS2 Stomatin Family Member, Podocin	Protein coding	41	GC01M179519	1.983668447	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPHS2
IL36RN	Interleukin 36 Receptor Antagonist	Protein coding	41	GC02P117301	1.982546568	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL36RN
KRT14	Keratin 14	Protein coding	47	GC17M041582	1.980618477	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRT14
MYL3	Myosin Light Chain 3	Protein coding	45	GC03M046836	1.97770226	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYL3
MED13L	Mediator Complex Subunit 13L	Protein coding	39	GC12M115953	1.977229357	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MED13L
MIR602	MicroRNA 602	RNA gene	14	GC09P137838	1.977099299	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR602
SAA4	Serum Amyloid A4, Constitutive	Protein coding	39	GC11M018234	1.974173546	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SAA4
PMS2	PMS1 Homolog 2, Mismatch Repair System Component	Protein coding	48	GC07M005973	1.971558213	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PMS2
HYOU1	Hypoxia Up-Regulated 1	Protein coding	44	GC11M119047	1.969953775	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HYOU1
ARL6IP6	ADP Ribosylation Factor Like GTPase 6 Interacting Protein 6	Protein coding	34	GC02P152717	1.96850574	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARL6IP6
AQP9	Aquaporin 9	Protein coding	44	GC15P058138	1.968424439	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AQP9
KIF5A	Kinesin Family Member 5A	Protein coding	45	GC12P057549	1.964168787	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KIF5A
DAXX	Death Domain Associated Protein	Protein coding	44	GC06M033318	1.963004112	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DAXX
GOSR2	Golgi SNAP Receptor Complex Member 2	Protein coding	43	GC17P046924	1.956336379	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GOSR2
GUCY1B1	Guanylate Cyclase 1 Soluble Subunit β 1	Protein coding	34	GC04P155759	1.956069112	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GUCY1B1
CFTR	CF Transmembrane Conductance Regulator	Protein coding	51	GC07P117287	1.955135465	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CFTR
ABL1	ABL Proto-Oncogene 1, Non-Receptor Tyrosine Kinase	Protein coding	52	GC09P130713	1.954412937	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABL1
IFNA2	Interferon α 2	Protein coding	41	GC09M021384	1.950749874	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IFNA2
VSTM4	V-Set And Transmembrane Domain Containing 4	Protein coding	31	GC10M049014	1.948404908	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VSTM4
RASA1	RAS P21 Protein Activator 1	Protein coding	47	GC05P087267	1.939755321	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RASA1
PDP1	Pyruvate Dehydrogenase Phosphatase Catalytic Subunit 1	Protein coding	46	GC08P093857	1.938275337	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDP1
ARID1B	AT-Rich Interaction Domain 1B	Protein coding	44	GC06P156777	1.938056231	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARID1B
HLA-DQA1	Major Histocompatibility Complex, Class II, DQ α 1	Protein coding	43	GC06P058340	1.937764049	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HLA-DQA1
HADHA	Hydroxyacyl-CoA Dehydrogenase Trifunctional Multienzyme Complex Subunit α	Protein coding	46	GC02M026190	1.935912848	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HADHA
CYP11A1	Cytochrome P450 Family 11 Subfamily A Member 1	Protein coding	50	GC15M074337	1.934395194	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP11A1
HK1	Hexokinase 1	Protein coding	50	GC10P069269	1.933717728	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HK1
LTF	Lactotransferrin	Protein coding	44	GC03M046435	1.930118084	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LTF
PRDX1	Peroxiredoxin 1	Protein coding	48	GC01M045511	1.927305222	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRDX1
VTN	Vitronectin	Protein coding	43	GC17M031461	1.926832914	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VTN
FABP1	Fatty Acid Binding Protein 1	Protein coding	43	GC02M088122	1.925750256	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FABP1
DCTN1	Dynactin Subunit 1	Protein coding	47	GC02M074361	1.924680948	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DCTN1
BCL2L11	BCL2 Like 11	Protein coding	44	GC02P111119	1.923215985	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BCL2L11
DNASE1	Deoxyribonuclease 1	Protein coding	42	GC16P003611	1.918616891	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DNASE1
PLAU	Plasminogen Activator, Urokinase	Protein coding	51	GC10P073909	1.918292284	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLAU
SNAP25	Synaptosome Associated Protein 25	Protein coding	50	GC20P010218	1.916278124	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNAP25
SLC4A4	Solute Carrier Family 4 Member 4	Protein coding	46	GC04P071063	1.915493727	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC4A4
SLC17A3	Solute Carrier Family 17 Member 3	Protein coding	40	GC06M025833	1.911699891	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC17A3
APOM	Apolipoprotein M	Protein coding	39	GC06P058317	1.910730362	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APOM
TTLL5	Tubulin Tyrosine Ligase Like 5	Protein coding	39	GC14P075633	1.909897566	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TTLL5
ERRFI1	ERBB Receptor Feedback Inhibitor 1	Protein coding	37	GC01M008004	1.909897566	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ERRFI1
SHISA6	Shisa Family Member 6	Protein coding	34	GC17P011241	1.909897566	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SHISA6
TMEM163	Transmembrane Protein 163	Protein coding	33	GC02M134455	1.909897566	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TMEM163
ZDHHC22	Zinc Finger DHHC-Type Palmitoyltransferase 22	Protein coding	29	GC14M077127	1.909897566	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC22
OBI1	ORC Ubiquitin Ligase 1	Protein coding	27	GC13M078615	1.909897566	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OBI1
LINC02113	Long Intergenic Non-Protein Coding RNA 2113	RNA gene	8	GC05P099533	1.909897566	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LINC02113
MRAS	Muscle RAS Oncogene Homolog	Protein coding	46	GC03P138347	1.90858674	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MRAS
HDAC4	Histone Deacetylase 4	Protein coding	51	GC02M239048	1.905430555	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HDAC4
FOXO1	Forkhead Box O1	Protein coding	48	GC13M040555	1.903076649	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FOXO1
DIAPH1	Diaphanous Related Formin 1	Protein coding	48	GC05M141516	1.900167704	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DIAPH1

DDAH2	Dimethylarginine Dimethylaminohydrolase 2	Protein coding	43	GC06M031727	1.900105	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DDAH2
NFIA	Nuclear Factor I A	Protein coding	45	GC01P060865	1.899688244	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NFIA
PINK1	PTEN Induced Kinase 1	Protein coding	47	GC01P020634	1.898255587	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PINK1
U2AF1	U2 Small Nuclear RNA Auxiliary Factor 1	Protein coding	43	GC21M043092	1.897751212	https://www.genecards.org/cgi-bin/carddisp.pl?gene=U2AF1
OPRD1	Opioid Receptor δ 1	Protein coding	44	GC01P028812	1.896843076	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OPRD1
SIGMAR1	ς Non-Opioid Intracellular Receptor 1	Protein coding	47	GC09M034634	1.896831036	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SIGMAR1
CHEK2	Checkpoint Kinase 2	Protein coding	53	GC22M028687	1.896424532	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHEK2
SFTPA1	Surfactant Protein A1	Protein coding	42	GC10P086660	1.894661069	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SFTPA1
CD86	CD86 Molecule	Protein coding	43	GC03P122055	1.892393112	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD86
GOLGB1	Golgin B1	Protein coding	36	GC03M121663	1.892030478	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GOLGB1
HAVCR2	Hepatitis A Virus Cellular Receptor 2	Protein coding	43	GC05M157063	1.891290903	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HAVCR2
FOSB	FosB Proto-Oncogene, AP-1 Transcription Factor Subunit	Protein coding	41	GC19P045467	1.889533997	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FOSB
KRT20	Keratin 20	Protein coding	41	GC17M040875	1.889533997	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRT20
DNMT3A	DNA Methyltransferase 3 α	Protein coding	51	GC02M025228	1.889158845	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DNMT3A
MIR27A	MicroRNA 27a	RNA gene	23	GC19M014149	1.888988495	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR27A
IL21	Interleukin 21	Protein coding	42	GC04M122612	1.886278152	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL21
ATP10A	ATPase Phospholipid Transporting 10A (Putative)	Protein coding	40	GC15M025666	1.885004044	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATP10A
APOC2	Apolipoprotein C2	Protein coding	44	GC19P044945	1.880784273	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APOC2
CFHR5	Complement Factor H Related 5	Protein coding	40	GC01P196977	1.880058408	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CFHR5
MIR382	MicroRNA 382	RNA gene	16	GC14P106817	1.87736845	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR382
RELA	RELA Proto-Oncogene, NF-KB Subunit	Protein coding	51	GC11M065653	1.871609569	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RELA
MIR100	MicroRNA 100	RNA gene	21	GC11M122152	1.869897127	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR100
TNFRSF9	TNF Receptor Superfamily Member 9	Protein coding	44	GC01M007915	1.86729598	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFRSF9
MIR185	MicroRNA 185	RNA gene	22	GC22P020297	1.864518881	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR185
MIR15A	MicroRNA 15a	RNA gene	16	GC13M050049	1.863605976	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR15A
SLC1A7	Solute Carrier Family 1 Member 7	Protein coding	43	GC01M053087	1.860815287	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC1A7
CCL7	C-C Motif Chemokine Ligand 7	Protein coding	42	GC17P034270	1.86079824	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCL7
SMN1	Survival Of Motor Neuron 1, Telomeric	Protein coding	42	GC05P070924	1.859929442	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMN1
RB1	RB Transcriptional Corepressor 1	Protein coding	48	GC13P048303	1.857927561	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RB1
MSX2	Msh Homeobox 2	Protein coding	48	GC05P174724	1.857079744	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MSX2
MIR495	MicroRNA 495	RNA gene	16	GC14P106827	1.855481386	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR495
TAF1	TATA-Box Binding Protein Associated Factor 1	Protein coding	45	GC0XP071366	1.853244424	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TAF1
CAV3	Caveolin 3	Protein coding	43	GC03P008733	1.844679236	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAV3
C11orf65	Chromosome 11 Open Reading Frame 65	Protein coding	30	GC11M108308	1.843758583	https://www.genecards.org/cgi-bin/carddisp.pl?gene=C11orf65
CFI	Complement Factor I	Protein coding	46	GC04M109732	1.842537999	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CFI
SLC12A2	Solute Carrier Family 12 Member 2	Protein coding	49	GC05P128083	1.842051029	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC12A2
TGM2	Transglutaminase 2	Protein coding	47	GC20M038127	1.839957714	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TGM2
PARP12	Poly(ADP-Ribose) Polymerase Family Member 12	Protein coding	37	GC07M140023	1.839692831	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PARP12
GPATCH8	G-Patch Domain Containing 8	Protein coding	35	GC17M044395	1.839692831	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPATCH8
TMCO6	Transmembrane And Coiled-Coil Domains 6	Protein coding	32	GC05P144333	1.839692831	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TMCO6
CA2	Carbonic Anhydrase 2	Protein coding	51	GC08P085463	1.839463234	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CA2
RAMP1	Receptor Activity Modifying Protein 1	Protein coding	43	GC02P237858	1.838195562	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAMP1
BLOC1S1	Biogenesis Of Lysosomal Organelles Complex 1 Subunit 1	Protein coding	36	GC12P055775	1.838136673	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BLOC1S1
GAD2	Glutamate Decarboxylase 2	Protein coding	46	GC10P026216	1.838021874	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GAD2
NLGN1	Neuroligin 1	Protein coding	45	GC03P173396	1.837685943	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NLGN1
CRYAA	Crystallin α A	Protein coding	44	GC21P043169	1.834293485	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRYAA
CARTPT	CART Prepropeptide	Protein coding	44	GC05P071719	1.832998037	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CARTPT
LAMP1	Lysosomal Associated Membrane Protein 1	Protein coding	42	GC13P113297	1.831367731	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LAMP1
GNMT	Glycine N-Methyltransferase	Protein coding	45	GC06P042960	1.829119563	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GNMT
BRCA1	BRCA1 DNA Repair Associated	Protein coding	50	GC17M043044	1.826038241	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BRCA1
TRPC6	Transient Receptor Potential Cation Channel Subfamily C Member 6	Protein coding	48	GC11M101451	1.825274587	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRPC6
NTNG1	Netrin G1	Protein coding	41	GC01P107140	1.823109508	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NTNG1
ITPK1	Inositol-Tetrakisphosphate 1-Kinase	Protein coding	41	GC14M092936	1.820833921	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITPK1
SLC20A2	Solute Carrier Family 20 Member 2	Protein coding	46	GC08M042416	1.819397926	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC20A2
SOCS2	Suppressor Of Cytokine Signaling 2	Protein coding	44	GC12P093569	1.819397926	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SOCS2
TRPC3	Transient Receptor Potential Cation Channel Subfamily C Member 3	Protein coding	48	GC04M121879	1.817133665	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRPC3
CYP2B6	Cytochrome P450 Family 2 Subfamily B Member 6	Protein coding	47	GC19P040991	1.816233993	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP2B6
MIR16-1	MicroRNA 16-1	RNA gene	22	GC13M050048	1.81433177	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR16-1
GP5	Glycoprotein V Platelet	Protein coding	40	GC03M194395	1.81335485	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GP5
AFF2	AF4/FMR2 Family Member 2	Protein coding	41	GC0XP148500	1.813255429	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AFF2
HSP90AA1	Heat Shock Protein 90 α Family Class A Member 1	Protein coding	47	GC14M102080	1.811911106	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSP90AA1
GAST	Gastrin	Protein coding	40	GC17P041712	1.809186697	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GAST
TCF4	Transcription Factor 4	Protein coding	46	GC18M055222	1.808351755	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TCF4
NDUFA6	NADH:Ubiquinone Oxidoreductase Subunit A6	Protein coding	45	GC22M042085	1.806030154	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NDUFA6
MIR200B	MicroRNA 200b	RNA gene	21	GC01P001167	1.805338502	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR200B
ITGA5	Integrin Subunit α 5	Protein coding	48	GC12M054469	1.804501653	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGA5
ADORA2B	Adenosine A2b Receptor	Protein coding	47	GC17P015927	1.8009758	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADORA2B
IL23R	Interleukin 23 Receptor	Protein coding	44	GC01P067138	1.800207496	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL23R
NEDD4	NEDD4 E3 Ubiquitin Protein Ligase	Protein coding	47	GC15M055826	1.798918962	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NEDD4
TNR	Tenascin R	Protein coding	42	GC01M175291	1.792670727	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNR
DFFB	DNA Fragmentation Factor Subunit β	Protein coding	43	GC01P003797	1.790557742	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DFFB
BACE2	β-Secretase 2	Protein coding	39	GC21P041168	1.786271095	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BACE2
GLUL	Glutamate-Ammonia Ligase	Protein coding	48	GC01M182378	1.784514904	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLUL
RBFOX1	RNA Binding Fox-1 Homolog 1	Protein coding	38	GC16P006296	1.784430861	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RBFOX1
PRKCB	Protein Kinase C β	Protein coding	48	GC16P023993	1.783356667	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKCB
RMST	Rhabdomyosarcoma 2 Associated Transcript	RNA gene	21	GC12P097431	1.78272295	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RMST

HPR	Haptoglobin-Related Protein	Protein coding	40	GC16P072097	1.780373335	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HPR
UCN	Urocortin	Protein coding	38	GC02M027308	1.780233145	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UCN
CAMK2A	Calcium/Calmodulin Dependent Protein Kinase II α	Protein coding	50	GC05M150219	1.77940166	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAMK2A
MIR326	MicroRNA 326	RNA gene	21	GC11M075335	1.77940166	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR326
TPO	Thyroid Peroxidase	Protein coding	48	GC02P001374	1.77765429	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TPO
HTR2B	5-Hydroxytryptamine Receptor 2B	Protein coding	43	GC02M231108	1.777495623	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HTR2B
CA4	Carbonic Anhydrase 4	Protein coding	46	GC17P060149	1.77739954	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CA4
NLRP1	NLR Family Pyrin Domain Containing 1	Protein coding	44	GC17M005499	1.77739954	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NLRP1
PGM1	Phosphoglucomutase 1	Protein coding	48	GC01P063593	1.776956916	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PGM1
PCNA	Proliferating Cell Nuclear Antigen	Protein coding	51	GC20M005114	1.775626779	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PCNA
HBG2	Hemoglobin Subunit γ 2	Protein coding	41	GC11M005469	1.771106243	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HBG2
PLIN1	Perilipin 1	Protein coding	45	GC15M089664	1.769032001	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLIN1
ULK4	Unc-51 Like Kinase 4	Protein coding	41	GC03M041247	1.766843081	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ULK4
UTS2	Urotensin 2	Protein coding	41	GC01M007843	1.766714811	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UTS2
CYP1A2	Cytochrome P450 Family 1 Subfamily A Member 2	Protein coding	45	GC15P074748	1.764437199	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP1A2
DPAGT1	Dolichyl-Phosphate N-Acetylglucosaminephosphotransferase 1	Protein coding	45	GC11M119096	1.763484716	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DPAGT1
GSK3B	Glycogen Synthase Kinase 3 β	Protein coding	50	GC03M119821	1.763318062	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GSK3B
MIR29B1	MicroRNA 29b-1	RNA gene	21	GC07M130877	1.763009667	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR29B1
CUBN	Cubilin	Protein coding	46	GC10M016824	1.762341022	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CUBN
FUT2	Fucosyltransferase 2	Protein coding	45	GC19P048695	1.762341022	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FUT2
TCN1	Transcobalamin 1	Protein coding	41	GC11M071378	1.762341022	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TCN1
NBPF3	NBPF Member 3	Protein coding	34	GC01P021578	1.762341022	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NBPF3
HMGCL	3-Hydroxy-3-Methylglutaryl-CoA Lyase	Protein coding	46	GC01M023801	1.761392236	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HMGCL
CARF	Calcium Responsive Transcription Factor	Protein coding	33	GC02P202912	1.760220766	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CARF
SEMA3F	Semaphorin 3F	Protein coding	41	GC03P050167	1.751241088	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SEMA3F
BMP4	Bone Morphogenetic Protein 4	Protein coding	48	GC14M053949	1.750394583	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BMP4
GP9	Glycoprotein IX Platelet	Protein coding	46	GC03P131763	1.749897242	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GP9
ENPP3	Ectonucleotide Pyrophosphatase/Phosphodiesterase 3	Protein coding	43	GC06P131617	1.749147058	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENPP3
PTCH1	Patched 1	Protein coding	50	GC09M095442	1.748305321	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTCH1
PRKAR1A	Protein Kinase CAMP-Dependent Type I Regulatory Subunit α	Protein coding	51	GC17P068612	1.747653365	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKAR1A
LTB4R2	Leukotriene B4 Receptor 2	Protein coding	43	GC14P026884	1.747585297	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LTB4R2
TRADD	TNFRSF1A Associated Via Death Domain	Protein coding	43	GC16M067154	1.747421265	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRADD
CASP7	Caspase 7	Protein coding	50	GC10P113679	1.743015051	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CASP7
WARS1	Tryptophanyl-TRNA Synthetase 1	Protein coding	37	GC14M100334	1.741673231	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WARS1
ATP2B1	ATPase Plasma Membrane Ca2+ Transporting 1	Protein coding	45	GC12M089588	1.740813375	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATP2B1
CYSLTR2	Cysteinyl Leukotriene Receptor 2	Protein coding	47	GC13P048653	1.740555406	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYSLTR2
KRT18	Keratin 18	Protein coding	48	GC12P052948	1.738007426	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRT18
LOC110973015	NOS3 5' Regulatory Region	Biological region	2	GC07P150988	1.738007426	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC110973015
ASXL1	ASXL Transcriptional Regulator 1	Protein coding	43	GC20P032390	1.730462909	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ASXL1
NFE2	Nuclear Factor, Erythroid 2	Protein coding	41	GC12M054292	1.730462909	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NFE2
CRLF3	Cytokine Receptor Like Factor 3	Protein coding	37	GC17M030769	1.727529526	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRLF3
DIO3	Iodothyronine Deiodinase 3	Protein coding	41	GC14P106592	1.727017283	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DIO3
TNFSF14	TNF Superfamily Member 14	Protein coding	41	GC19M006663	1.725046635	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFSF14
PRRC2A	Proline Rich Coiled-Coil 2A	Protein coding	32	GC06P058310	1.724992275	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRRC2A
STUB1	STIP1 Homology And U-Box Containing Protein 1	Protein coding	45	GC16P006127	1.723853707	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STUB1
CANT1	Calcium Activated Nucleotidase 1	Protein coding	44	GC17M078992	1.718307853	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CANT1
LTBP2	Latent Transforming Growth Factor β Binding Protein 2	Protein coding	44	GC14M074498	1.716773629	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LTBP2
WNK4	WNK Lysine Deficient Protein Kinase 4	Protein coding	44	GC17P044928	1.715196848	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WNK4
RNASE3	Ribonuclease A Family Member 3	Protein coding	41	GC14P020891	1.710405469	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNASE3
NNMT	Nicotinamide N-Methyltransferase	Protein coding	45	GC11P114257	1.708176255	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NNMT
CDC42	Cell Division Cycle 42	Protein coding	51	GC01P022134	1.706145525	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDC42
IL21R	Interleukin 21 Receptor	Protein coding	41	GC16P027413	1.703454852	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL21R
HJV	Hemojuvelin BMP Co-Receptor	Protein coding	36	GC01M146018	1.70320034	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HJV
OPRK1	Opioid Receptor κ 1	Protein coding	45	GC08M053227	1.701605558	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OPRK1
MIR27B	MicroRNA 27b	RNA gene	21	GC09P095097	1.699447632	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR27B
MARS1	Methionyl-TRNA Synthetase 1	Protein coding	36	GC12P057476	1.69891727	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MARS1
ADIPOR1	Adiponectin Receptor 1	Protein coding	45	GC01M202940	1.697815299	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADIPOR1
FES	FES Proto-Oncogene, Tyrosine Kinase	Protein coding	48	GC15P090883	1.697409511	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FES
PDE4DIP	Phosphodiesterase 4D Interacting Protein	Protein coding	40	GC01P148808	1.69645834	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDE4DIP
ACOT4	Acyl-CoA Thioesterase 4	Protein coding	36	GC14P073592	1.69645834	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACOT4
TRIM29	Tripartite Motif Containing 29	Protein coding	40	GC11M120111	1.695588708	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRIM29
TPPP3	Tubulin Polymerization Promoting Protein Family Member 3	Protein coding	37	GC16M067389	1.695583344	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TPPP3
CDK5R1	Cyclin Dependent Kinase 5 Regulatory Subunit 1	Protein coding	45	GC17P032486	1.694307089	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDK5R1
PROM1	Prominin 1	Protein coding	44	GC04M015965	1.691454291	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PROM1
PLA2G1B	Phospholipase A2 Group IB	Protein coding	45	GC12M120322	1.690787792	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLA2G1B
BTD	Biotinidase	Protein coding	44	GC03P016090	1.690451622	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BTD
GAD1	Glutamate Decarboxylase 1	Protein coding	51	GC02P170813	1.689604044	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GAD1
CASR	Calcium Sensing Receptor	Protein coding	50	GC03P122183	1.688817024	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CASR
YWHAQ	Tyrosine 3-Monooxygenase/Tryptophan 5-Monooxygenase Activation Protein θ	Protein coding	47	GC02M009583	1.687107563	https://www.genecards.org/cgi-bin/carddisp.pl?gene=YWHAQ
CHD3	Chromodomain Helicase DNA Binding Protein 3	Protein coding	42	GC17P009353	1.685418725	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHD3
NEUROG3	Neurogenin 3	Protein coding	41	GC10M069571	1.685418725	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NEUROG3
DPH1	Diphthamide Biosynthesis 1	Protein coding	40	GC17P002030	1.685418725	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DPH1
CES1	Carboxylesterase 1	Protein coding	46	GC16M055836	1.682517886	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CES1
FGF1	Fibroblast Growth Factor 1	Protein coding	47	GC05M142555	1.67816329	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGF1
KLF5	Kruppel Like Factor 5	Protein coding	45	GC13P073054	1.676096797	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KLF5
SLC22A7	Solute Carrier Family 22 Member 7	Protein coding	42	GC06P058517	1.675104856	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC22A7

EIF1AY	Eukaryotic Translation Initiation Factor 1A Y-Linked	Protein coding	34	GC0YP020576	1.675033092	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EIF1AY
IL18R1	Interleukin 18 Receptor 1	Protein coding	42	GC02P102311	1.67274487	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL18R1
SEMA4A	Semaphorin 4A	Protein coding	45	GC01P156147	1.672510147	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SEMA4A
KLRC4	Killer Cell Lectin Like Receptor C4	Protein coding	38	GC12M016313	1.671394587	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KLRC4
UBAC2	UBA Domain Containing 2	Protein coding	37	GC13P099200	1.671394587	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UBAC2
IL12A-AS1	IL12A Antisense RNA 1	RNA gene	15	GC03M159913	1.671394587	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL12A-AS1
CTH	Cystathionine γ-Lyase	Protein coding	50	GC01P070411	1.670645475	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTH
TRIM9	Tripartite Motif Containing 9	Protein coding	40	GC14M050975	1.670497656	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRIM9
AP4M1	Adaptor Related Protein Complex 4 Subunit μ 1	Protein coding	39	GC07P100101	1.670456052	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AP4M1
ENO1	Enolase 1	Protein coding	47	GC01M008861	1.669564724	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENO1
BDKRB1	Bradykinin Receptor B1	Protein coding	43	GC14P096275	1.668141842	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BDKRB1
AGXT2	Alanine--Glyoxylate Aminotransferase 2	Protein coding	41	GC05M034998	1.667787313	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGXT2
ERN1	Endoplasmic Reticulum To Nucleus Signaling 1	Protein coding	45	GC17M064039	1.667581201	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ERN1
TGFA	Transforming Growth Factor α	Protein coding	45	GC02M070447	1.667345166	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TGFA
NTN4	Netrin 4	Protein coding	39	GC12M095657	1.66633749	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NTN4
RAPGEF3	Rap Guanine Nucleotide Exchange Factor 3	Protein coding	45	GC12M047736	1.666141272	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAPGEF3
SCN10A	Sodium Voltage-Gated Channel α Subunit 10	Protein coding	47	GC03M038713	1.664826155	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCN10A
MIR214	MicroRNA 214	RNA gene	21	GC01M172234	1.664697886	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR214
CLDN5	Claudin 5	Protein coding	42	GC22M019523	1.663992047	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CLDN5
BIN1	Bridging Integrator 1	Protein coding	46	GC02M127048	1.661673188	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BIN1
NRGN	Neurogranin	Protein coding	38	GC11P124739	1.660358667	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NRGN
AHSP	α Hemoglobin Stabilizing Protein	Protein coding	36	GC16P031527	1.659368753	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AHSP
HOMER1	Homer Scaffold Protein 1	Protein coding	41	GC05M079372	1.65831387	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HOMER1
HOMER2	Homer Scaffold Protein 2	Protein coding	41	GC15M083442	1.65831387	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HOMER2
LMNB2	Lamin B2	Protein coding	44	GC19M002556	1.656163931	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LMNB2
SLC4A1	Solute Carrier Family 4 Member 1 (Diego Blood Group)	Protein coding	47	GC17M044467	1.654229045	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC4A1
MIR599	MicroRNA 599	RNA gene	14	GC08M099537	1.653081894	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR599
ACSS1	Acyl-CoA Synthetase Short Chain Family Member 1	Protein coding	40	GC20M024986	1.650308251	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSS1
TLR5	Toll Like Receptor 5	Protein coding	47	GC01M223185	1.649648905	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TLR5
HTR4	5-Hydroxytryptamine Receptor 4	Protein coding	45	GC05M148451	1.647659063	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HTR4
TRAF6	TNF Receptor Associated Factor 6	Protein coding	46	GC11M036467	1.647260666	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRAF6
FGF14	Fibroblast Growth Factor 14	Protein coding	44	GC13M101710	1.647044778	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGF14
MCF2L	MCF.2 Cell Line Derived Transforming Sequence Like	Protein coding	43	GC13P112894	1.645362616	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MCF2L
ORM1	Orosomucoid 1	Protein coding	40	GC09P114323	1.645362616	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ORM1
ENOX1	Ecto-NOX Disulfide-Thiol Exchanger 1	Protein coding	37	GC13M043213	1.645362616	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENOX1
CFHR4	Complement Factor H Related 4	Protein coding	36	GC01P196888	1.645362616	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CFHR4
ZBTB41	Zinc Finger And BTB Domain Containing 41	Protein coding	31	GC01M197153	1.645362616	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZBTB41
LINC02145	Long Intergenic Non-Protein Coding RNA 2145	RNA gene	15	GC05M006311	1.645362616	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LINC02145
DNAJC6	DnaJ Heat Shock Protein Family (Hsp40) Member C6	Protein coding	43	GC01P065248	1.644636989	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DNAJC6
CPLX2	Complexin 2	Protein coding	40	GC05P175797	1.644636989	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CPLX2
WDR37	WD Repeat Domain 37	Protein coding	37	GC10P001072	1.644636989	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WDR37
THY1	Thy-1 Cell Surface Antigen	Protein coding	42	GC11M119417	1.642941236	https://www.genecards.org/cgi-bin/carddisp.pl?gene=THY1
MAPK9	Mitogen-Activated Protein Kinase 9	Protein coding	48	GC05M180235	1.642457008	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAPK9
TRAPPC11	Trafficking Protein Particle Complex Subunit 11	Protein coding	35	GC04P183659	1.640725851	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRAPPC11
PCSK2	Proprotein Convertase Subtilisin/Kexin Type 2	Protein coding	41	GC20P017226	1.639915824	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PCSK2
SIRT6	Sirtuin 6	Protein coding	45	GC19M004174	1.639091969	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SIRT6
CAPN1	Calpain 1	Protein coding	49	GC11P065336	1.638780594	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAPN1
MSTN	Myostatin	Protein coding	44	GC02M190055	1.635808587	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MSTN
SDHA	Succinate Dehydrogenase Complex Flavoprotein Subunit A	Protein coding	48	GC05P000208	1.635778308	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SDHA
CMC4	C-X9-C Motif Containing 4	Protein coding	28	GC0XM155061	1.63575685	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CMC4
SLC6A8	Solute Carrier Family 6 Member 8	Protein coding	45	GC0XP153688	1.635644197	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC6A8
AARS1	Alanyl-TRNA Synthetase 1	Protein coding	36	GC16M070372	1.635644197	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AARS1
PPP1R1B	Protein Phosphatase 1 Regulatory Inhibitor Subunit 1B	Protein coding	44	GC17P039626	1.635357857	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPP1R1B
USP36	Ubiquitin Specific Peptidase 36	Protein coding	38	GC17M078787	1.635200858	https://www.genecards.org/cgi-bin/carddisp.pl?gene=USP36
MIR30D	MicroRNA 30d	RNA gene	18	GC08M134804	1.634542465	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR30D
NSF	N-Ethylmaleimide Sensitive Factor, Vesicle Fusing ATPase	Protein coding	45	GC17P046590	1.634270906	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NSF
MIR200C	MicroRNA 200c	RNA gene	22	GC12P013192	1.632769227	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR200C
PLTP	Phospholipid Transfer Protein	Protein coding	43	GC20M045898	1.630895376	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLTP
MIR212	MicroRNA 212	RNA gene	19	GC17M002050	1.630085707	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR212
F2RL2	Coagulation Factor II Thrombin Receptor Like 2	Protein coding	41	GC05M076615	1.627726793	https://www.genecards.org/cgi-bin/carddisp.pl?gene=F2RL2
NOX1	NADPH Oxidase 1	Protein coding	42	GC0XM100843	1.626969457	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NOX1
HRH3	Histamine Receptor H3	Protein coding	43	GC20M062214	1.626932859	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HRH3
MX1	MX Dynamin Like GTPase 1	Protein coding	42	GC21P041420	1.623543978	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MX1
NPY1R	Neuropeptide Y Receptor Y1	Protein coding	46	GC04M163323	1.623469472	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPY1R
RTN4R	Reticulon 4 Receptor	Protein coding	42	GC22M020241	1.621795774	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RTN4R
SLC9A3	Solute Carrier Family 9 Member A3	Protein coding	47	GC05M000472	1.62157023	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC9A3
FADD	Fas Associated Via Death Domain	Protein coding	47	GC11P070203	1.620568037	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FADD
RNF146	Ring Finger Protein 146	Protein coding	37	GC06P127266	1.620564103	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNF146
STT3B	STT3 Oligosaccharyltransferase Complex Catalytic Subunit B	Protein coding	43	GC03P031550	1.616494894	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STT3B
IL1RAPL2	Interleukin 1 Receptor Accessory Protein Like 2	Protein coding	38	GC0XP104566	1.615890741	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL1RAPL2
COX14	Cytochrome C Oxidase Assembly Factor COX14	Protein coding	36	GC12P050111	1.61446166	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COX14
PLA2G3	Phospholipase A2 Group III	Protein coding	37	GC22M031364	1.611379147	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLA2G3
CALCR	Calcitonin Receptor	Protein coding	48	GC07M093424	1.610973597	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CALCR
MIR199A2	MicroRNA 199a-2	RNA gene	20	GC01M172235	1.610823035	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR199A2
SORCS2	Sortilin Related VPS10 Domain Containing Receptor 2	Protein coding	36	GC04P007196	1.609295368	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SORCS2
CXCL2	C-X-C Motif Chemokine Ligand 2	Protein coding	40	GC04M074097	1.608901143	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXCL2

SIRT2	Sirtuin 2	Protein coding	47	GC19M038878	1.607417822	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SIRT2
MIR4437	MicroRNA 4437	RNA gene	13	GC02M181305	1.60505259	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR4437
GRK3	G Protein-Coupled Receptor Kinase 3	Protein coding	38	GC22P027519	1.604694009	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRK3
SNRNP70	Small Nuclear Ribonucleoprotein U1 Subunit 70	Protein coding	38	GC19P049085	1.604596615	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNRNP70
CCL18	C-C Motif Chemokine Ligand 18	Protein coding	37	GC17P036064	1.604405165	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCL18
PDE4A	Phosphodiesterase 4A	Protein coding	45	GC19P010416	1.602807045	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDE4A
SRGAP3	SLIT-ROBO Rho GTPase Activating Protein 3	Protein coding	41	GC03M008980	1.600413084	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SRGAP3
DPP10	Dipeptidyl Peptidase Like 10	Protein coding	40	GC02P114442	1.600413084	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DPP10
RUFY1	RUN And FYVE Domain Containing 1	Protein coding	38	GC05P179550	1.600413084	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RUFY1
CAPN2	Calpain 2	Protein coding	47	GC01P223701	1.599541426	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAPN2
PSMB9	Proteasome 20S Subunit β 9	Protein coding	46	GC06P058343	1.598861694	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSMB9
MYBPC1	Myosin Binding Protein C1	Protein coding	43	GC12P101568	1.594045758	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYBPC1
SLC2A9	Solute Carrier Family 2 Member 9	Protein coding	45	GC04M009772	1.592357278	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC2A9
DPYSL2	Dihydropyrimidinase Like 2	Protein coding	45	GC08P026514	1.591951847	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DPYSL2
PDYN	Prodynorphin	Protein coding	44	GC20M001978	1.590532064	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDYN
PMF1	Polyamine Modulated Factor 1	Protein coding	37	GC01P156212	1.590415478	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PMF1
PMF1-BGLAP	PMF1-BGLAP Readthrough	Protein coding	22	GC01P156213	1.590415478	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PMF1-BGLAP
PDGFC	Platelet Derived Growth Factor C	Protein coding	43	GC04M156760	1.590159416	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDGFC
DKK3	Dickkopf WNT Signaling Pathway Inhibitor 3	Protein coding	40	GC11M011962	1.590159416	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DKK3
SERPINA5	Serpin Family A Member 5	Protein coding	43	GC14P094563	1.589998364	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPINA5
IL2RB	Interleukin 2 Receptor Subunit β	Protein coding	48	GC22M037125	1.589775562	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL2RB
SYNE1	Spectrin Repeat Containing Nuclear Envelope Protein 1	Protein coding	41	GC06M152121	1.589002848	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SYNE1
PYGB	Glycogen Phosphorylase B	Protein coding	44	GC20P025248	1.588316202	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PYGB
PSPH	Phosphoserine Phosphatase	Protein coding	46	GC07M056010	1.586403489	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSPH
VSNL1	Visinin Like 1	Protein coding	41	GC02P017539	1.585964203	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VSNL1
PNMT	Phenylethanolamine N-Methyltransferase	Protein coding	44	GC17P039667	1.583015203	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PNMT
ATP13A2	ATPase Cation Transporting 13A2	Protein coding	42	GC01M016985	1.581985712	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATP13A2
SLC25A37	Solute Carrier Family 25 Member 37	Protein coding	38	GC08P023528	1.58163929	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC25A37
MAPKAPK5	MAPK Activated Protein Kinase 5	Protein coding	44	GC12P111842	1.576555848	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAPKAPK5
HECTD4	HECT Domain E3 Ubiquitin Protein Ligase 4	Protein coding	30	GC12M112160	1.576555848	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HECTD4
PHETA1	PH Domain Containing Endocytic Trafficking Adaptor 1	Protein coding	27	GC12M111361	1.576555848	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PHETA1
TMEM116	Transmembrane Protein 116	Protein coding	26	GC12M111894	1.576555848	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TMEM116
ADAM1A	ADAM Metallopeptidase Domain 1A (Pseudogene)	Pseudogene	15	GC12P111899	1.576555848	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADAM1A
PCNPP1	PEST Containing Nuclear Protein Pseudogene 1	Pseudogene	9	GC12M111666	1.576555848	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PCNPP1
lnc-FAM109A-1		RNA gene	4	GC12M111488	1.576555848	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-FAM109A-1
HSALNG0094037		RNA gene	4	GC12P111432	1.576555848	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0094037
RF00017-1164		RNA gene	4	GC12M111250	1.576555848	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RF00017-1164
HSALNG0094038		RNA gene	3	GC12P111446	1.576555848	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0094038
piR-48007		RNA gene	3	GC12M111490	1.576555848	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-48007
piR-51327		RNA gene	3	GC12M111437	1.576555848	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-51327
piR-36455		RNA gene	3	GC12M111444	1.576555848	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-36455
piR-38259		RNA gene	3	GC12M111486	1.576555848	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-38259
piR-50346		RNA gene	3	GC12M111491	1.576555848	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-50346
piR-51449		RNA gene	3	GC12P111448	1.576555848	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-51449
piR-56480-015		RNA gene	3	GC12M111439	1.576555848	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-56480-015
SLC13A5	Solute Carrier Family 13 Member 5	Protein coding	43	GC17M006684	1.576158404	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC13A5
TFAP2A	Transcription Factor AP-2 α	Protein coding	47	GC06M010393	1.575462937	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TFAP2A
IGF2R	Insulin Like Growth Factor 2 Receptor	Protein coding	45	GC06P159969	1.573665023	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IGF2R
ARNT	Aryl Hydrocarbon Receptor Nuclear Translocator	Protein coding	44	GC01M150809	1.571814179	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARNT
FMO3	Flavin Containing Dimethylaniline Monoxygenase 3	Protein coding	47	GC01P171090	1.570537329	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FMO3
DNM1	Dynamin 1	Protein coding	51	GC09P128191	1.569339037	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DNM1
DUSP2	Dual Specificity Phosphatase 2	Protein coding	41	GC02M096447	1.569194555	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DUSP2
PYGM	Glycogen Phosphorylase, Muscle Associated	Protein coding	47	GC11M064746	1.565435529	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PYGM
GABBR1	γ-Aminobutyric Acid Type B Receptor Subunit 1	Protein coding	47	GC06M029555	1.565419912	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GABBR1
CAV2	Caveolin 2	Protein coding	43	GC07P116287	1.563236237	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAV2
LMNB1	Lamin B1	Protein coding	48	GC05P126776	1.562394977	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LMNB1
TAB2	TGF-β Activated Kinase 1 (MAP3K7) Binding Protein 2	Protein coding	47	GC06P149218	1.562083006	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TAB2
NPY5R	Neuropeptide Y Receptor Y5	Protein coding	43	GC04P163343	1.560770631	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPY5R
DDIT4	DNA Damage Inducible Transcript 4	Protein coding	43	GC10P072273	1.560736418	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DDIT4
TSPYL6	TSPY Like 6	Protein coding	33	GC02M054253	1.557663679	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TSPYL6
MIR503	MicroRNA 503	RNA gene	18	GC0XM134659	1.557663679	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR503
HBA2	Hemoglobin Subunit α 2	Protein coding	42	GC16P006100	1.557556391	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HBA2
ATP12A	ATPase H+/K+ Transporting Non-Gastric α2 Subunit	Protein coding	43	GC13P024680	1.555380225	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATP12A
ATP4A	ATPase H+/K+ Transporting Subunit α	Protein coding	41	GC19M048913	1.555380225	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATP4A
MACROD2	Mono-ADP Ribosylhydrolase 2	Protein coding	36	GC20P013925	1.554716587	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MACROD2
ATP6AP2	ATPase H+ Transporting Accessory Protein 2	Protein coding	44	GC0XP040582	1.551936865	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATP6AP2
CCN1	Cellular Communication Network Factor 1	Protein coding	30	GC01P085581	1.550974369	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCN1
CTBP1	C-Terminal Binding Protein 1	Protein coding	48	GC04M001211	1.547422767	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTBP1
PTPRN2	Protein Tyrosine Phosphatase Receptor Type N2	Protein coding	45	GC07M157539	1.547422767	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRN2
TP73	Tumor Protein P73	Protein coding	45	GC01P003652	1.547422767	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TP73
NCOR2	Nuclear Receptor Corepressor 2	Protein coding	44	GC12M124324	1.547422767	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NCOR2
EIF2AK1	Eukaryotic Translation Initiation Factor 2 α Kinase 1	Protein coding	43	GC07M006022	1.547422767	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EIF2AK1
LZTR1	Leucine Zipper Like Transcription Regulator 1	Protein coding	43	GC22P021221	1.547422767	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LZTR1
AKAP12	A-Kinase Anchoring Protein 12	Protein coding	41	GC06P151239	1.547422767	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKAP12
SBF1	SET Binding Factor 1	Protein coding	41	GC22M050445	1.547422767	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SBF1
ACOT7	Acyl-CoA Thioesterase 7	Protein coding	40	GC01M006265	1.547422767	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACOT7

TAF4	TATA-Box Binding Protein Associated Factor 4	Protein coding	40	GC20M062012	1.547422767	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TAF4
PACS2	Phosphofurin Acidic Cluster Sorting Protein 2	Protein coding	39	GC14P105300	1.547422767	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PACS2
ARVCF	ARVCF δ Catenin Family Member	Protein coding	38	GC22M019966	1.547422767	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARVCF
BAK1	BCL2 Antagonist/Killer 1	Protein coding	44	GC06M033572	1.547126532	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BAK1
FGFR4	Fibroblast Growth Factor Receptor 4	Protein coding	51	GC05P177086	1.545475483	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGFR4
CDKN1A	Cyclin Dependent Kinase Inhibitor 1A	Protein coding	48	GC06P058459	1.544131756	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDKN1A
KIF16B	Kinesin Family Member 16B	Protein coding	37	GC20M016272	1.543681979	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KIF16B
CACNA1D	Calcium Voltage-Gated Channel Subunit α1 D	Protein coding	47	GC03P053328	1.542826533	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CACNA1D
OBSCN	Obscurin, Cytoskeletal Calmodulin And Titin-Interacting RhoGEF	Protein coding	39	GC01P228208	1.542430401	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OBSCN
COMP	Cartilage Oligomeric Matrix Protein	Protein coding	48	GC19M018783	1.542316914	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COMP
NPHS1	NPHS1 Adhesion Molecule, Nephrin	Protein coding	45	GC19M035825	1.542160988	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPHS1
PLCB2	Phospholipase C β 2	Protein coding	47	GC15M040278	1.54177618	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLCB2
SAG	S-Antigen Visual Arrestin	Protein coding	45	GC02P233333	1.541589737	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SAG
TLK1	Tousled Like Kinase 1	Protein coding	43	GC02M170990	1.54062748	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TLK1
ZNF208	Zinc Finger Protein 208	Protein coding	30	GC19M027266	1.54062748	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZNF208
DECR1	2,4-Dienoyl-CoA Reductase 1	Protein coding	41	GC08P090001	1.539787292	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DECR1
MIR4271	MicroRNA 4271	RNA gene	11	GC03P049274	1.539787292	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR4271
CTNNA1	Catenin α 1	Protein coding	48	GC05P138613	1.538938999	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTNNA1
CXCR5	C-X-C Motif Chemokine Receptor 5	Protein coding	41	GC11P118912	1.537840486	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXCR5
MERTK	MER Proto-Oncogene, Tyrosine Kinase	Protein coding	50	GC02P111898	1.537381649	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MERTK
PSMB7	Proteasome 20S Subunit β 7	Protein coding	45	GC09M124353	1.536204696	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSMB7
CD74	CD74 Molecule	Protein coding	43	GC05M150378	1.536204696	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD74
AFP	α Fetoprotein	Protein coding	45	GC04P073431	1.534379721	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AFP
PTCSC3	Papillary Thyroid Carcinoma Susceptibility Candidate 3	RNA gene	16	GC14M036135	1.532673836	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTCSC3
SDC1	Syndecan 1	Protein coding	43	GC02M020200	1.532574177	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SDC1
P2RX2	Purinergic Receptor P2X 2	Protein coding	44	GC12P132618	1.531621218	https://www.genecards.org/cgi-bin/carddisp.pl?gene=P2RX2
ZNF318	Zinc Finger Protein 318	Protein coding	36	GC06M049367	1.531493545	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZNF318
OSMR	Oncostatin M Receptor	Protein coding	45	GC05P038845	1.529595733	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OSMR
DMRTA1	DMRT Like Family A1	Protein coding	36	GC09P022436	1.52721262	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DMRTA1
MED22	Mediator Complex Subunit 22	Protein coding	36	GC09M133338	1.52721262	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MED22
SURF6	Surfeit 6	Protein coding	36	GC09M133331	1.52721262	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SURF6
HGS	Hepatocyte Growth Factor-Regulated Tyrosine Kinase Substrate	Protein coding	44	GC17P081683	1.523117781	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HGS
CR1	Complement C3b/C4b Receptor 1 (Knops Blood Group)	Protein coding	45	GC01P207496	1.520680666	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CR1
EFEMP2	EGF Containing Fibulin Extracellular Matrix Protein 2	Protein coding	43	GC11M071732	1.520484805	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EFEMP2
MIR208A	MicroRNA 208a	RNA gene	18	GC14M023388	1.519993186	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR208A
DNM1L	Dynamin 1 Like	Protein coding	47	GC12P032679	1.516247034	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DNM1L
BLM	BLM RecQ Like Helicase	Protein coding	49	GC15P090717	1.513609409	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BLM
HAAO	3-Hydroxyanthranilate 3,4-Dioxygenase	Protein coding	44	GC02M042767	1.513609409	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HAAO
PLAA	Phospholipase A2 Activating Protein	Protein coding	44	GC09M026903	1.513609409	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLAA
CGA	Glycoprotein Hormones, α Polypeptide	Protein coding	43	GC06M087085	1.513609409	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CGA
FAF1	Fas Associated Factor 1	Protein coding	43	GC01M050439	1.513609409	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FAF1
RILP	Rab Interacting Lysosomal Protein	Protein coding	36	GC17M001646	1.513609409	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RILP
ELMOD1	ELMO Domain Containing 1	Protein coding	34	GC11P107592	1.513609409	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ELMOD1
TSPEAR	Thrombospondin Type Laminin G Domain And EAR Repeats	Protein coding	31	GC21M044497	1.513609409	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TSPEAR
ATPSCKMT	ATP Synthase C Subunit Lysine N-Methyltransferase	Protein coding	27	GC05M010225	1.513609409	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATPSCKMT
LOC100507346	Uncharacterized LOC100507346	RNA gene	9	GC09P095463	1.513609409	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC100507346
MIR133B	MicroRNA 133b	RNA gene	22	GC06P052148	1.512851834	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR133B
SCT	Secretin	Protein coding	34	GC11M000626	1.51108861	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCT
HSP90B1	Heat Shock Protein 90 β Family Member 1	Protein coding	45	GC12P103930	1.508564949	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSP90B1
ADRA1B	Adrenoceptor α 1B	Protein coding	47	GC05P159867	1.50536871	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADRA1B
FBLN5	Fibulin 5	Protein coding	45	GC14M091869	1.505014896	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FBLN5
ENDOG	Endonuclease G	Protein coding	43	GC09P128818	1.505005479	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENDOG
C1orf167	Chromosome 1 Open Reading Frame 167	Protein coding	26	GC01P011761	1.504792452	https://www.genecards.org/cgi-bin/carddisp.pl?gene=C1orf167
CNR2	Cannabinoid Receptor 2	Protein coding	45	GC01M023870	1.504566908	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CNR2
MANF	Mesencephalic Astrocyte Derived Neurotrophic Factor	Protein coding	38	GC03P051385	1.502204895	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MANF
EMD	Emerin	Protein coding	45	GC0XP154379	1.501924396	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EMD
NOD1	Nucleotide Binding Oligomerization Domain Containing 1	Protein coding	44	GC07M030424	1.499972701	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NOD1
MIR1275	MicroRNA 1275	RNA gene	18	GC06M049244	1.499599934	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR1275
MIR422A	MicroRNA 422a	RNA gene	16	GC15M063870	1.499599934	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR422A
CYP2R1	Cytochrome P450 Family 2 Subfamily R Member 1	Protein coding	46	GC11M014877	1.498845696	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP2R1
SORD	Sorbitol Dehydrogenase	Protein coding	45	GC15P045023	1.497784972	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SORD
DVL1	Dishevelled Segment Polarity Protein 1	Protein coding	47	GC01M001335	1.492865801	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DVL1
ILF3	Interleukin Enhancer Binding Factor 3	Protein coding	38	GC19P010655	1.492757082	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ILF3
HSF1	Heat Shock Transcription Factor 1	Protein coding	44	GC08P144291	1.492130518	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSF1
SERPINA7	Serpin Family A Member 7	Protein coding	39	GC0XM106032	1.49203825	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPINA7
CBL	Cbl Proto-Oncogene	Protein coding	50	GC11P119206	1.491443396	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CBL
PRKCZ	Protein Kinase C ζ	Protein coding	49	GC01P002050	1.491443396	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKCZ
LRPAP1	LDL Receptor Related Protein Associated Protein 1	Protein coding	43	GC04M003508	1.490181565	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LRPAP1
C1QA	Complement C1q A Chain	Protein coding	47	GC01P022636	1.488969445	https://www.genecards.org/cgi-bin/carddisp.pl?gene=C1QA
ANK3	Ankyrin 3	Protein coding	43	GC10M060026	1.487784028	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANK3
IFNB1	Interferon β 1	Protein coding	41	GC09M021077	1.48348403	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IFNB1
HRH2	Histamine Receptor H2	Protein coding	44	GC05P175659	1.477365732	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HRH2
PTPRD	Protein Tyrosine Phosphatase Receptor Type D	Protein coding	45	GC09M008307	1.476751924	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRD
HTR3B	5-Hydroxytryptamine Receptor 3B	Protein coding	44	GC11P113905	1.474954009	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HTR3B
PICALM	Phosphatidylinositol Binding Clathrin Assembly Protein	Protein coding	43	GC11M085957	1.474954009	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PICALM
VPS11	VPS11 Core Subunit Of CORVET And HOPS Complexes	Protein coding	41	GC11P119067	1.474954009	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VPS11

MOBP	Myelin Associated Oligodendrocyte Basic Protein	Protein coding	36	GC03P039581	1.474954009	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MOBP
MIR616	MicroRNA 616	RNA gene	16	GC12M057519	1.474439621	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR616
PSMD9	Proteasome 26S Subunit, Non-ATPase 9	Protein coding	43	GC12P123877	1.474322796	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSMD9
MET	MET Proto-Oncogene, Receptor Tyrosine Kinase	Protein coding	53	GC07P116672	1.472570658	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MET
KCNJ1	Potassium Inwardly Rectifying Channel Subfamily J Member 1	Protein coding	48	GC11M128741	1.470752716	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNJ1
CST2	Cystatin SA	Protein coding	36	GC20M023805	1.469598651	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CST2
SIRT3	Sirtuin 3	Protein coding	47	GC11M000215	1.469598413	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SIRT3
DYNC2H1	Dynein Cytoplasmic 2 Heavy Chain 1	Protein coding	38	GC11P103109	1.468119979	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DYNC2H1
SUN2	Sad1 And UNC84 Domain Containing 2	Protein coding	38	GC22M049698	1.466243982	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SUN2
MAP2K4	Mitogen-Activated Protein Kinase Kinase 4	Protein coding	47	GC17P012020	1.464294195	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP2K4
IL20RB	Interleukin 20 Receptor Subunit β	Protein coding	38	GC03P136946	1.464294195	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL20RB
ALCAM	Activated Leukocyte Cell Adhesion Molecule	Protein coding	43	GC03P105366	1.463283658	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALCAM
ATF6	Activating Transcription Factor 6	Protein coding	47	GC01P161766	1.462877512	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATF6
NPC2	NPC Intracellular Cholesterol Transporter 2	Protein coding	41	GC14M074476	1.462090611	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPC2
HADH	Hydroxyacyl-CoA Dehydrogenase	Protein coding	46	GC04P107989	1.461119533	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HADH
LACTB	Lactamase β	Protein coding	36	GC15P079621	1.458862662	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LACTB
TYK2	Tyrosine Kinase 2	Protein coding	52	GC19M010350	1.458078861	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TYK2
S100P	S100 Calcium Binding Protein P	Protein coding	39	GC04P006700	1.457403421	https://www.genecards.org/cgi-bin/carddisp.pl?gene=S100P
SPARCL1	SPARC Like 1	Protein coding	37	GC04M087473	1.457403421	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPARCL1
TIPARP	TCDD Inducible Poly(ADP-Ribose) Polymerase	Protein coding	34	GC03P156673	1.457403421	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TIPARP
PRPF8	Pre-MRNA Processing Factor 8	Protein coding	41	GC17M001650	1.456801891	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRPF8
CD46	CD46 Molecule	Protein coding	45	GC01P207752	1.45359683	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD46
TMEM132D	Transmembrane Protein 132D	Protein coding	37	GC12M129071	1.45349288	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TMEM132D
TCF12	Transcription Factor 12	Protein coding	47	GC15P056918	1.452520847	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TCF12
SLC44A2	Solute Carrier Family 44 Member 2	Protein coding	41	GC19P010602	1.452520847	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC44A2
GRM2	Glutamate Metabotropic Receptor 2	Protein coding	45	GC03P051707	1.446584225	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRM2
MIR340	MicroRNA 340	RNA gene	19	GC05M180015	1.445489645	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR340
PHF1	PHD Finger Protein 1	Protein coding	41	GC06P058388	1.44329524	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PHF1
SCUBE1	Signal Peptide, CUB Domain And EGF Like Domain Containing 1	Protein coding	36	GC22M043197	1.442792177	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCUBE1
RPL7A	Ribosomal Protein L7a	Protein coding	42	GC09P133348	1.440408945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPL7A
SH3PXD2A	SH3 And PX Domains 2A	Protein coding	38	GC10M103594	1.440408945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SH3PXD2A
SURF4	Surfeit 4	Protein coding	38	GC09M133361	1.440408945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SURF4
CASZ1	Castor zinc finger 1	Protein coding	37	GC01M010642	1.440408945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CASZ1
PMFBP1	Polyamine Modulated Factor 1 Binding Protein 1	Protein coding	37	GC16M072112	1.440408945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PMFBP1
SURF2	Surfeit 2	Protein coding	36	GC09P133620	1.440408945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SURF2
TTBK1	Tau Tubulin Kinase 1	Protein coding	36	GC06P043243	1.440408945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TTBK1
C1orf127	Chromosome 1 Open Reading Frame 127	Protein coding	34	GC01M010946	1.440408945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=C1orf127
C16orf95	Chromosome 16 Open Reading Frame 95	Protein coding	25	GC16M087119	1.440408945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=C16orf95
SNORD24	Small Nucleolar RNA, C/D Box 24	RNA gene	15	GC09P133349	1.440408945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNORD24
SNORD36A	Small Nucleolar RNA, C/D Box 36A	RNA gene	14	GC09P133618	1.440408945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNORD36A
SNORD36B	Small Nucleolar RNA, C/D Box 36B	RNA gene	14	GC09P133617	1.440408945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNORD36B
SNORD36C	Small Nucleolar RNA, C/D Box 36C	RNA gene	14	GC09P133619	1.440408945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNORD36C
F11-AS1	F11 Antisense RNA 1	RNA gene	13	GC04M186286	1.440408945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=F11-AS1
LOC100505841	Zinc Finger Protein 474-Like	Protein coding	13	GC05P122130	1.440408945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC100505841
LINC01304	Long Intergenic Non-Protein Coding RNA 1304	RNA gene	10	GC02M003957	1.440408945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LINC01304
LINC01438	Long Intergenic Non-Protein Coding RNA 1438	RNA gene	8	GC04P110794	1.440408945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LINC01438
RPL21P81	Ribosomal Protein L21 Pseudogene 81	Pseudogene	6	GC09P133338	1.440408945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPL21P81
ENSG00000201451	Y RNA	RNA gene	6	GC09M133339	1.440408945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000201451
RNU6-144P	RNA, U6 Small Nuclear 144, Pseudogene	Pseudogene	5	GC08P137105	1.440408945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNU6-144P
ENSG00000277653		RNA gene	5	GC09P022117	1.440408945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000277653
lnc-TWIST1-1		RNA gene	5	GC07M018967	1.440408945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-TWIST1-1
ZYXP1	Zyxin Pseudogene 1	Pseudogene	4	GC08M137425	1.440408945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZYXP1
HSALNG0000800		RNA gene	4	GC01P010729	1.440408945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0000800
lnc-JPH3-1		RNA gene	4	GC16P087582	1.440408945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-JPH3-1
lnc-JPH3-6		RNA gene	4	GC16P087539	1.440408945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-JPH3-6
HSALNG0070392-001		RNA gene	4	GC09M021933	1.440408945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0070392-001
RF00017-7527		RNA gene	4	GC09P133312	1.440408945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RF00017-7527
RF00951-004		RNA gene	4	GC01M010753	1.440408945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RF00951-004
MN297386		RNA gene	2	GC16M073042	1.440408945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MN297386
HSALNG0050175		RNA gene	2	GC06P059147	1.440408945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0050175
piR-58308-245		RNA gene	2	GC04P110762	1.440408945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-58308-245
piR-41525-616		RNA gene	2	GC07P019005	1.440408945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-41525-616
piR-59149		RNA gene	2	GC16M073025	1.440408945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-59149
piR-31534-613		RNA gene	2	GC07M019028	1.440408945	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-31534-613
MAP1B	Microtubule Associated Protein 1B	Protein coding	44	GC05P072107	1.439234734	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP1B
HVCN1	Hydrogen Voltage Gated Channel 1	Protein coding	38	GC12M110627	1.438877583	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HVCN1
SYNE2	Spectrin Repeat Containing Nuclear Envelope Protein 2	Protein coding	39	GC14P063761	1.434756994	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SYNE2
CRAT	Carnitine O-Acetyltransferase	Protein coding	45	GC09M129094	1.434100866	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRAT
GATM	Glycine Amidinotransferase	Protein coding	45	GC15M045361	1.430175781	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GATM
ANKS1A	Ankyrin Repeat And Sterile α Motif Domain Containing 1A	Protein coding	36	GC06P058430	1.42937994	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANKS1A
DEFB1	Defensin β 1	Protein coding	39	GC08M006870	1.428453445	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DEFB1
NPL	N-Acetylneuraminate Pyruvate Lyase	Protein coding	39	GC01P182758	1.428453445	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPL
RNASE2	Ribonuclease A Family Member 2	Protein coding	38	GC14P022329	1.428453445	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNASE2
CILP2	Cartilage Intermediate Layer Protein 2	Protein coding	35	GC19P019538	1.428453445	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CILP2
MAFB	MAF BZIP Transcription Factor B	Protein coding	43	GC20M040685	1.425207138	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAFB

PTGER4	Prostaglandin E Receptor 4	Protein coding	46	GC05P040679	1.424358845	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTGER4
IL10RA	Interleukin 10 Receptor Subunit α	Protein coding	45	GC11P117987	1.423651576	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL10RA
HSPB6	Heat Shock Protein Family B (Small) Member 6	Protein coding	38	GC19M048375	1.4234308	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSPB6
RGS2	Regulator Of G Protein Signaling 2	Protein coding	42	GC01P192809	1.422876358	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RGS2
CHRNA3	Cholinergic Receptor Nicotinic α 3 Subunit	Protein coding	44	GC15M078594	1.422593355	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHRNA3
MIR22	MicroRNA 22	RNA gene	20	GC17M001713	1.420866013	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR22
MYL2	Myosin Light Chain 2	Protein coding	49	GC12M110910	1.419019341	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYL2
KCNJ16	Potassium Inwardly Rectifying Channel Subfamily J Member 16	Protein coding	39	GC17P070053	1.418386102	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNJ16
XYLB	Xylulokinase	Protein coding	39	GC03P038363	1.418386102	https://www.genecards.org/cgi-bin/carddisp.pl?gene=XYLB
MATN3	Matrilin 3	Protein coding	42	GC02M019992	1.418205023	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MATN3
MIR24-2	MicroRNA 24-2	RNA gene	19	GC19M014148	1.41344595	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR24-2
CBX5	Chromobox 5	Protein coding	44	GC12M054230	1.413188934	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CBX5
LTBP4	Latent Transforming Growth Factor β Binding Protein 4	Protein coding	40	GC19P040592	1.413188934	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LTBP4
PRKDC	Protein Kinase, DNA-Activated, Catalytic Subunit	Protein coding	50	GC08M047773	1.410839796	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKDC
PRPS1	Phosphoribosyl Pyrophosphate Synthetase 1	Protein coding	47	GC0XP107628	1.410839796	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRPS1
TP53BP1	Tumor Protein P53 Binding Protein 1	Protein coding	45	GC15M043403	1.410839796	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TP53BP1
NAGA	α-N-Acetylgalactosaminidase	Protein coding	43	GC22M042058	1.410839796	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NAGA
BANF1	BAF Nuclear Assembly Factor 1	Protein coding	42	GC11P066002	1.410839796	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BANF1
MIR124-2	MicroRNA 124-2	RNA gene	19	GC08P064379	1.409927607	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR124-2
FUT8	Fucosyltransferase 8	Protein coding	44	GC14P065411	1.406030059	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FUT8
SLC37A4	Solute Carrier Family 37 Member 4	Protein coding	44	GC11M119024	1.406030059	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC37A4
VPS33B	VPS33B Late Endosome And Lysosome Associated	Protein coding	41	GC15M090998	1.406030059	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VPS33B
GALNT17	Polypeptide N-Acetylgalactosaminyltransferase 17	Protein coding	31	GC07P071133	1.406030059	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GALNT17
DENND2B	DENN Domain Containing 2B	Protein coding	29	GC11M008695	1.406030059	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DENND2B
REST	RE1 Silencing Transcription Factor	Protein coding	44	GC04P056907	1.403827429	https://www.genecards.org/cgi-bin/carddisp.pl?gene=REST
EDN2	Endothelin 2	Protein coding	40	GC01M041478	1.403613567	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EDN2
SMG6	SMG6 Nonsense Mediated MRNA Decay Factor	Protein coding	40	GC17M002059	1.401790619	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMG6
DNM1P37	Dynamin 1 Pseudogene 37	Pseudogene	4	GC15M078784	1.401790619	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DNM1P37
RPTOR	Regulatory Associated Protein Of MTOR Complex 1	Protein coding	44	GC17P080544	1.400358915	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPTOR
TRAPPC4	Trafficking Protein Particle Complex Subunit 4	Protein coding	40	GC11P119018	1.400358915	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRAPPC4
RAB8A	RAB8A, Member RAS Oncogene Family	Protein coding	40	GC19P016111	1.400358915	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAB8A
SBF2	SET Binding Factor 2	Protein coding	39	GC11M009790	1.400358915	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SBF2
FBXO38	F-Box Protein 38	Protein coding	38	GC05P148383	1.400358915	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FBXO38
TECRL	Trans-2,3-Enoyl-CoA Reductase Like	Protein coding	37	GC04M064275	1.400358915	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TECRL
SSPN	Sarcospan	Protein coding	35	GC12P026118	1.400358915	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SSPN
CXCL11	C-X-C Motif Chemokine Ligand 11	Protein coding	41	GC04M076033	1.397946	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXCL11
ACTA1	Actin α 1, Skeletal Muscle	Protein coding	47	GC01M229431	1.397641897	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACTA1
PANX1	Pannexin 1	Protein coding	43	GC11P094128	1.395937562	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PANX1
NPR2	Natriuretic Peptide Receptor 2	Protein coding	48	GC09P035782	1.395287871	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPR2
BRD4	Bromodomain Containing 4	Protein coding	47	GC19M015236	1.394229174	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BRD4
TRA2B	Transformer 2 β Homolog	Protein coding	39	GC03M185914	1.394229174	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRA2B
ADGRL3	Adhesion G Protein-Coupled Receptor L3	Protein coding	34	GC04P061201	1.394229174	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADGRL3
TRPM2	Transient Receptor Potential Cation Channel Subfamily M Member 2	Protein coding	43	GC21P044350	1.393633723	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRPM2
CSRP3	Cysteine And Glycine Rich Protein 3	Protein coding	42	GC11M019160	1.392816663	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSRP3
MIR191	MicroRNA 191	RNA gene	21	GC03M049511	1.392399549	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR191
GLDC	Glycine Decarboxylase	Protein coding	48	GC09M006522	1.390537739	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLDC
SGCA	Sarcoglycan α	Protein coding	42	GC17P050164	1.390537739	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SGCA
HMBS	Hydroxymethylbilane Synthase	Protein coding	44	GC11P119084	1.389948368	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HMBS
THUMPD3-AS1	THUMPD3 Antisense RNA 1	RNA gene	15	GC03M009349	1.386561632	https://www.genecards.org/cgi-bin/carddisp.pl?gene=THUMPD3-AS1
ACVR1	Activin A Receptor Type 1	Protein coding	51	GC02M157736	1.386096954	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACVR1
WT1	WT1 Transcription Factor	Protein coding	49	GC11M032365	1.384267569	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WT1
TFEB	Transcription Factor EB	Protein coding	42	GC06M049331	1.380459905	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TFEB
TOMM40	Translocase Of Outer Mitochondrial Membrane 40	Protein coding	41	GC19P044890	1.378208399	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TOMM40
ACADVL	Acyl-CoA Dehydrogenase Very Long Chain	Protein coding	45	GC17P007219	1.375214934	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACADVL
IRAG1	Inositol 1,4,5-Triphosphate Receptor Associated 1	Protein coding	28	GC11M010733	1.374872684	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IRAG1
BCR	BCR Activator Of RhoGEF And GTPase	Protein coding	51	GC22P023179	1.374191999	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BCR
LRP6	LDL Receptor Related Protein 6	Protein coding	48	GC12M016340	1.372767925	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LRP6
MIR199B	MicroRNA 199b	RNA gene	20	GC09M128244	1.372199178	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR199B
PXDN	Peroxidasin	Protein coding	41	GC02M001635	1.371544838	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PXDN
ANG	Angiogenin	Protein coding	45	GC14P022303	1.370412707	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANG
NDRG1	N-Myc Downstream Regulated 1	Protein coding	44	GC08M133237	1.370412707	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NDRG1
MOCS1	Molybdenum Cofactor Synthesis 1	Protein coding	41	GC06M039899	1.370412707	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MOCS1
MIR375	MicroRNA 375	RNA gene	20	GC02M219001	1.370412707	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR375
CALHM1	Calcium Homeostasis Modulator 1	Protein coding	33	GC10M103454	1.369681835	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CALHM1
LGALS1	Galectin 1	Protein coding	43	GC22P037675	1.367122293	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LGALS1
HPS4	HPS4 Biogenesis Of Lysosomal Organelles Complex 3 Subunit 2	Protein coding	39	GC22M026443	1.365717292	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HPS4
NEURL1	Neuralized E3 Ubiquitin Protein Ligase 1	Protein coding	36	GC10P103493	1.365717292	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NEURL1
CPNE8	Copine 8	Protein coding	35	GC12M038646	1.365717292	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CPNE8
COL28A1	Collagen Type XXVIII α 1 Chain	Protein coding	33	GC07M007338	1.365717292	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COL28A1
OBP2B	Odorant Binding Protein 2B	Protein coding	30	GC09M133205	1.365717292	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OBP2B
CCNH	Cyclin H	Protein coding	45	GC05M087311	1.364768386	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCNH
FOXP3	Forkhead Box P3	Protein coding	47	GC0XM049250	1.364058375	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FOXP3
IL12B	Interleukin 12B	Protein coding	43	GC05M159314	1.360568523	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL12B
SCN9A	Sodium Voltage-Gated Channel α Subunit 9	Protein coding	48	GC02M166195	1.360234141	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCN9A
HMOX2	Heme Oxygenase 2	Protein coding	47	GC16P004474	1.357238412	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HMOX2
CAST	Calpastatin	Protein coding	45	GC05P096525	1.357238412	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAST

CPOX	Coproporphyrinogen Oxidase	Protein coding	43	GC03M098576	1.355799198	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CPOX
IL15	Interleukin 15	Protein coding	40	GC04P141636	1.35426259	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL15
ALDH1L1-AS2	ALDH1L1 Antisense RNA 2	RNA gene	13	GC03P126180	1.351707697	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDH1L1-AS2
SLIT2	Slit Guidance Ligand 2	Protein coding	45	GC04P020287	1.351265311	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLIT2
HLA-DRB4	Major Histocompatibility Complex, Class II, DR β 4	Protein coding	30	GC06Mo03851	1.348972797	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HLA-DRB4
MS4A1	Membrane Spanning 4-Domains A1	Protein coding	46	GC11P060479	1.348146677	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MS4A1
FUCA1	α-L-Fucosidase 1	Protein coding	46	GC01M023845	1.34795332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FUCA1
XPA	XPA, DNA Damage Recognition And Repair Factor	Protein coding	45	GC09M097654	1.34795332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=XPA
AGA	Aspartylglucosaminidase	Protein coding	44	GC04M177430	1.34795332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGA
A4GALT	α 1,4-Galactosyltransferase (P Blood Group)	Protein coding	44	GC22M042692	1.34795332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=A4GALT
TRPA1	Transient Receptor Potential Cation Channel Subfamily A Member 1	Protein coding	45	GC08M072019	1.347014904	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRPA1
TSPAN9	Tetraspanin 9	Protein coding	38	GC12P003078	1.345620155	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TSPAN9
CHKA	Choline Kinase α	Protein coding	41	GC11M068052	1.344339848	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHKA
SHOC2	SHOC2 Leucine Rich Repeat Scaffold Protein	Protein coding	41	GC10P110919	1.343198419	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SHOC2
STK24	Serine/Threonine Kinase 24	Protein coding	44	GC13M098445	1.343003511	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STK24
FYN	FYN Proto-Oncogene, Src Family Tyrosine Kinase	Protein coding	47	GC06M111660	1.342020631	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FYN
MTFMT	Mitochondrial Methionyl-TRNA Formyltransferase	Protein coding	41	GC15M065001	1.341048956	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MTFMT
RAB39B	RAB39B, Member RAS Oncogene Family	Protein coding	39	GC0XM155259	1.341048956	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAB39B
MIR148B	MicroRNA 148b	RNA gene	20	GC12P054337	1.338587761	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR148B
MIR29B2	MicroRNA 29b-2	RNA gene	19	GC01M207806	1.338587761	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR29B2
MIR151B	MicroRNA 151b	RNA gene	13	GC14M100109	1.338587761	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR151B
RTEL1	Regulator Of Telomere Elongation Helicase 1	Protein coding	40	GC20P063658	1.337482452	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RTEL1
ZEB1	Zinc Finger E-Box Binding Homeobox 1	Protein coding	48	GC10P031318	1.335894108	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZEB1
MCCC2	Methylcrotonyl-CoA Carboxylase Subunit 2	Protein coding	44	GC05P071587	1.334229112	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MCCC2
TOLLIP	Toll Interacting Protein	Protein coding	43	GC11M001274	1.329763174	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TOLLIP
SLC7A8	Solute Carrier Family 7 Member 8	Protein coding	42	GC14M023125	1.329763174	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC7A8
CCT2	Chaperonin Containing TCP1 Subunit 2	Protein coding	41	GC12P069585	1.329763174	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCT2
AP3D1	Adaptor Related Protein Complex 3 Subunit δ 1	Protein coding	40	GC19M002413	1.329763174	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AP3D1
FAM13A	Family With Sequence Similarity 13 Member A	Protein coding	38	GC04M088725	1.329763174	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FAM13A
ZNF618	Zinc Finger Protein 618	Protein coding	34	GC09P113876	1.329763174	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZNF618
MIR320A	MicroRNA 320a	RNA gene	20	GC08M022249	1.329652905	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR320A
DIO1	Iodothyronine Deiodinase 1	Protein coding	40	GC01P053891	1.328448772	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DIO1
MIR483	MicroRNA 483	RNA gene	19	GC11M002228	1.327159166	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR483
IL10RB	Interleukin 10 Receptor Subunit β	Protein coding	44	GC21P033266	1.326437473	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL10RB
CHRNB4	Cholinergic Receptor Nicotinic β 4 Subunit	Protein coding	44	GC15M078624	1.325379252	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHRNB4
MIR93	MicroRNA 93	RNA gene	21	GC07M100602	1.322424293	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR93
TNFAIP8L2	TNF α Induced Protein 8 Like 2	Protein coding	33	GC01P151156	1.320478082	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFAIP8L2
MAP3K11	Mitogen-Activated Protein Kinase Kinase Kinase 11	Protein coding	48	GC11M071696	1.316622376	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP3K11
MYLK-AS1	MYLK Antisense RNA 1	RNA gene	17	GC03P123588	1.315974712	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYLK-AS1
LINC01389	Long Intergenic Non-Protein Coding RNA 1389	RNA gene	13	GC01M047380	1.315974712	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LINC01389
HLA-A	Major Histocompatibility Complex, Class I, A	Protein coding	47	GC06P058250	1.313254952	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HLA-A
MIR192	MicroRNA 192	RNA gene	22	GC11M064891	1.313088179	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR192
PRKCQ	Protein Kinase C θ	Protein coding	50	GC10M006393	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKCQ
ROR2	Receptor Tyrosine Kinase Like Orphan Receptor 2	Protein coding	48	GC09M091564	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ROR2
DOCK1	Dedicator Of Cytokinesis 1	Protein coding	45	GC10P126905	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DOCK1
POLR1D	RNA Polymerase I And III Subunit D	Protein coding	45	GC13P027620	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=POLR1D
PSMB4	Proteasome 20S Subunit β 4	Protein coding	45	GC01P151372	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSMB4
PML	PML Nuclear Body Scaffold	Protein coding	45	GC15P073994	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PML
NDST1	N-Deacetylase And N-Sulfotransferase 1	Protein coding	45	GC05P150484	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NDST1
CDH15	Cadherin 15	Protein coding	44	GC16P089171	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDH15
PSMA4	Proteasome 20S Subunit α 4	Protein coding	44	GC15P078540	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSMA4
TFF1	Trefoil Factor 1	Protein coding	44	GC21M042362	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TFF1
COLEC11	Collectin Subfamily Member 11	Protein coding	43	GC02P003594	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COLEC11
FOXF1	Forkhead Box F1	Protein coding	43	GC16P086510	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FOXF1
MAPKAP1	MAPK Associated Protein 1	Protein coding	43	GC09M125437	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAPKAP1
UBE2R2	Ubiquitin Conjugating Enzyme E2 R2	Protein coding	43	GC09P033817	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UBE2R2
NADSYN1	NAD Synthetase 1	Protein coding	41	GC11P071454	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NADSYN1
COL13A1	Collagen Type XIII α 1 Chain	Protein coding	40	GC10P069801	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COL13A1
FUT7	Fucosyltransferase 7	Protein coding	40	GC09M137030	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FUT7
PPP1R12B	Protein Phosphatase 1 Regulatory Subunit 12B	Protein coding	40	GC01P202348	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPP1R12B
PIGG	Phosphatidylinositol Glycan Anchor Biosynthesis Class G	Protein coding	40	GC04P000522	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIGG
PITRM1	Pitrilysin Metallopeptidase 1	Protein coding	40	GC10M003138	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PITRM1
MCC	MCC Regulator Of WNT Signaling Pathway	Protein coding	40	GC05M113022	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MCC
NUP210	Nucleoporin 210	Protein coding	40	GC03M017371	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NUP210
TBCD	Tubulin Folding Cofactor D	Protein coding	40	GC17P082752	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TBCD
UHRF1	Ubiquitin Like With PHD And Ring Finger Domains 1	Protein coding	40	GC19P004910	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UHRF1
USP20	Ubiquitin Specific Peptidase 20	Protein coding	40	GC09P129834	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=USP20
RGS12	Regulator Of G Protein Signaling 12	Protein coding	40	GC04P003292	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RGS12
WNK2	WNK Lysine Deficient Protein Kinase 2	Protein coding	40	GC09P093184	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WNK2
ERGIC1	Endoplasmic Reticulum-Golgi Intermediate Compartment 1	Protein coding	39	GC05P172834	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ERGIC1
GAS7	Growth Arrest Specific 7	Protein coding	39	GC17M009910	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GAS7
NVL	Nuclear VCP Like	Protein coding	39	GC01M224227	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NVL
SIX5	SIX Homeobox 5	Protein coding	39	GC19M045764	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SIX5
DIDO1	Death Inducer-Obliterator 1	Protein coding	38	GC20M062877	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DIDO1
ITM2C	Integral Membrane Protein 2C	Protein coding	38	GC02P230864	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITM2C
ZNF79	Zinc Finger Protein 79	Protein coding	38	GC09P127424	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZNF79

PANX2	Pannexin 2	Protein coding	38	GC22P050170	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PANX2
OGDHL	Oxoglutarate Dehydrogenase L	Protein coding	38	GC10M049734	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OGDHL
SS18L1	SS18L1 Subunit Of BAF Chromatin Remodeling Complex	Protein coding	38	GC20P062143	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SS18L1
TCF25	Transcription Factor 25	Protein coding	38	GC16P089873	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TCF25
USP37	Ubiquitin Specific Peptidase 37	Protein coding	38	GC02M218450	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=USP37
SPTBN4	Spectrin β, Non-Erythrocytic 4	Protein coding	38	GC19P040466	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPTBN4
COL23A1	Collagen Type XXIII α 1 Chain	Protein coding	37	GC05M178237	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COL23A1
CUL9	Cullin 9	Protein coding	37	GC06P043182	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CUL9
CDYL2	Chromodomain Y Like 2	Protein coding	36	GC16M080598	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDYL2
ADAMTSL5	ADAMTS Like 5	Protein coding	36	GC19M002338	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADAMTSL5
OSGIN1	Oxidative Stress Induced Growth Inhibitor 1	Protein coding	36	GC16P083934	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OSGIN1
SDK1	Sidekick Cell Adhesion Molecule 1	Protein coding	36	GC07P003307	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SDK1
ZNF607	Zinc Finger Protein 607	Protein coding	36	GC19M037696	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZNF607
MYO7B	Myosin VIIB	Protein coding	35	GC02P127535	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYO7B
MEGF11	Multiple EGF Like Domains 11	Protein coding	35	GC15M068955	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MEGF11
RABGAP1L	RAB GTPase Activating Protein 1 Like	Protein coding	35	GC01P174128	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RABGAP1L
CCDC86	Coiled-Coil Domain Containing 86	Protein coding	34	GC11P060865	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCDC86
GPR160	G Protein-Coupled Receptor 160	Protein coding	34	GC03P170037	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPR160
PNLDC1	PARN Like Ribonuclease Domain Containing Exonuclease 1	Protein coding	34	GC06P159823	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PNLDC1
DIP2C	Disco Interacting Protein 2 Homolog C	Protein coding	33	GC10M000274	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DIP2C
TMEM39A	Transmembrane Protein 39A	Protein coding	33	GC03M119428	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TMEM39A
RAB6C	RAB6C, Member RAS Oncogene Family	Protein coding	33	GC02P129979	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAB6C
ZC3H3	Zinc Finger CCCH-Type Containing 3	Protein coding	33	GC08M143437	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZC3H3
ZSWIM2	Zinc Finger SWIM-Type Containing 2	Protein coding	30	GC02M186827	1.312726974	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZSWIM2
TRPC1	Transient Receptor Potential Cation Channel Subfamily C Member 1	Protein coding	43	GC03P142724	1.312528968	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRPC1
SMAD9	SMAD Family Member 9	Protein coding	46	GC13M036844	1.311860085	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMAD9
ZIC3	Zic Family Member 3	Protein coding	47	GC0XP137566	1.31091547	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZIC3
SFTPD	Surfactant Protein D	Protein coding	43	GC10M079937	1.31091547	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SFTPD
KCNN3	Potassium Calcium-Activated Channel Subfamily N Member 3	Protein coding	44	GC01M154697	1.308929086	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNN3
TKT	Transketolase	Protein coding	47	GC03M053224	1.306925774	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TKT
HNRNPK	Heterogeneous Nuclear Ribonucleoprotein K	Protein coding	45	GC09M086732	1.303734183	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HNRNPK
SGPL1	Sphingosine-1-Phosphate Lyase 1	Protein coding	45	GC10P070815	1.303734183	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SGPL1
CAPZA2	Capping Actin Protein Of Muscle Z-Line Subunit α 2	Protein coding	41	GC07P116811	1.303734183	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAPZA2
CD55	CD55 Molecule (Cromer Blood Group)	Protein coding	47	GC01P207321	1.303655982	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD55
AKR1D1	Aldo-Keto Reductase Family 1 Member D1	Protein coding	46	GC07P138003	1.303144693	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKR1D1
SOX5	SRY-Box Transcription Factor 5	Protein coding	46	GC12M023529	1.303144693	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SOX5
SKI	SKI Proto-Oncogene	Protein coding	45	GC01P002228	1.303144693	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SKI
PEX1	Peroxisomal Biogenesis Factor 1	Protein coding	45	GC07M092487	1.303144693	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PEX1
ARID1A	AT-Rich Interaction Domain 1A	Protein coding	44	GC01P026693	1.303144693	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARID1A
NDUFS6	NADH:Ubiquinone Oxidoreductase Subunit S6	Protein coding	44	GC05P001801	1.303144693	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NDUFS6
FXR1	FMR1 Autosomal Homolog 1	Protein coding	43	GC03P180868	1.303144693	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FXR1
PIGV	Phosphatidylinositol Glycan Anchor Biosynthesis Class V	Protein coding	42	GC01P026787	1.303144693	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIGV
PEX10	Peroxisomal Biogenesis Factor 10	Protein coding	42	GC01M002403	1.303144693	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PEX10
SEMA3C	Semaphorin 3C	Protein coding	42	GC07M080742	1.303144693	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SEMA3C
CARS2	Cysteinyl-TRNA Synthetase 2, Mitochondrial	Protein coding	41	GC13M110641	1.303144693	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CARS2
DNAJC19	DnaJ Heat Shock Protein Family (Hsp40) Member C19	Protein coding	41	GC03M180983	1.303144693	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DNAJC19
NRCAM	Neuronal Cell Adhesion Molecule	Protein coding	41	GC07M108147	1.303144693	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NRCAM
DNAJB11	DnaJ Heat Shock Protein Family (Hsp40) Member B11	Protein coding	40	GC03P186567	1.303144693	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DNAJB11
CNTN6	Contactin 6	Protein coding	40	GC03P000978	1.303144693	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CNTN6
TTC8	Tetratricopeptide Repeat Domain 8	Protein coding	40	GC14P089380	1.303144693	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TTC8
SORBS2	Sorbin And SH3 Domain Containing 2	Protein coding	40	GC04M185585	1.303144693	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SORBS2
CADPS2	Calcium Dependent Secretion Activator 2	Protein coding	38	GC07M122318	1.303144693	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CADPS2
HNRNPA3	Heterogeneous Nuclear Ribonucleoprotein A3	Protein coding	38	GC02P177212	1.303144693	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HNRNPA3
DEFA3	Defensin α 3	Protein coding	37	GC08M007015	1.303144693	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DEFA3
CRTAC1	Cartilage Acidic Protein 1	Protein coding	37	GC10M097865	1.303144693	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRTAC1
EPG5	Ectopic P-Granules Autophagy Protein 5 Homolog	Protein coding	36	GC18M045800	1.303144693	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPG5
KCTD13	Potassium Channel Tetramerization Domain Containing 13	Protein coding	36	GC16M029905	1.303144693	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCTD13
RER1	Retention In Endoplasmic Reticulum Sorting Receptor 1	Protein coding	34	GC01P002391	1.303144693	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RER1
SBF2-AS1	SBF2 Antisense RNA 1	RNA gene	16	GC11P009758	1.303144693	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SBF2-AS1
MIR4497	MicroRNA 4497	RNA gene	11	GC12P109833	1.303144693	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR4497
MIR181B1	MicroRNA 181b-1	RNA gene	20	GC01M198858	1.302632451	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR181B1
MIR181B2	MicroRNA 181b-2	RNA gene	20	GC09P124693	1.302632451	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR181B2
NUDT6	Nudix Hydrolase 6	Protein coding	38	GC04M122888	1.301500082	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NUDT6
ABCC3	ATP Binding Cassette Subfamily C Member 3	Protein coding	46	GC17P050634	1.300859213	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCC3
PCDHGA3	Protocadherin γ Subfamily A, 3	Protein coding	33	GC05P144099	1.300859213	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PCDHGA3
MIR17HG	MiR-17-92a-1 Cluster Host Gene	RNA gene	26	GC13P091347	1.300859213	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR17HG
MIR335	MicroRNA 335	RNA gene	18	GC07P130496	1.300859213	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR335
KIF26B	Kinesin Family Member 26B	Protein coding	36	GC01P245154	1.300550103	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KIF26B
CTC1	CST Telomere Replication Complex Component 1	Protein coding	34	GC17M009358	1.298761845	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTC1
ATP1A1	ATPase Na+/K+ Transporting Subunit α 1	Protein coding	50	GC01P116372	1.29820919	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATP1A1
LGALS13	Galectin 13	Protein coding	38	GC19P039602	1.29820919	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LGALS13
MOG	Myelin Oligodendrocyte Glycoprotein	Protein coding	45	GC06P058230	1.297759771	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MOG
PSMC3	Proteasome 26S Subunit, ATPase 3	Protein coding	43	GC11M071236	1.29484117	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSMC3
SLC8A3	Solute Carrier Family 8 Member A3	Protein coding	43	GC14M070044	1.293664217	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC8A3
NEDD4L	NEDD4 Like E3 Ubiquitin Protein Ligase	Protein coding	47	GC18P058044	1.292155027	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NEDD4L
LGMN	Legumain	Protein coding	41	GC14M092703	1.287123799	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LGMN

SHH	Sonic Hedgehog Signaling Molecule	Protein coding	49	GC07M155799	1.286102295	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SHH
KLF2	Kruppel Like Factor 2	Protein coding	41	GC19P027749	1.284695864	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KLF2
HCRTR2	Hypocretin Receptor 2	Protein coding	45	GC06P055106	1.284265637	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HCRTR2
DNMT1	DNA Methyltransferase 1	Protein coding	51	GC19M010133	1.28310132	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DNMT1
JUNB	JunB Proto-Oncogene, AP-1 Transcription Factor Subunit	Protein coding	42	GC19P012791	1.281659365	https://www.genecards.org/cgi-bin/carddisp.pl?gene=JUNB
MIR30B	MicroRNA 30b	RNA gene	21	GC08M134800	1.279249668	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR30B
CDK6	Cyclin Dependent Kinase 6	Protein coding	53	GC07M092604	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDK6
FANCC	FA Complementation Group C	Protein coding	47	GC09M095099	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FANCC
CDKN2C	Cyclin Dependent Kinase Inhibitor 2C	Protein coding	45	GC01P050960	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDKN2C
LATS2	Large Tumor Suppressor Kinase 2	Protein coding	45	GC13M020973	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LATS2
LRAT	Lecithin Retinol Acyltransferase	Protein coding	45	GC04P154626	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LRAT
DAB1	DAB Adaptor Protein 1	Protein coding	44	GC01M056994	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DAB1
WNT2B	Wnt Family Member 2B	Protein coding	44	GC01P112466	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WNT2B
DGKG	Diacylglycerol Kinase γ	Protein coding	43	GC03M186105	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DGKG
RXFP2	Relaxin Family Peptide Receptor 2	Protein coding	43	GC13P031739	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RXFP2
RAD18	RAD18 E3 Ubiquitin Protein Ligase	Protein coding	42	GC03M008775	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAD18
TSHB	Thyroid Stimulating Hormone Subunit β	Protein coding	42	GC01P115029	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TSHB
PTPRG	Protein Tyrosine Phosphatase Receptor Type G	Protein coding	42	GC03P061561	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRG
COX7A2L	Cytochrome C Oxidase Subunit 7A2 Like	Protein coding	41	GC02M042312	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COX7A2L
CRYGS	Crystallin γ S	Protein coding	40	GC03M186538	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRYGS
SC5D	Sterol-C5-Desaturase	Protein coding	39	GC11P121292	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SC5D
EML4	EMAP Like 4	Protein coding	38	GC02P042169	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EML4
GATAD1	GATA Zinc Finger Domain Containing 1	Protein coding	38	GC07P092447	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GATAD1
KCNG3	Potassium Voltage-Gated Channel Modifier Subfamily G Member 3	Protein coding	38	GC02M042442	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNG3
TECTA	Tectorin α	Protein coding	38	GC11P121101	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TECTA
A1CF	APOBEC1 Complementation Factor	Protein coding	37	GC10M050799	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=A1CF
DDX31	DEAD-Box Helicase 31	Protein coding	37	GC09M132594	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DDX31
CGNL1	Cingulin Like 1	Protein coding	37	GC15P057375	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CGNL1
PPFIBP2	PPFIA Binding Protein 2	Protein coding	37	GC11P007491	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPFIBP2
TSPAN15	Tetraspanin 15	Protein coding	37	GC10P069451	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TSPAN15
ZNF354A	Zinc Finger Protein 354A	Protein coding	37	GC05M178711	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZNF354A
CNTNAP4	Contactin Associated Protein Family Member 4	Protein coding	36	GC16P076278	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CNTNAP4
NAALADL2	N-Acetylated α-Linked Acidic Dipeptidase Like 2	Protein coding	36	GC03P174438	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NAALADL2
TMEM14C	Transmembrane Protein 14C	Protein coding	36	GC06P010723	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TMEM14C
SYT9	Synaptotagmin 9	Protein coding	36	GC11P007238	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SYT9
LRCH1	Leucine Rich Repeats And Calponin Homology Domain Containing 1	Protein coding	35	GC13P046553	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LRCH1
DMRTA2	DMRT Like Family A2	Protein coding	34	GC01M050417	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DMRTA2
LHFPL3	LHFPL Tetraspan Subfamily Member 3	Protein coding	34	GC07P104328	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LHFPL3
PHACTR2	Phosphatase And Actin Regulator 2	Protein coding	34	GC06P143536	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PHACTR2
THUMPD3	THUMP Domain Containing 3	Protein coding	34	GC03P009362	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=THUMPD3
CACFD1	Calcium Channel Flower Domain Containing 1	Protein coding	33	GC09P133459	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CACFD1
SLC35F6	Solute Carrier Family 35 Member F6	Protein coding	33	GC02P026764	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC35F6
SRRM4	Serine/Arginine Repetitive Matrix 4	Protein coding	33	GC12P118981	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SRRM4
ZNF354B	Zinc Finger Protein 354B	Protein coding	33	GC05P178859	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZNF354B
ASPHD2	Aspartate β-Hydroxylase Domain Containing 2	Protein coding	32	GC22P026429	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ASPHD2
OLFML1	Olfactomedin Like 1	Protein coding	32	GC11P007485	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OLFML1
CIB4	Calcium And Integrin Binding Family Member 4	Protein coding	31	GC02M026573	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CIB4
LTV1	LTV1 Ribosome Biogenesis Factor	Protein coding	31	GC06P143843	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LTV1
FAM133B	Family With Sequence Similarity 133 Member B	Protein coding	30	GC07M092560	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FAM133B
ADTRP	Androgen Dependent TFPI Regulating Protein	Protein coding	29	GC06M011712	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADTRP
MRPL57	Mitochondrial Ribosomal Protein L57	Protein coding	29	GC13P021176	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MRPL57
ZNF354C	Zinc Finger Protein 354C	Protein coding	29	GC05P179060	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZNF354C
ZC2HC1B	Zinc Finger C2HC-Type Containing 1B	Protein coding	29	GC06P143865	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZC2HC1B
MEDAG	Mesenteric Estrogen Dependent Adipogenesis	Protein coding	27	GC13P030906	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MEDAG
FAM170B	Family With Sequence Similarity 170 Member B	Protein coding	26	GC10M049131	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FAM170B
TMEM170B	Transmembrane Protein 170B	Protein coding	26	GC06P011537	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TMEM170B
ZNF879	Zinc Finger Protein 879	Protein coding	25	GC05P179023	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZNF879
TEX26	Testis Expressed 26	Protein coding	24	GC13P030932	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TEX26
C1orf185	Chromosome 1 Open Reading Frame 185	Protein coding	23	GC01P051102	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=C1orf185
TMEM273	Transmembrane Protein 273	Protein coding	22	GC10M049155	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TMEM273
TRA	T Cell Receptor α Locus	Protein coding	19	GC14P021621	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRA
LINC00545	Long Intergenic Non-Protein Coding RNA 545	RNA gene	15	GC13P030830	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LINC00545
TEX26-AS1	TEX26 Antisense RNA 1	RNA gene	15	GC13M030881	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TEX26-AS1
LINC00462	Long Intergenic Non-Protein Coding RNA 462	RNA gene	14	GC13M048576	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LINC00462
FAM170B-AS1	FAM170B Antisense RNA 1	RNA gene	13	GC10P049121	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FAM170B-AS1
LINC00398	Long Intergenic Non-Protein Coding RNA 398	RNA gene	13	GC13P030803	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LINC00398
AACSP1	Acetoacetyl-CoA Synthetase Pseudogene 1	Pseudogene	12	GC05M178764	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AACSP1
CRYBB2P1	Crystallin β B2 Pseudogene 1	Pseudogene	12	GC22P025448	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRYBB2P1
LINC01435	Long Intergenic Non-Protein Coding RNA 1435	RNA gene	12	GC10M107694	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LINC01435
CDK6-AS1	CDK6 Antisense RNA 1	RNA gene	11	GC07P092837	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDK6-AS1
MIR548AD	MicroRNA 548ad	RNA gene	11	GC02P035516	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR548AD
MIPEPP3	Mitochondrial Intermediate Peptidase Pseudogene 3	Pseudogene	11	GC13P021298	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIPEPP3
MIR297	MicroRNA 297	RNA gene	11	GC04M110860	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR297
MIR3156-3	MicroRNA 3156-3	RNA gene	11	GC21M013406	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR3156-3
PHACTR2-AS1	PHACTR2 Antisense RNA 1	RNA gene	11	GC06M143555	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PHACTR2-AS1
LINC02052	Long Intergenic Non-Protein Coding RNA 2052	RNA gene	10	GC03M186455	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LINC02052

LINC01657	Long Intergenic Non-Protein Coding RNA 1657	RNA gene	9	GC01P175878	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LINC01657
TBCEL-TECTA	TBCEL-TECTA Readthrough	Protein coding	9	GC11P121026	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TBCEL-TECTA
SRGAP3-AS1	SRGAP3 Antisense RNA 1	RNA gene	9	GC03P009056	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SRGAP3-AS1
THRAP3P1	THRAP3 Pseudogene 1	Pseudogene	9	GC03P031452	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=THRAP3P1
LINC01765	Long Intergenic Non-Protein Coding RNA 1765	RNA gene	8	GC01P115101	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LINC01765
RPS3AP5	RPS3A Pseudogene 5	Pseudogene	8	GC10P084560	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPS3AP5
UBE2L2	Ubiquitin Conjugating Enzyme E2 L2 (Pseudogene)	Pseudogene	8	GC12M020449	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UBE2L2
RPS12P23	Ribosomal Protein S12 Pseudogene 23	Pseudogene	8	GC13M021094	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPS12P23
ENSG00000197099	Novel Transcript, Antisense To KNG1, HRG, FETUB, AHSG And DNAJB11	RNA gene	8	GC03M186580	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000197099
RNU6-667P	RNA, U6 Small Nuclear 667, Pseudogene	Pseudogene	7	GC15M079817	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNU6-667P
STARP1	Steroidogenic Acute Regulatory Protein Pseudogene 1	Pseudogene	7	GC13M065280	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STARP1
RN7SL363P	RNA, 7SL, Cytoplasmic 363, Pseudogene	Pseudogene	7	GC15M090855	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RN7SL363P
ENSG00000250999	Novel Transcript	Uncategorized	7	GC05P179657	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000250999
ENSG00000225378	Novel Transcript	RNA gene	7	GC02M026671	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000225378
ENSG00000266993	Novel Transcript, Antisense To NRD1	RNA gene	7	GC01P051793	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000266993
ESRRAP2	Estrogen-Related Receptor α Pseudogene 2	Pseudogene	6	GC13P021260	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ESRRAP2
GTF2IP2	General Transcription Factor IIi Pseudogene 2	Pseudogene	6	GC21M013443	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GTF2IP2
LGMNP1	Legumain Pseudogene 1	Pseudogene	6	GC13M064957	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LGMNP1
PPIAP22	Peptidylprolyl Isomerase A Pseudogene 22	Pseudogene	6	GC21P018857	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPIAP22
LOC105372028	Uncharacterized LOC105372028	RNA gene	6	GC18P024716	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC105372028
ENSG00000271897	Novel Transcript	RNA gene	6	GC06P011607	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000271897
BOLA3P1	BolA Family Member 3 Pseudogene 1	Pseudogene	5	GC11P102880	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BOLA3P1
GAPDHP50	Glyceraldehyde 3 Phosphate Dehydrogenase Pseudogene 50	Pseudogene	5	GC03M089097	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GAPDHP50
ICE2P2	Interactor Of Little Elongation Complex ELL Subunit 2 Pseudogene 2	Pseudogene	5	GC03P088948	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ICE2P2
RNU7-159P	RNA, U7 Small Nuclear 159 Pseudogene	Pseudogene	5	GC11M102903	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNU7-159P
RCN1P1	Reticulocalbin 1 Pseudogene 1	Pseudogene	5	GC06M087121	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RCN1P1
HSALNG0070397		RNA gene	5	GC09P022019	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0070397
ENSG00000287593	Novel Transcript, Antisense To ADTRP	RNA gene	5	GC06P011594	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000287593
lnc-ALDH1A2-9		RNA gene	5	GC15M068748	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-ALDH1A2-9
MIR378G-002		RNA gene	5	GC02M026696	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR378G-002
ENSG00000257065	Novel Protein	Protein coding	5	GC06P143807	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000257065
ATP5MC1P8	ATP Synthase Membrane Subunit C Locus 1 Pseudogene 8	Pseudogene	4	GC10P076837	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATP5MC1P8
NDUFB10P1	NADH:Ubiquinone Oxidoreductase Subunit B10 Pseudogene 1	Pseudogene	4	GC15M068744	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NDUFB10P1
HSALNG0006261		RNA gene	4	GC01M115116	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0006261
HSALNG0113824		RNA gene	4	GC17P001622	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0113824
lnc-ABO-33		RNA gene	4	GC09M133232	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-ABO-33
lnc-ZFP2-1		RNA gene	4	GC05P178680	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-ZFP2-1
lnc-FAM170B-1		RNA gene	4	GC10M049156	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-FAM170B-1
lnc-FURIN-3		RNA gene	4	GC15P090862	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-FURIN-3
lnc-MTAP-3		RNA gene	4	GC09P022103	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-MTAP-3
HSALNG0089738		RNA gene	4	GC12M020370	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0089738
HSALNG0096147		RNA gene	4	GC13P030865	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0096147
lnc-CDKN2C-1		RNA gene	4	GC01P050977	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-CDKN2C-1
lnc-FAM133B-2		RNA gene	4	GC07M092611	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-FAM133B-2
lnc-TMEM170B-5		RNA gene	4	GC06P011586	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-TMEM170B-5
RF00017-1273		RNA gene	4	GC13M030955	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RF00017-1273
NONHSAG020469.2		RNA gene	4	GC17P001621	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NONHSAG020469.2
RF00017-4863		RNA gene	4	GC06M011591	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RF00017-4863
MTND4P33	MT-ND4 Pseudogene 33	Pseudogene	3	GC14P084269	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MTND4P33
MIX23P2	MIX23 Pseudogene 2	Pseudogene	3	GC10M050972	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIX23P2
HSALNG0013736		RNA gene	3	GC02P026693	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0013736
HSALNG0003544		RNA gene	3	GC01M050975	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0003544
HSALNG0106222		RNA gene	3	GC15P058259	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0106222
HSALNG0108163		RNA gene	3	GC15P090863	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0108163
HSALNG0108164-001		RNA gene	3	GC15M090866	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0108164-001
lnc-COX7A2L-1		RNA gene	3	GC02M042365	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-COX7A2L-1
lnc-AQP9-4		RNA gene	3	GC15P058266	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-AQP9-4
HSALNG0048081		RNA gene	3	GC06M011624	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0048081
HSALNG0048080-001		RNA gene	3	GC06P011587	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0048080-001
HSALNG0108164-002		RNA gene	3	GC15M090871	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0108164-002
piR-44878-030		RNA gene	3	GC06M143741	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-44878-030
lnc-EML4-10		RNA gene	3	GC02P042361	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-EML4-10
lnc-FANCC-4		RNA gene	3	GC09M095443	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-FANCC-4
piR-45932-090		RNA gene	3	GC06P143802	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-45932-090
piR-59515-001		RNA gene	3	GC10M069488	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-59515-001
piR-59907-030		RNA gene	3	GC09M133272	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-59907-030
HSALNG0077864-002		RNA gene	3	GC10P049137	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0077864-002
lnc-CTTNBP2NL-4		RNA gene	3	GC01P112499	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-CTTNBP2NL-4
RF00017-5985		RNA gene	3	GC07P092604	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RF00017-5985
RF01016-016		RNA gene	3	GC07M092631	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RF01016-016
TARDBPP5	TARDBP Pseudogene 5	RNA gene	2	GC06M102407	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TARDBPP5

HSALNG0024006		RNA gene	2	GC03P009074	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0024006
HSALNG0123985		RNA gene	2	GC19M011062	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0123985
HSALNG0113827		RNA gene	2	GC17M001672	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0113827
piR-40216-002		RNA gene	2	GC05M178792	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-40216-002
piR-51980		RNA gene	2	GC17M001768	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-51980
lnc-KRTAP12-4-1		RNA gene	2	GC21M048707	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-KRTAP12-4-1
piR-39341-075		RNA gene	2	GC11P121176	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-39341-075
piR-49334		RNA gene	2	GC05M178789	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-49334
piR-58579		RNA gene	2	GC02M042388	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-58579
piR-31534-476		RNA gene	2	GC03M009085	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-31534-476
HSALNG0003920		RNA gene	1	GC01P058266	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0003920
HSALNG0003921		RNA gene	1	GC01M058275	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0003921
HSALNG0003922		RNA gene	1	GC01P058320	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0003922
HSALNG0123953		RNA gene	1	GC19P010683	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0123953
piR-45012-007		RNA gene	1	GC01P058274	1.278913736	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-45012-007
DDIT3	DNA Damage Inducible Transcript 3	Protein coding	45	GC12M057516	1.277679205	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DDIT3
TNKS	Tankyrase	Protein coding	44	GC08P009555	1.275541782	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNKS
KLF15	Kruppel Like Factor 15	Protein coding	41	GC03M126293	1.274571538	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KLF15
CPT1A	Carnitine Palmitoyltransferase 1A	Protein coding	49	GC11M068754	1.274211287	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CPT1A
RFC1	Replication Factor C Subunit 1	Protein coding	47	GC04M039291	1.273358226	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RFC1
ERCC1	ERCC Excision Repair 1, Endonuclease Non-Catalytic Subunit	Protein coding	45	GC19M048721	1.273358226	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ERCC1
LPAR3	Lysophosphatidic Acid Receptor 3	Protein coding	44	GC01M084811	1.273358226	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LPAR3
RAN	RAN, Member RAS Oncogene Family	Protein coding	44	GC12P130871	1.273358226	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAN
ICMT	Isoprenylcysteine Carboxyl Methyltransferase	Protein coding	42	GC01M006222	1.273358226	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ICMT
TWIST2	Twist Family BHLH Transcription Factor 2	Protein coding	42	GC02P238848	1.273358226	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TWIST2
UBA7	Ubiquitin Like Modifier Activating Enzyme 7	Protein coding	42	GC03M049805	1.273358226	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UBA7
NUP153	Nucleoporin 153	Protein coding	40	GC06M017615	1.273358226	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NUP153
NAT10	N-Acetyltransferase 10	Protein coding	40	GC11P034105	1.273358226	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NAT10
CLMP	CXADR Like Membrane Protein	Protein coding	38	GC11M123069	1.273358226	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CLMP
RCE1	Ras Converting CAAX Endopeptidase 1	Protein coding	38	GC11P066842	1.273358226	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RCE1
SYNE3	Spectrin Repeat Containing Nuclear Envelope Family Member 3	Protein coding	35	GC14M096494	1.273358226	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SYNE3
SLC5A6	Solute Carrier Family 5 Member 6	Protein coding	47	GC02M027201	1.272475958	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC5A6
CD200	CD200 Molecule	Protein coding	38	GC03P112332	1.271196485	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD200
LY96	Lymphocyte Antigen 96	Protein coding	41	GC08P073991	1.26942873	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LY96
CAVIN2	Caveolae Associated Protein 2	Protein coding	30	GC02M191835	1.26942873	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAVIN2
MMP14	Matrix Metallopeptidase 14	Protein coding	51	GC14P026861	1.269178748	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMP14
GCGR	Glucagon Receptor	Protein coding	47	GC17P081804	1.269149542	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GCGR
DRD3	Dopamine Receptor D3	Protein coding	45	GC03M114128	1.269149542	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DRD3
MIR423	MicroRNA 423	RNA gene	18	GC17P030117	1.269149542	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR423
FAAH	Fatty Acid Amide Hydrolase	Protein coding	48	GC01P046394	1.26869297	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FAAH
PPP1R12A	Protein Phosphatase 1 Regulatory Subunit 12A	Protein coding	44	GC12M079773	1.268661618	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPP1R12A
NOL3	Nucleolar Protein 3	Protein coding	43	GC16P067188	1.268629313	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NOL3
BNIP3	BCL2 Interacting Protein 3	Protein coding	42	GC10M131966	1.267450213	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BNIP3
ELAVL1	ELAV Like RNA Binding Protein 1	Protein coding	42	GC19M007958	1.267139196	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ELAVL1
MADD	MAP Kinase Activating Death Domain	Protein coding	43	GC11P047290	1.264904022	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MADD
IGFBP4	Insulin Like Growth Factor Binding Protein 4	Protein coding	42	GC17P040443	1.264904022	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IGFBP4
DOCK7	Dedicator Of Cytokinesis 7	Protein coding	41	GC01M062454	1.264904022	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DOCK7
IL17RC	Interleukin 17 Receptor C	Protein coding	40	GC03P009917	1.264904022	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL17RC
BCO2	β-Carotene Oxygenase 2	Protein coding	36	GC11P112175	1.264904022	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BCO2
MIR4669	MicroRNA 4669	RNA gene	10	GC09P134381	1.264904022	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR4669
SLC24A3	Solute Carrier Family 24 Member 3	Protein coding	39	GC20P019212	1.262563825	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC24A3
OPCML	Opioid Binding Protein/Cell Adhesion Molecule Like	Protein coding	42	GC11M132405	1.262547612	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OPCML
FABP7	Fatty Acid Binding Protein 7	Protein coding	42	GC06P122768	1.258103251	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FABP7
INF2	Inverted Formin 2	Protein coding	40	GC14P106548	1.257042527	https://www.genecards.org/cgi-bin/carddisp.pl?gene=INF2
AQP2	Aquaporin 2	Protein coding	47	GC12P049950	1.256199837	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AQP2
STK39	Serine/Threonine Kinase 39	Protein coding	44	GC02M167954	1.256199837	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STK39
ARNTL	Aryl Hydrocarbon Receptor Nuclear Translocator Like	Protein coding	43	GC11P013276	1.256199837	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARNTL
MIR222	MicroRNA 222	RNA gene	22	GC0XM045747	1.256199837	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR222
KLHL3	Kelch Like Family Member 3	Protein coding	42	GC05M137617	1.255930424	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KLHL3
CRABP1	Cellular Retinoic Acid Binding Protein 1	Protein coding	41	GC15P078340	1.252113819	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRABP1
TRIM31	Tripartite Motif Containing 31	Protein coding	38	GC06M049019	1.252113819	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRIM31
UBE2W	Ubiquitin Conjugating Enzyme E2 W	Protein coding	38	GC08M073780	1.252113819	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UBE2W
ZXDC	ZXD Family Zinc Finger C	Protein coding	35	GC03M126437	1.252113819	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZXDC
C6orf58	Chromosome 6 Open Reading Frame 58	Protein coding	34	GC06P127519	1.252113819	https://www.genecards.org/cgi-bin/carddisp.pl?gene=C6orf58
ANKRD13D	Ankyrin Repeat Domain 13D	Protein coding	34	GC11P067288	1.252113819	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANKRD13D
FGFBP2	Fibroblast Growth Factor Binding Protein 2	Protein coding	33	GC04M015961	1.252113819	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGFBP2
KHDC1	KH Domain Containing 1	Protein coding	33	GC06M073241	1.252113819	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KHDC1
CCER2	Coiled-Coil Glutamate Rich Protein 2	Protein coding	22	GC19M038908	1.252113819	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCER2
CEP295NL	CEP295 N-Terminal Like	Protein coding	22	GC17M078870	1.252113819	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CEP295NL
DEFB133	Defensin β 133 (Pseudogene)	Pseudogene	19	GC06M049946	1.252113819	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DEFB133
LINC00316	Long Intergenic Non-Protein Coding RNA 316	RNA gene	15	GC21M045338	1.252113819	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LINC00316
MIR124-2HG	MIR124-2 Host Gene	RNA gene	15	GC08P064373	1.252113819	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR124-2HG
MIR3679	MicroRNA 3679	RNA gene	15	GC02P134127	1.252113819	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR3679
LINC00351	Long Intergenic Non-Protein Coding RNA 351	RNA gene	13	GC13P085363	1.252113819	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LINC00351
MIR6165	MicroRNA 6165	RNA gene	9	GC17P049510	1.252113819	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR6165
MFN1	Mitofusin 1	Protein coding	42	GC03P179347	1.251187563	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MFN1

SLK	STE20 Like Kinase	Protein coding	44	GC10P103967	1.250617981	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLK
CACNA1S	Calcium Voltage-Gated Channel Subunit α1 S	Protein coding	48	GC01M201008	1.248311281	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CACNA1S
TBX1	T-Box Transcription Factor 1	Protein coding	43	GC22P020283	1.246402025	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TBX1
PCDH7	Protocadherin 7	Protein coding	39	GC04P030722	1.242056131	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PCDH7
NT5C1B	5'-Nucleotidase, Cytosolic IB	Protein coding	38	GC02M018562	1.242056131	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NT5C1B
ABAT	4-Aminobutyrate Aminotransferase	Protein coding	45	GC16P008674	1.240763903	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABAT
SVIL	Supervillin	Protein coding	41	GC10M031319	1.238678575	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SVIL
LNPEP	Leucyl And Cystinyl Aminopeptidase	Protein coding	45	GC05P096935	1.237206101	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LNPEP
CCL4	C-C Motif Chemokine Ligand 4	Protein coding	40	GC17P036103	1.236773849	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCL4
GNS	Glucosamine (N-Acetyl)-6-Sulfatase	Protein coding	44	GC12M064713	1.236320376	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GNS
PEX16	Peroxisomal Biogenesis Factor 16	Protein coding	38	GC11M071209	1.236320376	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PEX16
PAGR1	PAXIP1 Associated Glutamate Rich Protein 1	Protein coding	33	GC16P033389	1.236320376	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PAGR1
ATL1	Atlastin GTPase 1	Protein coding	41	GC14P050532	1.235634446	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATL1
PAH	Phenylalanine Hydroxylase	Protein coding	49	GC12M102836	1.233971238	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PAH
TRIM21	Tripartite Motif Containing 21	Protein coding	41	GC11M004384	1.233971238	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRIM21
CEACAM1	CEA Cell Adhesion Molecule 1	Protein coding	42	GC19M042507	1.229759932	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CEACAM1
CCL26	C-C Motif Chemokine Ligand 26	Protein coding	37	GC07M075769	1.228446245	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCL26
IRF2BP2	Interferon Regulatory Factor 2 Binding Protein 2	Protein coding	36	GC01M234604	1.226211905	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IRF2BP2
MMADHC	Metabolism Of Cobalamin Associated D	Protein coding	42	GC02M149569	1.225909829	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMADHC
MIR26B	MicroRNA 26b	RNA gene	22	GC02P218402	1.224256158	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR26B
AVPR2	Arginine Vasopressin Receptor 2	Protein coding	48	GC0XP153902	1.223898649	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AVPR2
TACR1	Tachykinin Receptor 1	Protein coding	46	GC02M075010	1.223898649	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TACR1
TBL3	Transducin β Like 3	Protein coding	39	GC16P006182	1.220353484	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TBL3
GPR135	G Protein-Coupled Receptor 135	Protein coding	36	GC14M059429	1.220353484	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPR135
SLC12A3	Solute Carrier Family 12 Member 3	Protein coding	46	GC16P056865	1.219975233	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC12A3
P2RX3	Purinergic Receptor P2X 3	Protein coding	42	GC11P057356	1.219975233	https://www.genecards.org/cgi-bin/carddisp.pl?gene=P2RX3
ATP1A4	ATPase Na+/K+ Transporting Subunit α 4	Protein coding	41	GC01P160151	1.219975233	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATP1A4
DDR2	Discoidin Domain Receptor Tyrosine Kinase 2	Protein coding	50	GC01P162631	1.218797207	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DDR2
FLRT2	Fibronectin Leucine Rich Transmembrane Protein 2	Protein coding	38	GC14P085527	1.218797207	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FLRT2
RP1	RP1 Axonemal Microtubule Associated	Protein coding	37	GC08P054555	1.218797207	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RP1
AGBL1	AGBL Carboxypeptidase 1	Protein coding	36	GC15P086141	1.218797207	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGBL1
VLDLR	Very Low Density Lipoprotein Receptor	Protein coding	50	GC09P002611	1.217455029	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VLDLR
HLA-DPB1	Major Histocompatibility Complex, Class II, DP β 1	Protein coding	44	GC06P058347	1.21677506	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HLA-DPB1
RELB	RELB Proto-Oncogene, NF-KB Subunit	Protein coding	45	GC19P045002	1.215018511	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RELB
G6PC1	Glucose-6-Phosphatase Catalytic Subunit 1	Protein coding	36	GC17P045036	1.209553003	https://www.genecards.org/cgi-bin/carddisp.pl?gene=G6PC1
KCNK2	Potassium Two Pore Domain Channel Subfamily K Member 2	Protein coding	40	GC01P215005	1.209185123	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNK2
RIPK3	Receptor Interacting Serine/Threonine Kinase 3	Protein coding	43	GC14M024336	1.208637238	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RIPK3
TOP1	DNA Topoisomerase I	Protein coding	48	GC20P041028	1.208393097	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TOP1
ARSB	Arylsulfatase B	Protein coding	44	GC05M078777	1.207242727	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARSB
ADD3	Adducin 3	Protein coding	43	GC10P109996	1.205166578	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADD3
CSPG4	Chondroitin Sulfate Proteoglycan 4	Protein coding	44	GC15M075674	1.204517961	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSPG4
RECK	Reversion Inducing Cysteine Rich Protein With Kazal Motifs	Protein coding	41	GC09P036036	1.202026367	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RECK
CSTA	Cystatin A	Protein coding	43	GC03P122325	1.200320244	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSTA
CST6	Cystatin E/M	Protein coding	39	GC11P066877	1.200320244	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CST6
CST5	Cystatin D	Protein coding	38	GC20M023875	1.200320244	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CST5
CST7	Cystatin F	Protein coding	37	GC20P024949	1.200320244	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CST7
CST4	Cystatin S	Protein coding	36	GC20M023685	1.200320244	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CST4
CRLS1	Cardiolipin Synthase 1	Protein coding	39	GC20P006005	1.200178385	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRLS1
FIP1L1	Factor Interacting With PAPOLA And CPSF1	Protein coding	39	GC04P053398	1.197971106	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FIP1L1
TSPAN16	Tetraspanin 16	Protein coding	31	GC19P011296	1.197971106	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TSPAN16
EIF4A2	Eukaryotic Translation Initiation Factor 4A2	Protein coding	45	GC03P186783	1.19726181	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EIF4A2
PTGER3	Prostaglandin E Receptor 3	Protein coding	47	GC01M070852	1.195242167	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTGER3
RCAN1	Regulator Of Calcineurin 1	Protein coding	43	GC21M034513	1.195037246	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RCAN1
INPP5D	Inositol Polyphosphate-5-Phosphatase D	Protein coding	45	GC02P233059	1.191970825	https://www.genecards.org/cgi-bin/carddisp.pl?gene=INPP5D
PDIA2	Protein Disulfide Isomerase Family A Member 2	Protein coding	38	GC16P006109	1.191293716	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDIA2
MAPK13	Mitogen-Activated Protein Kinase 13	Protein coding	47	GC06P058452	1.191207647	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAPK13
TPM4	Tropomyosin 4	Protein coding	40	GC19P027745	1.191207647	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TPM4
SLC35F3	Solute Carrier Family 35 Member F3	Protein coding	34	GC01P233904	1.191207647	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC35F3
FLVCR1	FLVCR Heme Transporter 1	Protein coding	40	GC01P212858	1.191030979	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FLVCR1
SLC25A38	Solute Carrier Family 25 Member 38	Protein coding	38	GC03P039573	1.191030979	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC25A38
NR4A1	Nuclear Receptor Subfamily 4 Group A Member 1	Protein coding	47	GC12P052022	1.189863682	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NR4A1
RO60	Ro60, Y RNA Binding Protein	Protein coding	30	GC01P193059	1.187574148	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RO60
SCN4A	Sodium Voltage-Gated Channel α Subunit 4	Protein coding	44	GC17M063938	1.18617022	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCN4A
MED23	Mediator Complex Subunit 23	Protein coding	42	GC06M131573	1.18417263	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MED23
GNAI1	G Protein Subunit α I1	Protein coding	47	GC07P079769	1.184007168	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GNAI1
NOX5	NADPH Oxidase 5	Protein coding	38	GC15P078993	1.183631182	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NOX5
TRPM8	Transient Receptor Potential Cation Channel Subfamily M Member 8	Protein coding	44	GC02P233917	1.181889296	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRPM8
MIR23B	MicroRNA 23b	RNA gene	20	GC09P095085	1.181889296	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR23B
BCKDHB	Branched Chain Keto Acid Dehydrogenase E1 Subunit β	Protein coding	43	GC06P080106	1.181852937	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BCKDHB
CACNA1H	Calcium Voltage-Gated Channel Subunit α1 H	Protein coding	50	GC16P001153	1.177577019	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CACNA1H
GRK4	G Protein-Coupled Receptor Kinase 4	Protein coding	43	GC04P002963	1.177577019	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRK4
ADD2	Adducin 2	Protein coding	41	GC02M070626	1.177577019	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADD2
CD44	CD44 Molecule (Indian Blood Group)	Protein coding	47	GC11P035139	1.173841715	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD44
MAP1LC3A	Microtubule Associated Protein 1 Light Chain 3 α	Protein coding	43	GC20P034546	1.173819542	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP1LC3A
VCL	Vinculin	Protein coding	47	GC10P073995	1.172178507	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VCL
HOXD13	Homeobox D13	Protein coding	41	GC02P176092	1.171084762	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HOXD13

HTR1B	5-Hydroxytryptamine Receptor 1B	Protein coding	45	GC06M077478	1.169554472	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HTR1B
OGA	O-GlcNAcase	Protein coding	32	GC10M101785	1.169396162	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OGA
ARTN	Artemin	Protein coding	39	GC01P043933	1.168955922	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARTN
SLC25A14	Solute Carrier Family 25 Member 14	Protein coding	40	GC0XP130339	1.164860129	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC25A14
TXNIP	Thioredoxin Interacting Protein	Protein coding	37	GC01M145992	1.163233519	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TXNIP
SEPTIN9	Septin 9	Protein coding	35	GC17P077282	1.162933946	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SEPTIN9
LARGE2	LARGE Xylosyl- And Glucuronyltransferase 2	Protein coding	28	GC11P046145	1.162933946	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LARGE2
CCL20	C-C Motif Chemokine Ligand 20	Protein coding	43	GC02P227820	1.162274361	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCL20
MIR216A	MicroRNA 216a	RNA gene	20	GC02M055988	1.161774397	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR216A
ADAM12	ADAM Metallopeptidase Domain 12	Protein coding	44	GC10M126012	1.159970045	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADAM12
SFN	Stratifin	Protein coding	45	GC01P026940	1.159533501	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SFN
COL14A1	Collagen Type XIV α 1 Chain	Protein coding	42	GC08P120073	1.159533501	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COL14A1
ADAMTS3	ADAM Metallopeptidase With Thrombospondin Type 1 Motif 3	Protein coding	41	GC04M072280	1.159533501	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADAMTS3
AIM2	Absent In Melanoma 2	Protein coding	42	GC01M159062	1.159130692	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AIM2
ARNT2	Aryl Hydrocarbon Receptor Nuclear Translocator 2	Protein coding	44	GC15P080404	1.155252457	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARNT2
KCNK1	Potassium Two Pore Domain Channel Subfamily K Member 1	Protein coding	43	GC01P233614	1.155252457	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNK1
SLC14A2	Solute Carrier Family 14 Member 2	Protein coding	41	GC18P045167	1.155252457	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC14A2
NDUFV3	NADH:Ubiquinone Oxidoreductase Subunit V3	Protein coding	40	GC21P042879	1.155252457	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NDUFV3
IRX1	Iroquois Homeobox 1	Protein coding	38	GC05P003596	1.155252457	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IRX1
TMX1	Thioredoxin Related Transmembrane Protein 1	Protein coding	38	GC14P051240	1.155252457	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TMX1
STARD3NL	STARD3 N-Terminal Like	Protein coding	37	GC07P038218	1.155252457	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STARD3NL
PF4V1	Platelet Factor 4 Variant 1	Protein coding	37	GC04P073853	1.155252457	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PF4V1
CCDC39	Coiled-Coil Domain Containing 39	Protein coding	36	GC03M180602	1.155252457	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCDC39
CHORDC1	Cysteine And Histidine Rich Domain Containing 1	Protein coding	36	GC11M090200	1.155252457	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHORDC1
AJAP1	Adherens Junctions Associated Protein 1	Protein coding	33	GC01P004654	1.155252457	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AJAP1
RPL7P45	Ribosomal Protein L7 Pseudogene 45	Pseudogene	6	GC13P104814	1.155252457	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPL7P45
PYY	Peptide YY	Protein coding	43	GC17M043952	1.153898835	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PYY
CAMKK2	Calcium/Calmodulin Dependent Protein Kinase Kinase 2	Protein coding	47	GC12M121608	1.153456092	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAMKK2
HLCS	Holocarboxylase Synthetase	Protein coding	43	GC21M036750	1.149623752	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HLCS
SMTN	Smoothelin	Protein coding	38	GC22P031167	1.14712739	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMTN
RHOD	Ras Homolog Family Member D	Protein coding	39	GC11P067069	1.146444201	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RHOD
PPP1CA	Protein Phosphatase 1 Catalytic Subunit α	Protein coding	48	GC11M071828	1.145962	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPP1CA
NCF2	Neutrophil Cytosolic Factor 2	Protein coding	47	GC01M183555	1.145902753	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NCF2
TPH1	Tryptophan Hydroxylase 1	Protein coding	44	GC11M018040	1.145902753	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TPH1
DUOX2	Dual Oxidase 2	Protein coding	43	GC15M045092	1.145902753	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DUOX2
RENBP	Renin Binding Protein	Protein coding	41	GC0XM153935	1.145902753	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RENBP
BSG	Basigin (Ok Blood Group)	Protein coding	43	GC19P000571	1.14367044	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BSG
GNRH1	Gonadotropin Releasing Hormone 1	Protein coding	41	GC08M025419	1.143300533	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GNRH1
NAIP	NLR Family Apoptosis Inhibitory Protein	Protein coding	40	GC05M070968	1.142256737	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NAIP
TRPC5	Transient Receptor Potential Cation Channel Subfamily C Member 5	Protein coding	41	GC0XM111774	1.141621828	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRPC5
EGFL7	EGF Like Domain Multiple 7	Protein coding	40	GC09P136658	1.139551163	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EGFL7
ANKH	ANKH Inorganic Pyrophosphate Transport Regulator	Protein coding	41	GC05M014706	1.139106154	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANKH
ERBB2	Erb-B2 Receptor Tyrosine Kinase 2	Protein coding	53	GC17P039687	1.134353161	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ERBB2
QRSL1	Glutaminyl-TRNA Amidotransferase Subunit QRSL1	Protein coding	40	GC06P106629	1.133800983	https://www.genecards.org/cgi-bin/carddisp.pl?gene=QRSL1
MAF	MAF BZIP Transcription Factor	Protein coding	45	GC16M079204	1.133171558	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAF
CLCNKB	Chloride Voltage-Gated Channel Kb	Protein coding	44	GC01P016043	1.133171558	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CLCNKB
PRSS8	Serine Protease 8	Protein coding	44	GC16M031822	1.133171558	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRSS8
KLK4	Kallikrein Related Peptidase 4	Protein coding	42	GC19M050957	1.133171558	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KLK4
GAS5	Growth Arrest Specific 5	RNA gene	23	GC01M173947	1.133171558	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GAS5
MIR590	MicroRNA 590	RNA gene	19	GC07P074191	1.133171558	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR590
MIR296	MicroRNA 296	RNA gene	18	GC20M058817	1.133171558	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR296
MIR92B	MicroRNA 92b	RNA gene	17	GC01P155195	1.133171558	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR92B
MIR20A	MicroRNA 20a	RNA gene	20	GC13P091472	1.132478595	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR20A
KEAP1	Kelch Like ECH Associated Protein 1	Protein coding	48	GC19M010486	1.130882382	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KEAP1
CANX	Calnexin	Protein coding	44	GC05P179678	1.129682302	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CANX
FLOT1	Flotillin 1	Protein coding	41	GC06M049044	1.12947011	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FLOT1
ISL1	ISL LIM Homeobox 1	Protein coding	46	GC05P051383	1.126309395	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ISL1
PEA15	Proliferation And Apoptosis Adaptor Protein 15	Protein coding	43	GC01P160205	1.124965906	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PEA15
PDE3B	Phosphodiesterase 3B	Protein coding	44	GC11P014643	1.123605251	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDE3B
IKBKG	Inhibitor Of Nuclear Factor κ B Kinase Regulatory Subunit γ	Protein coding	48	GC0XP154541	1.123007774	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IKBKG
ATF2	Activating Transcription Factor 2	Protein coding	46	GC02M175072	1.120501757	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATF2
SERPINF1	Serpin Family F Member 1	Protein coding	44	GC17P001761	1.112274885	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPINF1
PLA2G10	Phospholipase A2 Group X	Protein coding	43	GC16M014672	1.109012246	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLA2G10
ADM2	Adrenomedullin 2	Protein coding	34	GC22P050481	1.107417583	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADM2
PRDX5	Peroxiredoxin 5	Protein coding	45	GC11P064317	1.105743051	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRDX5
SCG2	Secretogranin II	Protein coding	39	GC02M223596	1.105331063	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCG2
TLR6	Toll Like Receptor 6	Protein coding	43	GC04M038828	1.101300478	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TLR6
STIP1	Stress Induced Phosphoprotein 1	Protein coding	44	GC11P064204	1.100668192	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STIP1
CALB2	Calbindin 2	Protein coding	40	GC16P071392	1.098371387	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CALB2
RPS6KA1	Ribosomal Protein S6 Kinase A1	Protein coding	50	GC01P026540	1.096489668	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPS6KA1
ACADSB	Acyl-CoA Dehydrogenase Short/Branched Chain	Protein coding	46	GC10P123008	1.096489668	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACADSB
BCKDK	Branched Chain Keto Acid Dehydrogenase Kinase	Protein coding	46	GC16P033514	1.096489668	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BCKDK
TFAP2B	Transcription Factor AP-2 β	Protein coding	44	GC06P058577	1.096489668	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TFAP2B
FBL	Fibrillarin	Protein coding	43	GC19M039834	1.096489668	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FBL
HIBCH	3-Hydroxyisobutyryl-CoA Hydrolase	Protein coding	43	GC02M190189	1.096489668	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HIBCH
HTRA2	HtrA Serine Peptidase 2	Protein coding	46	GC02P074529	1.096278906	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HTRA2

FKBP1A	FKBP Prolyl Isomerase 1A	Protein coding	45	GC20M001369	1.09601593	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FKBP1A
UTS2R	Urotensin 2 Receptor	Protein coding	42	GC17P082374	1.095595837	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UTS2R
ADRA1D	Adrenoceptor α 1D	Protein coding	46	GC20M004220	1.09508574	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADRA1D
SLC22A12	Solute Carrier Family 22 Member 12	Protein coding	44	GC11P064609	1.09508574	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC22A12
SCN11A	Sodium Voltage-Gated Channel α Subunit 11	Protein coding	41	GC03M038862	1.09508574	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCN11A
LIPN	Lipase Family Member N	Protein coding	36	GC10P088760	1.09508574	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LIPN
MIR520A	MicroRNA 520a	RNA gene	18	GC19P053690	1.09508574	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR520A
CBSL	Cystathionine β-Synthase Like	Protein coding	14	GC21M006445	1.09508574	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CBSL
TRAP1	TNF Receptor Associated Protein 1	Protein coding	43	GC16M004000	1.095022082	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRAP1
GCDH	Glutaryl-CoA Dehydrogenase	Protein coding	46	GC19P012891	1.094780922	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GCDH
CACNB4	Calcium Voltage-Gated Channel Auxiliary Subunit β 4	Protein coding	46	GC02M151832	1.094696283	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CACNB4
KCNA1	Potassium Voltage-Gated Channel Subfamily A Member 1	Protein coding	45	GC12P013111	1.094696283	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNA1
CYP27B1	Cytochrome P450 Family 27 Subfamily B Member 1	Protein coding	47	GC12M057757	1.090354204	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP27B1
EPHX1	Epoxide Hydrolase 1	Protein coding	46	GC01P225810	1.089499593	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPHX1
FAIM2	Fas Apoptotic Inhibitory Molecule 2	Protein coding	36	GC12M049866	1.088947892	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FAIM2
HADHB	Hydroxyacyl-CoA Dehydrogenase Trifunctional Multienzyme Complex Subunit β	Protein coding	47	GC02P026243	1.087848306	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HADHB
STC1	Stanniocalcin 1	Protein coding	40	GC08M023841	1.087613583	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STC1
PLOD2	Procollagen-Lysine,2-Oxoglutarate 5-Dioxygenase 2	Protein coding	45	GC03M146069	1.086079121	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLOD2
MCEE	Methylmalonyl-CoA Epimerase	Protein coding	42	GC02M071110	1.086079121	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MCEE
SLC2A13	Solute Carrier Family 2 Member 13	Protein coding	41	GC12M039755	1.086079121	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC2A13
ABCB11	ATP Binding Cassette Subfamily B Member 11	Protein coding	46	GC02M168922	1.080634713	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCB11
OXTR	Oxytocin Receptor	Protein coding	46	GC03M008767	1.077993512	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OXTR
SLC7A7	Solute Carrier Family 7 Member 7	Protein coding	46	GC14M022773	1.076603293	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC7A7
ANK1	Ankyrin 1	Protein coding	43	GC08M041653	1.076006413	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANK1
IDUA	α-L-Iduronidase	Protein coding	43	GC04P000986	1.073258638	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IDUA
MGAM	Maltase-Glucoamylase	Protein coding	41	GC07P146237	1.073258638	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MGAM
SIK2	Salt Inducible Kinase 2	Protein coding	44	GC11P111640	1.071369529	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SIK2
DUSP19	Dual Specificity Phosphatase 19	Protein coding	38	GC02P183078	1.070658445	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DUSP19
SEMA3E	Semaphorin 3E	Protein coding	43	GC07M083363	1.069352627	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SEMA3E
KAT2B	Lysine Acetyltransferase 2B	Protein coding	48	GC03P020043	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KAT2B
PLCB4	Phospholipase C β 4	Protein coding	47	GC20P009024	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLCB4
DDX6	DEAD-Box Helicase 6	Protein coding	46	GC11M118748	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DDX6
WEE1	WEE1 G2 Checkpoint Kinase	Protein coding	46	GC11P009573	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WEE1
FZD1	Frizzled Class Receptor 1	Protein coding	45	GC07P091264	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FZD1
PIK3C2G	Phosphatidylinositol-4-Phosphate 3-Kinase Catalytic Subunit Type 2 γ	Protein coding	45	GC12P018242	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIK3C2G
RHAG	Rh Associated Glycoprotein	Protein coding	45	GC06M049605	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RHAG
DHX38	DEAH-Box Helicase 38	Protein coding	44	GC16P072127	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DHX38
SLC36A2	Solute Carrier Family 36 Member 2	Protein coding	44	GC05M151309	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC36A2
STK38	Serine/Threonine Kinase 38	Protein coding	44	GC06M036493	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STK38
SLC14A1	Solute Carrier Family 14 Member 1 (Kidd Blood Group)	Protein coding	44	GC18P045687	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC14A1
TNFRSF21	TNF Receptor Superfamily Member 21	Protein coding	44	GC06M047231	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFRSF21
ATP6V1G3	ATPase H+ Transporting V1 Subunit G3	Protein coding	43	GC01M198492	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATP6V1G3
EIF4A3	Eukaryotic Translation Initiation Factor 4A3	Protein coding	43	GC17M080135	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EIF4A3
GDA	Guanine Deaminase	Protein coding	43	GC09P072114	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GDA
PDE9A	Phosphodiesterase 9A	Protein coding	43	GC21P042653	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDE9A
SFRP4	Secreted Frizzled Related Protein 4	Protein coding	43	GC07M037912	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SFRP4
PTPRT	Protein Tyrosine Phosphatase Receptor Type T	Protein coding	43	GC20M042072	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRT
UAP1	UDP-N-Acetylglucosamine Pyrophosphorylase 1	Protein coding	43	GC01P162561	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UAP1
AKAP8	A-Kinase Anchoring Protein 8	Protein coding	41	GC19M015354	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKAP8
CYTH1	Cytohesin 1	Protein coding	41	GC17M078674	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYTH1
ARCN1	Archain 1	Protein coding	41	GC11P118572	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARCN1
CPD	Carboxypeptidase D	Protein coding	41	GC17P030378	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CPD
EED	Embryonic Ectoderm Development	Protein coding	41	GC11P086244	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EED
PSMB3	Proteasome 20S Subunit β 3	Protein coding	41	GC17P038752	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSMB3
KCNS3	Potassium Voltage-Gated Channel Modifier Subfamily S Member 3	Protein coding	41	GC02P017877	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNS3
RFC4	Replication Factor C Subunit 4	Protein coding	41	GC03M186789	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RFC4
RNF8	Ring Finger Protein 8	Protein coding	41	GC06P058470	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNF8
WNT9B	Wnt Family Member 9B	Protein coding	41	GC17P046833	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WNT9B
CRISP2	Cysteine Rich Secretory Protein 2	Protein coding	40	GC06M050424	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRISP2
GDI2	GDP Dissociation Inhibitor 2	Protein coding	40	GC10M005765	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GDI2
POP1	POP1 Homolog, Ribonuclease P/MRP Subunit	Protein coding	40	GC08P098117	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=POP1
MKRN1	Makorin Ring Finger Protein 1	Protein coding	40	GC07M140453	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MKRN1
NCAM2	Neural Cell Adhesion Molecule 2	Protein coding	40	GC21P020998	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NCAM2
USP28	Ubiquitin Specific Peptidase 28	Protein coding	40	GC11M113797	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=USP28
RPH3A	Rabphilin 3A	Protein coding	40	GC12P112570	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPH3A
SWAP70	Switching B Cell Complex Subunit SWAP70	Protein coding	40	GC11P009664	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SWAP70
AMBN	Ameloblastin	Protein coding	39	GC04P070593	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AMBN
CXCL6	C-X-C Motif Chemokine Ligand 6	Protein coding	39	GC04P073837	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXCL6
FRMD6	FERM Domain Containing 6	Protein coding	39	GC14P051489	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FRMD6
NPLOC4	NPL4 Homolog, Ubiquitin Recognition Factor	Protein coding	39	GC17M081556	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPLOC4
PLCH2	Phospholipase C Eta 2	Protein coding	39	GC01P002421	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLCH2
ZNF143	Zinc Finger Protein 143	Protein coding	39	GC11P009483	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZNF143
DEFA5	Defensin α 5	Protein coding	38	GC08M007057	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DEFA5
FCRL5	Fc Receptor Like 5	Protein coding	38	GC01M157514	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FCRL5
ENAM	Enamelin	Protein coding	38	GC04P070628	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENAM
HOXD8	Homeobox D8	Protein coding	38	GC02P176129	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HOXD8

HMGN2	High Mobility Group Nucleosomal Binding Domain 2	Protein coding	38	GC01P026473	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HMGN2
FOXP4	Forkhead Box P4	Protein coding	38	GC06P058496	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FOXP4
NAALAD2	N-Acetylated α-Linked Acidic Dipeptidase 2	Protein coding	38	GC11P090131	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NAALAD2
NLRP5	NLR Family Pyrin Domain Containing 5	Protein coding	38	GC19P057072	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NLRP5
MYRIP	Myosin VIIA And Rab Interacting Protein	Protein coding	38	GC03P039826	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYRIP
OSBPL1A	Oxysterol Binding Protein Like 1A	Protein coding	38	GC18M024162	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OSBPL1A
NAPB	NSF Attachment Protein β	Protein coding	38	GC20M023374	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NAPB
RPS25	Ribosomal Protein S25	Protein coding	38	GC11M119015	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPS25
SLC26A11	Solute Carrier Family 26 Member 11	Protein coding	38	GC17P080219	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC26A11
WDR4	WD Repeat Domain 4	Protein coding	38	GC21M042843	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WDR4
TMOD4	Tropomodulin 4	Protein coding	38	GC01M151169	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TMOD4
USP46	Ubiquitin Specific Peptidase 46	Protein coding	38	GC04M052590	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=USP46
ANO2	Anoctamin 2	Protein coding	37	GC12M005532	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANO2
CCL1	C-C Motif Chemokine Ligand 1	Protein coding	37	GC17M034422	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCL1
DEFA4	Defensin α 4	Protein coding	37	GC08M006935	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DEFA4
ARHGAP21	Rho GTPase Activating Protein 21	Protein coding	37	GC10M024583	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARHGAP21
CTR9	CTR9 Homolog, Paf1/RNA Polymerase II Complex Component	Protein coding	37	GC11P010772	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTR9
IRX2	Iroquois Homeobox 2	Protein coding	37	GC05M002708	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IRX2
NTPCR	Nucleoside-Triphosphatase, Cancer-Related	Protein coding	37	GC01P232950	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NTPCR
SDR16C5	Short Chain Dehydrogenase/Reductase Family 16C Member 5	Protein coding	37	GC08M056300	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SDR16C5
SLC37A3	Solute Carrier Family 37 Member 3	Protein coding	37	GC07M140293	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC37A3
PRCC	Proline Rich Mitotic Checkpoint Control Factor	Protein coding	37	GC01P156750	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRCC
ADAMTSL3	ADAMTS Like 3	Protein coding	36	GC15P083655	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADAMTSL3
BRPF3	Bromodomain And PHD Finger Containing 3	Protein coding	36	GC06P058453	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BRPF3
ETV7	ETS Variant Transcription Factor 7	Protein coding	36	GC06M049265	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ETV7
COPS8	COP9 Signalosome Subunit 8	Protein coding	36	GC02P237085	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COPS8
FGD6	FYVE, RhoGEF And PH Domain Containing 6	Protein coding	36	GC12M095076	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGD6
GLTP	Glycolipid Transfer Protein	Protein coding	36	GC12M109850	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLTP
ZNF77	Zinc Finger Protein 77	Protein coding	36	GC19M002933	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZNF77
PGLYRP3	Peptidoglycan Recognition Protein 3	Protein coding	36	GC01M153297	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PGLYRP3
PI16	Peptidase Inhibitor 16	Protein coding	36	GC06P058466	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PI16
MPHOSPH6	M-Phase Phosphoprotein 6	Protein coding	36	GC16M082181	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MPHOSPH6
PHLDB1	Pleckstrin Homology Like Domain Family B Member 1	Protein coding	36	GC11P118606	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PHLDB1
UPK2	Uroplakin 2	Protein coding	36	GC11P118925	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UPK2
ONECUT2	One Cut Homeobox 2	Protein coding	36	GC18P057436	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ONECUT2
SPINK7	Serine Peptidase Inhibitor Kazal Type 7	Protein coding	36	GC05P148312	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPINK7
TMEM132E	Transmembrane Protein 132E	Protein coding	36	GC17P034580	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TMEM132E
VAT1L	Vesicle Amine Transport 1 Like	Protein coding	36	GC16P077788	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VAT1L
ETV3	ETS Variant Transcription Factor 3	Protein coding	35	GC01M157121	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ETV3
FOXR1	Forkhead Box R1	Protein coding	35	GC11P118971	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FOXR1
HOXD1	Homeobox D1	Protein coding	35	GC02P176198	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HOXD1
HINFP	Histone H4 Transcription Factor	Protein coding	35	GC11P119121	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HINFP
PDZRN4	PDZ Domain Containing Ring Finger 4	Protein coding	35	GC12P041188	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDZRN4
NRIP3	Nuclear Receptor Interacting Protein 3	Protein coding	35	GC11M009001	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NRIP3
USP38	Ubiquitin Specific Peptidase 38	Protein coding	35	GC04P143184	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=USP38
RNF26	Ring Finger Protein 26	Protein coding	35	GC11P119334	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNF26
CCDC59	Coiled-Coil Domain Containing 59	Protein coding	34	GC12M082223	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCDC59
DTWD1	DTW Domain Containing 1	Protein coding	34	GC15P049620	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DTWD1
CMTR1	Cap Methyltransferase 1	Protein coding	34	GC06P058472	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CMTR1
BCL9L	BCL9 Like	Protein coding	34	GC11M118893	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BCL9L
CEP131	Centrosomal Protein 131	Protein coding	34	GC17M081189	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CEP131
ZNHIT6	Zinc Finger HIT-Type Containing 6	Protein coding	34	GC01M085649	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZNHIT6
NIPAL2	NIPA Like Domain Containing 2	Protein coding	34	GC08M098189	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NIPAL2
TBCCD1	TBCC Domain Containing 1	Protein coding	34	GC03M186547	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TBCCD1
SIGLEC15	Sialic Acid Binding Ig Like Lectin 15	Protein coding	34	GC18P045825	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SIGLEC15
WIZ	WIZ Zinc Finger	Protein coding	34	GC19M015419	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WIZ
RASAL3	RAS Protein Activator Like 3	Protein coding	34	GC19M015451	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RASAL3
ZNF333	Zinc Finger Protein 333	Protein coding	34	GC19P014689	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZNF333
AGMO	Alkylglycerol Monooxygenase	Protein coding	33	GC07M015117	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGMO
C6orf89	Chromosome 6 Open Reading Frame 89	Protein coding	33	GC06P058463	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=C6orf89
C2CD2L	C2CD2 Like	Protein coding	33	GC11P119102	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=C2CD2L
GPATCH3	G-Patch Domain Containing 3	Protein coding	33	GC01M026890	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPATCH3
ZNF516	Zinc Finger Protein 516	Protein coding	33	GC18M076357	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZNF516
PDCD11	Programmed Cell Death 11	Protein coding	33	GC10P103396	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDCD11
SPATA18	Spermatogenesis Associated 18	Protein coding	33	GC04P052051	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPATA18
NYNRIN	NYN Domain And Retroviral Integrase Containing	Protein coding	33	GC14P026885	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NYNRIN
TMEM51	Transmembrane Protein 51	Protein coding	33	GC01P015225	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TMEM51
TMEM74	Transmembrane Protein 74	Protein coding	33	GC08M108606	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TMEM74
PRDM15	PR/SET Domain 15	Protein coding	33	GC21M041798	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRDM15
RNF17	Ring Finger Protein 17	Protein coding	33	GC13P024747	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNF17
THNSL1	Threonine Synthase Like 1	Protein coding	33	GC10P024954	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=THNSL1
ZNF431	Zinc Finger Protein 431	Protein coding	33	GC19P021142	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZNF431
ZFAND2A	Zinc Finger AN1-Type Containing 2A	Protein coding	33	GC07M001335	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZFAND2A
ADGRF1	Adhesion G Protein-Coupled Receptor F1	Protein coding	32	GC06M046997	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADGRF1
CST9	Cystatin 9	Protein coding	32	GC20M023606	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CST9
INO80E	INO80 Complex Subunit E	Protein coding	32	GC16P033399	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=INO80E

R3HCC1L	R3H Domain And Coiled-Coil Containing 1 Like	Protein coding	32	GC10P098135	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=R3HCC1L
QRICH2	Glutamine Rich 2	Protein coding	32	GC17M076290	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=QRICH2
RAB19	RAB19, Member RAS Oncogene Family	Protein coding	32	GC07P140403	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAB19
ASPHD1	Aspartate β-Hydroxylase Domain Containing 1	Protein coding	31	GC16P033394	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ASPHD1
C7orf50	Chromosome 7 Open Reading Frame 50	Protein coding	31	GC07M000993	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=C7orf50
CCDC153	Coiled-Coil Domain Containing 153	Protein coding	31	GC11M119189	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCDC153
CCDC83	Coiled-Coil Domain Containing 83	Protein coding	31	GC11P085855	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCDC83
DPPA3	Developmental Pluripotency Associated 3	Protein coding	31	GC12P013214	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DPPA3
GPN2	GPN-Loop GTPase 2	Protein coding	31	GC01M026876	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPN2
KAZN	Kazrin, Periplakin Interacting Protein	Protein coding	31	GC01P013893	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KAZN
MORN1	MORN Repeat Containing 1	Protein coding	31	GC01M003129	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MORN1
LYZL6	Lysozyme Like 6	Protein coding	31	GC17M035934	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LYZL6
TMEM243	Transmembrane Protein 243	Protein coding	31	GC07M087196	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TMEM243
TRNP1	TMF1 Regulated Nuclear Protein 1	Protein coding	31	GC01P026993	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRNP1
DYNC2I1	Dynein 2 Intermediate Chain 1	Protein coding	30	GC07P158839	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DYNC2I1
CSTL1	Cystatin Like 1	Protein coding	30	GC20P023439	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSTL1
ENDOV	Endonuclease V	Protein coding	30	GC17P080415	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENDOV
RERGL	RERG Like	Protein coding	30	GC12M018080	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RERGL
VWDE	Von Willebrand Factor D And EGF Domains	Protein coding	30	GC07M012338	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VWDE
ZNF626	Zinc Finger Protein 626	Protein coding	30	GC19M020619	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZNF626
DEFA1B	Defensin α 1B	Protein coding	29	GC08M006996	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DEFA1B
ARMC12	Armadillo Repeat Containing 12	Protein coding	29	GC06P058447	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARMC12
FAAP100	FA Core Complex Associated Protein 100	Protein coding	29	GC17M081540	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FAAP100
LRRC37A2	Leucine Rich Repeat Containing 37 Member A2	Protein coding	29	GC17P046511	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LRRC37A2
XKR9	XK Related 9	Protein coding	29	GC08P070669	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=XKR9
MARCHF1	Membrane Associated Ring-CH-Type Finger 1	Protein coding	28	GC04M163525	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MARCHF1
SYCE1L	Synaptonemal Complex Central Element Protein 1 Like	Protein coding	28	GC16P077200	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SYCE1L
RAB44	RAB44, Member RAS Oncogene Family	Protein coding	28	GC06P058461	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAB44
SPINK9	Serine Peptidase Inhibitor Kazal Type 9	Protein coding	28	GC05P148321	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPINK9
ANP32C	Acidic Nuclear Phosphoprotein 32 Family Member C	Pseudogene	27	GC04M164197	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANP32C
CLDN25	Claudin 25	Protein coding	27	GC11P113779	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CLDN25
RPRML	Reprimo Like	Protein coding	27	GC17M046978	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPRML
CEP20	Centrosomal Protein 20	Protein coding	26	GC16M015866	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CEP20
ELAPOR2	Endosome-Lysosome Associated Apoptosis And Autophagy Regulator Family Member 2	Protein coding	26	GC07M086877	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ELAPOR2
FAAP20	FA Core Complex Associated Protein 20	Protein coding	26	GC01M003125	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FAAP20
ZNF737	Zinc Finger Protein 737	Protein coding	26	GC19M027249	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZNF737
C8orf86	Chromosome 8 Open Reading Frame 86	RNA gene	25	GC08M038510	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=C8orf86
TRIQK	Triple QxxK/R Motif Containing	Protein coding	25	GC08M092883	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRIQK
CENATAC	Centrosomal AT-AC Splicing Factor	Protein coding	24	GC11P119123	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CENATAC
METTL25B	Methyltransferase Like 25B	Protein coding	24	GC01P156731	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=METTL25B
LEXM	Lymphocyte Expansion Molecule	Protein coding	23	GC01P054807	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LEXM
TEPSIN	TEPSIN Adaptor Related Protein Complex 4 Accessory Protein	Protein coding	23	GC17M081229	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TEPSIN
TP53TG1	TP53 Target 1	RNA gene	23	GC07M087325	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TP53TG1
NPIPA5	Nuclear Pore Complex Interacting Protein Family Member A5	Protein coding	22	GC16M015363	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPIPA5
CMAHP	Cytidine Monophospho-N-Acetylneuraminic Acid Hydroxylase, Pseudogene	Pseudogene	21	GC06M025082	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CMAHP
CYP1B1-AS1	CYP1B1 Antisense RNA 1	RNA gene	19	GC02P038075	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP1B1-AS1
TBC1D29P	TBC1 Domain Family Member 29, Pseudogene	Protein coding	19	GC17P031079	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TBC1D29P
TMEM132E-DT	TMEM132E Divergent Transcript	RNA gene	19	GC17M034575	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TMEM132E-DT
MIR873	MicroRNA 873	RNA gene	18	GC09M028880	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR873
MAPKAPK5-AS1	MAPKAPK5 Antisense RNA 1	RNA gene	18	GC12M111839	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAPKAPK5-AS1
HAGLR	HOXD Antisense Growth-Associated Long Non-Coding RNA	RNA gene	16	GC02M176173	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HAGLR
SNORA81	Small Nucleolar RNA, H/ACA Box 81	RNA gene	16	GC03P186965	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNORA81
SNORA4	Small Nucleolar RNA, H/ACA Box 4	RNA gene	16	GC03P186959	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNORA4
COX7A2P2	Cytochrome C Oxidase Subunit 7A2 Pseudogene 2	Pseudogene	15	GC04P096902	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COX7A2P2
DISC1FP1	DISC1 Fusion Partner 1	RNA gene	15	GC11P090251	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DISC1FP1
LINC00923	Long Intergenic Non-Protein Coding RNA 923	RNA gene	15	GC15M108692	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LINC00923
LINC01013	Long Intergenic Non-Protein Coding RNA 1013	RNA gene	15	GC06P132131	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LINC01013
MIR1248	MicroRNA 1248	RNA gene	15	GC03P186960	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR1248
PKD1P1	Polycystin 1, Transient Receptor Potential Channel Interacting Pseudogene 1	Pseudogene	15	GC16P016310	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PKD1P1
OR4E1	Olfactory Receptor Family 4 Subfamily E Member 1	Protein coding	15	GC14M021671	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OR4E1
SNORA63	Small Nucleolar RNA, H/ACA Box 63	RNA gene	15	GC03P186962	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNORA63
TMEM9B-AS1	TMEM9B Antisense RNA 1	RNA gene	15	GC11P008964	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TMEM9B-AS1
C10orf143	Chromosome 10 Open Reading Frame 143	Protein coding	14	GC10M130020	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=C10orf143
LINC02906	Long Intergenic Non-Protein Coding RNA 2906	RNA gene	14	GC08M093135	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LINC02906
LINC00924	Long Intergenic Non-Protein Coding RNA 924	RNA gene	13	GC15P100796	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LINC00924
EEF1A1P5	Eukaryotic Translation Elongation Factor 1 α 1 Pseudogene 5	Pseudogene	13	GC09P133019	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EEF1A1P5
MIR4492	MicroRNA 4492	RNA gene	13	GC11P118910	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR4492
NALCN-AS1	NALCN Antisense RNA 1	RNA gene	13	GC13P100708	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NALCN-AS1
LINC00640	Long Intergenic Non-Protein Coding RNA 640	RNA gene	13	GC14P051333	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LINC00640
SNORD2	Small Nucleolar RNA, C/D Box 2	RNA gene	13	GC03P186784	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNORD2
LOC100131635	HCG1645011-Like	RNA gene	13	GC03P187702	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC100131635
B4GALT4-AS1	B4GALT4 Antisense RNA 1	RNA gene	12	GC03P119226	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=B4GALT4-AS1
CST9LP1	Cystatin 9-Like Pseudogene 1	Pseudogene	12	GC20M023530	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CST9LP1
MIR4427	MicroRNA 4427	RNA gene	12	GC01P233625	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR4427
LINC01750	Long Intergenic Non-Protein Coding RNA 1750	RNA gene	12	GC01P111992	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LINC01750
MCPH1-AS1	MCPH1 Antisense RNA 1	RNA gene	12	GC08M006619	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MCPH1-AS1

SDR16C6P	Short Chain Dehydrogenase/Reductase Family 16C Member 6, Pseudogene	Pseudogene	12	GC08M056373	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SDR16C6P
SUZ12P1	SUZ12 Pseudogene 1	Pseudogene	12	GC17P030709	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SUZ12P1
FAM95C	Family With Sequence Similarity 95 Member C	RNA gene	11	GC09M039164	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FAM95C
LOC100129534	Small Nuclear Ribonucleoprotein Polypeptide N Pseudogene	Pseudogene	11	GC01M003130	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC100129534
MOCS2-DT	MOCS2 Divergent Transcript	RNA gene	11	GC05P053111	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MOCS2-DT
MIR4277	MicroRNA 4277	RNA gene	11	GC05M001708	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR4277
PRKCZ-AS1	PRKCZ Antisense RNA 1	RNA gene	11	GC01M003124	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKCZ-AS1
OR7E154P	Olfactory Receptor Family 7 Subfamily E Member 154 Pseudogene	Pseudogene	11	GC08M007705	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OR7E154P
SNORA63B	Small Nucleolar RNA, H/ACA Box 63B	RNA gene	11	GC03P186961	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNORA63B
DEPDC1-AS1	DEPDC1 Antisense RNA 1	RNA gene	10	GC01P068496	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DEPDC1-AS1
CENATAC-DT	CENATAC Divergent Transcript	RNA gene	10	GC11M118996	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CENATAC-DT
LINC02709	Long Intergenic Non-Protein Coding RNA 2709	RNA gene	10	GC11M009754	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LINC02709
MIR1470	MicroRNA 1470	RNA gene	10	GC19P015550	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR1470
RPL17P9	Ribosomal Protein L17 Pseudogene 9	Pseudogene	10	GC01M026454	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPL17P9
ZFAND2A-DT	ZFAND2A Divergent Transcript	RNA gene	10	GC07P001433	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZFAND2A-DT
DEFT1P2	Defensin θ 1, Pseudogene 2	Pseudogene	9	GC08M007006	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DEFT1P2
ACTG1P20	Actin γ 1 Pseudogene 20	Pseudogene	9	GC01P027383	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACTG1P20
CELF2-DT	CELF2 Divergent Transript	RNA gene	9	GC10M010369	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CELF2-DT
DEFA11P	Defensin α 11, Pseudogene	Pseudogene	9	GC08M007028	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DEFA11P
DINOL	Damage Induced Long Noncoding RNA	RNA gene	9	GC06M049471	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DINOL
FBXO38-DT	FBXO38 Divergent Transcript	RNA gene	9	GC05M148084	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FBXO38-DT
LINC02267	Long Intergenic Non-Protein Coding RNA 2267	RNA gene	9	GC04P096172	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LINC02267
LINC02426	Long Intergenic Non-Protein Coding RNA 2426	RNA gene	9	GC12P081955	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LINC02426
ZCCHC14-DT	ZCCHC14 Divergent Transcript	RNA gene	9	GC16P087496	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZCCHC14-DT
LOC101928882	Uncharacterized LOC101928882	RNA gene	9	GC03M180707	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC101928882
LOC101928855	Uncharacterized LOC101928855	RNA gene	9	GC17M080801	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC101928855
ENSG00000262633	Novel Protein	Protein coding	9	GC17P046923	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000262633
ATF4P4	Activating Transcription Factor 4 Pseudogene 4	Pseudogene	8	GC11P113880	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATF4P4
CRPP1	C-Reactive Protein Pseudogene 1	Pseudogene	8	GC01M159675	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRPP1
FOXF2-DT	FOXF2 Divergent Transcript	RNA gene	8	GC06M001351	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FOXF2-DT
LINC02400	Long Intergenic Non-Protein Coding RNA 2400	RNA gene	8	GC12P041765	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LINC02400
NPM1P39	Nucleophosmin 1 Pseudogene 39	Pseudogene	8	GC01P027206	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPM1P39
LINC02511	Long Intergenic Non-Protein Coding RNA 2511	RNA gene	8	GC04M136805	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LINC02511
RPS7P3	Ribosomal Protein S7 Pseudogene 3	Pseudogene	8	GC01M233288	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPS7P3
RPS20P14	Ribosomal Protein S20 Pseudogene 14	Pseudogene	8	GC03P186900	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPS20P14
RPL7AP10	Ribosomal Protein L7a Pseudogene 10	Pseudogene	8	GC19M021149	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPL7AP10
ENSG00000261707	Novel Transcript, Antisense To NUDT7	RNA gene	8	GC16M077775	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000261707
ENSG00000233754	Novel Transcript	RNA gene	8	GC21M042781	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000233754
ENSG00000222022	Novel Transcript	RNA gene	8	GC02M237421	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000222022
ENSG00000224079	Novel Transcript	RNA gene	8	GC07P001425	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000224079
ENSG00000226698	Novel Transcript	RNA gene	8	GC01P026942	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000226698
ENSG00000254554	Novel Transcript	RNA gene	8	GC11M010296	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000254554
ENSG00000243107	Novel Transcript	RNA gene	8	GC07M092200	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000243107
ENSG00000258942	Novel Transcript	RNA gene	8	GC14M051344	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000258942
MIR8084	MicroRNA 8084	RNA gene	7	GC08P093029	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR8084
RPL21P97	Ribosomal Protein L21 Pseudogene 97	Pseudogene	7	GC11P009675	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPL21P97
RNU1-88P	RNA, U1 Small Nuclear 88, Pseudogene	Pseudogene	7	GC06M049267	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNU1-88P
RNU6-380P	RNA, U6 Small Nuclear 380, Pseudogene	Pseudogene	7	GC15P080663	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNU6-380P
RNU6-440P	RNA, U6 Small Nuclear 440, Pseudogene	Pseudogene	7	GC02P201930	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNU6-440P
RN7SL688P	RNA, 7SL, Cytoplasmic 688, Pseudogene	Pseudogene	7	GC11P118931	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RN7SL688P
ENSG00000260461	Novel Transcript, Overlapping To OBFC1	RNA gene	7	GC10M103877	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000260461
ENSG00000262049	Novel Transcript, Antisense To HGS	RNA gene	7	GC17M081701	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000262049
ENSG00000263826	Novel Transcript, Antisense To Eukaryotic Translation Initiation Factor 4A, Isoform 2 EIF4A2	RNA gene	7	GC03M186781	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000263826
ENSG00000254397	Novel Transcript	RNA gene	7	GC11M009431	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000254397
ENSG00000183889	Novel Member Of The Nuclear Pore Complex Interacting Protein NPIP Gene Family	Protein coding	7	GC16P016694	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000183889
ENSG00000238387		RNA gene	7	GC11P009579	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000238387
ENSG00000253821	Novel Transcript	RNA gene	7	GC08P057468	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000253821
ENSG00000227698	Novel Transcript	RNA gene	7	GC21M041874	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000227698
ENSG00000231724	Novel Transcript	RNA gene	7	GC03P186807	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000231724
EEF1A1P36	Eukaryotic Translation Elongation Factor 1 α 1 Pseudogene 36	Pseudogene	6	GC06P132271	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EEF1A1P36
LINC01148	Long Intergenic Non-Protein Coding RNA 1148	RNA gene	6	GC14P086932	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LINC01148
LINC01643	Long Intergenic Non-Protein Coding RNA 1643	RNA gene	6	GC22P034019	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LINC01643
LCN1P2	Lipocalin 1 Pseudogene 2	Pseudogene	6	GC09P133317	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LCN1P2
MTND1P24	MT-ND1 Pseudogene 24	Pseudogene	6	GC12M041699	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MTND1P24
NRBF2P1	Nuclear Receptor Binding Factor 2 Pseudogene 1	Pseudogene	6	GC18P035841	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NRBF2P1
LINC02151	Long Intergenic Non-Protein Coding RNA 2151	RNA gene	6	GC11M116497	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LINC02151
LINC02309	Long Intergenic Non-Protein Coding RNA 2309	RNA gene	6	GC14P086333	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LINC02309
LINC02686	Long Intergenic Non-Protein Coding RNA 2686	RNA gene	6	GC11M024236	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LINC02686
TPT1P9	Tumor Protein, Translationally-Controlled 1 Pseudogene 9	Pseudogene	6	GC09M118082	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TPT1P9
VN2R10P	Vomeronasal 2 Receptor 10, Pseudogene	Pseudogene	6	GC16P077221	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VN2R10P
RNA5SP107	RNA, 5S Ribosomal Pseudogene 107	Pseudogene	6	GC02P154590	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNA5SP107
RNU7-165P	RNA, U7 Small Nuclear 165 Pseudogene	Pseudogene	6	GC10P113353	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNU7-165P
RPL21P41	Ribosomal Protein L21 Pseudogene 41	Pseudogene	6	GC03P066638	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPL21P41
RPS20P25	Ribosomal Protein S20 Pseudogene 25	Pseudogene	6	GC09P081410	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPS20P25
RNA5SP173	RNA, 5S Ribosomal Pseudogene 173	Pseudogene	6	GC04P178406	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNA5SP173
ENSG00000288545	Novel Transcript, Antisense To SLC14A1 And SLC14A2	RNA gene	6	GC18M045671	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000288545

ENSG00000270001	Novel Transcript	RNA gene	6	GC20M023632	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000270001
ENSG00000260202	Novel Transcript	RNA gene	6	GC20M023481	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000260202
ENSG00000261063	Novel Transcript, Antisense To MON1B & SYCE1L	RNA gene	6	GC16M077201	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000261063
ENSG00000202169	Y RNA	RNA gene	6	GC04P061906	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000202169
ENSG00000231421	Novel Transcript	RNA gene	6	GC17M031529	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000231421
ENSG00000235450	Novel Transcript	RNA gene	6	GC07M091366	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000235450
ENSG00000251330	Novel Transcript, Antisense To FBXO38	RNA gene	6	GC05M148430	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000251330
ENSG00000237719	Nudix (Nucleoside Diphosphate Linked Moiety X) Type 5 Motif (NUDT5) Pseudogene	Pseudogene	6	GC06M049263	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000237719
ENSG00000222529	Y RNA	RNA gene	6	GC11P118970	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000222529
ENSG00000249678	Novel Transcript	RNA gene	6	GC04M030777	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000249678
ENSG00000262879	Novel Transcript	RNA gene	6	GC17M046982	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000262879
ENSG00000262979	Novel Transcript	RNA gene	6	GC17P080315	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000262979
ENSG00000261285	Novel Transcript	RNA gene	6	GC16M082449	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000261285
HNRNPA1P67	Heterogeneous Nuclear Ribonucleoprotein A1 Pseudogene 67	Pseudogene	5	GC04P072807	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HNRNPA1P67
RNU4-64P	RNA, U4 Small Nuclear 64, Pseudogene	Pseudogene	5	GC04M186026	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNU4-64P
RNU4ATAC9P	RNA, U4atac Small Nuclear 9, Pseudogene	Pseudogene	5	GC04P072965	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNU4ATAC9P
RNU6-102P	RNA, U6 Small Nuclear 102, Pseudogene	Pseudogene	5	GC07P124647	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNU6-102P
RNU6-560P	RNA, U6 Small Nuclear 560, Pseudogene	Pseudogene	5	GC11P086153	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNU6-560P
RNU6-694P	RNA, U6 Small Nuclear 694, Pseudogene	Pseudogene	5	GC09M004387	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNU6-694P
RN7SKP242	RN7SK Pseudogene 242	Pseudogene	5	GC09M086717	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RN7SKP242
RNA5SP63	RNA, 5S Ribosomal Pseudogene 63	Pseudogene	5	GC01P163510	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNA5SP63
RNA5SP360	RNA, 5S Ribosomal Pseudogene 360	Pseudogene	5	GC12P041658	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNA5SP360
SNORA120	Small Nucleolar RNA, H/ACA Box 120	RNA gene	5	GC12M006041	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNORA120
ZBED1P1	Zinc Finger BED-Type Containing 1 Pseudogene 1	Pseudogene	5	GC04P110277	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZBED1P1
LOC101928255	Uncharacterized LOC101928255	RNA gene	5	GC21M042648	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC101928255
LOC107985021	Flocculation Protein FLO11-Like	Protein coding	5	GC17P080720	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC107985021
LOC107985022	Uncharacterized LOC107985022	Protein coding	5	GC17M080961	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC107985022
ENSG00000273218	Novel Transcript	RNA gene	5	GC19M015347	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000273218
lnc-RAB17-7		RNA gene	5	GC02M237356	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-RAB17-7
lnc-SBF2-3		RNA gene	5	GC11M009760	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-SBF2-3
lnc-RPS25-6		RNA gene	5	GC11M118918	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-RPS25-6
lnc-EED-4		RNA gene	5	GC11P086109	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-EED-4
lnc-VIPR2-1		RNA gene	5	GC07M159029	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-VIPR2-1
ENSG00000231344	Novel Pseudogene	Pseudogene	5	GC01P027739	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000231344
ENSG00000235023	Novel Transcript	RNA gene	5	GC21M042649	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000235023
MG828730-002		RNA gene	5	GC01P026703	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MG828730-002
ENSG00000245869	Novel Transcript, Antisense To CXCR5	RNA gene	5	GC11M118887	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000245869
ENSG00000269110	Novel Transcript	RNA gene	5	GC19M027250	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000269110
lnc-CXCR5-2		RNA gene	5	GC11P118940	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-CXCR5-2
NFU1P1	NFU1 Iron-Sulfur Cluster Scaffold Pseudogene 1	Pseudogene	4	GC03P039644	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NFU1P1
MTCYBP43	MT-CYB Pseudogene 43	Pseudogene	4	GC04M030884	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MTCYBP43
TRMT112P7	TRNA Methyltransferase Subunit 11-2 Pseudogene 7	Pseudogene	4	GC08M054479	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRMT112P7
RNU7-92P	RNA, U7 Small Nuclear 92 Pseudogene	Pseudogene	4	GC20P047969	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNU7-92P
ENSG00000284946	Novel Protein	Protein coding	4	GC15M090967	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000284946
ENSG00000287999	Novel Transcript	RNA gene	4	GC04M052252	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000287999
ENSG00000269779	Zinc Finger Protein 85 Pseudogene	Pseudogene	4	GC19P020691	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000269779
HSALNG0080729-001		RNA gene	4	GC10P113178	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0080729-001
lnc-CCKAR-20		RNA gene	4	GC04M030885	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-CCKAR-20
lnc-MOCS2-5		RNA gene	4	GC05M053219	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-MOCS2-5
lnc-OR7C2-1		RNA gene	4	GC19P014939	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-OR7C2-1
lnc-POP1-1		RNA gene	4	GC08P098177	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-POP1-1
lnc-RAB44-3		RNA gene	4	GC06P059419	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-RAB44-3
lnc-RSPH1-4		RNA gene	4	GC21M042651	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-RSPH1-4
lnc-SLC2A6-3		RNA gene	4	GC09M133460	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-SLC2A6-3
ENSG00000242068	Ring Finger Protein 13 (RNF13) Pseudogene	Pseudogene	4	GC03M180772	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000242068
lnc-SWAP70-4		RNA gene	4	GC11P009764	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-SWAP70-4
lnc-TRIM49D1-2		RNA gene	4	GC11M090201	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-TRIM49D1-2
MN298114-198		RNA gene	4	GC06M050098	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MN298114-198
HSALNG0082631		RNA gene	4	GC11P009759	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0082631
HSALNG0087588		RNA gene	4	GC11M118929	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0087588
HSALNG0099362		RNA gene	4	GC13P110298	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0099362
lnc-CHORDC1-1		RNA gene	4	GC11M090194	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-CHORDC1-1
lnc-PIGV-3		RNA gene	4	GC01P026748	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-PIGV-3
lnc-USP28-3		RNA gene	4	GC11M113848	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-USP28-3
HSALNG0087589		RNA gene	4	GC11P118941	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0087589
HSALNG0031388-001		RNA gene	4	GC03P186976	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0031388-001
HSALNG0031388-002		RNA gene	4	GC03P186977	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0031388-002
HSALNG0049754		RNA gene	4	GC06P059017	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0049754
HSALNG0087578		RNA gene	4	GC11P118845	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0087578
HSALNG0099364		RNA gene	4	GC13M110312	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0099364
HSALNG0099363		RNA gene	4	GC13P110307	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0099363
lnc-C7orf50-1		RNA gene	4	GC07M001152	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-C7orf50-1
piR-44098		RNA gene	4	GC11M009755	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-44098

piR-57460-243		RNA gene	4	GC16M015975	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-57460-243
lnc-FST-6		RNA gene	4	GC05P053338	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-FST-6
lnc-TMEM105-1		RNA gene	4	GC17M080339	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-TMEM105-1
lnc-ZNF66-3		RNA gene	4	GC19P028081	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-ZNF66-3
RF00017-107		RNA gene	4	GC01M026710	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RF00017-107
RF00017-2376		RNA gene	4	GC17P080758	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RF00017-2376
OA985837		RNA gene	4	GC10P103798	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OA985837
lnc-CXCL6-3		RNA gene	4	GC04P073743	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-CXCL6-3
NONHSAG036923.2-001		RNA gene	4	GC03P186963	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NONHSAG036923.2-001
NONHSAG036923.2-002		RNA gene	4	GC03P186964	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NONHSAG036923.2-002
RF00017-5070		RNA gene	4	GC06P060841	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RF00017-5070
RF00017-5072		RNA gene	4	GC06M050905	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RF00017-5072
RF00017-5074		RNA gene	4	GC06M050906	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RF00017-5074
RF00017-6239		RNA gene	4	GC07P140406	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RF00017-6239
RF00017-6240		RNA gene	4	GC07P140414	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RF00017-6240
SGO1P2	Shugoshin 1 Pseudogene 2	Pseudogene	3	GC07M052892	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SGO1P2
LOC107984869	Uncharacterized LOC107984869	RNA gene	3	GC16M015902	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC107984869
HSALNG0011563		RNA gene	3	GC01P233636	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0011563
HSALNG0076746-001		RNA gene	3	GC10M024758	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0076746-001
HSALNG0076749		RNA gene	3	GC10P024809	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0076749
FJ601684-376		RNA gene	3	GC05M053354	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FJ601684-376
AB372791		RNA gene	3	GC03P186785	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AB372791
lnc-TEFM-7		RNA gene	3	GC17M031540	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-TEFM-7
MK280144-551		RNA gene	3	GC05P053410	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MK280144-551
HSALNG0121262-003		RNA gene	3	GC18M045767	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0121262-003
lnc-FBXO38-1		RNA gene	3	GC05P148452	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-FBXO38-1
HSALNG0112598		RNA gene	3	GC16P072981	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0112598
HSALNG0116963		RNA gene	3	GC17M046940	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0116963
HSALNG0119185		RNA gene	3	GC17P080289	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0119185
HSALNG0035165		RNA gene	3	GC04P073741	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0035165
HSALNG0039707-001		RNA gene	3	GC05M003125	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0039707-001
HSALNG0039707-002		RNA gene	3	GC05M003131	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0039707-002
HSALNG0055618		RNA gene	3	GC07M001336	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0055618
HSALNG0062832		RNA gene	3	GC07P159061	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0062832
LOC642355	Nucleoside Diphosphate Kinase, Mitochondrial-Like	Pseudogene	3	GC07M140435	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC642355
piR-43222		RNA gene	3	GC16M073004	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-43222
piR-48209-548		RNA gene	3	GC05M003091	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-48209-548
HSALNG0088814		RNA gene	3	GC12M006064	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0088814
HSALNG0119064		RNA gene	3	GC17M078802	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0119064
HSALNG0130581		RNA gene	3	GC20P047972	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0130581
piR-43106-098		RNA gene	3	GC17M078804	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-43106-098
piR-57337-010		RNA gene	3	GC11M086112	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-57337-010
lnc-FBXO38-2		RNA gene	3	GC05P148477	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-FBXO38-2
piR-50444-432		RNA gene	3	GC07M070439	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-50444-432
piR-34154		RNA gene	3	GC07P159099	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-34154
lnc-DDR2-3		RNA gene	3	GC01P162607	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-DDR2-3
piR-31432-181		RNA gene	3	GC14P051366	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-31432-181
RF00026-195		RNA gene	3	GC11P086156	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RF00026-195
RF00017-5823		RNA gene	3	GC07P070457	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RF00017-5823
RF00066-041		RNA gene	3	GC11M113865	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RF00066-041
LOC105378490	Uncharacterized LOC105378490	RNA gene	2	GC10P113306	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC105378490
LOC105375660	Uncharacterized LOC105375660	RNA gene	2	GC08P098176	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC105375660
HSALNG0025301-001		RNA gene	2	GC03P039667	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0025301-001
HSALNG0059488		RNA gene	2	GC07M091514	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0059488
HSALNG0074045-002		RNA gene	2	GC09P118060	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0074045-002
HSALNG0076128		RNA gene	2	GC10M010484	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0076128
HSALNG0059492		RNA gene	2	GC07P091550	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0059492
HSALNG0007119		RNA gene	2	GC01M151172	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0007119
HSALNG0080735		RNA gene	2	GC10M113271	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0080735
HSALNG0101240		RNA gene	2	GC14M051345	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0101240
HSALNG0124379		RNA gene	2	GC19P015457	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0124379
lnc-CST8-1		RNA gene	2	GC20P023503	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-CST8-1
lnc-PLCB2-1-001		RNA gene	2	GC15M040308	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-PLCB2-1-001
lnc-SIGLEC15-1		RNA gene	2	GC18P045868	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-SIGLEC15-1
lnc-SLC1A1-7		RNA gene	2	GC09P004478	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-SLC1A1-7
lnc-SGCB-1		RNA gene	2	GC04M052162	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-SGCB-1
lnc-SPATA18-4		RNA gene	2	GC04P052197	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-SPATA18-4
lnc-TERF2IP-6		RNA gene	2	GC16P075792	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-TERF2IP-6
MK280144-221		RNA gene	2	GC15M108927	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MK280144-221

HSALNG0090516		RNA gene	2	GC12M041584	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0090516
HSALNG0110658		RNA gene	2	GC16P033762	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0110658
lnc-ADAMTS18-12		RNA gene	2	GC16M077207	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-ADAMTS18-12
lnc-MKRN1-1		RNA gene	2	GC07M140437	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-MKRN1-1
lnc-PRC1-3		RNA gene	2	GC15M091013	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-PRC1-3
HSALNG0119063		RNA gene	2	GC17P078798	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0119063
HSALNG0124827		RNA gene	2	GC19P028195	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0124827
HSALNG0133334		RNA gene	2	GC21M042664	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0133334
HSALNG0034390		RNA gene	2	GC04P052198	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0034390
HSALNG0039132		RNA gene	2	GC04M185963	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0039132
HSALNG0071141		RNA gene	2	GC09P038546	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0071141
HSALNG0059497		RNA gene	2	GC07P091581	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0059497
HSALNG0063178-002		RNA gene	2	GC08P006997	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0063178-002
HSALNG0063178-003		RNA gene	2	GC08P007017	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0063178-003
HSALNG0075010		RNA gene	2	GC09M133459	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0075010
piR-35581		RNA gene	2	GC03P180871	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-35581
HSALNG0107907		RNA gene	2	GC15M086636	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0107907
HSALNG0108471		RNA gene	2	GC15P100787	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0108471
HSALNG0113053		RNA gene	2	GC16P082605	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0113053
HSALNG0115879		RNA gene	2	GC17M034505	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0115879
HSALNG0115880		RNA gene	2	GC17M034549	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0115880
HSALNG0121281		RNA gene	2	GC18P045869	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0121281
piR-55361-415		RNA gene	2	GC04P061944	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-55361-415
lnc-SEZ6L2-1		RNA gene	2	GC16M029919	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-SEZ6L2-1
lnc-TTC14-3		RNA gene	2	GC03P180869	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-TTC14-3
piR-36756-006		RNA gene	2	GC01M157341	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-36756-006
piR-38562-016		RNA gene	2	GC12M023156	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-38562-016
piR-55985-066		RNA gene	2	GC16M077215	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-55985-066
piR-58712		RNA gene	2	GC17P046942	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-58712
NONHSAG020037.2		RNA gene	2	GC16P077199	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NONHSAG020037.2
piR-32214-308		RNA gene	2	GC18P045882	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-32214-308
MN309174-501		RNA gene	2	GC04P052277	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MN309174-501
piR-33101-001		RNA gene	2	GC01P157320	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-33101-001
lnc-DEFA1B-1-002		RNA gene	2	GC08M007007	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=lnc-DEFA1B-1-002
RF00026-1082		RNA gene	2	GC08M098197	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RF00026-1082
RF00998-050		RNA gene	2	GC15M086793	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RF00998-050
LOC105375855	Uncharacterized LOC105375855	RNA gene	1	GC08P057462	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC105375855
LOC105370935	Uncharacterized LOC105370935	RNA gene	1	GC15M083944	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC105370935
LOC107986462	Uncharacterized LOC107986462	RNA gene	1	GC05P148453	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC107986462
LOC105374240	Uncharacterized LOC105374240	RNA gene	1	GC03P180867	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC105374240
HSALNG0061800		RNA gene	1	GC07M140427	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0061800
HSALNG0074045-001		RNA gene	1	GC09P118059	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0074045-001
HSALNG0020602		RNA gene	1	GC02P176326	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSALNG0020602
ENSG00000103200	Non-Metastatic Cells 4, Protein Expressed In (NME4) Pseudogene	Pseudogene	1	GC07M140436	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ENSG00000103200
piR-39341-170		RNA gene	1	GC18M035792	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-39341-170
piR-61240-147		RNA gene	1	GC02P176311	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-61240-147
piR-46381-051		RNA gene	1	GC03M039767	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-46381-051
piR-37081-005		RNA gene	1	GC03M039738	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-37081-005
piR-56120		RNA gene	1	GC01M003137	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-56120
piR-30188-105		RNA gene	1	GC20P023515	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-30188-105
piR-33945		RNA gene	1	GC01M003134	1.068448901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=piR-33945
FOXO3	Forkhead Box O3	Protein coding	44	GC06P108559	1.065283656	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FOXO3
MCEMP1	Mast Cell Expressed Membrane Protein 1	Protein coding	29	GC19P007676	1.064950705	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MCEMP1
PLCG1	Phospholipase C γ 1	Protein coding	48	GC20P041136	1.063918352	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLCG1
SEMA7A	Semaphorin 7A (John Milton Hagen Blood Group)	Protein coding	42	GC15M074409	1.061660886	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SEMA7A
B3GAT1	β-1,3-Glucuronyltransferase 1	Protein coding	43	GC11M134378	1.060500979	https://www.genecards.org/cgi-bin/carddisp.pl?gene=B3GAT1
PRKCD	Protein Kinase C δ	Protein coding	54	GC03P053156	1.059619665	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKCD
TRPS1	Transcriptional Repressor GATA Binding 1	Protein coding	45	GC08M115408	1.059348583	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRPS1
PDE6B	Phosphodiesterase 6B	Protein coding	46	GC04P000587	1.059158444	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDE6B
TFG	Trafficking From ER To Golgi Regulator	Protein coding	45	GC03P100709	1.059158444	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TFG
INA	Internexin Neuronal Intermediate Filament Protein α	Protein coding	40	GC10P103277	1.059158444	https://www.genecards.org/cgi-bin/carddisp.pl?gene=INA
LOC110596866	CYP7A1 5' Regulatory Region	Biological region	1	GC08P058498	1.055786371	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC110596866
LOC110599585	CYP2E1 5' Regulatory Region	Biological region	1	GC10P133523	1.055786371	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC110599585
MAPK11	Mitogen-Activated Protein Kinase 11	Protein coding	47	GC22M050263	1.055706859	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAPK11
CALU	Calumenin	Protein coding	41	GC07P128739	1.055038691	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CALU
SCN3A	Sodium Voltage-Gated Channel α Subunit 3	Protein coding	47	GC02M165087	1.054818273	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCN3A
HSD3B1	Hydroxy-δ-5-Steroid Dehydrogenase, 3 β- And Steroid δ-Isomerase 1	Protein coding	44	GC01P119507	1.054818273	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSD3B1
SLC4A5	Solute Carrier Family 4 Member 5	Protein coding	42	GC02M074217	1.054818273	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC4A5
DUOX1	Dual Oxidase 1	Protein coding	41	GC15P045129	1.054818273	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DUOX1
SLC5A4	Solute Carrier Family 5 Member 4	Protein coding	39	GC22M032218	1.054818273	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC5A4
AGTRAP	Angiotensin II Receptor Associated Protein	Protein coding	38	GC01P011736	1.054818273	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGTRAP
ATG9B	Autophagy Related 9B	Protein coding	36	GC07M151012	1.054818273	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATG9B

CYP4A22	Cytochrome P450 Family 4 Subfamily A Member 22	Protein coding	36	GC01P047142	1.054818273	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP4A22
HTN3	Histatin 3	Protein coding	34	GC04P070028	1.054818273	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HTN3
SLC9B2	Solute Carrier Family 9 Member B2	Protein coding	34	GC04M103019	1.054818273	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC9B2
HTN1	Histatin 1	Protein coding	33	GC04P070053	1.054818273	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HTN1
EMX2OS	EMX2 Opposite Strand/Antisense RNA	RNA gene	20	GC10M117473	1.054818273	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EMX2OS
MIR505	MicroRNA 505	RNA gene	17	GC0XM139924	1.054818273	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR505
MIR517A	MicroRNA 517a	RNA gene	15	GC19P053712	1.054818273	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR517A
LINC01227	Long Intergenic Non-Protein Coding RNA 1227	RNA gene	13	GC16M080566	1.054818273	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LINC01227
LOC105371049	Uncharacterized LOC105371049	RNA gene	9	GC16P006191	1.054818273	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC105371049
ITGA1	Integrin Subunit α 1	Protein coding	42	GC05P052788	1.053532362	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGA1
PLCL2	Phospholipase C Like 2	Protein coding	38	GC03P016803	1.05313623	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLCL2
TIMP4	TIMP Metallopeptidase Inhibitor 4	Protein coding	40	GC03M012153	1.051713228	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TIMP4
EYA1	EYA Transcriptional Coactivator And Phosphatase 1	Protein coding	45	GC08M071210	1.050078869	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EYA1
STMN2	Stathmin 2	Protein coding	39	GC08P079610	1.050078869	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STMN2
INO80	INO80 Complex ATPase Subunit	Protein coding	36	GC15M040979	1.046738386	https://www.genecards.org/cgi-bin/carddisp.pl?gene=INO80
LOXL1	Lysyl Oxidase Like 1	Protein coding	43	GC15P073925	1.042695761	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOXL1
DLK1	δ Like Non-Canonical Notch Ligand 1	Protein coding	44	GC14P106593	1.041279078	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DLK1
TNKS2	Tankyrase 2	Protein coding	44	GC10P091798	1.04084599	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNKS2
REL	REL Proto-Oncogene, NF-KB Subunit	Protein coding	46	GC02P060881	1.038821578	https://www.genecards.org/cgi-bin/carddisp.pl?gene=REL
LRRC8A	Leucine Rich Repeat Containing 8 VRAC Subunit A	Protein coding	40	GC09P128882	1.038116455	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LRRC8A
PTPN6	Protein Tyrosine Phosphatase Non-Receptor Type 6	Protein coding	49	GC12P013190	1.034561038	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPN6
SLC11A2	Solute Carrier Family 11 Member 2	Protein coding	47	GC12M050952	1.032966375	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC11A2
MUC16	Mucin 16, Cell Surface Associated	Protein coding	37	GC19M008848	1.031075239	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MUC16
ABCD1	ATP Binding Cassette Subfamily D Member 1	Protein coding	46	GC0XP153724	1.03074789	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCD1
SPHK2	Sphingosine Kinase 2	Protein coding	44	GC19P048619	1.028167009	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPHK2
PTH1R	Parathyroid Hormone 1 Receptor	Protein coding	50	GC03P046877	1.026613116	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTH1R
PADI4	Peptidyl Arginine Deiminase 4	Protein coding	43	GC01P017308	1.026613116	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PADI4
FGF4	Fibroblast Growth Factor 4	Protein coding	43	GC11M071947	1.025001526	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGF4
SPARC	Secreted Protein Acidic And Cysteine Rich	Protein coding	50	GC05M151661	1.02357626	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPARC
MAPK7	Mitogen-Activated Protein Kinase 7	Protein coding	48	GC17P020247	1.023440242	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAPK7
ATP7A	ATPase Copper Transporting α	Protein coding	46	GC0XP077948	1.023012877	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATP7A
C5AR1	Complement C5a Receptor 1	Protein coding	44	GC19P047290	1.021420717	https://www.genecards.org/cgi-bin/carddisp.pl?gene=C5AR1
NR1H2	Nuclear Receptor Subfamily 1 Group H Member 2	Protein coding	48	GC19P050329	1.018903375	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NR1H2
CA1	Carbonic Anhydrase 1	Protein coding	46	GC08M085327	1.017064333	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CA1
PRKD1	Protein Kinase D1	Protein coding	50	GC14M029576	1.016151428	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKD1
ACTN4	Actinin α 4	Protein coding	47	GC19P038647	1.013119936	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACTN4
CSN1S1	Casein α S1	Protein coding	34	GC04P069932	1.012822747	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSN1S1
MIR374A	MicroRNA 374a	RNA gene	16	GC0XM074296	1.011798143	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR374A
TMLHE	Trimethyllysine Hydroxylase, ε	Protein coding	43	GC0XM155489	1.011706233	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TMLHE
TNFRSF25	TNF Receptor Superfamily Member 25	Protein coding	43	GC01M006460	1.011026621	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFRSF25
HTR7	5-Hydroxytryptamine Receptor 7	Protein coding	47	GC10M090740	1.006878614	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HTR7
E2F1	E2F Transcription Factor 1	Protein coding	44	GC20M033675	1.006452084	https://www.genecards.org/cgi-bin/carddisp.pl?gene=E2F1
CXCL14	C-X-C Motif Chemokine Ligand 14	Protein coding	38	GC05M135617	1.003096342	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CXCL14
LGI1	Leucine Rich Glioma Inactivated 1	Protein coding	43	GC10P093757	1.00259769	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LGI1
TCFL5	Transcription Factor Like 5	Protein coding	36	GC20M062841	1.00189662	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TCFL5
MIR215	MicroRNA 215	RNA gene	19	GC01M220117	1.001075983	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR215
TRPM6	Transient Receptor Potential Cation Channel Subfamily M Member 6	Protein coding	46	GC09M074725	1.000572205	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRPM6
ICAM3	Intercellular Adhesion Molecule 3	Protein coding	41	GC19M010337	1.000572205	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ICAM3
MIR211	MicroRNA 211	RNA gene	19	GC15M031065	1.000572205	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR211
SOS1	SOS Ras/Rac Guanine Nucleotide Exchange Factor 1	Protein coding	48	GC02M038981	0.999275446	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SOS1
ECHS1	Enoyl-CoA Hydratase, Short Chain 1	Protein coding	47	GC10M133362	0.999275446	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ECHS1
PC	Pyruvate Carboxylase	Protein coding	47	GC11M066848	0.999275446	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PC
GALNT3	Polypeptide N-Acetylgalactosaminyltransferase 3	Protein coding	45	GC02M165747	0.999275446	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GALNT3
FAM20C	FAM20C Golgi Associated Secretory Pathway Kinase	Protein coding	41	GC07P000192	0.999275446	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FAM20C
PHEX	Phosphate Regulating Endopeptidase Homolog X-Linked	Protein coding	41	GC0XP022032	0.999275446	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PHEX
SLC34A3	Solute Carrier Family 34 Member 3	Protein coding	41	GC09P137230	0.999275446	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC34A3
BMP10	Bone Morphogenetic Protein 10	Protein coding	38	GC02M068865	0.999275446	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BMP10
MYBPC2	Myosin Binding Protein C2	Protein coding	38	GC19P050432	0.999275446	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYBPC2
PHOSPHO1	Phosphoethanolamine/Phosphocholine Phosphatase 1	Protein coding	37	GC17M049223	0.999275446	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PHOSPHO1
SLC2A11	Solute Carrier Family 2 Member 11	Protein coding	37	GC22P023856	0.999275446	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC2A11
MLN	Motilin	Protein coding	35	GC06M033794	0.999275446	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MLN
DUSP11	Dual Specificity Phosphatase 11	Protein coding	34	GC02M073762	0.999275446	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DUSP11
ARSJ	Arylsulfatase Family Member J	Protein coding	34	GC04M113901	0.999275446	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARSJ
OR2AG1	Olfactory Receptor Family 2 Subfamily AG Member 1	Protein coding	34	GC11P006784	0.999275446	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OR2AG1
DMBX1	Diencephalon/Mesencephalon Homeobox 1	Protein coding	32	GC01P046489	0.999275446	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DMBX1
CNOT11	CCR4-NOT Transcription Complex Subunit 11	Protein coding	29	GC02P101252	0.999275446	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CNOT11
CFAP47	Cilia And Flagella Associated Protein 47	Protein coding	28	GC0XP035919	0.999275446	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CFAP47
PVT1	Pvt1 Oncogene	RNA gene	25	GC08P127827	0.998605192	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PVT1
PDPK1	3-Phosphoinositide Dependent Protein Kinase 1	Protein coding	49	GC16P002537	0.994946361	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDPK1
ILK	Integrin Linked Kinase	Protein coding	47	GC11P006604	0.994177401	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ILK
UBE2G2	Ubiquitin Conjugating Enzyme E2 G2	Protein coding	44	GC21M044768	0.993591189	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UBE2G2
SLC12A5	Solute Carrier Family 12 Member 5	Protein coding	47	GC20P046021	0.992959619	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC12A5
PLN	Phospholamban	Protein coding	45	GC06P118548	0.991301894	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLN
JAK1	Janus Kinase 1	Protein coding	53	GC01M064833	0.991189897	https://www.genecards.org/cgi-bin/carddisp.pl?gene=JAK1
MTF1	Metal Regulatory Transcription Factor 1	Protein coding	41	GC01M037810	0.990514398	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MTF1
NCEH1	Neutral Cholesterol Ester Hydrolase 1	Protein coding	38	GC03M172630	0.990514398	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NCEH1

CPQ	Carboxypeptidase Q	Protein coding	34	GC08P096645	0.989202857	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CPQ
CTSL	Cathepsin L	Protein coding	45	GC09P087725	0.986578584	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTSL
C4BPA	Complement Component 4 Binding Protein α	Protein coding	41	GC01P207105	0.98567909	https://www.genecards.org/cgi-bin/carddisp.pl?gene=C4BPA
SUMF1	Sulfatase Modifying Factor 1	Protein coding	42	GC03M003700	0.983193636	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SUMF1
PTGER2	Prostaglandin E Receptor 2	Protein coding	48	GC14P052314	0.982312441	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTGER2
TRDMT1	TRNA Aspartic Acid Methyltransferase 1	Protein coding	39	GC10M017138	0.980447114	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRDMT1
ADH1B	Alcohol Dehydrogenase 1B (Class I), β Polypeptide	Protein coding	44	GC04M099304	0.979142368	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADH1B
MIR18A	MicroRNA 18a	RNA gene	19	GC13P091475	0.976626396	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR18A
HSPA14	Heat Shock Protein Family A (Hsp70) Member 14	Protein coding	39	GC10P014847	0.976171494	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSPA14
AKAP7	A-Kinase Anchoring Protein 7	Protein coding	38	GC06P131126	0.971988618	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKAP7
CTSG	Cathepsin G	Protein coding	45	GC14M024573	0.967474878	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CTSG
WRAP53	WD Repeat Containing Antisense To TP53	Protein coding	41	GC17P009346	0.966851771	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WRAP53
DRD5	Dopamine Receptor D5	Protein coding	48	GC04P009783	0.965883255	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DRD5
SV2A	Synaptic Vesicle Glycoprotein 2A	Protein coding	44	GC01M149903	0.965883255	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SV2A
NTRK3	Neurotrophic Receptor Tyrosine Kinase 3	Protein coding	51	GC15M087859	0.965340555	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NTRK3
PLD2	Phospholipase D2	Protein coding	48	GC17P004808	0.964622319	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLD2
BLZF1	Basic Leucine Zipper Nuclear Factor 1	Protein coding	39	GC01P169367	0.963870347	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BLZF1
DSTYK	Dual Serine/Threonine And Tyrosine Protein Kinase	Protein coding	41	GC01M205111	0.963275313	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DSTYK
C1QTNF3	C1q And TNF Related 3	Protein coding	37	GC05M034017	0.960164249	https://www.genecards.org/cgi-bin/carddisp.pl?gene=C1QTNF3
ARF1	ADP Ribosylation Factor 1	Protein coding	47	GC01P228082	0.958800673	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARF1
FIS1	Fission, Mitochondrial 1	Protein coding	38	GC07M101239	0.955266356	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FIS1
IFRD1	Interferon Related Developmental Regulator 1	Protein coding	40	GC07P112422	0.953816295	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IFRD1
STIM2	Stromal Interaction Molecule 2	Protein coding	39	GC04P026859	0.953540504	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STIM2
ZDHHC17	Zinc Finger DHHC-Type Palmitoyltransferase 17	Protein coding	38	GC12P076763	0.95315659	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZDHHC17
MTRNR2L8	MT-RNR2 Like 8	Protein coding	22	GC11M010730	0.952785969	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MTRNR2L8
SLC12A4	Solute Carrier Family 12 Member 4	Protein coding	45	GC16M067958	0.952018023	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC12A4
CD69	CD69 Molecule	Protein coding	40	GC12M016305	0.951474428	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD69
ITGAX	Integrin Subunit α X	Protein coding	44	GC16P033540	0.950012982	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGAX
FGFR2	Fibroblast Growth Factor Receptor 2	Protein coding	53	GC10M121478	0.94748193	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGFR2
VIPR1	Vasoactive Intestinal Peptide Receptor 1	Protein coding	46	GC03P042490	0.947193503	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VIPR1
CYSLTR1	Cysteinyl Leukotriene Receptor 1	Protein coding	43	GC0XM078271	0.94678551	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYSLTR1
PLA2G4A	Phospholipase A2 Group IVA	Protein coding	49	GC01P186798	0.9453969	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLA2G4A
RNF214	Ring Finger Protein 214	Protein coding	33	GC11P117232	0.943842053	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNF214
MSBP1	Minisatellite Binding Protein 1	Protein coding	5	GC00U990213	0.943456173	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MSBP1
TRPM4	Transient Receptor Potential Cation Channel Subfamily M Member 4	Protein coding	45	GC19P049157	0.942467749	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRPM4
SLC1A6	Solute Carrier Family 1 Member 6	Protein coding	44	GC19M014921	0.941607416	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC1A6
TIAL1	TIA1 Cytotoxic Granule Associated RNA Binding Protein Like 1	Protein coding	40	GC10M119571	0.941607416	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TIAL1
NRAS	NRAS Proto-Oncogene, GTPase	Protein coding	48	GC01M114704	0.941448212	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NRAS
SMARCA1	SWI/SNF Related, Matrix Associated, Actin Dependent Regulator Of Chromatin, Subfamily A, Member 1	Protein coding	39	GC0XM129447	0.941448212	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMARCA1
MIR6501	MicroRNA 6501	RNA gene	9	GC21P033550	0.941448212	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR6501
MIR361	MicroRNA 361	RNA gene	17	GC0XM085903	0.941043973	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR361
MPP1	Membrane Palmitoylated Protein 1	Protein coding	40	GC0XM154779	0.940216303	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MPP1
FOXC1	Forkhead Box C1	Protein coding	43	GC06P001610	0.938534439	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FOXC1
CFB	Complement Factor B	Protein coding	45	GC06P031945	0.938463807	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CFB
OLIG2	Oligodendrocyte Transcription Factor 2	Protein coding	40	GC21P033025	0.935528636	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OLIG2
MIR638	MicroRNA 638	RNA gene	17	GC19P010719	0.935528636	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR638
LRRFIP1	LRR Binding FLII Interacting Protein 1	Protein coding	38	GC02P237627	0.93426019	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LRRFIP1
GPHA2	Glycoprotein Hormone Subunit α 2	Protein coding	34	GC11M071631	0.932365775	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPHA2
TGFBI	Transforming Growth Factor β Induced	Protein coding	45	GC05P136027	0.931101501	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TGFBI
ACACA	Acetyl-CoA Carboxylase α	Protein coding	49	GC17M037084	0.930260658	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACACA
UGGT2	UDP-Glucose Glycoprotein Glucosyltransferase 2	Protein coding	37	GC13M095801	0.928238153	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UGGT2
EMC8	ER Membrane Protein Complex Subunit 8	Protein coding	33	GC16M085771	0.928238153	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EMC8
VOPP1	VOPP1 WW Domain Binding Protein	Protein coding	31	GC07M055434	0.928238153	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VOPP1
MARCHF10	Membrane Associated Ring-CH-Type Finger 10	Protein coding	26	GC17M062704	0.928238153	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MARCHF10
TAFA4	TAFA Chemokine Like Family Member 4	Protein coding	26	GC03M068714	0.928238153	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TAFA4
SCARB2	Scavenger Receptor Class B Member 2	Protein coding	44	GC04M076158	0.928136468	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCARB2
EIF2AK3	Eukaryotic Translation Initiation Factor 2 α Kinase 3	Protein coding	49	GC02M088556	0.927611947	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EIF2AK3
CHRNB2	Cholinergic Receptor Nicotinic β 2 Subunit	Protein coding	45	GC01P154568	0.927611947	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHRNB2
FOXC2	Forkhead Box C2	Protein coding	44	GC16P086572	0.923003137	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FOXC2
RFXANK	Regulatory Factor X Associated Ankyrin Containing Protein	Protein coding	42	GC19P019192	0.922392845	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RFXANK
PRKACA	Protein Kinase CAMP-Activated Catalytic Subunit α	Protein coding	51	GC19M014169	0.920310199	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKACA
MYDGF	Myeloid Derived Growth Factor	Protein coding	33	GC19M004641	0.920310199	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYDGF
GIP	Gastric Inhibitory Polypeptide	Protein coding	38	GC17M048958	0.919942081	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GIP
EGLN2	Egl-9 Family Hypoxia Inducible Factor 2	Protein coding	45	GC19P041719	0.918146372	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EGLN2
PTPN3	Protein Tyrosine Phosphatase Non-Receptor Type 3	Protein coding	44	GC09M109375	0.9172014	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPN3
MS	Multiple Sclerosis	Genetic locus	4	GC00U990205	0.9172014	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MS
DCDC2	Doublecortin Domain Containing 2	Protein coding	39	GC06M024171	0.916721582	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DCDC2
HTR1D	5-Hydroxytryptamine Receptor 1D	Protein coding	46	GC01M023191	0.915794075	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HTR1D
TPM3	Tropomyosin 3	Protein coding	46	GC01M154127	0.915794075	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TPM3
NCS1	Neuronal Calcium Sensor 1	Protein coding	41	GC09P130172	0.915794075	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NCS1
TNFSF9	TNF Superfamily Member 9	Protein coding	37	GC19P006531	0.913768649	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFSF9
PRDX2	Peroxiredoxin 2	Protein coding	46	GC19M012796	0.90981406	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRDX2
NTF4	Neurotrophin 4	Protein coding	43	GC19M049605	0.908782363	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NTF4
LPIN1	Lipin 1	Protein coding	48	GC02P011677	0.905126691	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LPIN1
KLK15	Kallikrein Related Peptidase 15	Protein coding	41	GC19M050825	0.905077338	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KLK15

VEGFD	Vascular Endothelial Growth Factor D	Protein coding	33	GC0XM015345	0.90504384	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VEGFD
MESP2	Mesoderm Posterior BHLH Transcription Factor 2	Protein coding	35	GC15P089770	0.904410362	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MESP2
ELOB	Elongin B	Protein coding	33	GC16M003901	0.90040642	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ELOB
CD226	CD226 Molecule	Protein coding	43	GC18M069831	0.898628473	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD226
NEU1	Neuraminidase 1	Protein coding	44	GC06M031857	0.898057342	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NEU1
WNT1	Wnt Family Member 1	Protein coding	45	GC12P049053	0.895745397	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WNT1
CCS	Copper Chaperone For Superoxide Dismutase	Protein coding	43	GC11P066593	0.895745397	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCS
MICAL2	Microtubule Associated Monooxygenase, Calponin And LIM Domain Containing 2	Protein coding	38	GC11P012115	0.895112753	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MICAL2
KIR2DL1	Killer Cell Immunoglobulin Like Receptor, Two Ig Domains And Long Cytoplasmic Tail 1	Protein coding	37	GC19P056878	0.894890785	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KIR2DL1
A2M	α-2-Macroglobulin	Protein coding	45	GC12M009067	0.894440114	https://www.genecards.org/cgi-bin/carddisp.pl?gene=A2M
HAND2	Heart And Neural Crest Derivatives Expressed 2	Protein coding	44	GC04M173524	0.893392563	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HAND2
NMT1	N-Myristoyltransferase 1	Protein coding	43	GC17P045082	0.893392563	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NMT1
SYT11	Synaptotagmin 11	Protein coding	41	GC01P155829	0.892251968	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SYT11
FGF5	Fibroblast Growth Factor 5	Protein coding	44	GC04P080266	0.891623259	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGF5
MIR410	MicroRNA 410	RNA gene	16	GC14P106819	0.890509725	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR410
MTDH	Metadherin	Protein coding	40	GC08P097643	0.884306967	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MTDH
IFNAR1	Interferon α And β Receptor Subunit 1	Protein coding	45	GC21P033324	0.872899234	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IFNAR1
MIR186	MicroRNA 186	RNA gene	19	GC01M071067	0.87239784	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR186
HRH1	Histamine Receptor H1	Protein coding	45	GC03P011163	0.871615708	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HRH1
MDK	Midkine	Protein coding	43	GC11P046380	0.870167255	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MDK
MAP4K2	Mitogen-Activated Protein Kinase Kinase Kinase Kinase 2	Protein coding	47	GC11M071615	0.869870722	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP4K2
SDC4	Syndecan 4	Protein coding	44	GC20M045325	0.869079769	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SDC4
CISD2	CDGSH Iron Sulfur Domain 2	Protein coding	41	GC04P102868	0.86841023	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CISD2
ELP1	Elongator Acetyltransferase Complex Subunit 1	Protein coding	33	GC09M108868	0.865249872	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ELP1
IL6ST	Interleukin 6 Cytokine Family Signal Transducer	Protein coding	47	GC05M055935	0.863600194	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL6ST
GPX4	Glutathione Peroxidase 4	Protein coding	47	GC19P001103	0.862920284	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPX4
CYP46A1	Cytochrome P450 Family 46 Subfamily A Member 1	Protein coding	41	GC14P099684	0.862920284	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP46A1
IL32	Interleukin 32	Protein coding	39	GC16P006225	0.862920284	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL32
CDH2	Cadherin 2	Protein coding	52	GC18M027950	0.861933768	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDH2
QDPR	Quinoid Dihydropteridine Reductase	Protein coding	48	GC04M017460	0.860933542	https://www.genecards.org/cgi-bin/carddisp.pl?gene=QDPR
CSNK1D	Casein Kinase 1 δ	Protein coding	50	GC17M082239	0.860389948	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSNK1D
KCNK9	Potassium Two Pore Domain Channel Subfamily K Member 9	Protein coding	47	GC08M139585	0.860389948	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNK9
CACNA1E	Calcium Voltage-Gated Channel Subunit α1 E	Protein coding	46	GC01P181317	0.860389948	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CACNA1E
TRPV3	Transient Receptor Potential Cation Channel Subfamily V Member 3	Protein coding	44	GC17M003515	0.860389948	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRPV3
HTR1E	5-Hydroxytryptamine Receptor 1E	Protein coding	41	GC06P086937	0.860389948	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HTR1E
LAPTM4A	Lysosomal Protein Transmembrane 4 α	Protein coding	38	GC02M020032	0.860389948	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LAPTM4A
KCNK18	Potassium Two Pore Domain Channel Subfamily K Member 18	Protein coding	38	GC10P117197	0.860389948	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNK18
DCAF8	DDB1 And CUL4 Associated Factor 8	Protein coding	37	GC01M160215	0.860389948	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DCAF8
SLC39A2	Solute Carrier Family 39 Member 2	Protein coding	36	GC14P022332	0.860389948	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC39A2
CDR1	Cerebellar Degeneration Related Protein 1	Protein coding	31	GC0XM140782	0.860389948	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDR1
MTRNR2L5	MT-RNR2 Like 5	Protein coding	19	GC10P055622	0.860389948	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MTRNR2L5
GIPR	Gastric Inhibitory Polypeptide Receptor	Protein coding	44	GC19P045668	0.857055545	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GIPR
SENP3	SUMO Specific Peptidase 3	Protein coding	40	GC17P009338	0.856902122	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SENP3
PEPD	Peptidase D	Protein coding	45	GC19M033386	0.854803801	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PEPD
PIK3R1	Phosphoinositide-3-Kinase Regulatory Subunit 1	Protein coding	51	GC05P068215	0.852586389	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIK3R1
HDAC1	Histone Deacetylase 1	Protein coding	49	GC01P032292	0.851660192	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HDAC1
EGLN3	Egl-9 Family Hypoxia Inducible Factor 3	Protein coding	46	GC14M033924	0.851660192	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EGLN3
HLX	H2.0 Like Homeobox	Protein coding	40	GC01P220879	0.851383209	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HLX
RNF144B	Ring Finger Protein 144B	Protein coding	38	GC06P018459	0.851383209	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNF144B
SOX2	SRY-Box Transcription Factor 2	Protein coding	47	GC03P181711	0.851225734	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SOX2
IMPA1	Inositol Monophosphatase 1	Protein coding	48	GC08M081656	0.850522935	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IMPA1
CEBPB	CCAAT Enhancer Binding Protein β	Protein coding	44	GC20P050190	0.84999299	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CEBPB
S1PR2	Sphingosine-1-Phosphate Receptor 2	Protein coding	45	GC19M010223	0.847933412	https://www.genecards.org/cgi-bin/carddisp.pl?gene=S1PR2
PPP3R1	Protein Phosphatase 3 Regulatory Subunit B, α	Protein coding	45	GC02M068143	0.846242011	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPP3R1
GBE1	1,4-α-Glucan Branching Enzyme 1	Protein coding	44	GC03M081489	0.845712066	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GBE1
KCNH2	Potassium Voltage-Gated Channel Subfamily H Member 2	Protein coding	50	GC07M150944	0.844057322	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNH2
OCLN	Occludin	Protein coding	44	GC05P069492	0.843857586	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OCLN
CSK	C-Terminal Src Kinase	Protein coding	47	GC15P074782	0.841490388	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSK
ADCY1	Adenylate Cyclase 1	Protein coding	48	GC07P045580	0.839858472	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADCY1
SLC45A2	Solute Carrier Family 45 Member 2	Protein coding	39	GC05M033944	0.838562846	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC45A2
ZRANB3	Zinc Finger RANBP2-Type Containing 3	Protein coding	36	GC02M135136	0.838562846	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZRANB3
IL7R	Interleukin 7 Receptor	Protein coding	46	GC05P035852	0.835170805	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL7R
CASQ2	Calsequestrin 2	Protein coding	44	GC01M115700	0.835170805	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CASQ2
SPI1	Spi-1 Proto-Oncogene	Protein coding	43	GC11M071235	0.833887279	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPI1
PSMB8	Proteasome 20S Subunit β 8	Protein coding	50	GC06M032840	0.833503544	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PSMB8
YY1	YY1 Transcription Factor	Protein coding	47	GC14P100238	0.833503544	https://www.genecards.org/cgi-bin/carddisp.pl?gene=YY1
MIR28	MicroRNA 28	RNA gene	19	GC03P188688	0.833503544	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR28
PTPA	Protein Phosphatase 2 Phosphatase Activator	Protein coding	35	GC09P129111	0.832853019	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPA
GJD2	Gap Junction Protein δ 2	Protein coding	42	GC15M034751	0.830397785	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GJD2
APRT	Adenine Phosphoribosyltransferase	Protein coding	47	GC16M088810	0.829987705	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APRT
ACVR2A	Activin A Receptor Type 2A	Protein coding	45	GC02P147844	0.829466105	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACVR2A
SCFD1	Sec1 Family Domain Containing 1	Protein coding	38	GC14P030622	0.822983027	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCFD1
CHRNA5	Cholinergic Receptor Nicotinic α 5 Subunit	Protein coding	44	GC15P078565	0.817272305	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHRNA5
EZR	Ezrin	Protein coding	45	GC06M158765	0.815217376	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EZR
FCGR1A	Fc Fragment Of IgG Receptor Ia	Protein coding	41	GC01P149754	0.813992798	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FCGR1A
TAAR1	Trace Amine Associated Receptor 1	Protein coding	38	GC06M132644	0.813992798	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TAAR1

E2F3	E2F Transcription Factor 3	Protein coding	43	GC06P020402	0.811397851	https://www.genecards.org/cgi-bin/carddisp.pl?gene=E2F3
MEF2A	Myocyte Enhancer Factor 2A	Protein coding	47	GC15P099565	0.811391175	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MEF2A
HBEGF	Heparin Binding EGF Like Growth Factor	Protein coding	43	GC05M140332	0.810198665	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HBEGF
TUBA1B	Tubulin α 1b	Protein coding	43	GC12M049127	0.80987674	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TUBA1B
PAX6	Paired Box 6	Protein coding	48	GC11M031784	0.809711874	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PAX6
MAP3K5	Mitogen-Activated Protein Kinase Kinase Kinase 5	Protein coding	47	GC06M136557	0.808623374	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP3K5
PTGER1	Prostaglandin E Receptor 1	Protein coding	41	GC19M014444	0.808265865	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTGER1
ELOC	Elongin C	Protein coding	33	GC08M073939	0.803192258	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ELOC
CHRM3	Cholinergic Receptor Muscarinic 3	Protein coding	49	GC01P239386	0.801447749	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHRM3
PEX2	Peroxisomal Biogenesis Factor 2	Protein coding	44	GC08M076980	0.801447749	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PEX2
CCL22	C-C Motif Chemokine Ligand 22	Protein coding	37	GC16P057359	0.801447749	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCL22
MIR330	MicroRNA 330	RNA gene	19	GC19M048745	0.79873836	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR330
KCNIP2	Potassium Voltage-Gated Channel Interacting Protein 2	Protein coding	40	GC10M101825	0.798304141	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNIP2
MIR494	MicroRNA 494	RNA gene	17	GC14P106826	0.798304141	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR494
HTR1F	5-Hydroxytryptamine Receptor 1F	Protein coding	44	GC03P087792	0.797503352	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HTR1F
SLC5A7	Solute Carrier Family 5 Member 7	Protein coding	43	GC02P107969	0.797503352	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC5A7
KCNK10	Potassium Two Pore Domain Channel Subfamily K Member 10	Protein coding	40	GC14M088180	0.797503352	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNK10
RAMP3	Receptor Activity Modifying Protein 3	Protein coding	40	GC07P045163	0.797503352	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAMP3
ARHGEF16	Rho Guanine Nucleotide Exchange Factor 16	Protein coding	39	GC01P003454	0.797503352	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARHGEF16
KCNS1	Potassium Voltage-Gated Channel Modifier Subfamily S Member 1	Protein coding	39	GC20M045099	0.797503352	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNS1
CDR2	Cerebellar Degeneration Related Protein 2	Protein coding	38	GC16M022357	0.797503352	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDR2
DPYSL5	Dihydropyrimidinase Like 5	Protein coding	38	GC02P026847	0.797503352	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DPYSL5
FHL5	Four And A Half LIM Domains 5	Protein coding	38	GC06P096562	0.797503352	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FHL5
GABRQ	γ-Aminobutyric Acid Type A Receptor Subunit θ	Protein coding	38	GC0XP152638	0.797503352	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GABRQ
KCNK5	Potassium Two Pore Domain Channel Subfamily K Member 5	Protein coding	38	GC06M049284	0.797503352	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNK5
CALCB	Calcitonin Related Polypeptide β	Protein coding	37	GC11P014904	0.797503352	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CALCB
TMEM67	Transmembrane Protein 67	Protein coding	37	GC08P093754	0.797503352	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TMEM67
MRGPRG-AS1	MRGPRG Antisense RNA 1	RNA gene	18	GC11P003218	0.797503352	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MRGPRG-AS1
IL23A	Interleukin 23 Subunit α	Protein coding	38	GC12P056509	0.793510854	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL23A
CD58	CD58 Molecule	Protein coding	39	GC01M116514	0.790507197	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD58
HCN4	Hyperpolarization Activated Cyclic Nucleotide Gated Potassium Channel 4	Protein coding	48	GC15M073319	0.790501535	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HCN4
NR1H4	Nuclear Receptor Subfamily 1 Group H Member 4	Protein coding	48	GC12P100473	0.789487541	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NR1H4
COL9A2	Collagen Type IX α 2 Chain	Protein coding	43	GC01M040300	0.787650883	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COL9A2
GJC1	Gap Junction Protein γ 1	Protein coding	42	GC17M044800	0.786889791	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GJC1
DROSHA	Drosha Ribonuclease III	Protein coding	43	GC05M031401	0.784453094	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DROSHA
GFRA1	GDNF Family Receptor α 1	Protein coding	43	GC10M116056	0.784453094	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GFRA1
TNNI3K	TNNI3 Interacting Kinase	Protein coding	41	GC01P074235	0.784351408	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNNI3K
NINJ1	Ninjurin 1	Protein coding	39	GC09M093121	0.782953799	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NINJ1
CEBPA	CCAAT Enhancer Binding Protein α	Protein coding	47	GC19M033299	0.782004654	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CEBPA
HAS2	Hyaluronan Synthase 2	Protein coding	41	GC08M121594	0.781396747	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HAS2
PIK3CB	Phosphatidylinositol-4,5-Bisphosphate 3-Kinase Catalytic Subunit β	Protein coding	49	GC03M138652	0.777041912	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIK3CB
BAG3	BAG Cochaperone 3	Protein coding	44	GC10P119651	0.773385763	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BAG3
LCK	LCK Proto-Oncogene, Src Family Tyrosine Kinase	Protein coding	52	GC01P032251	0.77178967	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LCK
ALOX15B	Arachidonate 15-Lipoxygenase Type B	Protein coding	42	GC17P008039	0.771756172	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALOX15B
PLK4	Polo Like Kinase 4	Protein coding	48	GC04P127880	0.771329463	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLK4
HLA-S	Major Histocompatibility Complex, Class I, S (Pseudogene)	Pseudogene	7	GC06M031381	0.771329463	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HLA-S
RIPK1	Receptor Interacting Serine/Threonine Kinase 1	Protein coding	49	GC06P003073	0.770456254	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RIPK1
FKBP4	FKBP Prolyl Isomerase 4	Protein coding	44	GC12P002795	0.770243466	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FKBP4
MYOG	Myogenin	Protein coding	40	GC01M203083	0.770243466	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYOG
IRX4	Iroquois Homeobox 4	Protein coding	38	GC05M001877	0.767645121	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IRX4
CIB1	Calcium And Integrin Binding 1	Protein coding	41	GC15M090229	0.765729606	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CIB1
TBX2	T-Box Transcription Factor 2	Protein coding	45	GC17P061399	0.764579654	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TBX2
BCKDHA	Branched Chain Keto Acid Dehydrogenase E1 Subunit α	Protein coding	44	GC19P041761	0.764579654	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BCKDHA
GCSH	Glycine Cleavage System Protein H	Protein coding	43	GC16M081081	0.764579654	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GCSH
ZFPM2	Zinc Finger Protein, FOG Family Member 2	Protein coding	42	GC08P104590	0.764579654	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZFPM2
COX8A	Cytochrome C Oxidase Subunit 8A	Protein coding	41	GC11P064005	0.764579654	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COX8A
MED15	Mediator Complex Subunit 15	Protein coding	40	GC22P020602	0.764579654	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MED15
PGAP1	Post-GPI Attachment To Proteins Inositol Deacylase 1	Protein coding	40	GC02M196833	0.764579654	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PGAP1
EXOSC10	Exosome Component 10	Protein coding	38	GC01M011067	0.764579654	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EXOSC10
ZNF74	Zinc Finger Protein 74	Protein coding	38	GC22P020394	0.764579654	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZNF74
LMBRD1	LMBR1 Domain Containing 1	Protein coding	38	GC06M069675	0.764579654	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LMBRD1
CENPB	Centromere Protein B	Protein coding	37	GC20M003783	0.764579654	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CENPB
GKN1	Gastrokine 1	Protein coding	37	GC02P068974	0.764579654	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GKN1
PCDH18	Protocadherin 18	Protein coding	37	GC04M137518	0.764579654	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PCDH18
TSSK1B	Testis Specific Serine Kinase 1B	Protein coding	37	GC05M113432	0.764579654	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TSSK1B
LAX1	Lymphocyte Transmembrane Adaptor 1	Protein coding	36	GC01P203768	0.764579654	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LAX1
RIMBP2	RIMS Binding Protein 2	Protein coding	36	GC12M130396	0.764579654	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RIMBP2
AAR2	AAR2 Splicing Factor	Protein coding	35	GC20P036236	0.764579654	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AAR2
UFD1	Ubiquitin Recognition Factor In ER Associated Degradation 1	Protein coding	35	GC22M019450	0.764579654	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UFD1
HUS1B	HUS1 Checkpoint Clamp Component B	Protein coding	34	GC06M000655	0.764579654	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HUS1B
GGACT	γ-Glutamylamine Cyclotransferase	Protein coding	33	GC13M100530	0.764579654	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GGACT
KCTD19	Potassium Channel Tetramerization Domain Containing 19	Protein coding	32	GC16M067310	0.764579654	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCTD19
GLOD5	Glyoxalase Domain Containing 5	Protein coding	29	GC0XP048761	0.764579654	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLOD5
QARS1	Glutaminyl-TRNA Synthetase 1	Protein coding	28	GC03M049516	0.764579654	https://www.genecards.org/cgi-bin/carddisp.pl?gene=QARS1
STMND1	Stathmin Domain Containing 1	Protein coding	25	GC06P017104	0.764579654	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STMND1
TSIX	TSIX Transcript, XIST Antisense RNA	RNA gene	15	GC0XP073792	0.764579654	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TSIX

HSD17B10	Hydroxysteroid 17-β Dehydrogenase 10	Protein coding	45	GC0XM053431	0.76371932	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSD17B10
KIAA0586	KIAA0586	Protein coding	35	GC14P058427	0.76371932	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KIAA0586
MIR106B	MicroRNA 106b	RNA gene	22	GC07M100605	0.76371932	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR106B
MIR92A1	MicroRNA 92a-1	RNA gene	20	GC13P091474	0.76371932	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR92A1
LMO4	LIM Domain Only 4	Protein coding	39	GC01P087329	0.760850668	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LMO4
GNE	Glucosamine (UDP-N-Acetyl)-2-Epimerase/N-Acetylmannosamine Kinase	Protein coding	44	GC09M036214	0.760575712	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GNE
MSH6	MutS Homolog 6	Protein coding	50	GC02P047695	0.758908451	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MSH6
MLH1	MutL Homolog 1	Protein coding	48	GC03P036993	0.758908451	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MLH1
SGSH	N-Sulfoglucosamine Sulfohydrolase	Protein coding	44	GC17M080206	0.758908451	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SGSH
ATXN1	Ataxin 1	Protein coding	44	GC06M016299	0.754904509	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATXN1
OLIG1	Oligodendrocyte Transcription Factor 1	Protein coding	38	GC21P033070	0.754871011	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OLIG1
ARSH	Arylsulfatase Family Member H	Protein coding	34	GC0XP003006	0.752778769	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ARSH
RHO	Rhodopsin	Protein coding	47	GC03P131767	0.750165164	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RHO
YWHAZ	Tyrosine 3-Monooxygenase/Tryptophan 5-Monooxygenase Activation Protein ζ	Protein coding	47	GC08M100917	0.750165164	https://www.genecards.org/cgi-bin/carddisp.pl?gene=YWHAZ
EPX	Eosinophil Peroxidase	Protein coding	43	GC17P058192	0.750165164	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPX
POLR1F	RNA Polymerase I Subunit F	Protein coding	28	GC07M019695	0.749539733	https://www.genecards.org/cgi-bin/carddisp.pl?gene=POLR1F
SERPINA10	Serpin Family A Member 10	Protein coding	38	GC14M094280	0.748741329	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPINA10
CAPN5	Calpain 5	Protein coding	44	GC11P077066	0.748452902	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAPN5
CD2AP	CD2 Associated Protein	Protein coding	43	GC06P058546	0.748452902	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD2AP
CPT1B	Carnitine Palmitoyltransferase 1B	Protein coding	44	GC22M050785	0.748449147	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CPT1B
FSTL1	Follistatin Like 1	Protein coding	40	GC03M120392	0.74785322	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FSTL1
SOX17	SRY-Box Transcription Factor 17	Protein coding	43	GC08P054457	0.747522533	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SOX17
PER2	Period Circadian Regulator 2	Protein coding	44	GC02M238244	0.747383714	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PER2
YAP1	Yes1 Associated Transcriptional Regulator	Protein coding	48	GC11P102110	0.746050239	https://www.genecards.org/cgi-bin/carddisp.pl?gene=YAP1
SMPD2	Sphingomyelin Phosphodiesterase 2	Protein coding	41	GC06P109440	0.746050239	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SMPD2
MOAP1	Modulator Of Apoptosis 1	Protein coding	36	GC14M093182	0.746050239	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MOAP1
INTS5	Integrator Complex Subunit 5	Protein coding	34	GC11M071528	0.744887114	https://www.genecards.org/cgi-bin/carddisp.pl?gene=INTS5
IGFBP7	Insulin Like Growth Factor Binding Protein 7	Protein coding	45	GC04M057030	0.744276226	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IGFBP7
SGCB	Sarcoglycan β	Protein coding	40	GC04M052019	0.743978262	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SGCB
CRHR1	Corticotropin Releasing Hormone Receptor 1	Protein coding	45	GC17P045784	0.740412354	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRHR1
AKT1S1	AKT1 Substrate 1	Protein coding	40	GC19M049869	0.740161479	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKT1S1
MIR23A	MicroRNA 23a	RNA gene	21	GC19M014150	0.73836422	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR23A
CDR1-AS	CDR1 Antisense RNA	RNA gene	6	GC0XU902169	0.733860254	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDR1-AS
TAT	Tyrosine Aminotransferase	Protein coding	44	GC16M071565	0.728413761	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TAT
TFPI2	Tissue Factor Pathway Inhibitor 2	Protein coding	41	GC07M093885	0.726346612	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TFPI2
MMP16	Matrix Metallopeptidase 16	Protein coding	45	GC08M088032	0.72351557	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMP16
AP2B1	Adaptor Related Protein Complex 2 Subunit β 1	Protein coding	43	GC17P035578	0.722908258	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AP2B1
LINGO1	Leucine Rich Repeat And Ig Domain Containing 1	Protein coding	43	GC15M077613	0.722908258	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LINGO1
MRE11	MRE11 Homolog, Double Strand Break Repair Nuclease	Protein coding	41	GC11M095000	0.722908258	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MRE11
DHX37	DEAH-Box Helicase 37	Protein coding	38	GC12M124946	0.722908258	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DHX37
MFF	Mitochondrial Fission Factor	Protein coding	38	GC02P227325	0.722908258	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MFF
ATP2B4	ATPase Plasma Membrane Ca2+ Transporting 4	Protein coding	45	GC01P203626	0.718460798	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATP2B4
PTAFR	Platelet Activating Factor Receptor	Protein coding	43	GC01M028147	0.718460798	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTAFR
PLK1	Polo Like Kinase 1	Protein coding	50	GC16P023988	0.715517104	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLK1
PRKAB1	Protein Kinase AMP-Activated Non-Catalytic Subunit β 1	Protein coding	47	GC12P119632	0.711432934	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKAB1
RAP1A	RAP1A, Member Of RAS Oncogene Family	Protein coding	45	GC01P111542	0.711432934	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAP1A
PPP2R2B	Protein Phosphatase 2 Regulatory Subunit Bβ	Protein coding	45	GC05M146582	0.710214138	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPP2R2B
CLOCK	Clock Circadian Regulator	Protein coding	44	GC04M055427	0.708925247	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CLOCK
ATF4	Activating Transcription Factor 4	Protein coding	46	GC22P039558	0.706249833	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATF4
SNHG1	Small Nucleolar RNA Host Gene 1	RNA gene	20	GC11M071539	0.70332408	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNHG1
HLA-G	Major Histocompatibility Complex, Class I, G	Protein coding	44	GC06P058239	0.702683926	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HLA-G
JUP	Junction Plakoglobin	Protein coding	47	GC17M041754	0.701089978	https://www.genecards.org/cgi-bin/carddisp.pl?gene=JUP
F2RL3	F2R Like Thrombin Or Trypsin Receptor 3	Protein coding	46	GC19P016888	0.699047029	https://www.genecards.org/cgi-bin/carddisp.pl?gene=F2RL3
SIRT4	Sirtuin 4	Protein coding	40	GC12P120291	0.696979821	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SIRT4
PAK1	P21 (RAC1) Activated Kinase 1	Protein coding	48	GC11M077321	0.695385277	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PAK1
INPP5K	Inositol Polyphosphate-5-Phosphatase K	Protein coding	44	GC17M001494	0.693440616	https://www.genecards.org/cgi-bin/carddisp.pl?gene=INPP5K
CDH23	Cadherin Related 23	Protein coding	42	GC10P071396	0.693440616	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDH23
SLC29A1	Solute Carrier Family 29 Member 1 (Augustine Blood Group)	Protein coding	48	GC06P044219	0.689510763	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC29A1
POSTN	Periostin	Protein coding	43	GC13M037562	0.689510763	https://www.genecards.org/cgi-bin/carddisp.pl?gene=POSTN
LAMA4	Laminin Subunit α 4	Protein coding	44	GC06M112107	0.687026918	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LAMA4
PRMT1	Protein Arginine Methyltransferase 1	Protein coding	47	GC19P049675	0.685995102	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRMT1
PTPRJ	Protein Tyrosine Phosphatase Receptor Type J	Protein coding	47	GC11P048002	0.685995102	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRJ
PARVA	Parvin α	Protein coding	44	GC11P012398	0.685995102	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PARVA
PPIA	Peptidylprolyl Isomerase A	Protein coding	47	GC07P044807	0.685666263	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPIA
FDFT1	Farnesyl-Diphosphate Farnesyltransferase 1	Protein coding	45	GC08P011795	0.685666263	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FDFT1
TREM1	Triggering Receptor Expressed On Myeloid Cells 1	Protein coding	40	GC06M041267	0.685246289	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TREM1
SYK	Spleen Associated Tyrosine Kinase	Protein coding	50	GC09P091451	0.683771729	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SYK
HSPE1	Heat Shock Protein Family E (Hsp10) Member 1	Protein coding	40	GC02P197501	0.682505608	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSPE1
ZBTB7C	Zinc Finger And BTB Domain Containing 7C	Protein coding	33	GC18M048026	0.682505608	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZBTB7C
TSC22D3	TSC22 Domain Family Member 3	Protein coding	39	GC0XM107713	0.680671692	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TSC22D3
SESN2	Sestrin 2	Protein coding	38	GC01P028270	0.680671692	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SESN2
EFNB2	Ephrin B2	Protein coding	43	GC13M106489	0.675477684	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EFNB2
SLC22A4	Solute Carrier Family 22 Member 4	Protein coding	44	GC05P132294	0.673317969	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC22A4
SLC6A9	Solute Carrier Family 6 Member 9	Protein coding	49	GC01M043991	0.670294642	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC6A9
HCRTR1	Hypocretin Receptor 1	Protein coding	44	GC01P031587	0.669840634	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HCRTR1
DLD	Dihydrolipoamide Dehydrogenase	Protein coding	50	GC07P107890	0.669540465	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DLD

NISCH	Nischarin	Protein coding	41	GC03P052455	0.667599738	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NISCH
KRT19	Keratin 19	Protein coding	45	GC17M041523	0.663361549	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRT19
SLC22A6	Solute Carrier Family 22 Member 6	Protein coding	44	GC11M071550	0.663361549	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC22A6
MAZ	MYC Associated Zinc Finger Protein	Protein coding	41	GC16P029806	0.663361549	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAZ
MYOM2	Myomesin 2	Protein coding	38	GC08P002045	0.663361549	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYOM2
MIR424	MicroRNA 424	RNA gene	17	GC0XM134660	0.663361549	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR424
APC	APC Regulator Of WNT Signaling Pathway	Protein coding	48	GC05P112707	0.661694288	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APC
MSH2	MutS Homolog 2	Protein coding	48	GC02P047402	0.661694288	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MSH2
SLC11A1	Solute Carrier Family 11 Member 1	Protein coding	47	GC02P218382	0.661694288	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC11A1
POLD1	DNA Polymerase δ 1, Catalytic Subunit	Protein coding	46	GC19P050385	0.661694288	https://www.genecards.org/cgi-bin/carddisp.pl?gene=POLD1
BST1	Bone Marrow Stromal Cell Antigen 1	Protein coding	41	GC04P015704	0.661694288	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BST1
PRG2	Proteoglycan 2, Pro Eosinophil Major Basic Protein	Protein coding	40	GC11M057386	0.661694288	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRG2
ANO5	Anoctamin 5	Protein coding	38	GC11P021799	0.661694288	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANO5
CD52	CD52 Molecule	Protein coding	36	GC01P026317	0.661694288	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD52
STBD1	Starch Binding Domain 1	Protein coding	35	GC04P076306	0.661694288	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STBD1
HAR1B	Highly Accelerated Region 1B	RNA gene	18	GC20M063095	0.661694288	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HAR1B
KIR2DL3	Killer Cell Immunoglobulin Like Receptor, Two Ig Domains And Long Cytoplasmic Tail 3	Protein coding	37	GC19P057267	0.660194993	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KIR2DL3
KIR2DL2	Killer Cell Immunoglobulin Like Receptor, Two Ig Domains And Long Cytoplasmic Tail 2	Protein coding	24	GC19Mr00108	0.660194993	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KIR2DL2
KIR2DS2	Killer Cell Immunoglobulin Like Receptor, Two Ig Domains And Short Cytoplasmic Tail 2	Protein coding	24	GC19MR00122	0.660194993	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KIR2DS2
KIR2DS1	Killer Cell Immunoglobulin Like Receptor, Two Ig Domains And Short Cytoplasmic Tail 1	Protein coding	22	GC19Mr00063	0.660194993	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KIR2DS1
FGF10	Fibroblast Growth Factor 10	Protein coding	46	GC05M044340	0.659430027	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGF10
ST3GAL4	ST3 β-Galactoside α-2,3-Sialyltransferase 4	Protein coding	42	GC11P126355	0.659430027	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ST3GAL4
KCNJ8	Potassium Inwardly Rectifying Channel Subfamily J Member 8	Protein coding	44	GC12M021764	0.658339977	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNJ8
NID1	Nidogen 1	Protein coding	43	GC01M235975	0.653608739	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NID1
TEAD1	TEA Domain Transcription Factor 1	Protein coding	48	GC11P012674	0.653555572	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TEAD1
MIR766	MicroRNA 766	RNA gene	17	GC0XM119646	0.653555572	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR766
AQP3	Aquaporin 3 (Gill Blood Group)	Protein coding	47	GC09M033431	0.651782334	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AQP3
LRP2	LDL Receptor Related Protein 2	Protein coding	47	GC02M169127	0.651071668	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LRP2
LAMA2	Laminin Subunit α 2	Protein coding	43	GC06P128863	0.651071668	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LAMA2
PGR	Progesterone Receptor	Protein coding	50	GC11M101030	0.647279739	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PGR
GAMT	Guanidinoacetate N-Methyltransferase	Protein coding	46	GC19M001397	0.647279739	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GAMT
TIMM8A	Translocase Of Inner Mitochondrial Membrane 8A	Protein coding	43	GC0XM101345	0.647279739	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TIMM8A
PPARGC1B	PPARG Coactivator 1 β	Protein coding	36	GC05P149730	0.647279739	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPARGC1B
GPR68	G Protein-Coupled Receptor 68	Protein coding	43	GC14M091232	0.644716501	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPR68
SNHG16	Small Nucleolar RNA Host Gene 16	RNA gene	18	GC17P076811	0.644716501	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNHG16
PLA2G15	Phospholipase A2 Group XV	Protein coding	37	GC16P068245	0.640435576	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLA2G15
PLEKHG1	Pleckstrin Homology And RhoGEF Domain Containing G1	Protein coding	33	GC06P150599	0.638101101	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLEKHG1
CAMK2D	Calcium/Calmodulin Dependent Protein Kinase II δ	Protein coding	49	GC04M113418	0.636919916	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAMK2D
VGLL4	Vestigial Like Family Member 4	Protein coding	36	GC03M011615	0.636919916	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VGLL4
PPP2CA	Protein Phosphatase 2 Catalytic Subunit α	Protein coding	49	GC05M134194	0.63683784	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPP2CA
MSI1	Musashi RNA Binding Protein 1	Protein coding	40	GC12M120341	0.634989023	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MSI1
FTH1	Ferritin Heavy Chain 1	Protein coding	50	GC11M061959	0.632112205	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FTH1
SPTBN2	Spectrin β, Non-Erythrocytic 2	Protein coding	42	GC11M071804	0.632112205	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPTBN2
MYOZ2	Myozenin 2	Protein coding	38	GC04P119135	0.632112205	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYOZ2
UCN2	Urocortin 2	Protein coding	34	GC03M048561	0.632112205	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UCN2
C1QTNF9	C1q And TNF Related 9	Protein coding	33	GC13P024307	0.632112205	https://www.genecards.org/cgi-bin/carddisp.pl?gene=C1QTNF9
ITPKC	Inositol-Trisphosphate 3-Kinase C	Protein coding	44	GC19P041715	0.625694096	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITPKC
GNPTAB	N-Acetylglucosamine-1-Phosphate Transferase Subunits α And β	Protein coding	41	GC12M101745	0.625694096	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GNPTAB
GCM2	Glial Cells Missing Transcription Factor 2	Protein coding	41	GC06M010873	0.625694096	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GCM2
NRG2	Neuregulin 2	Protein coding	41	GC05M139810	0.625694096	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NRG2
PARL	Presenilin Associated Rhomboid Like	Protein coding	41	GC03M183826	0.625694096	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PARL
DGCR2	DiGeorge Syndrome Critical Region Gene 2	Protein coding	39	GC22M019037	0.625694096	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DGCR2
ELP4	Elongator Acetyltransferase Complex Subunit 4	Protein coding	39	GC11P031509	0.625694096	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ELP4
OPA3	Outer Mitochondrial Membrane Lipid Metabolism Regulator OPA3	Protein coding	39	GC19M045527	0.625694096	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OPA3
TOMM20	Translocase Of Outer Mitochondrial Membrane 20	Protein coding	39	GC01M235109	0.625694096	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TOMM20
DR1	Down-Regulator Of Transcription 1	Protein coding	38	GC01P093345	0.625694096	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DR1
SLC25A46	Solute Carrier Family 25 Member 46	Protein coding	38	GC05P110738	0.625694096	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC25A46
DENR	Density Regulated Re-Initiation And Release Factor	Protein coding	37	GC12P122752	0.625694096	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DENR
ZNF274	Zinc Finger Protein 274	Protein coding	36	GC19P058182	0.625694096	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZNF274
ZNF2	Zinc Finger Protein 2	Protein coding	35	GC02P095165	0.625694096	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZNF2
CDR2L	Cerebellar Degeneration Related Protein 2 Like	Protein coding	30	GC17P074987	0.625694096	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDR2L
THBS2	Thrombospondin 2	Protein coding	45	GC06M169215	0.622166991	https://www.genecards.org/cgi-bin/carddisp.pl?gene=THBS2
OGN	Osteoglycin	Protein coding	40	GC09M092383	0.621701598	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OGN
CMYA5	Cardiomyopathy Associated 5	Protein coding	33	GC05P079689	0.621701598	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CMYA5
GABBR2	γ-Aminobutyric Acid Type B Receptor Subunit 2	Protein coding	48	GC09M098288	0.620348454	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GABBR2
LRG1	Leucine Rich α-2-Glycoprotein 1	Protein coding	38	GC19M004546	0.620348454	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LRG1
TERF2	Telomeric Repeat Binding Factor 2	Protein coding	40	GC16M069355	0.616304874	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TERF2
RPS6KB1	Ribosomal Protein S6 Kinase B1	Protein coding	49	GC17P059893	0.615880311	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPS6KB1
MIR486-1	MicroRNA 486-1	RNA gene	17	GC08M041660	0.615880311	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR486-1
PARP2	Poly(ADP-Ribose) Polymerase 2	Protein coding	45	GC14P020343	0.615827143	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PARP2
PARP4	Poly(ADP-Ribose) Polymerase Family Member 4	Protein coding	43	GC13M024420	0.615827143	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PARP4
SLC9A2	Solute Carrier Family 9 Member A2	Protein coding	41	GC02P102620	0.615827143	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC9A2
PARP3	Poly(ADP-Ribose) Polymerase Family Member 3	Protein coding	39	GC03P052065	0.615827143	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PARP3
GBA3	Glucosylceramidase β 3 (Gene/Pseudogene)	Protein coding	35	GC04P022694	0.615827143	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GBA3
ITGB8	Integrin Subunit β 8	Protein coding	41	GC07P020329	0.612431824	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGB8
TNXA	Tenascin XA (Pseudogene)	Pseudogene	22	GC06M049139	0.606614888	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNXA

HIF1AN	Hypoxia Inducible Factor 1 Subunit α Inhibitor	Protein coding	44	GC10P100529	0.606553793	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HIF1AN
CDH1	Cadherin 1	Protein coding	50	GC16P068737	0.605163574	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDH1
NPAS4	Neuronal PAS Domain Protein 4	Protein coding	36	GC11P066924	0.605083346	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPAS4
TERF1	Telomeric Repeat Binding Factor 1	Protein coding	42	GC08P073003	0.603420973	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TERF1
ESRRA	Estrogen Related Receptor α	Protein coding	48	GC11P064305	0.60088259	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ESRRA
TP63	Tumor Protein P63	Protein coding	48	GC03P189598	0.599191487	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TP63
PLSCR3	Phospholipid Scramblase 3	Protein coding	37	GC17M007389	0.599191487	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLSCR3
TATDN1	TatD DNase Domain Containing 1	Protein coding	35	GC08M124488	0.599191487	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TATDN1
MRPL52	Mitochondrial Ribosomal Protein L52	Protein coding	32	GC14P022829	0.599191487	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MRPL52
EMILIN3	Elastin Microfibril Interfacer 3	Protein coding	30	GC20M041359	0.599191487	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EMILIN3
FGF13	Fibroblast Growth Factor 13	Protein coding	43	GC0XM138615	0.599153757	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FGF13
AKT3	AKT Serine/Threonine Kinase 3	Protein coding	53	GC01M243488	0.598204553	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AKT3
ANXA2	Annexin A2	Protein coding	48	GC15M060347	0.598204553	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANXA2
DSG2	Desmoglein 2	Protein coding	46	GC18P031498	0.598204553	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DSG2
CSF2RA	Colony Stimulating Factor 2 Receptor Subunit α	Protein coding	45	GC0XP001349	0.596601725	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSF2RA
ACD	ACD Shelterin Complex Subunit And Telomerase Recruitment Factor	Protein coding	44	GC16M067658	0.590023041	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACD
POT1	Protection Of Telomeres 1	Protein coding	43	GC07M124822	0.590023041	https://www.genecards.org/cgi-bin/carddisp.pl?gene=POT1
TERF2IP	TERF2 Interacting Protein	Protein coding	43	GC16P075647	0.590023041	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TERF2IP
TEP1	Telomerase Associated Protein 1	Protein coding	40	GC14M020365	0.590023041	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TEP1
PAFAH2	Platelet Activating Factor Acetylhydrolase 2	Protein coding	38	GC01M025971	0.589152992	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PAFAH2
MAP2K1	Mitogen-Activated Protein Kinase Kinase 1	Protein coding	54	GC15P066386	0.588674128	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP2K1
EFNB1	Ephrin B1	Protein coding	46	GC0XP068828	0.586557567	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EFNB1
DIABLO	Diablo IAP-Binding Mitochondrial Protein	Protein coding	47	GC12M122208	0.586211801	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DIABLO
RAF1	Raf-1 Proto-Oncogene, Serine/Threonine Kinase	Protein coding	54	GC03M012583	0.585501313	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAF1
SHC1	SHC Adaptor Protein 1	Protein coding	45	GC01M154962	0.584393203	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SHC1
FABP5	Fatty Acid Binding Protein 5	Protein coding	41	GC08P081282	0.584393203	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FABP5
CARD16	Caspase Recruitment Domain Family Member 16	Protein coding	36	GC11M105041	0.584140658	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CARD16
CIDEA	Cell Death Inducing DFFA Like Effector A	Protein coding	41	GC18P012254	0.583491027	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CIDEA
ELAVL3	ELAV Like RNA Binding Protein 3	Protein coding	37	GC19M011451	0.583491027	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ELAVL3
TRIM72	Tripartite Motif Containing 72	Protein coding	36	GC16P033522	0.583491027	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRIM72
SLC23A2	Solute Carrier Family 23 Member 2	Protein coding	42	GC20M004852	0.583481789	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC23A2
ITGA7	Integrin Subunit α 7	Protein coding	47	GC12M055684	0.580565214	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGA7
TRAF2	TNF Receptor Associated Factor 2	Protein coding	45	GC09P136881	0.579210103	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRAF2
ESRRG	Estrogen Related Receptor γ	Protein coding	45	GC01M216503	0.579013944	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ESRRG
MIR485	MicroRNA 485	RNA gene	18	GC14P106822	0.576476574	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR485
IRAK4	Interleukin 1 Receptor Associated Kinase 4	Protein coding	48	GC12P043758	0.573342741	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IRAK4
TJP2	Tight Junction Protein 2	Protein coding	46	GC09P069121	0.573342741	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TJP2
POU5F1	POU Class 5 Homeobox 1	Protein coding	46	GC06M049067	0.572896957	https://www.genecards.org/cgi-bin/carddisp.pl?gene=POU5F1
CYGB	Cytoglobin	Protein coding	38	GC17M076527	0.57286346	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYGB
FAH	Fumarylacetoacetate Hydrolase	Protein coding	47	GC15P080152	0.568496406	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FAH
PDE11A	Phosphodiesterase 11A	Protein coding	47	GC02M177624	0.564893901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDE11A
SNHG12	Small Nucleolar RNA Host Gene 12	RNA gene	22	GC01M028578	0.564893901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNHG12
OPRL1	Opioid Related Nociceptin Receptor 1	Protein coding	46	GC20P064080	0.564268112	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OPRL1
MSR1	Macrophage Scavenger Receptor 1	Protein coding	45	GC08M016107	0.564268112	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MSR1
CPE	Carboxypeptidase E	Protein coding	44	GC04P165361	0.564268112	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CPE
SERPINB2	Serpin Family B Member 2	Protein coding	43	GC18P063871	0.564268112	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPINB2
PIGF	Phosphatidylinositol Glycan Anchor Biosynthesis Class F	Protein coding	40	GC02M046580	0.564268112	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PIGF
NOS1AP	Nitric Oxide Synthase 1 Adaptor Protein	Protein coding	39	GC01P162069	0.564268112	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NOS1AP
PAPPA2	Pappalysin 2	Protein coding	37	GC01P176463	0.564268112	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PAPPA2
MIRLET7F1	MicroRNA Let-7f-1	RNA gene	19	GC09P094193	0.563137054	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIRLET7F1
INPPL1	Inositol Polyphosphate Phosphatase Like 1	Protein coding	50	GC11P072223	0.560476124	https://www.genecards.org/cgi-bin/carddisp.pl?gene=INPPL1
PTPN2	Protein Tyrosine Phosphatase Non-Receptor Type 2	Protein coding	47	GC18M019720	0.560476124	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPN2
ASAH1	N-Acylsphingosine Amidohydrolase 1	Protein coding	46	GC08M018055	0.560476124	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ASAH1
AGRN	Agrin	Protein coding	44	GC01P001020	0.560476124	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGRN
NRF1	Nuclear Respiratory Factor 1	Protein coding	43	GC07P129611	0.560476124	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NRF1
TCAP	Titin-Cap	Protein coding	43	GC17P039673	0.560476124	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TCAP
PNPLA3	Patatin Like Phospholipase Domain Containing 3	Protein coding	40	GC22P043923	0.560476124	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PNPLA3
PMS1	PMS1 Homolog 1, Mismatch Repair System Component	Protein coding	41	GC02P189784	0.549757302	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PMS1
CHEK1	Checkpoint Kinase 1	Protein coding	50	GC11P125625	0.547526538	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHEK1
BARD1	BRCA1 Associated RING Domain 1	Protein coding	47	GC02M214725	0.547308803	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BARD1
PACC1	Proton Activated Chloride Channel 1	Protein coding	26	GC01M212365	0.547308803	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PACC1
ADAM10	ADAM Metallopeptidase Domain 10	Protein coding	52	GC15M058588	0.54575336	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADAM10
HSPA9	Heat Shock Protein Family A (Hsp70) Member 9	Protein coding	47	GC05M138554	0.54575336	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSPA9
MIR532	MicroRNA 532	RNA gene	16	GC0XP050004	0.54575336	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR532
MIR487B	MicroRNA 487b	RNA gene	18	GC14P106824	0.541634917	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR487B
SRF	Serum Response Factor	Protein coding	41	GC06P043171	0.539623678	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SRF
SLC4A7	Solute Carrier Family 4 Member 7	Protein coding	42	GC03M027372	0.535547674	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC4A7
ASIC2	Acid Sensing Ion Channel Subunit 2	Protein coding	39	GC17M033013	0.535318017	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ASIC2
MIR15B	MicroRNA 15b	RNA gene	19	GC03P160404	0.535318017	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR15B
DSC2	Desmocollin 2	Protein coding	45	GC18M031058	0.534897983	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DSC2
LMAN1	Lectin, Mannose Binding 1	Protein coding	45	GC18M059327	0.53212297	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LMAN1
GSS	Glutathione Synthetase	Protein coding	46	GC20M034928	0.524742603	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GSS
ATP2A3	ATPase Sarcoplasmic/Endoplasmic Reticulum Ca2+ Transporting 3	Protein coding	45	GC17M003923	0.524742603	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATP2A3
PPP3CB	Protein Phosphatase 3 Catalytic Subunit β	Protein coding	45	GC10M073436	0.524742603	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPP3CB
ABCC5	ATP Binding Cassette Subfamily C Member 5	Protein coding	43	GC03M183919	0.519031882	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCC5
GSTA4	Glutathione S-Transferase α 4	Protein coding	44	GC06M052977	0.517228901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GSTA4

OIP5-AS1	OIP5 Antisense RNA 1	RNA gene	18	GC15P041283	0.517228901	https://www.genecards.org/cgi-bin/carddisp.pl?gene=OIP5-AS1
BIRC3	Baculoviral IAP Repeat Containing 3	Protein coding	47	GC11P102317	0.515469313	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BIRC3
ACSS2	Acyl-CoA Synthetase Short Chain Family Member 2	Protein coding	44	GC20P034873	0.515469313	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACSS2
PDLIM1	PDZ And LIM Domain 1	Protein coding	40	GC10M095237	0.515469313	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDLIM1
ALDH9A1	Aldehyde Dehydrogenase 9 Family Member A1	Protein coding	41	GC01M165671	0.515217662	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDH9A1
GLUD1	Glutamate Dehydrogenase 1	Protein coding	50	GC10M087050	0.514079034	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLUD1
IL3RA	Interleukin 3 Receptor Subunit α	Protein coding	42	GC0XP001336	0.514079034	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL3RA
MIR200A	MicroRNA 200a	RNA gene	22	GC01P002223	0.514079034	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR200A
ZNF98	Zinc Finger Protein 98	Protein coding	29	GC19M022391	0.513802052	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZNF98
MTRFR	Mitochondrial Translation Release Factor In Rescue	Protein coding	29	GC12P123233	0.51375711	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MTRFR
ACTN1	Actinin α 1	Protein coding	50	GC14M068874	0.513753295	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACTN1
ACADM	Acyl-CoA Dehydrogenase Medium Chain	Protein coding	46	GC01P075724	0.50979811	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACADM
EIF2S1	Eukaryotic Translation Initiation Factor 2 Subunit α	Protein coding	44	GC14P067359	0.50979811	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EIF2S1
FCN3	Ficolin 3	Protein coding	43	GC01M027398	0.50979811	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FCN3
MOV10	Mov10 RISC Complex RNA Helicase	Protein coding	40	GC01P112673	0.509580374	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MOV10
PGK1	Phosphoglycerate Kinase 1	Protein coding	48	GC0XP077949	0.503668427	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PGK1
CYP2C18	Cytochrome P450 Family 2 Subfamily C Member 18	Protein coding	44	GC10P094684	0.503668427	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYP2C18
PPP1R15A	Protein Phosphatase 1 Regulatory Subunit 15A	Protein coding	40	GC19P048872	0.502277315	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPP1R15A
SRR	Serine Racemase	Protein coding	43	GC17P002303	0.499387532	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SRR
CCND2	Cyclin D2	Protein coding	48	GC12P013105	0.497589588	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCND2
FHL1	Four And A Half LIM Domains 1	Protein coding	46	GC0XP136146	0.497589588	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FHL1
CCR7	C-C Motif Chemokine Receptor 7	Protein coding	45	GC17M040556	0.497589588	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCR7
XRCC5	X-Ray Repair Cross Complementing 5	Protein coding	44	GC02P216107	0.497589588	https://www.genecards.org/cgi-bin/carddisp.pl?gene=XRCC5
ATG5	Autophagy Related 5	Protein coding	43	GC06M106045	0.497589588	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATG5
CRHR2	Corticotropin Releasing Hormone Receptor 2	Protein coding	43	GC07M030651	0.497589588	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CRHR2
TTPA	α Tocopherol Transfer Protein	Protein coding	41	GC08M063048	0.497589588	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TTPA
RBM8A	RNA Binding Motif Protein 8A	Protein coding	40	GC01M145921	0.497589588	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RBM8A
SYN2	Synapsin II	Protein coding	39	GC03P012020	0.497589588	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SYN2
TRAPPC10	Trafficking Protein Particle Complex Subunit 10	Protein coding	38	GC21P044012	0.497589588	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRAPPC10
CGB3	Chorionic Gonadotropin Subunit β 3	Protein coding	30	GC19M049582	0.497589588	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CGB3
MIR193A	MicroRNA 193a	RNA gene	18	GC17P031559	0.497589588	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR193A
TPI1	Triosephosphate Isomerase 1	Protein coding	47	GC12P013180	0.492406487	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TPI1
AMD1	Adenosylmethionine Decarboxylase 1	Protein coding	44	GC06P110814	0.492406487	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AMD1
KHSRP	KH-Type Splicing Regulatory Protein	Protein coding	42	GC19M006413	0.492406487	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KHSRP
FTMT	Ferritin Mitochondrial	Protein coding	38	GC05P121851	0.492406487	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FTMT
EEF2	Eukaryotic Translation Elongation Factor 2	Protein coding	48	GC19M003976	0.489672989	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EEF2
COL18A1	Collagen Type XVIII α 1 Chain	Protein coding	44	GC21P045405	0.489639491	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COL18A1
SENP2	SUMO Specific Peptidase 2	Protein coding	40	GC03P185582	0.489639491	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SENP2
SLC1A4	Solute Carrier Family 1 Member 4	Protein coding	44	GC02P064988	0.486267567	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC1A4
GRIN2C	Glutamate Ionotropic Receptor NMDA Type Subunit 2C	Protein coding	45	GC17M074842	0.479262412	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRIN2C
FBLN1	Fibulin 1	Protein coding	43	GC22P045502	0.477801919	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FBLN1
PRG4	Proteoglycan 4	Protein coding	40	GC01P186296	0.477801919	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRG4
CCT8	Chaperonin Containing TCP1 Subunit 8	Protein coding	39	GC21M029055	0.477801919	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCT8
S100A12	S100 Calcium Binding Protein A12	Protein coding	38	GC01M153373	0.477801919	https://www.genecards.org/cgi-bin/carddisp.pl?gene=S100A12
LCORL	Ligand Dependent Nuclear Receptor Corepressor Like	Protein coding	34	GC04M017844	0.477801919	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LCORL
COQ8B	Coenzyme Q8B	Protein coding	32	GC19M048448	0.477801919	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COQ8B
CDK2	Cyclin Dependent Kinase 2	Protein coding	51	GC12P055966	0.476128548	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CDK2
CUL3	Cullin 3	Protein coding	47	GC02M224470	0.476128548	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CUL3
FHL2	Four And A Half LIM Domains 2	Protein coding	45	GC02M105357	0.475682795	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FHL2
CA3	Carbonic Anhydrase 3	Protein coding	41	GC08P085373	0.473327279	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CA3
GLI3	GLI Family Zinc Finger 3	Protein coding	49	GC07M041960	0.460722923	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLI3
RDX	Radixin	Protein coding	49	GC11M109864	0.460722923	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RDX
MITF	Melanocyte Inducing Transcription Factor	Protein coding	48	GC03P069788	0.460722923	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MITF
ALDH5A1	Aldehyde Dehydrogenase 5 Family Member A1	Protein coding	45	GC06P024494	0.460722923	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALDH5A1
CACNB3	Calcium Voltage-Gated Channel Auxiliary Subunit β 3	Protein coding	43	GC12P048813	0.460722923	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CACNB3
CACNB1	Calcium Voltage-Gated Channel Auxiliary Subunit β 1	Protein coding	43	GC17M039173	0.460722923	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CACNB1
UBQLN1	Ubiquilin 1	Protein coding	43	GC09M083659	0.460722923	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UBQLN1
SCNN1D	Sodium Channel Epithelial 1 Subunit δ	Protein coding	42	GC01P001280	0.460722923	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCNN1D
VNN1	Vanin 1	Protein coding	43	GC06M132680	0.460689425	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VNN1
ATP5PF	ATP Synthase Peripheral Stalk Subunit F6	Protein coding	32	GC21M025777	0.457806408	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATP5PF
CLCN3	Chloride Voltage-Gated Channel 3	Protein coding	42	GC04P169612	0.45368427	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CLCN3
MIRLET7F2	MicroRNA Let-7f-2	RNA gene	18	GC0XM053605	0.45368427	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIRLET7F2
SLC5A1	Solute Carrier Family 5 Member 1	Protein coding	50	GC22P032043	0.450312376	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC5A1
SLC22A5	Solute Carrier Family 22 Member 5	Protein coding	47	GC05P132369	0.450312376	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC22A5
DICER1	Dicer 1, Ribonuclease III	Protein coding	48	GC14M095086	0.448539138	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DICER1
GPRC6A	G Protein-Coupled Receptor Class C Group 6 Member A	Protein coding	39	GC06M116793	0.448539138	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPRC6A
DGKQ	Diacylglycerol Kinase θ	Protein coding	42	GC04M000942	0.438366979	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DGKQ
FUT3	Fucosyltransferase 3 (Lewis Blood Group)	Protein coding	43	GC19M005843	0.435735106	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FUT3
LCT	Lactase	Protein coding	43	GC02M135787	0.435735106	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LCT
APOBEC2	Apolipoprotein B MRNA Editing Enzyme Catalytic Subunit 2	Protein coding	38	GC06P041053	0.435735106	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APOBEC2
MEPE	Matrix Extracellular Phosphoglycoprotein	Protein coding	35	GC04P087821	0.435735106	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MEPE
PTPRU	Protein Tyrosine Phosphatase Receptor Type U	Protein coding	42	GC01P029236	0.435598791	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTPRU
DLGAP4	DLG Associated Protein 4	Protein coding	38	GC20P036308	0.435598791	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DLGAP4
CABIN1	Calcineurin Binding Protein 1	Protein coding	41	GC22P024011	0.428665698	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CABIN1
GOSR1	Golgi SNAP Receptor Complex Member 1	Protein coding	39	GC17P030477	0.428665698	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GOSR1
SHOX	Short Stature Homeobox	Protein coding	38	GC0XP000624	0.428665698	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SHOX

ADGRL1	Adhesion G Protein-Coupled Receptor L1	Protein coding	35	GC19M014147	0.428665698	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADGRL1
MIR181C	MicroRNA 181c	RNA gene	20	GC19P013891	0.424734235	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR181C
HDAC2	Histone Deacetylase 2	Protein coding	51	GC06M113933	0.422994494	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HDAC2
DNM2	Dynamin 2	Protein coding	50	GC19P010718	0.422994494	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DNM2
PBX1	PBX Homeobox 1	Protein coding	49	GC01P164524	0.422994494	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PBX1
YWHAE	Tyrosine 3-Monooxygenase/Tryptophan 5-Monooxygenase Activation Protein ε	Protein coding	49	GC17M001346	0.422994494	https://www.genecards.org/cgi-bin/carddisp.pl?gene=YWHAE
GLB1	Galactosidase β 1	Protein coding	48	GC03M032963	0.422994494	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLB1
LAMB1	Laminin Subunit β 1	Protein coding	48	GC07M107923	0.422994494	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LAMB1
KCNJ6	Potassium Inwardly Rectifying Channel Subfamily J Member 6	Protein coding	47	GC21M037607	0.422994494	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KCNJ6
CACNA1F	Calcium Voltage-Gated Channel Subunit α1 F	Protein coding	45	GC0XM049205	0.422994494	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CACNA1F
ETFA	Electron Transfer Flavoprotein Subunit α	Protein coding	45	GC15M076215	0.422994494	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ETFA
ROBO1	Roundabout Guidance Receptor 1	Protein coding	45	GC03M078597	0.422994494	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ROBO1
NPY2R	Neuropeptide Y Receptor Y2	Protein coding	44	GC04P155173	0.422994494	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NPY2R
TDP1	Tyrosyl-DNA Phosphodiesterase 1	Protein coding	44	GC14P089954	0.422994494	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TDP1
RPS6	Ribosomal Protein S6	Protein coding	44	GC09M019375	0.422994494	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPS6
CHRNE	Cholinergic Receptor Nicotinic ε Subunit	Protein coding	43	GC17M004897	0.422994494	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHRNE
EEF1A1	Eukaryotic Translation Elongation Factor 1 α 1	Protein coding	43	GC06M073515	0.422994494	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EEF1A1
RGS4	Regulator Of G Protein Signaling 4	Protein coding	43	GC01P163038	0.422994494	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RGS4
ANKRD1	Ankyrin Repeat Domain 1	Protein coding	42	GC10M090912	0.422994494	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANKRD1
PRKRA	Protein Activator Of Interferon Induced Protein Kinase EIF2AK2	Protein coding	42	GC02M178431	0.422994494	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKRA
WWP1	WW Domain Containing E3 Ubiquitin Protein Ligase 1	Protein coding	42	GC08P086342	0.422994494	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WWP1
RHD	Rh Blood Group D Antigen	Protein coding	41	GC01P025272	0.422994494	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RHD
UPF1	UPF1 RNA Helicase And ATPase	Protein coding	41	GC19P018831	0.422994494	https://www.genecards.org/cgi-bin/carddisp.pl?gene=UPF1
PLEK	Pleckstrin	Protein coding	40	GC02P068365	0.422994494	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLEK
DCAF17	DDB1 And CUL4 Associated Factor 17	Protein coding	36	GC02P171434	0.422994494	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DCAF17
MIR455	MicroRNA 455	RNA gene	19	GC09P114209	0.422994494	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR455
VASH1	Vasohibin 1	Protein coding	37	GC14P076761	0.422960997	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VASH1
BAG6	BAG Cochaperone 6	Protein coding	36	GC06M031639	0.422960997	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BAG6
IFNE	Interferon ε	Protein coding	34	GC09M021480	0.422960997	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IFNE
IFNGR1	Interferon γ Receptor 1	Protein coding	49	GC06M137197	0.416864842	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IFNGR1
KRT7	Keratin 7	Protein coding	42	GC12P052232	0.416864842	https://www.genecards.org/cgi-bin/carddisp.pl?gene=KRT7
CD47	CD47 Molecule	Protein coding	43	GC03M108043	0.416295707	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD47
RXRA	Retinoid X Receptor α	Protein coding	50	GC09P134317	0.412583917	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RXRA
SLC29A3	Solute Carrier Family 29 Member 3	Protein coding	44	GC10P071320	0.412583917	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC29A3
IL12RB2	Interleukin 12 Receptor Subunit β 2	Protein coding	43	GC01P067307	0.412583917	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL12RB2
POLR1C	RNA Polymerase I And III Subunit C	Protein coding	43	GC06P058522	0.412583917	https://www.genecards.org/cgi-bin/carddisp.pl?gene=POLR1C
RHOT1	Ras Homolog Family Member T1	Protein coding	43	GC17P032142	0.412583917	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RHOT1
SLC17A6	Solute Carrier Family 17 Member 6	Protein coding	41	GC11P022359	0.412583917	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC17A6
SERPINE2	Serpin Family E Member 2	Protein coding	41	GC02M223975	0.412583917	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SERPINE2
SLC17A7	Solute Carrier Family 17 Member 7	Protein coding	41	GC19M049429	0.412583917	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC17A7
AGO2	Argonaute RISC Catalytic Component 2	Protein coding	40	GC08M140522	0.412583917	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AGO2
WBP1L	WW Domain Binding Protein 1 Like	Protein coding	32	GC10P102743	0.412583917	https://www.genecards.org/cgi-bin/carddisp.pl?gene=WBP1L
MIR139	MicroRNA 139	RNA gene	20	GC11M072615	0.412583917	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR139
MIR1306	MicroRNA 1306	RNA gene	18	GC22P020086	0.412583917	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR1306
MIR497	MicroRNA 497	RNA gene	18	GC17M007022	0.397769928	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR497
ANXA1	Annexin A1	Protein coding	48	GC09P073151	0.396717787	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANXA1
CHRM2	Cholinergic Receptor Muscarinic 2	Protein coding	48	GC07P136868	0.392458797	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHRM2
GLS	Glutaminase	Protein coding	47	GC02P190880	0.392458797	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLS
MYOD1	Myogenic Differentiation 1	Protein coding	47	GC11P017741	0.392458797	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYOD1
PHB	Prohibitin	Protein coding	47	GC17M049404	0.392458797	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PHB
HTR6	5-Hydroxytryptamine Receptor 6	Protein coding	43	GC01P019666	0.392458797	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HTR6
CCL21	C-C Motif Chemokine Ligand 21	Protein coding	42	GC09M034709	0.392458797	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCL21
CYTL1	Cytokine Like 1	Protein coding	33	GC04M005016	0.392458797	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYTL1
ACKR2	Atypical Chemokine Receptor 2	Protein coding	38	GC03P042804	0.391286701	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACKR2
MIR1-1	MicroRNA 1-1	RNA gene	20	GC20P063033	0.386821538	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR1-1
GPI	Glucose-6-Phosphate Isomerase	Protein coding	46	GC19P034359	0.380469501	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPI
MAP3K14	Mitogen-Activated Protein Kinase Kinase Kinase 14	Protein coding	44	GC17M045263	0.380469501	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP3K14
GLRX	Glutaredoxin	Protein coding	44	GC05M095752	0.380384743	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GLRX
PTGIR	Prostaglandin I2 Receptor	Protein coding	47	GC19M048824	0.377278388	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PTGIR
FRMD4B	FERM Domain Containing 4B	Protein coding	32	GC03M069168	0.374838114	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FRMD4B
GATD3	Glutamine Amidotransferase Class 1 Domain Containing 3	Protein coding	28	GC21P044135	0.373458833	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GATD3
SUCNR1	Succinate Receptor 1	Protein coding	40	GC03P151873	0.366880655	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SUCNR1
F11R	F11 Receptor	Protein coding	43	GC01M160995	0.365581572	https://www.genecards.org/cgi-bin/carddisp.pl?gene=F11R
ITGA6	Integrin Subunit α 6	Protein coding	49	GC02P172427	0.363745809	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGA6
EPHB2	EPH Receptor B2	Protein coding	51	GC01P022710	0.363508761	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EPHB2
CASP6	Caspase 6	Protein coding	48	GC04M109688	0.363508761	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CASP6
MYLK2	Myosin Light Chain Kinase 2	Protein coding	48	GC20P031819	0.363508761	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYLK2
PLD1	Phospholipase D1	Protein coding	48	GC03M171600	0.363508761	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLD1
DUSP1	Dual Specificity Phosphatase 1	Protein coding	47	GC05M172768	0.363508761	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DUSP1
GJB2	Gap Junction Protein β 2	Protein coding	47	GC13M020187	0.363508761	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GJB2
MMP19	Matrix Metallopeptidase 19	Protein coding	47	GC12M055835	0.363508761	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MMP19
HCN2	Hyperpolarization Activated Cyclic Nucleotide Gated Potassium And Sodium Channel 2	Protein coding	46	GC19P000589	0.363508761	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HCN2
CHRM1	Cholinergic Receptor Muscarinic 1	Protein coding	46	GC11M071549	0.363508761	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHRM1
RORC	RAR Related Orphan Receptor C	Protein coding	45	GC01M151806	0.363508761	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RORC
AOX1	Aldehyde Oxidase 1	Protein coding	44	GC02P200585	0.363508761	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AOX1
COPS5	COP9 Signalosome Subunit 5	Protein coding	43	GC08M067043	0.363508761	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COPS5

MYL1	Myosin Light Chain 1	Protein coding	42	GC02M210290	0.363508761	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MYL1
CAMP	Cathelicidin Antimicrobial Peptide	Protein coding	41	GC03P048359	0.363508761	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CAMP
SPRED1	Sprouty Related EVH1 Domain Containing 1	Protein coding	41	GC15P038252	0.363508761	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SPRED1
MICA	MHC Class I Polypeptide-Related Sequence A	Protein coding	38	GC06P031399	0.363508761	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MICA
MIP	Major Intrinsic Protein Of Lens Fiber	Protein coding	41	GC12M056449	0.351861745	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIP
ITPKB	Inositol-Trisphosphate 3-Kinase B	Protein coding	44	GC01M226631	0.34451431	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITPKB
PROK2	Prokineticin 2	Protein coding	44	GC03M071771	0.33793062	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PROK2
TNFRSF10B	TNF Receptor Superfamily Member 10b	Protein coding	50	GC08M023020	0.332517266	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TNFRSF10B
ITGB4	Integrin Subunit β 4	Protein coding	48	GC17P075721	0.332517266	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGB4
MIR217	MicroRNA 217	RNA gene	19	GC02M055982	0.332517266	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR217
MIR665	MicroRNA 665	RNA gene	13	GC14P106835	0.331370205	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR665
SLC8A2	Solute Carrier Family 8 Member A2	Protein coding	41	GC19M047428	0.327790588	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC8A2
PEBP1	Phosphatidylethanolamine Binding Protein 1	Protein coding	44	GC12P118135	0.326429993	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PEBP1
ACVR2B	Activin A Receptor Type 2B	Protein coding	50	GC03P038453	0.325780332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACVR2B
ANPEP	Alanyl Aminopeptidase, Membrane	Protein coding	50	GC15M089784	0.325780332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANPEP
STAT6	Signal Transducer And Activator Of Transcription 6	Protein coding	50	GC12M057095	0.325780332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STAT6
RPA1	Replication Protein A1	Protein coding	46	GC17P001829	0.325780332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RPA1
ALPP	Alkaline Phosphatase, Placental	Protein coding	45	GC02P232378	0.325780332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ALPP
GPR37	G Protein-Coupled Receptor 37	Protein coding	45	GC07M124745	0.325780332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPR37
CYC1	Cytochrome C1	Protein coding	45	GC08P144095	0.325780332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CYC1
LAMB2	Laminin Subunit β 2	Protein coding	45	GC03M049121	0.325780332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LAMB2
FEN1	Flap Structure-Specific Endonuclease 1	Protein coding	45	GC11P061793	0.325780332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FEN1
MDH1	Malate Dehydrogenase 1	Protein coding	45	GC02P063557	0.325780332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MDH1
PDIA3	Protein Disulfide Isomerase Family A Member 3	Protein coding	45	GC15P043746	0.325780332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PDIA3
ACAA2	Acetyl-CoA Acyltransferase 2	Protein coding	44	GC18M049782	0.325780332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ACAA2
COL6A2	Collagen Type VI α 2 Chain	Protein coding	44	GC21P046098	0.325780332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COL6A2
XRCC4	X-Ray Repair Cross Complementing 4	Protein coding	44	GC05P083077	0.325780332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=XRCC4
COL6A1	Collagen Type VI α 1 Chain	Protein coding	43	GC21P045981	0.325780332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=COL6A1
CD82	CD82 Molecule	Protein coding	43	GC11P044586	0.325780332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CD82
TPP1	Tripeptidyl Peptidase 1	Protein coding	43	GC11M006620	0.325780332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TPP1
SLC22A8	Solute Carrier Family 22 Member 8	Protein coding	42	GC11M071551	0.325780332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC22A8
BPI	Bactericidal Permeability Increasing Protein	Protein coding	41	GC20P038304	0.325780332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BPI
ABCB10	ATP Binding Cassette Subfamily B Member 10	Protein coding	41	GC01M229516	0.325780332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ABCB10
BCAP31	B Cell Receptor Associated Protein 31	Protein coding	41	GC0XM153701	0.325780332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BCAP31
ELAVL2	ELAV Like RNA Binding Protein 2	Protein coding	41	GC09M023690	0.325780332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ELAVL2
CHM	CHM Rab Escort Protein	Protein coding	41	GC0XM085861	0.325780332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CHM
IL17B	Interleukin 17B	Protein coding	41	GC05M149371	0.325780332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=IL17B
THBS3	Thrombospondin 3	Protein coding	41	GC01M155195	0.325780332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=THBS3
RBP3	Retinol Binding Protein 3	Protein coding	41	GC10P047348	0.325780332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RBP3
ZMIZ1	Zinc Finger MIZ-Type Containing 1	Protein coding	40	GC10P079068	0.325780332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZMIZ1
MKKS	MKKS Centrosomal Shuttling Protein	Protein coding	39	GC20M010424	0.325780332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MKKS
PEG3	Paternally Expressed 3	Protein coding	38	GC19M056810	0.325780332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PEG3
ADAMTS9	ADAM Metallopeptidase With Thrombospondin Type 1 Motif 9	Protein coding	37	GC03M064501	0.325780332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADAMTS9
ATG14	Autophagy Related 14	Protein coding	36	GC14M055366	0.325780332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ATG14
ADPRH	ADP-Ribosylarginine Hydrolase	Protein coding	36	GC03P119579	0.325780332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADPRH
RNF126	Ring Finger Protein 126	Protein coding	36	GC19M000647	0.325780332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RNF126
NARS1	Asparaginyl-TRNA Synthetase 1	Protein coding	35	GC18M057601	0.325780332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NARS1
MIR26A2	MicroRNA 26a-2	RNA gene	20	GC12M057824	0.325780332	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR26A2
HSPA12B	Heat Shock Protein Family A (Hsp70) Member 12B	Protein coding	36	GC20P003708	0.32291168	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSPA12B
MCAM	Melanoma Cell Adhesion Molecule	Protein coding	40	GC11M119308	0.309914172	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MCAM
MIR194-1	MicroRNA 194-1	RNA gene	16	GC01M220118	0.309914172	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR194-1
GRK5	G Protein-Coupled Receptor Kinase 5	Protein coding	43	GC10P119207	0.30811125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GRK5
MDFI	MyoD Family Inhibitor	Protein coding	36	GC06P058497	0.30811125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MDFI
SAA2	Serum Amyloid A2	Protein coding	36	GC11M018238	0.30811125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SAA2
PLPP1	Phospholipid Phosphatase 1	Protein coding	34	GC05M055425	0.30811125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLPP1
FLJ16779	Uncharacterized LOC100192386	RNA gene	12	GC20P063253	0.30811125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FLJ16779
SLC16A1	Solute Carrier Family 16 Member 1	Protein coding	48	GC01M112932	0.304927856	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC16A1
ITGB5	Integrin Subunit β 5	Protein coding	46	GC03M124761	0.304927856	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGB5
PPM1A	Protein Phosphatase, Mg2+/Mn2+ Dependent 1A	Protein coding	44	GC14P060245	0.302420139	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPM1A
MT2A	Metallothionein 2A	Protein coding	43	GC16P056786	0.302420139	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MT2A
TRIM65	Tripartite Motif Containing 65	Protein coding	34	GC17M075880	0.302420139	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRIM65
TRIM47	Tripartite Motif Containing 47	Protein coding	34	GC17M075874	0.302420139	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TRIM47
SNORD118	Small Nucleolar RNA, C/D Box 118	RNA gene	18	GC17M009343	0.302420139	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SNORD118
ANXA6	Annexin A6	Protein coding	42	GC05M151100	0.300202191	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANXA6
MIR101-1	MicroRNA 101-1	RNA gene	19	GC01M065058	0.300202191	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR101-1
GPR17	G Protein-Coupled Receptor 17	Protein coding	40	GC02P127645	0.290474772	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPR17
HMCN1	Hemicentin 1	Protein coding	37	GC01P185734	0.285183251	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HMCN1
ITGB7	Integrin Subunit β 7	Protein coding	44	GC12M053191	0.28052181	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGB7
ITGA8	Integrin Subunit α 8	Protein coding	43	GC10M015513	0.28052181	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGA8
ITGA9	Integrin Subunit α 9	Protein coding	43	GC03P037468	0.28052181	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGA9
ITGA11	Integrin Subunit α 11	Protein coding	42	GC15M068296	0.28052181	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGA11
ITGA10	Integrin Subunit α 10	Protein coding	38	GC01M145891	0.28052181	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGA10
ITGAD	Integrin Subunit α D	Protein coding	36	GC16P033544	0.28052181	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ITGAD
PPP2CB	Protein Phosphatase 2 Catalytic Subunit β	Protein coding	45	GC08M030762	0.279161215	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PPP2CB
ADAMTS4	ADAM Metallopeptidase With Thrombospondin Type 1 Motif 4	Protein coding	43	GC01M161184	0.279161215	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ADAMTS4
STC2	Stanniocalcin 2	Protein coding	40	GC05M173314	0.279161215	https://www.genecards.org/cgi-bin/carddisp.pl?gene=STC2

GATA2	GATA Binding Protein 2	Protein coding	48	GC03M128479	0.268972635	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GATA2
SUMO2	Small Ubiquitin Like Modifier 2	Protein coding	39	GC17M075165	0.268972635	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SUMO2
ANKRD2	Ankyrin Repeat Domain 2	Protein coding	36	GC10P097572	0.26469171	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ANKRD2
SP8	Sp8 Transcription Factor	Protein coding	36	GC07M020788	0.26469171	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SP8
NR1I2	Nuclear Receptor Subfamily 1 Group I Member 2	Protein coding	46	GC03P119780	0.251571774	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NR1I2
GPC3	Glypican 3	Protein coding	45	GC0XM133535	0.251571774	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GPC3
LONP1	Lon Peptidase 1, Mitochondrial	Protein coding	44	GC19M005691	0.251571774	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LONP1
SLC1A5	Solute Carrier Family 1 Member 5	Protein coding	44	GC19M048846	0.251571774	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC1A5
VAV2	Vav Guanine Nucleotide Exchange Factor 2	Protein coding	44	GC09M133761	0.251571774	https://www.genecards.org/cgi-bin/carddisp.pl?gene=VAV2
DHX9	DExH-Box Helicase 9	Protein coding	40	GC01P182839	0.251571774	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DHX9
DAB2IP	DAB2 Interacting Protein	Protein coding	40	GC09P121566	0.251571774	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DAB2IP
CLEC4A	C-Type Lectin Domain Family 4 Member A	Protein coding	37	GC12P013229	0.251571774	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CLEC4A
LOC111365141	NOS2 5' Regulatory Region	Biological region	2	GC17P027800	0.251571774	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LOC111365141
MAP3K1	Mitogen-Activated Protein Kinase Kinase Kinase 1	Protein coding	50	GC05P056815	0.244566604	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP3K1
MAP2K7	Mitogen-Activated Protein Kinase Kinase 7	Protein coding	46	GC19P007903	0.244566604	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MAP2K7
HELLS	Helicase, Lymphoid Specific	Protein coding	45	GC10P094501	0.244566604	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HELLS
S1PR3	Sphingosine-1-Phosphate Receptor 3	Protein coding	45	GC09P088991	0.244566604	https://www.genecards.org/cgi-bin/carddisp.pl?gene=S1PR3
FAP	Fibroblast Activation Protein α	Protein coding	42	GC02M162170	0.244566604	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FAP
FRZB	Frizzled Related Protein	Protein coding	41	GC02M182833	0.244566604	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FRZB
CREG1	Cellular Repressor Of E1A Stimulated Genes 1	Protein coding	37	GC01M167498	0.244566604	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CREG1
MEIS1	Meis Homeobox 1	Protein coding	43	GC02P066433	0.241432756	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MEIS1
NDRG2	NDRG Family Member 2	Protein coding	38	GC14M021016	0.241432756	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NDRG2
TMEM196	Transmembrane Protein 196	Protein coding	29	GC07M019758	0.241432756	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TMEM196
MIR3146	MicroRNA 3146	RNA gene	12	GC07M019744	0.241432756	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR3146
FCER1G	Fc Fragment Of IgE Receptor Ig	Protein coding	43	GC01P161215	0.215616554	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FCER1G
GSTA2	Glutathione S-Transferase α 2	Protein coding	42	GC06M052750	0.215616554	https://www.genecards.org/cgi-bin/carddisp.pl?gene=GSTA2
AQP8	Aquaporin 8	Protein coding	37	GC16P026880	0.215616554	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AQP8
SCG5	Secretogranin V	Protein coding	37	GC15P032641	0.215616554	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SCG5
EFS	Embryonal Fyn-Associated Substrate	Protein coding	36	GC14M023356	0.215616554	https://www.genecards.org/cgi-bin/carddisp.pl?gene=EFS
SIVA1	SIVA1 Apoptosis Inducing Factor	Protein coding	36	GC14P106549	0.215616554	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SIVA1
AHR	Aryl Hydrocarbon Receptor	Protein coding	48	GC07P016916	0.213843346	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AHR
CCNA2	Cyclin A2	Protein coding	44	GC04M121816	0.213843346	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCNA2
DBT	Dihydrolipoamide Branched Chain Transacylase E2	Protein coding	43	GC01M100186	0.213843346	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DBT
PARG	Poly(ADP-Ribose) Glycohydrolase	Protein coding	39	GC10M049818	0.213843346	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PARG
AZIN2	Antizyme Inhibitor 2	Protein coding	36	GC01P033081	0.213843346	https://www.genecards.org/cgi-bin/carddisp.pl?gene=AZIN2
TMEM107	Transmembrane Protein 107	Protein coding	36	GC17M009349	0.213843346	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TMEM107
H2BC3	H2B Clustered Histone 3	Protein coding	28	GC06M026044	0.213843346	https://www.genecards.org/cgi-bin/carddisp.pl?gene=H2BC3
MIR544A	MicroRNA 544a	RNA gene	15	GC14P106831	0.213843346	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR544A
MIR1264	MicroRNA 1264	RNA gene	9	GC0XP114652	0.213843346	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR1264
CSF2RB	Colony Stimulating Factor 2 Receptor Subunit β	Protein coding	48	GC22P036913	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CSF2RB
PLCD1	Phospholipase C δ 1	Protein coding	48	GC03M038008	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PLCD1
PRKCI	Protein Kinase C ι	Protein coding	48	GC03P170222	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRKCI
PRLR	Prolactin Receptor	Protein coding	47	GC05M035048	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PRLR
SLC27A4	Solute Carrier Family 27 Member 4	Protein coding	46	GC09P128340	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC27A4
HSP90AB1	Heat Shock Protein 90 α Family Class B Member 1	Protein coding	45	GC06P044246	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HSP90AB1
SLC6A6	Solute Carrier Family 6 Member 6	Protein coding	45	GC03P014402	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC6A6
AKAP13	A-Kinase Anchoring Protein 13	Protein coding	44	GC15P085558	0.177888125	genecards.org/cgi-bin/carddisp.pl?gene=AKAP13
SLCO2B1	Solute Carrier Organic Anion Transporter Family Member 2B1	Protein coding	44	GC11P076426	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLCO2B1
FLRT3	Fibronectin Leucine Rich Transmembrane Protein 3	Protein coding	43	GC20M014322	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FLRT3
ID1	Inhibitor Of DNA Binding 1, HLH Protein	Protein coding	43	GC20P031605	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ID1
LAMC1	Laminin Subunit γ 1	Protein coding	43	GC01P182992	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LAMC1
SLC38A1	Solute Carrier Family 38 Member 1	Protein coding	43	GC12M046183	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC38A1
SIRPA	Signal Regulatory Protein α	Protein coding	43	GC20P001894	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SIRPA
DYNLL1	Dynein Light Chain LC8-Type 1	Protein coding	41	GC12P120469	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DYNLL1
CCT3	Chaperonin Containing TCP1 Subunit 3	Protein coding	41	GC01M156308	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCT3
BBC3	BCL2 Binding Component 3	Protein coding	41	GC19M047220	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BBC3
ESAM	Endothelial Cell Adhesion Molecule	Protein coding	41	GC11M124752	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ESAM
PCSK6	Proprotein Convertase Subtilisin/Kexin Type 6	Protein coding	41	GC15M108721	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=PCSK6
RAB1A	RAB1A, Member RAS Oncogene Family	Protein coding	41	GC02M065072	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=RAB1A
TLN1	Talin 1	Protein coding	41	GC09M035696	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=TLN1
BIK	BCL2 Interacting Killer	Protein coding	40	GC22P043110	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BIK
CCT4	Chaperonin Containing TCP1 Subunit 4	Protein coding	40	GC02M061868	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCT4
SLC16A4	Solute Carrier Family 16 Member 4	Protein coding	40	GC01M110362	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=SLC16A4
MUC2	Mucin 2, Oligomeric Mucus/Gel-Forming	Protein coding	39	GC11P001074	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MUC2
BCL2L14	BCL2 Like 14	Protein coding	38	GC12P012049	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=BCL2L14
FHOD1	Formin Homology 2 Domain Containing 1	Protein coding	38	GC16M067230	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=FHOD1
HIGD1A	HIG1 Hypoxia Inducible Domain Family Member 1A	Protein coding	38	GC03M042782	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HIGD1A
DCTN6	Dynactin Subunit 6	Protein coding	35	GC08P030133	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=DCTN6
APOO	Apolipoprotein O	Protein coding	35	GC0XM023834	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=APOO
CCL23	C-C Motif Chemokine Ligand 23	Protein coding	34	GC17M036013	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCL23
LANCL1	LanC Like 1	Protein coding	34	GC02M210431	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=LANCL1
NRDC	Nardilysin Convertase	Protein coding	30	GC01M051790	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=NRDC
MIR26A1	MicroRNA 26a-1	RNA gene	21	GC03P037969	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR26A1
MIR194-2	MicroRNA 194-2	RNA gene	20	GC11M071624	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR194-2
ZFAS1	ZNFX1 Antisense RNA 1	RNA gene	20	GC20P049276	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=ZFAS1
HOTAIRM1	HOXA Transcript Antisense RNA, Myeloid-Specific 1	RNA gene	19	GC07P027095	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HOTAIRM1

HOXA-AS2	HOXA Cluster Antisense RNA 2	RNA gene	18	GC07P027107	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HOXA-AS2
MIR216B	MicroRNA 216b	RNA gene	15	GC02M056000	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR216B
MIR496	MicroRNA 496	RNA gene	15	GC14P106828	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR496
CCAT2	Colon Cancer Associated Transcript 2	RNA gene	13	GC08P127400	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=CCAT2
MIR1202	MicroRNA 1202	RNA gene	13	GC06P155946	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR1202
HOXB-AS2	HOXB Cluster Antisense RNA 2	RNA gene	12	GC17P048558	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=HOXB-AS2
MIR448	MicroRNA 448	RNA gene	12	GC0XP114823	0.177888125	https://www.genecards.org/cgi-bin/carddisp.pl?gene=MIR448

Table SV. IS targets in the DisGeNET.

Gene	Gene_id	UniProt	Gene_full_name	Protein_Class	N_diseases_g	DSI_g	DPI_g	pLI	Score_gda	EL_gda	EI_gda	N_PMIDs	N_SNPs_gda	First_Ref	Last_Ref
GLA	2717	P06280	Galactosidase α		190	0.537	0.769	1.00	0.32	Strong	1.00	3	0	2004	2014
APP	351	P05067	Amyloid β precursor protein	Enzyme modulator	485	0.422	0.846	0.05	0.31	Strong	1.00	2	0	2010	2020
COL3A1	1281	P02461	Collagen type III α 1 chain		301	0.477	0.808	1.00	0.30	Strong	1.00	1	0	1995	1995
ITM2B	9445	Q9Y287	Integral membrane protein 2B		77	0.617	0.654	0.63	0.30	Limited	1.00	1	0	2000	2000
F2	2147	P00734	Coagulation factor II, thrombin	Enzyme	490	0.415	0.885	0.00	0.20		0.94	32	5	1998	2019
F5	2153	P12259	Coagulation factor V	Enzyme	369	0.441	0.846	0.00	0.20		0.96	26	2	1998	2019
NOTCH3	4854	Q9UM47	Notch receptor 3		418	0.435	0.808	0.41	0.20		1.00	14	5	2004	2019
ADAMTS13	11093	Q76LX8	ADAM metallopeptidase with thrombospondin type 1 motif 13	Enzyme	229	0.496	0.769	0.00	0.19		1.00	10	1	2006	2019
HDAC9	9734	Q9UKV0	Histone deacetylase 9	Epigenetic regulator	340	0.439	0.846	1.00	0.19		0.90	10	3	2012	2019
CDKN2B-AS1	100048912		CDKN2B antisense RNA 1		213	0.491	0.769		0.18		0.89	9	11	2012	2020
LDLR	3949	P01130	Low density lipoprotein receptor		336	0.449	0.885	0.00	0.16		0.83	6	41	2006	2019
ALDH2	217	P05091	Aldehyde dehydrogenase 2 family member	Enzyme	337	0.457	0.885	0.00	0.15		1.00	6	4	2016	2019
ABO	28	P16442	ABO, α 1-3-N-acetylgalactosaminyltransferase and α 1-3-galactosyltransferase	Enzyme	443	0.427	0.885		0.15		0.86	7	3	2012	2018
ZFHX3	463	Q15911;Q6ZP98	Zinc finger homeobox 3		85	0.621	0.654	0.45	0.13		0.75	4	2	2009	2020
ACTA2	59	P62736	Actin α 2, smooth muscle	Cellular structure	200	0.508	0.846	0.93	0.13		1.00	3	0	2009	2019
PROCR	10544	Q9UNN8	Protein C receptor	Enzyme modulator	110	0.56	0.692	0.01	0.12		1.00	3	2	2014	2018
PDE3A	5139	Q14432	Phosphodiesterase 3A		58	0.67	0.577	0.00	0.12		1.00	3	1	2017	2019
SLCO1B1	10599	Q9Y6L6	Solute carrier organic anion transporter family member 1B1	Transporter	151	0.538	0.731	0.00	0.11		1.00	2	1	2016	2019
COL4A1	1282	P02462	Collagen type IV α 1 chain		277	0.484	0.731	1.00	0.11		1.00	1	0	2010	2010
LOX	4015	P28300	Lysyl oxidase		328	0.447	0.846	0.99	0.11		1.00	1	1	2012	2012
SMAD3	4088	P84022	SMAD family member 3	Transcription factor	470	0.415	0.923	0.80	0.11		1.00	1	0	2018	2018
ABCC1	4363	P33527	ATP binding cassette subfamily C member 1	Transporter	333	0.445	0.808	0.00	0.11		1.00	2	1	2016	2019
PRKG1	5592	Q13976	Protein kinase cgmp-dependent 1	Kinase	114	0.603	0.769	1.00	0.11		1.00	1	1	2019	2019
TGFBR2	7048	P37173	Transforming growth factor β receptor 2	Kinase	502	0.413	0.846	0.13	0.11		1.00	1	2	2011	2011
C20orf181	100128998		Chromosome 20 open reading frame 181		246	0.479	0.885		0.10		0.98	101	0	2001	2020
SH2B3	10019	Q9UQQ2	SH2B adaptor protein 3		212	0.527	0.692	0.00	0.10		1.00	1	1	2018	2018
PMF1-BGLAP	100527963	Q6P1K2	PMF1-BGLAP readthrough		9	0.861	0.192	0.00	0.10		1.00	1	1	2018	2018
PATJ	10207	Q8NI35	PATJ crumbs cell polarity complex component		33	0.751	0.538	0.00	0.10		1.00	1	1	2019	2019
CDK6	1021	Q00534	Cyclin dependent kinase 6	Kinase	266	0.471	0.731	0.98	0.10		1.00	1	1	2018	2018
CDKN1A	1026	P38936	Cyclin dependent kinase inhibitor 1A		490	0.403	0.769	0.00	0.10		1.00	1	1	2018	2018
CDKN2C	1031	P42773	Cyclin dependent kinase inhibitor 2C		149	0.527	0.654	0.40	0.10		1.00	1	1	2016	2016
CERNA3	105375847		Competing endogenous lncrna 3 for mir-645		140	0.531	0.808		0.10		1.00	11	0	2017	2020
PRPF8	10594	Q6P2Q9	Pre-mrna processing factor 8	Nucleic acid binding	70	0.631	0.615	1.00	0.10		1.00	1	1	2018	2018
DINOL	108783646		Damage induced long noncoding RNA		10	0.821	0.346		0.10		1.00	1	1	2018	2018
CHD3	1107	Q12873	Chromodomain helicase DNA binding protein 3		55	0.67	0.577	1.00	0.10		1.00	1	1	2015	2015
FAF1	11124	Q9UNN5	Fas associated factor 1		49	0.666	0.731	1.00	0.10		1.00	1	1	2016	2016
PMF1	11243	Q6P1K2	Polyamine modulated factor 1		11	0.839	0.192	0.00	0.10		1.00	1	1	2018	2018
NLRP3	114548	Q96P20	NLR family pyrin domain containing 3		805	0.361	0.962	0.00	0.10		1.00	11	2	2016	2019
APOA5	116519	Q6Q788	Apolipoprotein A5		107	0.587	0.615	0.00	0.10		0.91	11	4	2006	2018
AGBL1	123624	Q96MI9	ATP/GTP binding protein like 1	Enzyme	15	0.78	0.231	0.00	0.10		1.00	1	1	2015	2015
CRP	1401	P02741	C-reactive protein		1483	0.299	0.962	0.00	0.10		1.00	48	7	2005	2020
CYP2C19	1557	P33261	Cytochrome P450 family 2 subfamily C member 19		274	0.467	0.846	0.00	0.10		0.93	15	0	2013	2019
DAB1	1600	O75553	DAB adaptor protein 1	Signaling	81	0.626	0.615	1.00	0.10		1.00	1	1	2016	2016
ACE	1636	P12821	Angiotensin I converting enzyme	Enzyme	1082	0.328	0.923	0.00	0.10		0.86	42	6	1995	2019
AGT	183	P01019	Angiotensinogen	Enzyme modulator	765	0.367	0.923	0.00	0.10		1.00	14	2	2007	2019
AGTR1	185	P30556	Angiotensin II receptor type 1	G-protein coupled receptor	440	0.423	0.846	0.00	0.10		0.92	12	3	2004	2020
EDN1	1906	P05305	Endothelin 1	Signaling	679	0.38	0.846	0.46	0.10		1.00	11	1	2014	2019
ELN	2006	P15502	Elastin		545	0.415	0.885	0.00	0.10			0	0		
ENG	2022	P17813	Endoglin		371	0.446	0.846	1.00	0.10			0	0		
FBN1	2200	P35555	Fibrillin 1	Calcium-binding protein	552	0.417	0.846	1.00	0.10			0	1		
FGB	2244	P02675	Fibrinogen β chain	Signaling	95	0.584	0.692	0.57	0.10		0.94	18	3	1997	2019
FOXE3	2301	Q13461	Forkhead box E3	Transcription factor	118	0.568	0.654	0.18	0.10			0	0		
LRCH1	23143	Q9Y2L9	Leucine rich repeats and calponin homology domain containing 1		19	0.769	0.269	1.00	0.10		1.00	1	1	2018	2018
TSPAN15	23555	O95858	Tetraspanin 15		17	0.78	0.346	0.01	0.10		1.00	1	1	2016	2016
ALOX5	240	P09917	Arachidonate 5-lipoxygenase	Enzyme	342	0.447	0.885	0.00	0.10		1.00	14	3	2005	2017
ALOX5AP	241	P20292	Arachidonate 5-lipoxygenase activating protein	Enzyme	76	0.612	0.731	0.07	0.10		0.86	28	10	2005	2019
NAALADL2	254827	Q58DX5	N-acetylated α-linked acidic dipeptidase like 2	Enzyme	19	0.729	0.577	0.00	0.10		1.00	1	1	2019	2019
PCSK9	255738	Q8NBP7	Proprotein convertase subtilisin/kexin type 9	Enzyme	257	0.482	0.808	0.00	0.10		1.00	10	3	2007	2020
SLC26A11	284129	Q86WA9	Solute carrier family 26 member 11	Transporter	5	0.89	0.269	0.00	0.10		1.00	1	1	2016	2016
F11-AS1	285441		F11 antisense RNA 1		15	0.805	0.308		0.10		1.00	1	1	2016	2016
APOB	338	P04114	Apolipoprotein B		339	0.453	0.808	0.00	0.10		0.91	11	7	1997	2020
TSPAN33	340348	Q86UF1	Tetraspanin 33		69	0.606	0.731	0.00	0.10		1.00	26	0	2004	2020
APOE	348	P02649	Apolipoprotein E		1049	0.338	0.962	0.00	0.10		0.93	45	4	1997	2019
IL1B	3553	P01584	Interleukin 1 β		1801	0.276	0.962	0.13	0.10		0.83	18	0	2004	2019
IL1RN	3557	P18510	Interleukin 1 receptor antagonist		701	0.373	0.923	0.03	0.10		0.91	11	0	2003	2018
IL6	3569	P05231	Interleukin 6		2367	0.248	0.962	0.32	0.10		0.86	35	2	2001	2020
IL10	3586	P22301	Interleukin 10		1679	0.281	0.923	0.01	0.10		0.88	17	3	2010	2020
ILF3	3609	Q12906	Interleukin enhancer binding factor 3	Nucleic acid binding	68	0.621	0.654	1.00	0.10		1.00	1	1	2018	2018
KCNK1	3775	O00180	Potassium two pore domain channel subfamily K member 1	Ion channel	14	0.76	0.462	0.03	0.10		1.00	1	1	2016	2016
KCNK3	3777	O14649	Potassium two pore domain channel subfamily K member 3	Ion channel	93	0.584	0.654	0.90	0.10		1.00	1	1	2018	2018
C10orf143	387723	A0A1B0GUT2	Chromosome 10 open reading frame 143		16	0.78	0.269		0.10		1.00	1	1	2016	2016

LPA	4018	P08519	Lipoprotein(a)	Enzyme	340	0.444	0.769	0.00	0.10		1.00	19	0	1992	2020
LPL	4023	P06858	Lipoprotein lipase	Enzyme	290	0.474	0.808	0.00	0.10		0.82	11	1	1997	2018
MIR146A	406938		Microrna 146a		505	0.398	0.885		0.10		0.77	13	1	2014	2018
MAT2A	4144	P31153	Methionine adenosyltransferase 2A	Enzyme	81	0.615	0.654	1.00	0.10			0	0		
MMP9	4318	P14780	Matrix metallopeptidase 9	Enzyme	1337	0.305	0.923	0.00	0.10		0.93	29	2	2010	2020
MTHFR	4524	P42898	Methylenetetrahydrofolate reductase		985	0.337	0.885	0.00	0.10		0.95	76	8	1998	2019
MYH11	4629	P35749	Myosin heavy chain 11		161	0.528	0.731	0.77	0.10			0	0		
MYLK	4638	Q15746	Myosin light chain kinase	Kinase	199	0.51	0.846	0.00	0.10			0	0		
NINJ2	4815	Q9NZG7	Ninjurin 2	Cell adhesion	20	0.751	0.269	0.00	0.10		1.00	11	1	2011	2019
NOS3	4846	P29474	Nitric oxide synthase 3		706	0.378	0.885	0.00	0.10		0.92	38	4	1998	2019
SERPINE1	5054	P05121	Serpin family E member 1	Enzyme modulator	770	0.359	0.885	0.04	0.10		0.79	24	2	2002	2020
PCDH7	5099	O60245	Protocadherin 7		35	0.663	0.462	0.40	0.10		1.00	1	1	2016	2016
PCYT1A	5130	P49585	Phosphate cytidylyltransferase 1, choline, α		256	0.485	0.885	0.00	0.10		1.00	11	0	2017	2020
PDE4D	5144	Q08499	Phosphodiesterase 4D		210	0.519	0.846	1.00	0.10		0.89	52	10	2003	2020
PIK3CA	5290	P42336	Phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit α	Kinase	1511	0.292	0.923	1.00	0.10		1.00	11	0	2016	2019
PIK3CB	5291	P42338	Phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit β	Kinase	1083	0.322	0.885	1.00	0.10		1.00	11	0	2016	2019
PIK3CD	5293	O00329	Phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit δ	Kinase	1119	0.319	0.885	1.00	0.10		1.00	11	0	2016	2019
PIK3CG	5294	P48736	Phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit γ	Kinase	1101	0.32	0.885	0.00	0.10		1.00	13	0	2016	2019
PLAT	5327	P00750	Plasminogen activator, tissue type	Enzyme	392	0.445	0.885	0.00	0.10		0.99	75	1	2004	2020
PLG	5340	P00747	Plasminogen	Enzyme	586	0.389	0.923	0.01	0.10		0.93	14	0	2001	2020
PON1	5444	P27169	Paraoxonase 1		496	0.409	0.885	0.00	0.10		0.84	19	3	2004	2019
PPARG	5468	P37231	Peroxisome proliferator activated receptor γ	Nuclear receptor	877	0.358	0.885	0.03	0.10		1.00	13	4	2007	2020
CASZ1	54897	Q86V15	Castor zinc finger 1	Transcription factor	132	0.553	0.731	1.00	0.10		1.00	1	1	2018	2018
KIF26B	55083	Q2KJY2	Kinesin family member 26B	Cellular structure	38	0.67	0.5	1.00	0.10		1.00	1	1	2016	2016
AVP	551	P01185	Arginine vasopressin	Signaling	454	0.437	0.846	0.07	0.10		1.00	10	0	2014	2019
PROC	5624	P04070	Protein C, inactivator of coagulation factors Va and viiia	Enzyme	200	0.504	0.808	0.00	0.10		1.00	11	0	2009	2019
SLC44A2	57153	Q8IWA5	Solute carrier family 44 member 2	Transporter	21	0.743	0.462	0.00	0.10		1.00	1	1	2016	2016
PTGS2	5743	P35354	Prostaglandin-endoperoxide synthase 2	Enzyme	1234	0.314	0.962	1.00	0.10		0.83	12	4	1997	2019
PTPRD	5789	P23468	Protein tyrosine phosphatase receptor type D	Enzyme	93	0.584	0.731	1.00	0.10		1.00	1	1	2016	2016
PTPRG	5793	P23470	Protein tyrosine phosphatase receptor type G	Enzyme	70	0.619	0.731	0.00	0.10		1.00	1	1	2015	2015
NTN4	59277	Q9HB63	Netrin 4	Enzyme modulator	35	0.695	0.538	0.92	0.10		1.00	1	1	2019	2019
BDNF	627	P23560	Brain derived neurotrophic factor	Signaling	992	0.345	0.923	0.66	0.10		1.00	23	4	2010	2019
ATXN2	6311	Q99700	Ataxin 2	Nucleic acid binding	341	0.482	0.808	0.85	0.10		1.00	1	1	2018	2018
SMARCA4	6597	P51532	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4	Epigenetic regulator	347	0.45	0.885	1.00	0.10		1.00	1	2	2018	2018
FUNDC2	65991	Q9BWH2	FUN14 domain containing 2		15	0.76	0.385	0.06	0.10		1.00	1	1	2016	2016
SON	6651	P18583	SON DNA binding protein		154	0.565	0.769	1.00	0.10			0	0		
STAT3	6774	P40763	Signal transducer and activator of transcription 3	Nucleic acid binding	1193	0.32	0.923	1.00	0.10		1.00	13	0	2015	2020
TGFB2	7042	P61812	Transforming growth factor β 2	Signaling	389	0.433	0.885	1.00	0.10			0	0		
TGFB3	7043	P10600	Transforming growth factor β 3	Signaling	230	0.498	0.808	0.99	0.10			0	0		
TGFBR1	7046	P36897	Transforming growth factor β receptor 1	Kinase	347	0.451	0.885	0.85	0.10			0	0		
TLR4	7099	O00206	Toll like receptor 4		1174	0.321	0.962	0.00	0.10		0.92	13	5	2005	2020
TNF	7124	P01375	Tumor necrosis factor	Signaling	2724	0.231	0.962	0.80	0.10		0.96	27	1	2001	2019
VEGFA	7422	P15692	Vascular endothelial growth factor A	Signaling	1899	0.266	0.923	0.00	0.10		1.00	11	1	1997	2019
VWF	7450	P04275	Von Willebrand factor	Enzyme modulator	498	0.408	0.885	0.00	0.10		1.00	13	0	2001	2019
MFAP5	8076	Q13361	Microfibril associated protein 5		92	0.59	0.615	0.01	0.10			0	0		
SLC2A10	81031	O95528	Solute carrier family 2 member 10	Transporter	135	0.55	0.615	0.00	0.10			0	0		
QRICH2	84074	Q9H0J4	Glutamine rich 2		10	0.861	0.308	0.00	0.10		1.00	1	1	2016	2016
RUNX1	861	Q01196	RUNX family transcription factor 1	Transcription factor	412	0.425	0.808	0.65	0.10		1.00	1	1	2019	2019
ALDH1A2	8854	O94788	Aldehyde dehydrogenase 1 family member A2	Enzyme	109	0.578	0.692	0.36	0.10		1.00	1	1	2015	2015
HPS4	89781	Q9NQG7	HPS4 biogenesis of lysosomal organelles complex 3 subunit 2		26	0.743	0.385	0.00	0.10		1.00	1	1	2015	2015
COX7A2L	9167	O14548	Cytochrome c oxidase subunit 7A2 like	Enzyme	23	0.736	0.385	0.00	0.10		1.00	1	1	2016	2016
ADIPOQ	9370	Q15848	Adiponectin, C1Q and collagen domain containing		679	0.376	0.885	0.00	0.10		0.93	14	10	2006	2019
PLAA	9373	Q9Y263	Phospholipase A2 activating protein	Enzyme modulator	113	0.597	0.692	0.47	0.10		1.00	1	1	2019	2019
ACVRL1	94	P37023	Activin A receptor like type 1	Kinase	224	0.493	0.769	0.00	0.10			0	0		
CDC5L	988	Q99459	Cell division cycle 5 like		21	0.743	0.385	1.00	0.10		1.00	1	1	2015	2015
EPO	2056	P01588	Erythropoietin		646	0.381	0.885	0.01	0.09		1.00	9	0	2004	2019
HMGB1	3146	P09429	High mobility group box 1	Nucleic acid binding	724	0.368	0.923	0.82	0.09		1.00	9	1	2013	2020
MMP3	4314	P08254	Matrix metallopeptidase 3	Enzyme	473	0.408	0.885	0.00	0.09		0.89	9	2	2012	2018
MIR499A	574501		Microrna 499a		156	0.519	0.846		0.09		0.78	9	1	2013	2019
SELP	6403	P16109	Selectin P		293	0.46	0.769	0.00	0.09		0.89	9	2	2006	2019
PLA2G7	7941	Q13093	Phospholipase A2 group VII	Enzyme	136	0.537	0.769	0.00	0.09		0.89	9	2	2011	2020
CYP4F2	8529	P78329	Cytochrome P450 family 4 subfamily F member 2	Enzyme	44	0.674	0.308	0.00	0.09		1.00	9	7	2008	2019
IGF1	3479	P05019	Insulin like growth factor 1		1206	0.318	0.885	0.27	0.08		1.00	8	1	2013	2020
CXCL8	3576	P10145	C-X-C motif chemokine ligand 8	Signaling	1254	0.31	0.962	0.00	0.08		1.00	8	0	1999	2019
IL17A	3605	Q16552	Interleukin 17A		1074	0.324	0.923	0.04	0.08		1.00	8	1	1999	2019
AQP4	361	P55087	Aquaporin 4	Ion channel	311	0.456	0.885	0.00	0.08		1.00	8	0	2015	2020
LTA	4049	P01374	Lymphotoxin α	Signaling	353	0.434	0.885	0.20	0.08		1.00	8	1	2005	2016
NFE2L2	4780	Q16236	Nuclear factor, erythroid 2 like 2	Enzyme	823	0.357	0.885	0.00	0.08		1.00	8	0	2017	2020
P2RY12	64805	Q9H244	Purinergic receptor P2Y12	G-protein coupled receptor	153	0.533	0.731	0.00	0.08		0.88	8	1	2008	2019
EPHX2	2053	P34913	Epoxide hydrolase 2	Enzyme	97	0.568	0.654	0.00	0.07		0.86	7	3	2005	2017
ESR1	2099	P03372	Estrogen receptor 1	Nuclear receptor	1101	0.324	0.962	1.00	0.07		0.71	7	2	2007	2016
FGFR1	2260	P11362	Fibroblast growth factor receptor 1	Kinase	816	0.362	0.885	1.00	0.07		1.00	7	0	2017	2020
MMRN1	22915	Q13201	Multimerin 1		272	0.465	0.846	0.00	0.07		1.00	7	0	2000	2017

GABPA	2551	Q06546	GA binding protein transcription factor subunit α	Transcription factor	632	0.379	0.885	1.00	0.07		1.00	7	0	2017	2020
HIF1A	3091	Q16665	Hypoxia inducible factor 1 subunit α	Transcription factor	1044	0.327	0.923	0.98	0.07		1.00	7	0	2017	2019
IL1A	3552	P01583	Interleukin 1 α		1002	0.333	0.962	0.00	0.07		0.86	7	1	2006	2019
MIR126	406913		Microrna 126		305	0.447	0.846		0.07		1.00	7	1	2013	2020
MIR145	406937		Microrna 145		366	0.431	0.846		0.07		1.00	7	1	2012	2019
OLR1	4973	P78380	Oxidized low density lipoprotein receptor 1		133	0.544	0.769	0.01	0.07		1.00	7	1	2006	2020
CCL2	6347	P13500	C-C motif chemokine ligand 2	Signaling	1157	0.321	0.962	0.61	0.07		1.00	7	1	2010	2019
CXCL12	6387	P48061	C-X-C motif chemokine ligand 12		626	0.379	0.846	0.12	0.07		1.00	7	0	2017	2020
SELE	6401	P16581	Selectin E		327	0.447	0.808	0.00	0.07		1.00	7	3	2009	2017
CDKN2A	1029	P42771;Q8N726	Cyclin dependent kinase inhibitor 2A		1314	0.3	0.885	0.39	0.06		1.00	6	1	2009	2018
CETP	1071	P11597	Cholesteryl ester transfer protein		188	0.512	0.731	0.00	0.06		0.67	6	2	2005	2018
CYP11B2	1585	P19099	Cytochrome P450 family 11 subfamily B member 2		142	0.553	0.615	0.00	0.06		1.00	6	1	2010	2015
AGER	177	Q15109	Advanced glycosylation end-product specific receptor	Receptor	450	0.42	0.885	0.00	0.06		1.00	6	1	2006	2017
SIRT1	23411	Q96EB6	Sirtuin 1	Epigenetic regulator	675	0.378	0.885	0.09	0.06		1.00	6	0	2017	2018
ICAM1	3383	P05362	Intercellular adhesion molecule 1		737	0.364	0.962	0.04	0.06		1.00	6	1	2003	2019
IL18	3606	Q14116	Interleukin 18		750	0.365	0.923	0.03	0.06		1.00	6	2	2010	2019
ITGA2	3673	P17301	Integrin subunit α 2		166	0.522	0.731	0.00	0.06		0.83	6	1	2007	2019
JAK2	3717	O60674	Janus kinase 2	Kinase	644	0.385	0.885	0.65	0.06		1.00	6	1	2010	2019
MIR223	407008		Microrna 223		348	0.433	0.808		0.06		1.00	6	0	2014	2019
TNFRSF11B	4982	O00300	TNF receptor superfamily member 11b		443	0.422	0.808	0.16	0.06		1.00	6	2	2013	2019
TREM2	54209	Q9NZC2	Triggering receptor expressed on myeloid cells 2		239	0.519	0.769	0.00	0.06		0.83	6	1	2013	2019
PTGS1	5742	P23219	Prostaglandin-endoperoxide synthase 1	Enzyme	318	0.46	0.885	0.00	0.06		0.83	6	3	2003	2019
TGFB1	7040	P01137	Transforming growth factor β 1	Signaling	1558	0.287	0.962	0.04	0.06		0.83	6	1	1997	2020
CASP3	836	P42574	Caspase 3	Enzyme	819	0.351	0.923	0.10	0.06		1.00	6	0	2017	2019
PPIG	9360	Q13427	Peptidylprolyl isomerase G		203	0.497	0.846	0.96	0.06		1.00	6	0	2016	2017
SIGMAR1	10280	Q99720	Σ non-opioid intracellular receptor 1		190	0.544	0.808	0.17	0.05		1.00	5	0	2014	2020
CPB2	1361	Q96IY4	Carboxypeptidase B2	Enzyme	148	0.536	0.846	0.00	0.05		1.00	5	2	2005	2018
ABCA1	19	O95477	ATP binding cassette subfamily A member 1	Transporter	291	0.467	0.846	0.00	0.05		1.00	5	3	2007	2019
MTOR	2475	P42345	Mechanistic target of rapamycin kinase	Kinase	960	0.343	0.885	1.00	0.05		1.00	5	0	2016	2019
GPX3	2878	P22352	Glutathione peroxidase 3	Enzyme	156	0.522	0.769	0.05	0.05		1.00	5	0	2007	2017
IL4	3565	P05112	Interleukin 4		996	0.332	0.962	0.00	0.05		1.00	5	2	2011	2019
LGALS3	3958	P17931	Galectin 3	Signaling	557	0.392	0.846	0.00	0.05		1.00	5	0	2017	2019
MMP1	4312	P03956	Matrix metallopeptidase 1	Enzyme	589	0.385	0.885	0.00	0.05		0.60	5	0	2014	2018
MMP2	4313	P08253	Matrix metallopeptidase 2	Enzyme	1021	0.333	0.923	0.84	0.05		0.80	5	1	2015	2018
NGF	4803	P01138	Nerve growth factor	Signaling	616	0.391	0.885	0.82	0.05		1.00	5	1	2017	2019
GP6	51206	Q9HCN6	Glycoprotein VI platelet	Receptor	89	0.597	0.615	0.00	0.05		1.00	5	1	2003	2019
ABCB1	5243	P08183	ATP binding cassette subfamily B member 1	Transporter	933	0.344	0.885	0.00	0.05		1.00	5	2	2012	2019
PRKCH	5583	P24723	Protein kinase C η	Kinase	55	0.653	0.577	0.43	0.05		1.00	5	2	2009	2015
MAPK3	5595	P27361	Mitogen-activated protein kinase 3	Kinase	647	0.379	0.885	0.04	0.05		1.00	5	0	2017	2019
RETN	56729	Q9HD89	Resistin		302	0.454	0.808	0.04	0.05		1.00	5	0	2016	2020
BRCA1	672	P38398	BRCA1 DNA repair associated	Enzyme	747	0.367	0.923	0.00	0.05		1.00	5	0	2013	2020
THBD	7056	P07204	Thrombomodulin		303	0.457	0.769	0.05	0.05		1.00	5	2	2001	2018
TP53	7157	P04637	Tumor protein p53	Transcription factor	2494	0.236	0.962	0.53	0.05		1.00	5	0	2004	2019
APLN	8862	Q9ULZ1	Apelin		226	0.497	0.769	0.46	0.05		1.00	5	0	2017	2019
KALRN	8997	O60229	Kalirin rhogef kinase	Kinase	59	0.644	0.654	1.00	0.05		0.60	5	4	2010	2018
KL	9365	Q9UEF7	Klotho	Enzyme	332	0.448	0.769	0.00	0.05		1.00	5	0	2006	2020
HDAC6	10013	Q9UBN7	Histone deacetylase 6	Epigenetic regulator	288	0.465	0.846	1.00	0.04		1.00	4	0	2017	2020
CDKN2B	1030	P42772	Cyclin dependent kinase inhibitor 2B		440	0.417	0.769	0.01	0.04		1.00	4	0	2009	2017
MTCO2P12	107075310		MT-CO2 pseudogene 12		703	0.368	0.962		0.04		0.75	4	0	1997	2019
COL4A2	1284	P08572	Collagen type IV α 2 chain		131	0.563	0.654	0.00	0.04		0.75	4	2	2015	2019
COX8A	1351	P10176	Cytochrome c oxidase subunit 8A	Enzyme	526	0.4	0.846	0.12	0.04		1.00	4	0	2006	2019
PARP1	142	P09874	Poly(ADP-ribose) polymerase 1		565	0.389	0.923	0.00	0.04		1.00	4	1	2017	2018
CSF3	1440	P09919	Colony stimulating factor 3		687	0.377	0.885	0.38	0.04		1.00	4	0	2015	2019
CST3	1471	P01034	Cystatin C		370	0.436	0.808	0.00	0.04		0.75	4	0	2018	2020
CYP4A11	1579	Q02928	Cytochrome P450 family 4 subfamily A member 11	Enzyme	34	0.695	0.462	0.00	0.04		1.00	4	1	2010	2016
ENO2	2026	P09104	Enolase 2	Enzyme	239	0.475	0.846	0.38	0.04		1.00	4	0	2015	2018
F3	2152	P13726	Coagulation factor III, tissue factor	Receptor	456	0.415	0.846	0.02	0.04		1.00	4	1	2001	2017
FABP4	2167	P15090	Fatty acid binding protein 4		194	0.5	0.808	0.00	0.04		1.00	4	0	2011	2018
SIRT3	23410	Q9NTG7	Sirtuin 3	Epigenetic regulator	227	0.488	0.731	0.00	0.04		0.75	4	0	2017	2019
ALOX15	246	P16050	Arachidonate 15-lipoxygenase	Enzyme	205	0.502	0.846	0.00	0.04		1.00	4	2	2009	2019
ANGPT1	284	Q15389	Angiopoietin 1	Signaling	340	0.446	0.808	0.95	0.04		1.00	4	0	2014	2019
NRG1	3084	Q02297	Neuregulin 1	Signaling	304	0.464	0.885	1.00	0.04		1.00	4	0	2010	2019
HMOX1	3162	P09601	Heme oxygenase 1		666	0.381	0.923	0.01	0.04		1.00	4	0	2010	2018
HSPA4	3308	P34932	Heat shock protein family A (Hsp70) member 4		550	0.394	0.923	1.00	0.04		0.75	4	0	2007	2019
APOC3	345	P02656	Apolipoprotein C3		153	0.531	0.731	0.01	0.04		1.00	4	2	2015	2020
IFNB1	3456	P01574	Interferon β 1		426	0.421	0.846		0.04		1.00	4	2	2003	2020
ITGA2B	3674	P08514	Integrin subunit α 2b		215	0.493	0.692	0.00	0.04		1.00	4	0	1999	2017
ITGB3	3690	P05106	Integrin subunit β 3	Receptor	260	0.485	0.846	0.00	0.04		0.75	4	3	2012	2019
MALAT1	378938		Metastasis associated lung adenocarcinoma transcript 1		336	0.435	0.846		0.04		0.75	4	1	2017	2020
KLK1	3816	P06870	Kallikrein 1	Enzyme	132	0.533	0.769	0.00	0.04		1.00	4	0	2006	2019
KNG1	3827	P01042	Kininogen 1	Enzyme modulator	279	0.481	0.885	0.00	0.04		1.00	4	1	2015	2019
LCN2	3934	P80188	Lipocalin 2	Enzyme	497	0.405	0.885	0.00	0.04		1.00	4	0	2018	2019
LEP	3952	P41159	Leptin		931	0.349	0.846	0.46	0.04		1.00	4	0	2016	2019
MIR122	406906		Microrna 122		250	0.468	0.808		0.04		0.75	4	1	2016	2020
MIR143	406935		Microrna 143		267	0.462	0.885		0.04		0.75	4	2	2016	2019
MIR149	406941		Microrna 149		140	0.524	0.769		0.04		0.25	4	1	2015	2018

MMP12	4321	P39900	Matrix metallopeptidase 12	Enzyme	216	0.484	0.885		0.04		0.75	4	1	2014	2018
MPO	4353	P05164	Myeloperoxidase	Enzyme	653	0.377	0.923	0.00	0.04		1.00	4	1	2017	2019
COX2	4513	P00403	Cytochrome c oxidase subunit II	Enzyme	875	0.352	0.962		0.04		0.75	4	0	1997	2019
SERPINC1	462	P01008	Serpin family C member 1	Enzyme modulator	184	0.507	0.769	1.00	0.04		1.00	4	0	1989	2017
NEFL	4747	P07196	Neurofilament light		247	0.488	0.769		0.04		1.00	4	0	2018	2019
NOS2	4843	P35228	Nitric oxide synthase 2		783	0.364	0.923	0.00	0.04		1.00	4	0	2017	2019
NPY	4852	P01303	Neuropeptide Y	Signaling	381	0.447	0.846	0.14	0.04		1.00	4	1	2007	2010
PON2	5445	Q15165	Paraoxonase 2		117	0.566	0.808	0.00	0.04		1.00	4	1	2007	2017
PPARA	5465	Q07869	Peroxisome proliferator activated receptor α	Nuclear receptor	408	0.432	0.885	0.03	0.04		1.00	4	1	2013	2019
CHDH	55349	Q8NE62	Choline dehydrogenase	Enzyme	158	0.529	0.769	0.00	0.04		1.00	4	0	2013	2019
MAPK1	5594	P28482	Mitogen-activated protein kinase 1	Kinase	1059	0.33	0.923	1.00	0.04		1.00	4	0	2009	2019
REN	5972	P00797	Renin	Enzyme	721	0.37	0.923	0.00	0.04		1.00	4	0	2004	2018
SPP1	6696	P10451	Secreted phosphoprotein 1		824	0.353	0.885	0.00	0.04		1.00	4	0	2013	2018
TRAF6	7189	Q9Y4K3	TNF receptor associated factor 6	Signaling	254	0.472	0.808	1.00	0.04		1.00	4	2	2013	2017
UCP2	7351	P55851	Uncoupling protein 2	Transporter	235	0.493	0.808	0.00	0.04		1.00	4	0	2011	2017
VKORC1	79001	Q9BQB6	Vitamin K epoxide reductase complex subunit 1	Enzyme	89	0.603	0.731	0.16	0.04		1.00	4	2	2008	2016
CAV1	857	Q03135	Caveolin 1	Enzyme modulator	633	0.388	0.885	0.01	0.04		1.00	4	0	2017	2019
CBS	875	P0DN79;P35520	Cystathionine β-synthase	Enzyme	295	0.465	0.885	0.00	0.04		1.00	4	1	2001	2019
IL33	90865	O95760	Interleukin 33		487	0.409	0.885	0.00	0.04		1.00	4	4	2013	2019
GDF15	9518	Q99988	Growth differentiation factor 15	Signaling	389	0.429	0.808	0.00	0.04		1.00	4	1	2017	2020
CD40	958	P25942	CD40 molecule		528	0.396	0.846	0.85	0.04		1.00	4	3	2010	2019
DNM1L	10059	O00429	Dynamin 1 like	Enzyme modulator	273	0.475	0.808	0.00	0.03		1.00	3	0	2017	2018
CDK5	1020	Q00535	Cyclin dependent kinase 5	Kinase	204	0.495	0.846	0.14	0.03		1.00	3	0	2017	2018
TRIB1	10221	Q96RU8	Tribbles pseudokinase 1	Kinase	61	0.617	0.577	0.83	0.03		1.00	3	0	2011	2019
KLF2	10365	Q9Y5W3	Kruppel like factor 2	Nucleic acid binding	132	0.542	0.692	0.56	0.03		1.00	3	0	2013	2019
ADAMTS7	11173	Q9UKP4	ADAM metallopeptidase with thrombospondin type 1 motif 7	Enzyme	40	0.666	0.577	0.00	0.03		1.00	3	2	2019	2019
SERPINA3	12	P01011	Serpin family A member 3	Enzyme modulator	229	0.486	0.846	0.00	0.03		1.00	3	0	2000	2010
CX3CR1	1524	P49238	C-X3-C motif chemokine receptor 1	G-protein coupled receptor	310	0.457	0.885	0.06	0.03		1.00	3	0	2005	2019
CYBA	1535	P13498	Cytochrome b-245 α chain		177	0.52	0.769	0.00	0.03		0.33	3	1	2007	2013
CYP2C9	1559	P11712	Cytochrome P450 family 2 subfamily C member 9		201	0.506	0.885	0.00	0.03		1.00	3	0	2007	2009
CYP2J2	1573	P51589	Cytochrome P450 family 2 subfamily J member 2		65	0.628	0.615	0.00	0.03		1.00	3	0	2008	2017
DPP4	1803	P27487	Dipeptidyl peptidase 4	Enzyme	451	0.42	0.808	0.00	0.03		1.00	3	0	2017	2020
EDNRB	1910	P24530	Endothelin receptor type B	G-protein coupled receptor	300	0.47	0.846	0.01	0.03		1.00	3	2	2014	2019
F2R	2149	P25116	Coagulation factor II thrombin receptor	G-protein coupled receptor	347	0.444	0.846	0.01	0.03		1.00	3	0	2014	2018
F11	2160	P03951	Coagulation factor XI	Enzyme	100	0.59	0.692	0.00	0.03		0.67	3	0	2013	2018
F13A1	2162	P00488	Coagulation factor XIII A chain	Enzyme	117	0.575	0.731	0.00	0.03		1.00	3	3	2002	2016
FGA	2243	P02671	Fibrinogen α chain		118	0.573	0.769	0.00	0.03		0.67	3	3	2008	2019
SIRT2	22933	Q8IXJ6	Sirtuin 2	Epigenetic regulator	172	0.51	0.769	0.00	0.03		1.00	3	0	2012	2018
POLDIP2	26073	Q9Y2S7	DNA polymerase δ interacting protein 2		530	0.396	0.923	0.41	0.03		1.00	3	0	2018	2019
GRIN2A	2903	Q12879	Glutamate ionotropic receptor NMDA type subunit 2A	Ion channel	212	0.522	0.808	1.00	0.03		1.00	3	0	2017	2018
GSK3B	2932	P49841	Glycogen synthase kinase 3 β	Kinase	393	0.43	0.846	0.96	0.03		1.00	3	0	2017	2019
HFE	3077	Q30201	Homeostatic iron regulator		415	0.436	0.846	0.00	0.03		0.67	3	2	2007	2011
HLA-DRB1	3123	P01911	Major histocompatibility complex, class II, DR β 1	Immune response	1018	0.333	0.923	0.00	0.03		1.00	3	0	2002	2019
APOA1	335	P02647	Apolipoprotein A1		416	0.429	0.885	0.00	0.03		1.00	3	1	2016	2018
IL6R	3570	P08887	Interleukin 6 receptor	Signaling	261	0.471	0.846	0.00	0.03		1.00	3	6	2015	2020
IL13	3596	P35225	Interleukin 13		587	0.386	0.846	0.01	0.03		1.00	3	0	2018	2019
LGALS1	3956	P09382	Galectin 1	Signaling	362	0.435	0.846	0.00	0.03		1.00	3	0	2017	2018
LGALS2	3957	P05162	Galectin 2	Signaling	27	0.7	0.385	0.02	0.03		0.67	3	0	2005	2009
LIF	3976	P15018	LIF interleukin 6 family cytokine	Signaling	236	0.483	0.769	0.52	0.03		1.00	3	0	2012	2019
LTC4S	4056	Q16873	Leukotriene C4 synthase	Enzyme	50	0.647	0.731	0.00	0.03		1.00	3	1	2009	2012
MIR130A	406919		Microrna 130a		141	0.522	0.808		0.03		1.00	3	0	2016	2019
MIR137	406928		Microrna 137		171	0.513	0.846		0.03		1.00	3	0	2018	2018
MIR155	406947		Microrna 155		584	0.384	0.885		0.03		1.00	3	1	2016	2020
MIR19A	406979		Microrna 19a		151	0.512	0.808		0.03		1.00	3	0	2018	2019
MIR21	406991		Microrna 21		726	0.363	0.846		0.03		1.00	3	1	2017	2018
MIR210	406992		Microrna 210		277	0.46	0.846		0.03		1.00	3	0	2016	2018
MIR30A	407029		Microrna 30a		218	0.478	0.808		0.03		1.00	3	0	2013	2018
MAP3K5	4217	Q99683	Mitogen-activated protein kinase kinase kinase 5	Kinase	170	0.513	0.808	0.52	0.03		1.00	3	0	2017	2018
MIF	4282	P14174	Macrophage migration inhibitory factor		455	0.412	0.885	0.01	0.03		1.00	3	0	2017	2019
MMP8	4317	P22894	Matrix metallopeptidase 8	Enzyme	213	0.488	0.808	0.00	0.03		1.00	3	1	2018	2019
MMP10	4319	P09238	Matrix metallopeptidase 10	Enzyme	123	0.553	0.808	0.00	0.03		1.00	3	0	2011	2019
COX1	4512	P00395	Cytochrome c oxidase subunit I	Enzyme	421	0.441	0.885		0.03		0.67	3	0	2010	2019
NOS1	4842	P29475	Nitric oxide synthase 1		521	0.408	0.885	1.00	0.03		1.00	3	3	2014	2018
P2RY1	5028	P47900	Purinergic receptor P2Y1	G-protein coupled receptor	126	0.551	0.769	0.52	0.03		1.00	3	0	2017	2017
ANGPTL4	51129	Q9BY76	Angiopoietin like 4	Signaling	198	0.498	0.731	0.00	0.03		0.67	3	0	2016	2018
TNFRSF12A	51330	Q9NP84	TNF receptor superfamily member 12A		173	0.509	0.692	0.02	0.03		1.00	3	0	2007	2010
RNLS	55328	Q5VYX0	Renalase, FAD dependent amine oxidase		32	0.678	0.423	0.00	0.03		1.00	3	2	2013	2018
MEG3	55384		Maternally expressed 3		239	0.471	0.846		0.03		1.00	3	2	2017	2019
SELENOS	55829	Q9BQE4	Selenoprotein S		55	0.628	0.615	0.00	0.03		1.00	3	2	2007	2015
PTX3	5806	P26022	Pentraxin 3		296	0.457	0.808	0.00	0.03		1.00	3	0	2017	2018
BCL2	596	P10415	BCL2 apoptosis regulator	Signaling	1456	0.291	0.885	0.56	0.03		1.00	3	0	2012	2019
S100B	6285	P04271	S100 calcium binding protein B	Calcium-binding protein	599	0.383	0.923	0.04	0.03		1.00	3	1	2017	2018
ACSM3	6296	Q53FZ2	Acyl-coa synthetase medium chain family member 3	Enzyme	69	0.623	0.615	0.00	0.03		1.00	3	0	2019	2019

CCL11	6356	P51671	C-C motif chemokine ligand 11	Signaling	250	0.473	0.885	0.01	0.03		1.00	3	0	2014	2017
SELPLG	6404	Q14242	Selectin P ligand		113	0.564	0.692	0.18	0.03		1.00	3	1	2007	2016
SLC1A2	6506	P43004	Solute carrier family 1 member 2	Transporter	208	0.511	0.731	0.71	0.03		1.00	3	0	2014	2019
SLC25A1	6576	P53007	Solute carrier family 25 member 1	Transporter	168	0.553	0.731	0.06	0.03		1.00	3	0	2017	2020
BSG	682	P35613	Basigin (Ok blood group)		287	0.458	0.769	0.00	0.03		1.00	3	0	2017	2019
CCR2	729230	P41597	C-C motif chemokine receptor 2		436	0.418	0.846	0.02	0.03		1.00	3	1	2014	2019
XBP1	7494	P17861	X-box binding protein 1		234	0.477	0.846	0.03	0.03		1.00	3	0	2010	2019
XRCC1	7515	P18887	X-ray repair cross complementing 1		410	0.421	0.923	0.00	0.03		1.00	3	1	2006	2016
CAD	790	P27708	Carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase	Enzyme	249	0.482	0.846	1.00	0.03		1.00	3	0	2013	2018
SNHG12	85028	Q9BXW3	Small nucleolar RNA host gene 12		50	0.628	0.538		0.03		1.00	3	0	2018	2019
TP63	8626	Q9H3D4	Tumor protein p63	Transcription factor	816	0.362	0.769	1.00	0.03		1.00	3	0	2017	2019
SOCS1	8651	O15524	Suppressor of cytokine signaling 1	Enzyme modulator	315	0.445	0.808	0.59	0.03		1.00	3	0	2016	2020
KCNK17	89822	Q96T54	Potassium two pore domain channel subfamily K member 17	Ion channel	13	0.78	0.269	0.00	0.03		1.00	3	2	2010	2014
NTN1	9423	O95631	Netrin 1	Enzyme modulator	209	0.509	0.846	1.00	0.03		1.00	3	0	2017	2019
ROCK2	9475	O75116	Rho associated coiled-coil containing protein kinase 2	Kinase	154	0.529	0.808	1.00	0.03		1.00	3	2	2018	2019
PTGES	9536	O14684	Prostaglandin E synthase		150	0.54	0.769	0.71	0.03		0.67	3	1	2009	2017
CD40LG	959	P29965	CD40 ligand	Signaling	453	0.414	0.846	0.72	0.03		1.00	3	0	2012	2019
CELSR1	9620	Q9NYQ6	Cadherin EGF LAG seven-pass G-type receptor 1	G-protein coupled receptor	30	0.7	0.5	1.00	0.03		1.00	3	2	2009	2015
ARHGEF10	9639	O15013	Rho guanine nucleotide exchange factor 10	Enzyme	29	0.729	0.577	0.00	0.03		1.00	3	4	2011	2017
MIR874	100126343		Microrna 874		53	0.628	0.577		0.02		1.00	2	0	2018	2019
OCLN	100506658	Q16625	Occludin		195	0.507	0.846	0.00	0.02		1.00	2	0	2017	2017
MIR499B	100616134		Microrna 499b		15	0.76	0.269		0.02		1.00	2	1	2015	2019
PPIF	10105	P30405	Peptidylprolyl isomerase F		78	0.593	0.692	0.00	0.02		1.00	2	0	2017	2020
PGR-AS1	101054525		PGR antisense RNA 1		172	0.514	0.808		0.02		1.00	2	0	2004	2017
NAMPT	10135	P43490	Nicotinamide phosphoribosyltransferase	Signaling	199	0.502	0.808	0.98	0.02		1.00	2	0	2014	2016
CBSL	102724560	P0DN79;P35520	Cystathionine β-synthase like		129	0.54	0.808		0.02		1.00	2	0	2006	2019
AHSA1	10598	O95433	Activator of HSP90 atpase activity 1		526	0.396	0.923	1.00	0.02		1.00	2	0	2018	2019
SLC17A3	10786	O00476	Solute carrier family 17 member 3	Transporter	21	0.769	0.385	0.00	0.02		1.00	2	1	2014	2016
HPSE	10855	Q9Y251	Heparanase	Enzyme	393	0.425	0.808	0.00	0.02		0.50	2	0	2017	2017
RUVBL2	10856	Q9Y230	Ruvb like AAA atpase 2		23	0.743	0.385	1.00	0.02		1.00	2	2	2009	2011
CHI3L1	1116	P36222	Chitinase 3 like 1		420	0.419	0.885	0.00	0.02		1.00	2	0	2012	2016
HSPA12B	116835	Q96MM6	Heat shock protein family A (Hsp70) member 12B		16	0.751	0.269	0.00	0.02		1.00	2	0	2013	2018
ADD1	118	P35611	Adducin 1	Cellular structure	67	0.612	0.615	0.99	0.02		1.00	2	0	2011	2013
RBM45	129831	Q8IUH3	RNA binding motif protein 45		557	0.383	0.846	0.00	0.02		1.00	2	0	2002	2016
ADM	133	P35318	Adrenomedullin	Signaling	405	0.436	0.808	0.04	0.02		1.00	2	0	2012	2014
CPOX	1371	P36551	Coproporphyrinogen oxidase	Enzyme	246	0.488	0.846	0.17	0.02		1.00	2	0	2016	2019
CRK	1398	P46108	CRK proto-oncogene, adaptor protein		544	0.394	0.923	0.96	0.02		1.00	2	0	2018	2019
MAPK14	1432	Q16539	Mitogen-activated protein kinase 14	Kinase	626	0.379	0.923	0.37	0.02		1.00	2	0	2018	2019
CTLA4	1493	P16410	Cytotoxic T-lymphocyte associated protein 4		722	0.369	0.923	0.94	0.02		1.00	2	0	2009	2019
ADRA2B	151	P18089	Adrenoceptor α 2B	G-protein coupled receptor	296	0.465	0.846	0.00	0.02		1.00	2	0	2013	2015
ADRB2	154	P07550	Adrenoceptor β 2	G-protein coupled receptor	387	0.442	0.923	0.53	0.02		1.00	2	1	2007	2019
CYP1A1	1543	P04798	Cytochrome P450 family 1 subfamily A member 1	Enzyme	379	0.436	0.846	0.00	0.02		1.00	2	2	2013	2016
CYP2B6	1555	P20813	Cytochrome P450 family 2 subfamily B member 6		388	0.428	0.846	0.00	0.02		1.00	2	0	2014	2016
CYP2C8	1558	P10632	Cytochrome P450 family 2 subfamily C member 8		73	0.615	0.615	0.00	0.02		1.00	2	1	2008	2015
CYP3A4	1576	P08684	Cytochrome P450 family 3 subfamily A member 4	Enzyme	291	0.462	0.885	0.00	0.02		1.00	2	0	2018	2019
CYP3A5	1577	P20815	Cytochrome P450 family 3 subfamily A member 5	Enzyme	179	0.511	0.846	0.00	0.02		1.00	2	1	2015	2019
NQO1	1728	P15559	NAD(P)H quinone dehydrogenase 1		368	0.434	0.885	0.00	0.02		1.00	2	0	2010	2017
AGTR2	186	P50052	Angiotensin II receptor type 2	G-protein coupled receptor	229	0.496	0.808	0.01	0.02		1.00	2	0	2017	2019
APLNR	187	P35414	Apelin receptor	G-protein coupled receptor	94	0.588	0.692	0.79	0.02		1.00	2	1	2017	2017
ECE1	1889	P42892	Endothelin converting enzyme 1	Enzyme	157	0.541	0.769	0.96	0.02		1.00	2	1	2013	2014
EDNRA	1909	P25101	Endothelin receptor type A	G-protein coupled receptor	427	0.426	0.885	0.99	0.02		1.00	2	2	2014	2015
EGR1	1958	P18146	Early growth response 1	Nucleic acid binding	378	0.433	0.923	0.35	0.02		1.00	2	0	2015	2017
AHSG	197	P02765	A 2-HS glycoprotein	Enzyme modulator	204	0.506	0.846	0.00	0.02		1.00	2	1	2009	2013
MLKL	197259	Q8NB16	Mixed lineage kinase domain like pseudokinase	Kinase	93	0.57	0.731	0.00	0.02		1.00	2	0	2019	2019
EPHA4	2043	P54764	EPH receptor A4	Kinase	118	0.566	0.846	1.00	0.02		1.00	2	0	2018	2019
EPHB2	2048	P29323	EPH receptor B2	Kinase	649	0.374	0.846	1.00	0.02		1.00	2	0	2009	2019
ESR2	2100	Q92731	Estrogen receptor 2	Nuclear receptor	528	0.4	0.923	0.00	0.02		1.00	2	3	2012	2016
ALB	213	P02768	Albumin	Transporter	1198	0.317	0.962	0.64	0.02		1.00	2	0	2018	2019
EZH2	2146	Q15910	Enhancer of zeste 2 polycomb repressive complex 2 subunit	Epigenetic regulator	653	0.376	0.885	1.00	0.02		1.00	2	0	2013	2019
F12	2161	P00748	Coagulation factor XII	Enzyme	87	0.612	0.577	0.00	0.02		1.00	2	0	2004	2019
FCGR2A	2212	P12318	Fc fragment of igg receptor iia	Cell adhesion	227	0.48	0.769	0.00	0.02		1.00	2	0	2009	2010
FGFR4	2264	P22455	Fibroblast growth factor receptor 4	Kinase	220	0.49	0.769	0.00	0.02		1.00	2	1	2012	2014
FGG	2266	P02679	Fibrinogen γ chain	Signaling	70	0.633	0.615	0.05	0.02		1.00	2	0	2008	2008
DKK1	22943	O94907	Dickkopf WNT signaling pathway inhibitor 1		372	0.439	0.885	0.17	0.02		1.00	2	0	2017	2019
RCOR1	23186	Q9UKL0	REST corepressor 1		36	0.678	0.577	1.00	0.02		1.00	2	0	2012	2018
SNHG1	23642		Small nucleolar RNA host gene 1		83	0.576	0.692		0.02		1.00	2	0	2018	2019
ALOX12	239	P18054	Arachidonate 12-lipoxygenase, 12S type	Enzyme	119	0.558	0.692	0.00	0.02		1.00	2	1	2009	2011
POU2F3	25833	Q9UKI9	POU class 2 homeobox 3		56	0.626	0.731	0.00	0.02		1.00	2	1	2002	2014
RNF19A	25897	Q9NV58	Ring finger protein 19A, RBR E3 ubiquitin protein ligase	Enzyme	523	0.397	0.923	0.03	0.02		1.00	2	0	2018	2019
GCG	2641	P01275	Glucagon		441	0.431	0.885	0.03	0.02		1.00	2	0	2018	2019
GFAP	2670	P14136	Glial fibrillary acidic protein		447	0.421	0.885	0.00	0.02		1.00	2	0	2017	2020
GJA4	2701	P35212	Gap junction protein α 4	Cell-cell junction	39	0.663	0.5	0.06	0.02		1.00	2	2	2011	2012

IL37	27178	Q9NZH6	Interleukin 37		280	0.459	0.846	0.00	0.02		1.00	2	0	2017	2019
ANGPTL3	27329	Q9Y5C1	Angiopoietin like 3	Signaling	81	0.584	0.577	0.00	0.02		1.00	2	1	2011	2018
GLP1R	2740	P43220	Glucagon like peptide 1 receptor	G-protein coupled receptor	288	0.471	0.846	0.29	0.02		1.00	2	0	2017	2019
GPER1	2852	Q99527	G protein-coupled estrogen receptor 1	G-protein coupled receptor	180	0.505	0.731	0.57	0.02		1.00	2	0	2018	2018
GRIA2	2891	P42262	Glutamate ionotropic receptor AMPA type subunit 2	Ion channel	110	0.573	0.692	1.00	0.02		1.00	2	0	2005	2012
GRIN1	2902	Q05586	Glutamate ionotropic receptor NMDA type subunit 1	Ion channel	150	0.561	0.692	0.98	0.02		1.00	2	0	2015	2017
NR3C1	2908	P04150	Nuclear receptor subfamily 3 group C member 1	Nuclear receptor	590	0.393	0.885	0.97	0.02		1.00	2	0	2018	2019
CXCL2	2920	P19875	C-X-C motif chemokine ligand 2	Signaling	186	0.513	0.885	0.00	0.02		1.00	2	0	2013	2019
HABP2	3026	Q14520	Hyaluronan binding protein 2	Enzyme	88	0.593	0.615	0.00	0.02		1.00	2	0	2012	2017
HDAC2	3066	Q92769	Histone deacetylase 2	Epigenetic regulator	257	0.476	0.846	1.00	0.02		1.00	2	0	2020	2020
CFH	3075	P08603	Complement factor H		393	0.441	0.885	0.86	0.02		1.00	2	1	2008	2012
HGF	3082	P14210	Hepatocyte growth factor	Enzyme	671	0.374	0.885	1.00	0.02		1.00	2	0	2018	2020
HSPA1A	3303	P0DMV8;P0DMV9	Heat shock protein family A (Hsp70) member 1A		229	0.486	0.769	0.03	0.02		1.00	2	0	2007	2017
HSPA1B	3304	P0DMV8;P0DMV9	Heat shock protein family A (Hsp70) member 1B		251	0.474	0.808	0.01	0.02		1.00	2	0	2007	2017
HSPB1	3315	P04792	Heat shock protein family B (small) member 1		395	0.436	0.808	0.00	0.02		1.00	2	0	2017	2020
HSPB2	3316	Q16082	Heat shock protein family B (small) member 2		290	0.457	0.769	0.00	0.02		1.00	2	0	2017	2020
IFNG	3458	P01579	Interferon γ		1519	0.288	0.962	0.47	0.02		1.00	2	0	2018	2018
APOH	350	P02749	Apolipoprotein H		121	0.563	0.769	0.00	0.02		1.00	2	0	2009	2019
IL9	3578	P15248	Interleukin 9		291	0.461	0.846	0.00	0.02		1.00	2	0	2017	2019
IL15	3600	P40933	Interleukin 15		426	0.422	0.846	0.71	0.02		1.00	2	0	2017	2018
IMPA2	3613	O14732	Inositol monophosphatase 2	Enzyme	26	0.695	0.385	0.00	0.02		1.00	2	2	2010	2016
AQP9	366	O43315	Aquaporin 9	Ion channel	100	0.565	0.808	0.24	0.02		1.00	2	0	2017	2018
IRF4	3662	Q15306	Interferon regulatory factor 4	Transcription factor	203	0.491	0.769	0.86	0.02		1.00	2	0	2014	2018
AR	367	P10275	Androgen receptor	Nuclear receptor	854	0.351	0.846	0.99	0.02		1.00	2	0	2008	2019
JUN	3725	P05412	Jun proto-oncogene, AP-1 transcription factor subunit	Transcription factor	344	0.442	0.885	0.06	0.02		1.00	2	0	2017	2018
KCNJ13	3769	O60928	Potassium inwardly rectifying channel subfamily J member 13	Ion channel	59	0.659	0.308	0.01	0.02		1.00	2	0	2016	2017
KCNQ1	3784	P51787	Potassium voltage-gated channel subfamily Q member 1	Ion channel	281	0.485	0.769	0.00	0.02		1.00	2	0	2015	2019
ARG1	383	P05089	Arginase 1	Enzyme	273	0.476	0.846	0.00	0.02		1.00	2	0	2016	2019
FADS1	3992	O60427	Fatty acid desaturase 1		125	0.582	0.769	0.37	0.02		1.00	2	2	2014	2015
LLGL2	3993	Q6P1M3	LLGL scribble cell polarity complex component 2	Transporter	23	0.769	0.192	0.00	0.02		1.00	2	2	2009	2011
LTA4H	4048	P09960	Leukotriene A4 hydrolase		63	0.617	0.654	0.00	0.02		1.00	2	1	2008	2012
MIR106B	406900		Microrna 106b		143	0.523	0.808		0.02		1.00	2	0	2017	2018
MIR107	406901		Microrna 107		123	0.543	0.769		0.02		1.00	2	0	2014	2015
MIR125A	406910		Microrna 125a		225	0.48	0.769		0.02		1.00	2	1	2016	2017
MIR132	406921		Microrna 132		222	0.485	0.846		0.02		1.00	2	0	2018	2020
MIR134	406924		Microrna 134		126	0.542	0.769		0.02		1.00	2	0	2017	2018
MIR150	406942		Microrna 150		282	0.455	0.808		0.02		1.00	2	0	2016	2019
MIR15A	406948		Microrna 15a		221	0.482	0.808		0.02		1.00	2	0	2017	2017
MIR181C	406957		Microrna 181c		103	0.555	0.769		0.02		1.00	2	0	2019	2020
MIR27B	407019		Microrna 27b		141	0.529	0.769		0.02		1.00	2	0	2018	2019
MIR29B1	407024		Microrna 29b-1		212	0.485	0.846		0.02		1.00	2	0	2015	2018
MIR29B2	407025		Microrna 29b-2		214	0.484	0.885		0.02		1.00	2	0	2015	2018
MIR17HG	407975	Q75NE6	Mir-17-92a-1 cluster host gene		224	0.483	0.808		0.02		1.00	2	0	2019	2019
TNFSF12-TNFSF13	407977	O43508	TNFSF12-TNFSF13 readthrough		91	0.579	0.615	0.77	0.02		1.00	2	0	2008	2010
ARSA	410	P15289	Arylsulfatase A	Enzyme	376	0.448	0.923	0.00	0.02		1.00	2	1	2017	2018
MIP	4284	P30301	Major intrinsic protein of lens fiber	Ion channel	181	0.507	0.846	0.03	0.02		1.00	2	0	1999	2019
ACHE	43	P22303	Acetylcholinesterase (Cartwright blood group)	Enzyme	418	0.445	0.885	1.00	0.02		1.00	2	0	2018	2020
MMP7	4316	P09237	Matrix metallopeptidase 7	Enzyme	320	0.446	0.885	0.00	0.02		1.00	2	0	2015	2019
MIR335	442904		Microrna 335		141	0.521	0.808		0.02		1.00	2	0	2016	2019
MTR	4548	Q99707	5-methyltetrahydrofolate-homocysteine methyltransferase		245	0.482	0.808	0.00	0.02		1.00	2	1	2001	2007
MTRR	4552	Q9UBK8	5-methyltetrahydrofolate-homocysteine methyltransferase reductase		207	0.502	0.808	0.00	0.02		1.00	2	0	2011	2019
NUBP1	4682	P53384	Nucleotide binding protein 1		25	0.743	0.231	0.00	0.02		1.00	2	0	2017	2017
ATM	472	Q13315	ATM serine/threonine kinase	Kinase	684	0.374	0.885	0.00	0.02		1.00	2	0	2004	2017
NGFR	4804	P08138	Nerve growth factor receptor	Receptor	256	0.477	0.846	0.10	0.02		1.00	2	2	2018	2018
NOTCH1	4851	P46531	Notch receptor 1		693	0.369	0.885	1.00	0.02		1.00	2	0	2015	2019
NPPA	4878	P01160	Natriuretic peptide A		217	0.505	0.769	0.00	0.02		1.00	2	0	2001	2014
NPR3	4883	P17342	Natriuretic peptide receptor 3		83	0.633	0.615	0.00	0.02		1.00	2	1	2012	2013
NTF3	4908	P20783	Neurotrophin 3	Signaling	170	0.519	0.808	0.93	0.02		1.00	2	0	2012	2019
DUOX2	50506	Q9NRD8	Dual oxidase 2	Enzyme	150	0.533	0.769	0.00	0.02		1.00	2	0	2013	2019
CKLF	51192	Q9UBR5	Chemokine like factor		36	0.682	0.538	0.00	0.02		1.00	2	0	2019	2019
CLEC1B	51266	Q9P126	C-type lectin domain family 1 member B		58	0.65	0.615	0.00	0.02		1.00	2	0	2018	2019
PDE4A	5141	P27815	Phosphodiesterase 4A		168	0.523	0.846	0.98	0.02		1.00	2	0	2018	2019
SIRT6	51548	Q8N6T7	Sirtuin 6	Epigenetic regulator	195	0.496	0.846	0.04	0.02		1.00	2	0	2017	2019
SERPINF1	5176	P36955	Serpin family F member 1	Enzyme modulator	294	0.46	0.846	0.00	0.02		1.00	2	0	2017	2019
PIN1	5300	Q13526	Peptidylprolyl cis/trans isomerase, NIMA-interacting 1		212	0.488	0.769	0.74	0.02		1.00	2	0	2015	2018
PLA2G1B	5319	P04054	Phospholipase A2 group IB	Enzyme	268	0.468	0.846	0.00	0.02		1.00	2	0	2003	2014
PLA2G2A	5320	P14555	Phospholipase A2 group IIA	Enzyme	215	0.488	0.808	0.10	0.02		1.00	2	0	2003	2014
PLAU	5328	P00749	Plasminogen activator, urokinase	Enzyme	439	0.425	0.923	0.00	0.02		1.00	2	0	2014	2019
SERPINF2	5345	P08697	Serpin family F member 2	Enzyme modulator	104	0.575	0.808	0.01	0.02		1.00	2	1	2017	2019
DUOX1	53905	Q9NRD9	Dual oxidase 1	Enzyme	97	0.57	0.692	0.00	0.02		1.00	2	0	2013	2019
PPARD	5467	Q03181	Peroxisome proliferator activated receptor δ	Nuclear receptor	197	0.513	0.846	0.99	0.02		1.00	2	0	2013	2015
PPID	5481	Q08752	Peptidylprolyl isomerase D		72	0.603	0.692	0.00	0.02		1.00	2	0	2017	2020
TUG1	55000		Taurine up-regulated 1		134	0.522	0.769		0.02		1.00	2	0	2017	2019

MARCHF1	55016	Q8TCQ1	Membrane associated ring-CH-type finger 1		126	0.54	0.808	0.01	0.02		1.00	2	0	2018	2018
MAPK8	5599	P45983	Mitogen-activated protein kinase 8	Kinase	520	0.397	0.885	1.00	0.02		1.00	2	0	2018	2019
PROS1	5627	P07225	Protein S		283	0.467	0.846	0.00	0.02		1.00	2	0	1994	2015
PSMA6	5687	P60900	Proteasome 20S subunit α 6		43	0.653	0.654	0.99	0.02		0.50	2	1	2009	2013
ACKR3	57007	P25106	Atypical chemokine receptor 3	G-protein coupled receptor	400	0.428	0.885	0.39	0.02		1.00	2	0	2015	2018
PTEN	5728	P60484	Phosphatase and tensin homolog	Enzyme	1349	0.305	0.923	0.26	0.02		1.00	2	0	2018	2019
PTGIS	5740	Q16647	Prostaglandin I2 synthase		70	0.617	0.654	0.00	0.02		1.00	2	1	2009	2011
MIR494	574452		Microrna 494		131	0.531	0.692		0.02		1.00	2	0	2019	2020
NGB	58157	Q9NPG2	Neuroglobin	Transporter	56	0.631	0.462	0.00	0.02		1.00	2	0	2008	2018
CXCL16	58191	Q9H2A7	C-X-C motif chemokine ligand 16	Signaling	178	0.502	0.769	0.00	0.02		1.00	2	0	2017	2019
RAC1	5879	P63000	Rac family small gtpase 1	Enzyme modulator	415	0.429	0.962	0.76	0.02		1.00	2	0	2018	2019
MOK	5891	Q9UQ07	MOK protein kinase	Kinase	251	0.476	0.769	0.00	0.02		1.00	2	1	2013	2016
ACE2	59272	Q9BYF1	Angiotensin I converting enzyme 2	Enzyme	253	0.477	0.769	1.00	0.02		1.00	2	3	2013	2014
RBP4	5950	P02753	Retinol binding protein 4	Transporter	217	0.493	0.808	0.52	0.02		0.50	2	0	2018	2019
BCL2A1	597	Q16548	BCL2 related protein A1	Signaling	150	0.529	0.731	0.21	0.02		1.00	2	0	2019	2019
RELA	5970	Q04206	RELA proto-oncogene, NF-kb subunit	Transcription factor	483	0.406	0.885	1.00	0.02		1.00	2	0	2015	2019
HPSE2	60495	Q8WWQ2	Heparanase 2 (inactive)	Enzyme	81	0.588	0.692	0.00	0.02		0.00	2	0	2005	2017
GAS5	60674		Growth arrest specific 5		184	0.497	0.808		0.02		0.50	2	1	2018	2018
SGK1	6446	O00141	Serum/glucocorticoid regulated kinase 1	Kinase	188	0.506	0.769	0.00	0.02		1.00	2	2	2011	2019
RTN4R	65078	Q9BZR6	Reticulon 4 receptor		75	0.595	0.692	0.96	0.02		1.00	2	0	2017	2019
SLC5A2	6524	P31639	Solute carrier family 5 member 2	Transporter	214	0.499	0.769	0.00	0.02		1.00	2	0	2017	2019
SLC9A1	6548	P19634	Solute carrier family 9 member A1	Transporter	144	0.55	0.731	0.79	0.02		1.00	2	0	2018	2019
SLC12A2	6558	P55011	Solute carrier family 12 member 2	Transporter	128	0.552	0.808	0.96	0.02		1.00	2	0	2019	2019
SST	6750	P61278	Somatostatin	Signaling	535	0.399	0.885	0.34	0.02		1.00	2	0	2017	2018
STC1	6781	P52823	Stanniocalcin 1	Signaling	137	0.532	0.731	0.20	0.02		0.50	2	0	2017	2020
SULT1E1	6783	P49888	Sulfotransferase family 1E member 1		171	0.508	0.808	0.00	0.02		1.00	2	0	2012	2019
SYK	6850	P43405	Spleen associated tyrosine kinase	Kinase	229	0.475	0.808	1.00	0.02		1.00	2	0	2019	2019
TBXAS1	6916	P24557	Thromboxane A synthase 1		77	0.619	0.615	0.00	0.02		1.00	2	2	2009	2018
HNF1A	6927	P20823	HNF1 homeobox A	Nucleic acid binding	292	0.478	0.846	0.96	0.02		1.00	2	3	2016	2017
TGFA	7039	P01135	Transforming growth factor α	Signaling	376	0.432	0.885	0.72	0.02		1.00	2	0	2017	2020
TSPO	706	P30536	Translocator protein		341	0.444	0.885	0.00	0.02		1.00	2	0	2018	2019
TIMP2	7077	P16035	TIMP metallopeptidase inhibitor 2	Enzyme modulator	404	0.425	0.846	0.79	0.02		1.00	2	0	2009	2018
TLR2	7097	O60603	Toll like receptor 2		749	0.361	0.923	0.00	0.02		1.00	2	1	2012	2019
TNFSF4	7292	P23510	TNF superfamily member 4	Signaling	129	0.54	0.808	0.05	0.02		1.00	2	1	2009	2019
TXN	7295	P10599	Thioredoxin		338	0.447	0.885	0.20	0.02		1.00	2	0	2017	2018
VCAM1	7412	P19320	Vascular cell adhesion molecule 1		406	0.422	0.808	0.80	0.02		1.00	2	0	2007	2018
TRPV1	7442	Q8NER1	Transient receptor potential cation channel subfamily V member 1	Ion channel	404	0.446	0.885	0.00	0.02		1.00	2	0	2017	2017
CACNA1A	773	O00555	Calcium voltage-gated channel subunit α1 A	Ion channel	320	0.489	0.769	1.00	0.02		1.00	2	0	2018	2018
CXCR4	7852	P61073	C-X-C motif chemokine receptor 4	G-protein coupled receptor	739	0.362	0.923	0.02	0.02		1.00	2	0	2018	2018
AIMP2	7965	Q13155	Aminoacyl trna synthetase complex interacting multifunctional protein 2		555	0.393	0.923	0.01	0.02		1.00	2	0	2018	2019
NEIL1	79661	Q96FI4	Nei like DNA glycosylase 1		59	0.623	0.769	0.00	0.02		1.00	2	0	2015	2019
NR4A3	8013	Q92570	Nuclear receptor subfamily 4 group A member 3	Nuclear receptor	186	0.502	0.808	0.91	0.02		1.00	2	1	2002	2018
PDGFD	80310	Q9GZP0	Platelet derived growth factor D	Signaling	94	0.579	0.538	0.00	0.02		1.00	2	1	2008	2016
COASY	80347	Q13057	Coenzyme A synthase	Enzyme	125	0.551	0.654	0.00	0.02		1.00	2	0	2017	2017
COL18A1	80781	P39060	Collagen type XVIII α 1 chain		323	0.449	0.808	0.00	0.02		1.00	2	0	2017	2020
PLA2G6	8398	O60733	Phospholipase A2 group VI	Enzyme modulator	350	0.476	0.846	0.00	0.02		1.00	2	0	2003	2014
ULK1	8408	O75385	Unc-51 like autophagy activating kinase 1	Kinase	99	0.564	0.769	0.99	0.02		1.00	2	0	2016	2018
TSLP	85480	Q969D9	Thymic stromal lymphopoietin		220	0.486	0.808	0.00	0.02		1.00	2	0	2018	2019
BECN1	8678	Q14457	Beclin 1	Enzyme modulator	373	0.432	0.846	0.94	0.02		1.00	2	0	2017	2017
RIPK1	8737	Q13546	Receptor interacting serine/threonine kinase 1	Kinase	250	0.479	0.769	0.01	0.02		1.00	2	0	2019	2019
TNFSF12	8742	O43508	TNF superfamily member 12		123	0.556	0.769	0.77	0.02		1.00	2	0	2008	2010
HSPB3	8988	Q12988	Heat shock protein family B (small) member 3		327	0.448	0.769	0.00	0.02		1.00	2	0	2017	2020
MCU	90550	Q8NE86	Mitochondrial calcium uniporter	Ion channel	45	0.67	0.577	0.83	0.02		1.00	2	0	2018	2018
TIMD4	91937	Q96H15	T cell immunoglobulin and mucin domain containing 4		49	0.644	0.654	0.00	0.02		1.00	2	1	2018	2018
SLC33A1	9197	O00400	Solute carrier family 33 member 1	Transporter	170	0.529	0.769	0.00	0.02		1.00	2	0	2004	2017
CD14	929	P08571	CD14 molecule		551	0.392	0.885	0.00	0.02		1.00	2	1	2006	2017
COX5A	9377	P20674	Cytochrome c oxidase subunit 5A	Enzyme	171	0.515	0.846	0.49	0.02		1.00	2	0	2016	2019
GRAP2	9402	O75791	GRB2 related adaptor protein 2		538	0.394	0.923	0.00	0.02		1.00	2	0	2018	2019
ABCG2	9429	Q9UNQ0	ATP binding cassette subfamily G member 2 (Junior blood group)	Transporter	420	0.419	0.885	0.00	0.02		1.00	2	1	2009	2018
GSTO1	9446	P78417	Glutathione S-transferase omega 1		136	0.541	0.769	0.00	0.02		0.50	2	0	2009	2019
AIM2	9447	O14862	Absent in melanoma 2		167	0.521	0.769	0.00	0.02		1.00	2	0	2019	2020
EIF2AK3	9451	Q9NZJ5	Eukaryotic translation initiation factor 2 α kinase 3	Kinase	231	0.501	0.808	0.00	0.02		1.00	2	0	2017	2020
CARTPT	9607	Q16568	CART prepropeptide		115	0.576	0.692	0.09	0.02		1.00	2	0	2009	2018
ABCG1	9619	P45844	ATP binding cassette subfamily G member 1	Transporter	118	0.56	0.692	0.11	0.02		1.00	2	2	2015	2019
CD69	969	Q07108	CD69 molecule		206	0.488	0.923	0.03	0.02		1.00	2	0	2018	2019
SEMA3E	9723	O15041	Semaphorin 3E	Signaling	184	0.515	0.769	0.00	0.02		1.00	2	0	2018	2019
MAFB	9935	Q9Y5Q3	MAF bzip transcription factor B	Transcription factor	135	0.565	0.731	0.90	0.02		1.00	2	0	2015	2017
CDC42	998	P60953	Cell division cycle 42	Enzyme modulator	327	0.458	0.846	0.79	0.02		1.00	2	0	2013	2019
ZGLP1	100125288	P0C6A0	Zinc finger GATA like protein 1		186	0.512	0.808	0.39	0.01		1.00	1	0	2019	2019
MIR298	100126296		Microrna 298		20	0.729	0.346		0.01		1.00	1	0	2018	2018
MIR922	100126321		Microrna 922		8	0.821	0.231		0.01		1.00	1	0	2019	2019
KIR2DS2	100132285	P43631	Killer cell immunoglobulin like receptor, two Ig domains and short cytoplasmic tail 2		69	0.599	0.615		0.01		1.00	1	0	2019	2019
DEFB4B	100289462	O15263	Defensin β 4B		166	0.51	0.769	0.07	0.01		1.00	1	0	2012	2012

MIR1306	100302197		Microrna 1306		17	0.736	0.308		0.01		1.00	1	0	2019	2019
MIR1203	100302211		Microrna 1203		6	0.89	0.231		0.01		1.00	1	0	2017	2017
MIR664A	100302234		Microrna 664a		43	0.644	0.538		0.01		0.00	1	0	2019	2019
HOTTIP	100316868		HOXA distal transcript antisense RNA		90	0.575	0.654		0.01		1.00	1	0	2018	2018
MIR4437	100616213		Microrna 4437		1	1	0.077		0.01		1.00	1	0	2018	2018
MIR4669	100616236		Microrna 4669		3	0.89	0.154		0.01		1.00	1	1	2019	2019
MIR4656	100616465		Microrna 4656		8	0.821	0.231		0.01		1.00	1	0	2018	2018
NR1H3	10062	Q13133	Nuclear receptor subfamily 1 group H member 3	Nuclear receptor	102	0.566	0.692	0.90	0.01		1.00	1	1	2015	2015
EDIL3	10085	O43854	EGF like repeats and discoidin domains 3	Enzyme	104	0.564	0.769	0.00	0.01		1.00	1	0	2008	2008
PTCSC3	100886964		Papillary thyroid carcinoma susceptibility candidate 3		23	0.722	0.385		0.01		1.00	1	0	2016	2016
CDH13	1012	P55290	Cadherin 13		205	0.501	0.846	0.00	0.01		1.00	1	0	2017	2017
EBI3	10148	Q14213	Epstein-Barr virus induced 3	Signaling	233	0.474	0.808	0.11	0.01		1.00	1	0	2019	2019
EMSLR	101927746		E2F1 mrna stabilizing lncrna		30	0.695	0.5		0.01		1.00	1	0	2017	2017
LOC101929707	101929707		Uncharacterized LOC101929707		1	1	0.077		0.01		1.00	1	0	2018	2018
CDKN3	1033	Q16667	Cyclin dependent kinase inhibitor 3		150	0.514	0.769	0.00	0.01		1.00	1	0	2017	2017
IRF9	10379	Q00978	Interferon regulatory factor 9	Transcription factor	60	0.61	0.577	0.61	0.01		1.00	1	0	2014	2014
ERICD	104355217		E2F1-regulated inhibitor of cell death		36	0.691	0.654		0.01		1.00	1	0	2017	2017
ATG7	10533	O95352	Autophagy related 7	Enzyme	179	0.505	0.769	0.00	0.01		1.00	1	0	2017	2017
AGR2	10551	O95994	Anterior gradient 2, protein disulphide isomerase family member	Enzyme	108	0.556	0.692	0.00	0.01		1.00	1	0	2017	2017
GNLY	10578	P22749	Granulysin		88	0.584	0.692	0.00	0.01		1.00	1	0	2012	2012
SORBS1	10580	Q9BX66	Sorbin and SH3 domain containing 1		124	0.554	0.769	0.00	0.01		1.00	1	1	2008	2008
CAMKK2	10645	Q96RR4	Calcium/calmodulin dependent protein kinase kinase 2	Kinase	62	0.617	0.654	0.09	0.01		1.00	1	1	2012	2012
CXCR6	10663	O00574	C-X-C motif chemokine receptor 6	G-protein coupled receptor	325	0.448	0.885	0.00	0.01		1.00	1	0	2015	2015
MASP2	10747	O00187	Mannan binding lectin serine peptidase 2	Enzyme	86	0.582	0.692	0.00	0.01		1.00	1	1	2018	2018
TRAF3IP2	10758	O43734	TRAF3 interacting protein 2		103	0.585	0.692	0.00	0.01		1.00	1	0	2018	2018
NES	10763	P48681	Nestin		302	0.45	0.808	0.00	0.01		1.00	1	0	2017	2017
PLK2	10769	Q9NYY3	Polo like kinase 2	Kinase	97	0.575	0.808	1.00	0.01		1.00	1	0	2018	2018
ALDH1L1	10840	O75891	Aldehyde dehydrogenase 1 family member L1	Enzyme	49	0.663	0.615	0.00	0.01		1.00	1	1	2014	2014
LILRB1	10859	Q8NHL6	Leukocyte immunoglobulin like receptor B1	Receptor	168	0.51	0.769	0.00	0.01		1.00	1	0	2018	2018
RNPS1	10921	Q15287	RNA binding protein with serine rich domain 1	Nucleic acid binding	23	0.722	0.5	0.98	0.01		1.00	1	0	2020	2020
FASTK	10922	Q14296	Fas activated serine/threonine kinase	Kinase	65	0.617	0.615	0.00	0.01		1.00	1	0	2017	2017
PDIA5	10954	Q14554	Protein disulfide isomerase family A member 5		15	0.805	0.346	0.00	0.01		1.00	1	1	2017	2017
STIP1	10963	P31948	Stress induced phosphoprotein 1		85	0.578	0.692	1.00	0.01		1.00	1	0	2017	2017
COPS5	10987	Q92905	COP9 signalosome subunit 5	Enzyme	101	0.566	0.769	1.00	0.01		1.00	1	0	2017	2017
RIPK3	11035	Q9Y572	Receptor interacting serine/threonine kinase 3	Kinase	196	0.497	0.885	0.00	0.01		1.00	1	0	2019	2019
LOC110673971	110673971		CYP11B2 promoter		5	0.89	0.269		0.01		1.00	1	0	2010	2010
DUSP14	11072	O95147	Dual specificity phosphatase 14		13	0.78	0.308	0.12	0.01		1.00	1	0	2019	2019
CAPN10	11132	Q9HC96	Calpain 10	Enzyme	58	0.621	0.577	0.00	0.01		1.00	1	0	2017	2017
CHIT1	1118	Q13231	Chitinase 1		142	0.525	0.692	0.00	0.01		1.00	1	0	2007	2007
TREX1	11277	Q9NSU2	Three prime repair exonuclease 1		241	0.517	0.808	0.58	0.01		1.00	1	0	2018	2018
PARK7	11315	Q99497	Parkinsonism associated deglycase	Enzyme	161	0.535	0.808	0.75	0.01		1.00	1	0	2017	2017
VSIG4	11326	Q9Y279	V-set and immunoglobulin domain containing 4		51	0.628	0.615	0.00	0.01		1.00	1	0	2020	2020
ACOT7	11332	O00154	Acyl-coa thioesterase 7	Enzyme	146	0.531	0.769	0.76	0.01		1.00	1	0	2010	2010
MGLL	11343	Q99685	Monoglyceride lipase	Enzyme	125	0.564	0.731	0.02	0.01		1.00	1	0	2018	2018
CHRNA4	1137	P43681	Cholinergic receptor nicotinic α 4 subunit	Ion channel	248	0.492	0.808	0.00	0.01		1.00	1	0	2018	2018
TRIM9	114088	Q9C026	Tripartite motif containing 9		24	0.705	0.5	1.00	0.01		1.00	1	0	2019	2019
CIRBP	1153	Q14011	Cold inducible RNA binding protein	Nucleic acid binding	72	0.592	0.731	0.34	0.01		1.00	1	0	2014	2014
H3P7	115482683		H3 histone pseudogene 7		28	0.686	0.538		0.01		1.00	1	0	2017	2017
ADCYAP1	116	P18509	Adenylate cyclase activating polypeptide 1	Signaling	220	0.51	0.846	0.52	0.01		1.00	1	0	2018	2018
LRG1	116844	P02750	Leucine rich α-2-glycoprotein 1		109	0.564	0.731	0.10	0.01		1.00	1	0	2019	2019
CYP2R1	120227	Q6VVX0	Cytochrome P450 family 2 subfamily R member 1		139	0.563	0.731	0.00	0.01		1.00	1	1	2018	2018
ACOT4	122970	Q8N9L9	Acyl-coa thioesterase 4		1	1	0.077	0.00	0.01		1.00	1	1	2015	2015
CCR5	1234	P51681	C-C motif chemokine receptor 5 (gene/pseudogene)	G-protein coupled receptor	508	0.398	0.885	0.00	0.01		1.00	1	0	2009	2009
FOPNL	123811	Q96NB1	FGFR1OP N-terminal like		15	0.76	0.462	0.00	0.01		1.00	1	0	2019	2019
TAF8	129685	Q7Z7C8	TATA-box binding protein associated factor 8		18	0.751	0.423	0.00	0.01		1.00	1	0	2018	2018
UBR3	130507	Q6ZT12	Ubiquitin protein ligase E3 component n-recognin 3		3	0.89	0.115	1.00	0.01		1.00	1	1	2010	2010
COMT	1312	P21964	Catechol-O-methyltransferase	Enzyme	622	0.4	0.923	0.00	0.01		1.00	1	0	2014	2014
CRHR1	1394	P34998	Corticotropin releasing hormone receptor 1		183	0.517	0.769	0.00	0.01		1.00	1	0	2020	2020
CRMP1	1400	Q14194	Collapsin response mediator protein 1	Enzyme	148	0.525	0.808	0.99	0.01		1.00	1	0	2017	2017
DEFB104A	140596	Q8WTQ1	Defensin β 104A		43	0.638	0.692	0.09	0.01		1.00	1	0	2012	2012
TRPM6	140803	Q9BX84	Transient receptor potential cation channel subfamily M member 6	Kinase	48	0.656	0.538	0.00	0.01		1.00	1	1	2019	2019
SRXN1	140809	Q9BYN0	Sulfiredoxin 1		18	0.751	0.385	0.07	0.01		1.00	1	0	2017	2017
CRYZ	1429	Q08257	Crystallin ζ		145	0.524	0.731	0.00	0.01		1.00	1	0	2017	2017
CSF2	1437	P04141	Colony stimulating factor 2	Signaling	1028	0.33	0.962	0.83	0.01		1.00	1	0	2018	2018
TTC7B	145567	Q86TV6	Tetratricopeptide repeat domain 7B		7	0.861	0.154	1.00	0.01		1.00	1	0	2012	2012
ADRA1A	148	P35348	Adrenoceptor α 1A	G-protein coupled receptor	294	0.462	0.846	0.00	0.01		1.00	1	0	2015	2015
CILP2	148113	Q8IUL8	Cartilage intermediate layer protein 2		15	0.76	0.346	0.00	0.01		1.00	1	0	2011	2011
NKX2-5	1482	P52952	NK2 homeobox 5	Transcription factor	165	0.533	0.692	0.95	0.01		1.00	1	0	2019	2019
HJV	148738	Q6ZVN8	Hemojuvelin BMP co-receptor		71	0.621	0.654	0.00	0.01		1.00	1	0	2019	2019
CTNNB1	1499	P35222	Catenin β 1		1368	0.303	0.885	1.00	0.01		1.00	1	0	2019	2019
ADRA2A	150	P08913	Adrenoceptor α 2A	G-protein coupled receptor	102	0.578	0.615	0.00	0.01		0.00	1	0	2013	2013
ARL6IP6	151188	Q8N6S5	ADP ribosylation factor like gtpase 6 interacting protein 6		36	0.686	0.615	0.02	0.01		1.00	1	0	2015	2015

RMDN2	151393	Q96LZ7	Regulator of microtubule dynamics 2		137	0.531	0.769	0.00	0.01		1.00	1	0	2017	2017
ADRA2C	152	P18825	Adrenoceptor α 2C	G-protein coupled receptor	40	0.682	0.346	0.50	0.01		0.00	1	0	2013	2013
ADRB1	153	P08588	Adrenoceptor β 1	G-protein coupled receptor	130	0.555	0.769	0.00	0.01		1.00	1	1	2015	2015
C5orf38	153571	Q86SI9	Chromosome 5 open reading frame 38		1	1	0.077	0.00	0.01		1.00	1	0	2019	2019
CYP2B7P	1556		Cytochrome P450 family 2 subfamily B member 7, pseudogene		16	0.76	0.385		0.01		1.00	1	0	2014	2014
CYP2D6	1565	P10635	Cytochrome P450 family 2 subfamily D member 6		432	0.437	0.885	0.00	0.01		1.00	1	0	2018	2018
CYP2E1	1571	P05181	Cytochrome P450 family 2 subfamily E member 1		306	0.459	0.885	0.00	0.01		1.00	1	0	2017	2017
CYP24A1	1591	Q07973	Cytochrome P450 family 24 subfamily A member 1	Enzyme	171	0.518	0.692	0.00	0.01		1.00	1	1	2018	2018
DECR1	1666	Q16698	2,4-dienoyl-coa reductase 1	Enzyme	399	0.426	0.885	0.00	0.01		1.00	1	0	2017	2017
DEFB1	1672	P60022	Defensin β 1		177	0.509	0.808	0.41	0.01		1.00	1	0	2012	2012
DEFB4A	1673	O15263	Defensin β 4A		177	0.507	0.769	0.00	0.01		1.00	1	0	2012	2012
DLD	1738	P09622	Dihydrolipoamide dehydrogenase	Enzyme	190	0.517	0.769	0.01	0.01		1.00	1	0	2016	2016
DLG2	1740	Q15700	Discs large MAGUK scaffold protein 2	Receptor	44	0.67	0.577	0.71	0.01		1.00	1	0	2019	2019
DVL1	1855	O14640	Dishevelled segment polarity protein 1	Signaling	181	0.531	0.769	0.00	0.01		1.00	1	0	2001	2001
EDN2	1907	P20800	Endothelin 2	Signaling	32	0.716	0.462	0.06	0.01		1.00	1	0	2018	2018
EDN3	1908	P14138	Endothelin 3	Signaling	107	0.608	0.577	0.02	0.01		1.00	1	0	2018	2018
EEF1A1	1915	P68104	Eukaryotic translation elongation factor 1 α 1	Enzyme	88	0.584	0.654	0.98	0.01		1.00	1	0	2018	2018
EFNB2	1948	P52799	Ephrin B2	Signaling	109	0.561	0.692	0.99	0.01		1.00	1	0	2019	2019
CELSR2	1952	Q9HCU4	Cadherin EGF LAG seven-pass G-type receptor 2	G-protein coupled receptor	63	0.656	0.577	1.00	0.01		1.00	1	1	2015	2015
EGR2	1959	P11161	Early growth response 2	Nucleic acid binding	133	0.547	0.769	0.50	0.01		1.00	1	0	2018	2018
EGR4	1961	Q05215	Early growth response 4	Nucleic acid binding	17	0.751	0.538	0.01	0.01		1.00	1	0	2018	2018
RMST	196475		Rhabdomyosarcoma 2 associated transcript		19	0.769	0.385		0.01		1.00	1	0	2018	2018
A2M	2	P01023	A-2-macroglobulin	Enzyme modulator	147	0.529	0.769	0.00	0.01		1.00	1	0	2007	2007
ELK1	2002	P19419	ETS transcription factor ELK1	Transcription factor	114	0.537	0.692	0.94	0.01		1.00	1	0	2019	2019
EPAS1	2034	Q99814	Endothelial PAS domain protein 1	Transcription factor	293	0.454	0.731	0.60	0.01		1.00	1	0	2017	2017
ERCC4	2072	Q92889	ERCC excision repair 4, endonuclease catalytic subunit	Enzyme	325	0.468	0.846	0.00	0.01		1.00	1	1	2016	2016
ETS1	2113	P14921	ETS proto-oncogene 1, transcription factor	Transcription factor	327	0.444	0.731	0.78	0.01		1.00	1	0	2018	2018
ETV3	2117	P41162	ETS variant transcription factor 3	Transcription factor	36	0.67	0.577	0.98	0.01		1.00	1	0	2019	2019
ABCD1	215	P33897	ATP binding cassette subfamily D member 1	Transporter	154	0.563	0.731	1.00	0.01		1.00	1	0	2019	2019
F7	2155	P08709	Coagulation factor VII	Enzyme	99	0.623	0.615	0.00	0.01		1.00	1	0	2010	2010
F8	2157	P00451	Coagulation factor VIII	Enzyme	149	0.542	0.769	1.00	0.01		1.00	1	0	2008	2008
F9	2158	P00740	Coagulation factor IX	Enzyme	276	0.465	0.885	1.00	0.01		0.00	1	0	2017	2017
FBLN1	2192	P23142	Fibulin 1		83	0.587	0.654	0.92	0.01		1.00	1	0	2019	2019
FCGR3A	2214	P08637	Fc fragment of igg receptor iiia	Cell adhesion	352	0.432	0.962	0.00	0.01		1.00	1	0	2018	2018
FCGR3B	2215	O75015	Fc fragment of igg receptor iiib	Cell adhesion	291	0.452	0.962	0.00	0.01		1.00	1	0	2018	2018
FCN1	2219	O00602	Ficolin 1	Signaling	43	0.647	0.577	0.00	0.01		1.00	1	0	2017	2017
FGF1	2246	P05230	Fibroblast growth factor 1	Signaling	184	0.507	0.846	0.44	0.01		1.00	1	0	2017	2017
FGF2	2247	P09038	Fibroblast growth factor 2	Signaling	635	0.383	0.923	0.02	0.01		1.00	1	0	2005	2005
ABCD2	225	Q9UBJ2	ATP binding cassette subfamily D member 2	Transporter	25	0.711	0.5	0.00	0.01		1.00	1	0	2018	2018
FGF13	2258	Q92913	Fibroblast growth factor 13	Signaling	167	0.514	0.808	0.89	0.01		1.00	1	0	2005	2005
VEGFD	2277	O43915	Vascular endothelial growth factor D	Signaling	132	0.538	0.769	0.00	0.01		1.00	1	0	2019	2019
MRAS	22808	O14807	Muscle RAS oncogene homolog	Enzyme modulator	113	0.59	0.731	0.92	0.01		1.00	1	3	2019	2019
VASH1	22846	Q7L8A9	Vasohibin 1		69	0.601	0.423	0.33	0.01		1.00	1	0	2015	2015
NTNG1	22854	Q9Y2I2	Netrin G1	Enzyme modulator	64	0.65	0.423	0.92	0.01		1.00	1	1	2013	2013
CARD8	22900	Q9Y2G2	Caspase recruitment domain family member 8		78	0.59	0.731	0.00	0.01		1.00	1	1	2014	2014
ATF6	22926	P18850	Activating transcription factor 6		179	0.516	0.846	0.00	0.01		1.00	1	0	2017	2017
FOXF2	2295	Q12947	Forkhead box F2		57	0.621	0.5	0.85	0.01		1.00	1	1	2016	2016
FAIM2	23017	Q9BWQ8	Fas apoptotic inhibitory molecule 2		48	0.663	0.5	0.00	0.01		1.00	1	0	2019	2019
FOXO3	2309	O43524	Forkhead box O3		381	0.431	0.808	0.99	0.01		1.00	1	0	2018	2018
MCF2L2	23101	Q86YR7	MCF.2 cell line derived transforming sequence-like 2	Signaling	60	0.628	0.577	0.00	0.01		1.00	1	0	2018	2018
FLG	2312	P20930	Filaggrin	Cellular structure	173	0.525	0.846	0.00	0.01		1.00	1	0	2017	2017
TBC1D9	23158	Q6ZT07	TBC1 domain family member 9	Enzyme	491	0.399	0.846	0.00	0.01		1.00	1	0	2012	2012
MLC1	23209	Q15049	Modulator of VRAC current 1	Ion channel	87	0.585	0.769	0.00	0.01		1.00	1	0	2018	2018
ARC	23237	Q7LC44	Activity regulated cytoskeleton associated protein		101	0.573	0.769	0.59	0.01		1.00	1	0	2018	2018
CLEC16A	23274	Q2KHT3	C-type lectin domain containing 16A		67	0.612	0.654	0.28	0.01		1.00	1	1	2010	2010
FMO3	2328	P31513	Flavin containing dimethylaniline monoxygenase 3	Enzyme	51	0.638	0.5	0.00	0.01		1.00	1	2	2013	2013
CRTC1	23373	Q6UUV9	CREB regulated transcription coactivator 1	Transcription factor	115	0.565	0.692	0.53	0.01		1.00	1	0	2010	2010
NCS1	23413	P62166	Neuronal calcium sensor 1		48	0.656	0.615	0.66	0.01		1.00	1	0	2017	2017
TRS-AGA2-3	23437		Trna-Ser (anticodon AGA) 2-3		21	0.743	0.385		0.01		1.00	1	0	2017	2017
FOLH1	2346	Q04609	Folate hydrolase 1	Enzyme	311	0.453	0.885	0.00	0.01		1.00	1	0	2016	2016
SPIDR	23514	Q14159	Scaffold protein involved in DNA repair		37	0.7	0.538	0.00	0.01		1.00	1	0	2015	2015
FOS	2353	P01100	Fos proto-oncogene, AP-1 transcription factor subunit	Transcription factor	528	0.411	0.885	0.26	0.01		1.00	1	0	2017	2017
MMD	23531	Q15546	Monocyte to macrophage differentiation associated	Receptor	58	0.647	0.577	0.00	0.01		1.00	1	0	2009	2009
MAPK8IP2	23542	Q13387	Mitogen-activated protein kinase 8 interacting protein 2	Signaling	51	0.628	0.654	1.00	0.01		1.00	1	0	2019	2019
PADI4	23569	Q9UM07	Peptidyl arginine deiminase 4		196	0.494	0.808	0.00	0.01		1.00	1	1	2013	2013
SMUG1	23583	Q53HV7	Single-strand-selective monofunctional uracil-DNA glycosylase 1		1034	0.322	0.923	0.00	0.01		1.00	1	0	2017	2017
DAPK2	23604	Q9UIK4	Death associated protein kinase 2	Kinase	130	0.536	0.692	0.00	0.01		1.00	1	0	2017	2017
PLA2G15	23659	Q8NCC3	Phospholipase A2 group XV	Enzyme	170	0.52	0.769	0.38	0.01		1.00	1	0	2018	2018
BCL2L13	23786	Q9BXK5	BCL2 like 13		18	0.78	0.308	0.00	0.01		1.00	1	0	2019	2019
ABCA4	24	P78363	ATP binding cassette subfamily A member 4	Transporter	227	0.493	0.769	0.00	0.01		1.00	1	0	2015	2015
PANX1	24145	Q96RD7	Pannexin 1	Ion channel	107	0.575	0.846	0.00	0.01		1.00	1	0	2018	2018
G6PD	2539	P11413	Glucose-6-phosphate dehydrogenase	Enzyme	410	0.424	0.846	0.97	0.01		0.00	1	0	2016	2016
PRDX5	25824	P30044	Peroxiredoxin 5		153	0.522	0.808	0.00	0.01		1.00	1	0	2019	2019
HECTD1	25831	Q9ULT8	HECT domain E3 ubiquitin protein ligase 1		14	0.751	0.385	1.00	0.01		1.00	1	0	2019	2019

GALNT2	2590	Q10471	Polypeptide N-acetylgalactosaminyltransferase 2	Enzyme	45	0.678	0.538	0.01	0.01		1.00	1	1	2010	2010
HSPA12A	259217	O43301	Heat shock protein family A (Hsp70) member 12A		41	0.67	0.346	0.98	0.01		1.00	1	0	2018	2018
FAM98A	25940	Q8NCA5	Family with sequence similarity 98 member A		10	0.805	0.231	0.55	0.01		1.00	1	0	2018	2018
GAP43	2596	P17677	Growth associated protein 43		109	0.564	0.731	0.02	0.01		1.00	1	0	2018	2018
IS1	260402		Adolescent idiopathic scoliosis		83	0.593	0.615		0.01		1.00	1	0	2019	2019
COPD	260431		Pulmonary disease, chronic obstructive, severe early-onset		349	0.456	0.885		0.01		1.00	1	0	2016	2016
GATA1	2623	P15976	GATA binding protein 1		264	0.483	0.808	0.95	0.01		1.00	1	0	2019	2019
GATA3	2625	P23771	GATA binding protein 3		429	0.415	0.846	0.90	0.01		1.00	1	0	2019	2019
GCH1	2643	P30793	GTP cyclohydrolase 1	Enzyme	254	0.511	0.846	0.90	0.01		1.00	1	1	2011	2011
GCKR	2646	Q14397	Glucokinase regulator		136	0.604	0.615	0.00	0.01		1.00	1	0	2010	2010
SLC17A5	26503	Q9NRA2	Solute carrier family 17 member 5	Transporter	252	0.491	0.808	0.00	0.01		1.00	1	0	2017	2017
NPAS4	266743	Q8IUM7	Neuronal PAS domain protein 4	Transcription factor	36	0.695	0.5	0.97	0.01		1.00	1	0	2015	2015
GEM	2669	P55040	GTP binding protein overexpressed in skeletal muscle		251	0.467	0.769	0.00	0.01		1.00	1	0	2019	2019
HAVCR1	26762	Q96D42	Hepatitis A virus cellular receptor 1		217	0.489	0.885	0.00	0.01		1.00	1	1	2018	2018
GGCX	2677	P38435	Γ-glutamyl carboxylase		56	0.678	0.538	0.00	0.01		1.00	1	0	2007	2007
GHRH	2691	P01286	Growth hormone releasing hormone	Signaling	176	0.503	0.769	0.15	0.01		1.00	1	0	2018	2018
GJA1	2697	P17302	Gap junction protein α 1	Cell-cell junction	662	0.393	0.885	0.16	0.01		1.00	1	0	2019	2019
NAAA	27163	Q02083	N-acylethanolamine acid amidase	Enzyme	90	0.579	0.692	0.00	0.01		0.00	1	0	2016	2016
IL17B	27190	Q9UHF5	Interleukin 17B		116	0.553	0.769	0.03	0.01		1.00	1	0	2009	2009
GCLC	2729	P48506	Glutamate-cysteine ligase catalytic subunit	Enzyme	198	0.509	0.885	0.43	0.01		1.00	1	0	2018	2018
STK39	27347	Q9UEW8	Serine/threonine kinase 39	Kinase	38	0.67	0.5	1.00	0.01		1.00	1	0	2017	2017
GLI2	2736	P10070	GLI family zinc finger 2		351	0.446	0.846	0.97	0.01		1.00	1	0	2018	2018
HTRA2	27429	O43464	Htra serine peptidase 2		151	0.542	0.692	0.00	0.01		0.00	1	0	2018	2018
GNAS	2778	O95467;P63092; P84996;Q5JWF2	GNAS complex locus	Enzyme modulator	536	0.42	0.885	0.68	0.01		1.00	1	0	2012	2012
GNB3	2784	P16520	G protein subunit β 3	Enzyme	192	0.518	0.808	0.00	0.01		0.00	1	1	2005	2005
GOT2	2806	P00505	Glutamic-oxaloacetic transaminase 2		148	0.529	0.731	0.01	0.01		1.00	1	0	2018	2018
GPI	2821	P06744	Glucose-6-phosphate isomerase	Enzyme	218	0.491	0.769	0.00	0.01		1.00	1	0	2018	2018
H19	283120		H19 imprinted maternally expressed transcript		242	0.494	0.923		0.01		1.00	1	3	2017	2017
ANGPT2	285	O15123	Angiopoietin 2	Signaling	457	0.41	0.846	0.83	0.01		1.00	1	0	2014	2014
SNHG15	285958		Small nucleolar RNA host gene 15		48	0.633	0.615		0.01		1.00	1	0	2018	2018
ANK1	286	P16157	Ankyrin 1		166	0.54	0.885	1.00	0.01		1.00	1	0	2019	2019
XKR6	286046	Q5GH73	XK related 6		25	0.729	0.538	1.00	0.01		1.00	1	1	2019	2019
GPR37	2861	O15354	G protein-coupled receptor 37	G-protein coupled receptor	23	0.716	0.385	0.00	0.01		1.00	1	0	2019	2019
GPR42	2866	O15529	G protein-coupled receptor 42 (gene/pseudogene)	G-protein coupled receptor	255	0.475	0.846	0.05	0.01		1.00	1	0	2015	2015
GPT	2875	P24298	Glutamic--pyruvic transaminase	Enzyme	511	0.403	0.923	0.00	0.01		1.00	1	0	2018	2018
GPX1	2876	P07203	Glutathione peroxidase 1	Enzyme	290	0.458	0.923	0.00	0.01		1.00	1	1	2017	2017
REM1	28954	O75628	RRAD and GEM like gtpase 1		177	0.531	0.885	0.00	0.01		1.00	1	0	2013	2013
GRN	2896	P28799	Granulin precursor		412	0.435	0.846	0.07	0.01		1.00	1	0	2020	2020
GRIK2	2898	Q13002	Glutamate ionotropic receptor kainate type subunit 2	Ion channel	130	0.561	0.769	1.00	0.01		1.00	1	0	2014	2014
ANPEP	290	P15144	Alanyl aminopeptidase, membrane	Enzyme	280	0.462	0.769	0.00	0.01		1.00	1	0	2017	2017
GRIN2B	2904	Q13224	Glutamate ionotropic receptor NMDA type subunit 2B	Ion channel	249	0.51	0.692	1.00	0.01		1.00	1	0	2018	2018
GRIN2C	2905	Q14957	Glutamate ionotropic receptor NMDA type subunit 2C	Ion channel	11	0.792	0.269	0.00	0.01		1.00	1	0	2018	2018
GRINA	2907	Q7Z429	Glutamate ionotropic receptor NMDA type subunit associated protein 1		15	0.76	0.346	0.44	0.01		1.00	1	0	2019	2019
SETD2	29072	Q9BYW2	SET domain containing 2, histone lysine methyltransferase	Epigenetic regulator	447	0.424	0.846	1.00	0.01		1.00	1	0	2019	2019
GRM1	2911	Q13255	Glutamate metabotropic receptor 1	G-protein coupled receptor	172	0.528	0.808	0.14	0.01		1.00	1	0	2019	2019
GRM2	2912	Q14416	Glutamate metabotropic receptor 2	G-protein coupled receptor	104	0.582	0.577	0.12	0.01		1.00	1	0	2005	2005
CXCL1	2919	P09341	C-X-C motif chemokine ligand 1	Signaling	315	0.449	0.923	0.12	0.01		1.00	1	1	2013	2013
GSTM1	2944	P09488	Glutathione S-transferase μ 1		627	0.38	0.923	0.00	0.01		1.00	1	0	2010	2010
GSTT1	2952	P30711	Glutathione S-transferase θ 1		541	0.393	0.923	0.00	0.01		1.00	1	0	2010	2010
UBQLN1	29979	Q9UMX0	Ubiquilin 1		49	0.65	0.423	1.00	0.01		0.00	1	0	2017	2017
NOP53	29997	Q9NZM5	NOP53 ribosome biogenesis factor		69	0.597	0.577	0.18	0.01		1.00	1	0	2017	2017
ANXA1	301	P04083	Annexin A1		336	0.442	0.885	0.00	0.01		1.00	1	0	2018	2018
HADHA	3030	P40939	Hydroxyacyl-coa dehydrogenase trifunctional multienzyme complex subunit α	Enzyme	154	0.569	0.769	0.00	0.01		1.00	1	0	2018	2018
HCRT	3060	O43612	Hypocretin neuropeptide precursor		237	0.5	0.808	0.03	0.01		1.00	1	0	2017	2017
HDLBP	3069	Q00341	High density lipoprotein binding protein		58	0.636	0.731	1.00	0.01		1.00	1	0	2019	2019
HK2	3099	P52789	Hexokinase 2	Kinase	152	0.515	0.769	0.00	0.01		1.00	1	0	2017	2017
ACACA	31	Q13085	Acetyl-coa carboxylase α		241	0.48	0.846	1.00	0.01		1.00	1	0	2019	2019
HLA-B	3106	P01889	Major histocompatibility complex, class I, B		706	0.379	0.885	0.00	0.01		1.00	1	0	2019	2019
HLA-C	3107	P10321	Major histocompatibility complex, class I, C		435	0.415	0.846	0.00	0.01		0.00	1	0	2017	2017
HLA-DQB1	3119	P01920	Major histocompatibility complex, class II, DQ β 1	Immune response	504	0.407	0.885	0.01	0.01		1.00	1	0	2019	2019
HLA-G	3135	P17693	Major histocompatibility complex, class I, G		279	0.461	0.769	0.00	0.01		1.00	1	0	2020	2020
AOC2	314	O75106	Amine oxidase copper containing 2		37	0.674	0.654	0.00	0.01		1.00	1	0	2017	2017
NR4A1	3164	P22736	Nuclear receptor subfamily 4 group A member 1	Nuclear receptor	216	0.49	0.731	0.37	0.01		1.00	1	0	2019	2019
HP	3240	P00738	Haptoglobin	Enzyme	464	0.412	0.885	0.00	0.01		1.00	1	0	2017	2017
MMAB	326625	Q96EY8	Metabolism of cobalamin associated B	Enzyme	46	0.695	0.538	0.00	0.01		1.00	1	1	2017	2017
SERPINA9	327657	Q86WD7	Serpin family A member 9	Enzyme modulator	14	0.769	0.231	0.00	0.01		1.00	1	0	2008	2008
HES1	3280	Q14469	Hes family bhlh transcription factor 1	Transcription factor	243	0.468	0.885	0.71	0.01		1.00	1	0	2020	2020
BIRC5	332	O15392	Baculoviral IAP repeat containing 5	Enzyme modulator	199	0.495	0.731	0.06	0.01		1.00	1	0	2014	2014
HSPG2	3339	P98160	Heparan sulfate proteoglycan 2	Enzyme modulator	405	0.438	0.885	0.00	0.01		1.00	1	0	2019	2019
HTR1A	3350	P08908	5-hydroxytryptamine receptor 1A	G-protein coupled receptor	229	0.522	0.846	0.20	0.01		1.00	1	0	2020	2020
HTR2A	3356	P28223	5-hydroxytryptamine receptor 2A	G-protein coupled receptor	289	0.473	0.846	0.51	0.01		1.00	1	1	2006	2006

FFAR4	338557	Q5NUL3	Free fatty acid receptor 4		67	0.621	0.577	0.00	0.01		1.00	1	0	2019	2019
C1QTNF9	338872	P0C862	C1q and TNF related 9		30	0.695	0.385	0.00	0.01		1.00	1	0	2019	2019
ID2	3398	Q02363	Inhibitor of DNA binding 2	Transcription factor	92	0.572	0.731	0.67	0.01		1.00	1	0	2020	2020
IFIT3	3437	O14879	Interferon induced protein with tetratricopeptide repeats 3		51	0.628	0.731	0.12	0.01		1.00	1	0	2017	2017
ACTBL2	345651	Q562R1	Actin β like 2		134	0.539	0.769	0.00	0.01		1.00	1	0	2010	2010
APOD	347	P05090	Apolipoprotein D		89	0.584	0.577	0.00	0.01		1.00	1	1	2014	2014
MAGEB5	347541	Q9BZ81	MAGE family member B5		2	0.931	0.115		0.01		1.00	1	0	2016	2016
IGF1R	3480	P08069	Insulin like growth factor 1 receptor	Kinase	556	0.399	0.885	0.97	0.01		1.00	1	1	2008	2008
IGFBP3	3486	P17936	Insulin like growth factor binding protein 3	Enzyme modulator	350	0.439	0.808	0.91	0.01		1.00	1	0	2017	2017
IKBKB	3551	O14920	Inhibitor of nuclear factor κ B kinase subunit β	Kinase	191	0.506	0.846	0.99	0.01		1.00	1	0	2017	2017
IL2	3558	P60568	Interleukin 2		950	0.336	0.885	0.48	0.01		1.00	1	0	2018	2018
IL4R	3566	P24394	Interleukin 4 receptor	Receptor	242	0.474	0.846	0.00	0.01		1.00	1	0	2018	2018
IL5	3567	P05113	Interleukin 5		359	0.437	0.846	0.01	0.01		1.00	1	0	2016	2016
IL7R	3575	P16871	Interleukin 7 receptor	Receptor	231	0.487	0.769	0.00	0.01		1.00	1	0	2019	2019
AQP1	358	P29972	Aquaporin 1 (Colton blood group)	Ion channel	268	0.467	0.885	0.00	0.01		1.00	1	0	2017	2017
IL10RA	3587	Q13651	Interleukin 10 receptor subunit α	Receptor	90	0.579	0.692	0.02	0.01		1.00	1	0	2013	2013
IL10RB	3588	Q08334	Interleukin 10 receptor subunit β	Receptor	50	0.636	0.577	0.00	0.01		1.00	1	2	2013	2013
IL16	3603	Q14005	Interleukin 16	Signaling	193	0.501	0.846	0.00	0.01		1.00	1	0	2013	2013
TNFRSF9	3604	Q07011	TNF receptor superfamily member 9		177	0.502	0.769	0.32	0.01		1.00	1	2	2017	2017
INSRR	3645	P14616	Insulin receptor related receptor	Kinase	186	0.508	0.808	0.00	0.01		1.00	1	0	2018	2018
IRAK1	3654	P51617	Interleukin 1 receptor associated kinase 1	Kinase	200	0.506	0.808	0.99	0.01		1.00	1	0	2017	2017
IRS1	3667	P35568	Insulin receptor substrate 1		233	0.488	0.769	0.02	0.01		1.00	1	0	2016	2016
ABCC6	368	O95255	ATP binding cassette subfamily C member 6	Transporter	181	0.54	0.654	0.00	0.01		1.00	1	1	2018	2018
ITGB2	3689	P05107	Integrin subunit β 2	Receptor	340	0.444	0.923	0.00	0.01		1.00	1	0	2016	2016
JAK3	3718	P52333	Janus kinase 3	Kinase	194	0.505	0.731	0.00	0.01		1.00	1	0	2017	2017
JUNB	3726	P17275	Junb proto-oncogene, AP-1 transcription factor subunit	Transcription factor	264	0.467	0.769	0.86	0.01		1.00	1	0	2017	2017
AREG	374	P15514	Amphiregulin	Signaling	221	0.487	0.769	0.35	0.01		1.00	1	0	2019	2019
PEAR1	375033	Q5VY43	Platelet endothelial aggregation receptor 1		27	0.722	0.346	0.00	0.01		1.00	1	0	2016	2016
KDR	3791	P35968	Kinase insert domain receptor	Kinase	623	0.378	0.885	1.00	0.01		1.00	1	1	1999	1999
KIR2DS1	3806	Q14954	Killer cell immunoglobulin like receptor, two Ig domains and short cytoplasmic tail 1	Receptor	123	0.537	0.769		0.01		1.00	1	0	2019	2019
KIR3DL1	3811	P43629	Killer cell immunoglobulin like receptor, three Ig domains and long cytoplasmic tail 1	Receptor	231	0.475	0.769	0.00	0.01		1.00	1	0	2019	2019
KIR3DL2	3812	P43630	Killer cell immunoglobulin like receptor, three Ig domains and long cytoplasmic tail 2	Receptor	118	0.543	0.769	0.00	0.01		1.00	1	0	2019	2019
KRT18	3875	P05783	Keratin 18		151	0.53	0.692	0.73	0.01		1.00	1	0	2019	2019
C11orf96	387763	Q7Z7L8	Chromosome 11 open reading frame 96		3	0.89	0.154	0.01	0.01		1.00	1	0	2017	2017
TSPYL6	388951	Q8N831	TSPY like 6		4	0.89	0.154		0.01		1.00	1	1	2017	2017
LAD1	3898	O00515	Ladinin 1	Cellular structure	87	0.584	0.731	0.00	0.01		1.00	1	0	2016	2016
LAMA5	3911	O15230	Laminin subunit α 5	Enzyme modulator	56	0.636	0.577	0.01	0.01		1.00	1	0	2019	2019
LAMC2	3918	Q13753	Laminin subunit γ 2	Enzyme modulator	602	0.389	0.923	0.00	0.01		1.00	1	0	2018	2018
LAMP2	3920	P13473	Lysosomal associated membrane protein 2	Transporter	134	0.552	0.731	0.27	0.01		1.00	1	0	2019	2019
RPSA	3921	P08865	Ribosomal protein SA	Nucleic acid binding	221	0.485	0.769	0.93	0.01		1.00	1	0	2014	2014
LCP1	3936	P13796	Lymphocyte cytosolic protein 1	Cellular structure	44	0.663	0.654	0.55	0.01		1.00	1	0	2020	2020
LEPR	3953	P48357	Leptin receptor	Signaling	416	0.433	0.808	0.99	0.01		1.00	1	3	2015	2015
LGALS9	3965	O00182	Galectin 9	Signaling	197	0.496	0.769	0.00	0.01		1.00	1	0	2017	2017
LIG4	3981	P49917	DNA ligase 4		293	0.478	0.846	0.00	0.01		1.00	1	0	2018	2018
LIMK1	3984	P53667	LIM domain kinase 1	Kinase	271	0.488	0.731	1.00	0.01		1.00	1	0	2017	2017
LOXL1	4016	Q08397	Lysyl oxidase like 1		93	0.59	0.615	0.89	0.01		1.00	1	0	2011	2011
LRP1	4035	Q07954	LDL receptor related protein 1		252	0.482	0.769	1.00	0.01		1.00	1	0	2015	2015
LRP6	4040	O75581	LDL receptor related protein 6		134	0.536	0.808	0.70	0.01		1.00	1	0	2015	2015
LINC01194	404663		Long intergenic non-protein coding RNA 1194		249	0.47	0.769		0.01		1.00	1	0	2018	2018
CIMT	404677		Carotid intimal medial thickness		29	0.695	0.462		0.01		1.00	1	0	2018	2018
MIRLET7B	406884		Microrna let-7b		186	0.493	0.769		0.01		1.00	1	0	2013	2013
MIRLET7E	406887		Microrna let-7e		72	0.592	0.769		0.01		1.00	1	1	2016	2016
MIRLET7I	406891		Microrna let-7i		86	0.575	0.615		0.01		1.00	1	1	2017	2017
MIR106A	406899		Microrna 106a		140	0.524	0.846		0.01		1.00	1	0	2015	2015
MIR125B2	406912		Microrna 125b-2		38	0.659	0.423		0.01		1.00	1	0	2017	2017
MIR129-2	406918		Microrna 129-2		43	0.653	0.654		0.01		1.00	1	0	2019	2019
MIR130B	406920		Microrna 130b		115	0.547	0.808		0.01		1.00	1	0	2016	2016
MIR140	406932		Microrna 140		144	0.522	0.769		0.01		1.00	1	0	2016	2016
MIR144	406936		Microrna 144		175	0.5	0.769		0.01		1.00	1	0	2016	2016
MIR152	406943		Microrna 152		136	0.521	0.769		0.01		1.00	1	0	2019	2019
MIR17	406952		Microrna 17		270	0.459	0.846		0.01		1.00	1	0	2019	2019
MIR185	406961		Microrna 185		106	0.551	0.808		0.01		1.00	1	0	2015	2015
MIR192	406967		Microrna 192		173	0.503	0.846		0.01		1.00	1	0	2019	2019
MIR195	406971		Microrna 195		180	0.496	0.769		0.01		1.00	1	0	2018	2018
MIR199B	406978		Microrna 199b		71	0.588	0.615		0.01		1.00	1	0	2019	2019
MIR200C	406985		Microrna 200c		202	0.486	0.846		0.01		1.00	1	0	2019	2019
MIR206	406989		Microrna 206		226	0.477	0.846		0.01		1.00	1	0	2019	2019
MIR212	406994		Microrna 212		126	0.535	0.808		0.01		1.00	1	0	2019	2019
MIR216A	406998		Microrna 216a		79	0.582	0.654		0.01		1.00	1	0	2018	2018
MIR219A1	407002		Microrna 219a-1		75	0.595	0.615		0.01		1.00	1	0	2015	2015
MIR22	407004		Microrna 22		195	0.496	0.808		0.01		1.00	1	0	2019	2019
MIR221	407006		Microrna 221		304	0.449	0.846		0.01		1.00	1	0	2017	2017
MIR30D	407033		Microrna 30d		97	0.563	0.654		0.01		1.00	1	0	2018	2018
MIR31	407035		Microrna 31		235	0.471	0.769		0.01		1.00	1	0	2020	2020

MIR34A	407040		Microrna 34a		428	0.421	0.846		0.01		1.00	1	3	2019	2019
MIR93	407050		Microrna 93		171	0.507	0.808		0.01		1.00	1	0	2019	2019
ARRB2	409	P32121	Arrestin β 2	Enzyme modulator	119	0.561	0.769	0.51	0.01		1.00	1	0	2019	2019
MAPT	4137	P10636	Microtubule associated protein tau		469	0.446	0.923	0.01	0.01		1.00	1	0	2019	2019
MBL2	4153	P11226	Mannose binding lectin 2	Receptor	563	0.39	0.846	0.00	0.01		1.00	1	0	2019	2019
MDK	4192	P21741	Midkine	Signaling	209	0.494	0.808	0.23	0.01		1.00	1	0	2018	2018
MDM2	4193	Q00987	MDM2 proto-oncogene	Nucleic acid binding	702	0.362	0.846	1.00	0.01		1.00	1	0	2018	2018
CIITA	4261	P33076	Class II major histocompatibility complex transactivator		149	0.536	0.808	0.00	0.01		1.00	1	0	2008	2008
NR3C2	4306	P08235	Nuclear receptor subfamily 3 group C member 2	Nuclear receptor	287	0.469	0.846	0.84	0.01		1.00	1	0	2011	2011
MOG	4340	Q16653	Myelin oligodendrocyte glycoprotein	Enzyme modulator	136	0.546	0.731	0.14	0.01		1.00	1	0	2018	2018
MRC1	4360	P22897	Mannose receptor C-type 1		431	0.413	0.846	0.94	0.01		1.00	1	0	2018	2018
MIAT	440823		Myocardial infarction associated transcript		84	0.573	0.692		0.01		1.00	1	0	2018	2018
POTEKP	440915	Q9BYX7	POTE ankyrin domain family member K, pseudogene		131	0.542	0.769		0.01		1.00	1	0	2010	2010
ZFAS1	441951		ZNFX1 antisense RNA 1		82	0.582	0.615		0.01		1.00	1	0	2019	2019
MIR326	442900		Microrna 326		95	0.56	0.731		0.01		1.00	1	0	2018	2018
MSD	4434		Microcephaly with spastic diplegia (Paine syndrome)		35	0.674	0.654		0.01		1.00	1	0	2019	2019
MSR1	4481	P21757	Macrophage scavenger receptor 1	Enzyme	108	0.553	0.654	0.00	0.01		1.00	1	0	2017	2017
PLF	450095		Pulmonary function		124	0.544	0.731		0.01		1.00	1	0	2019	2019
MTAP	4507	Q13126	Methylthioadenosine phosphorylase	Enzyme	167	0.514	0.731	0.00	0.01		1.00	1	1	2009	2009
CYTB	4519	P00156	Cytochrome b		166	0.529	0.808		0.01		0.00	1	0	2011	2011
MUSK	4593	O15146	Muscle associated receptor tyrosine kinase	Kinase	146	0.57	0.769	0.00	0.01		1.00	1	0	2014	2014
MMUT	4594	P22033	Methylmalonyl-coa mutase	Enzyme	147	0.534	0.731	0.00	0.01		1.00	1	0	2014	2014
MVK	4598	Q03426	Mevalonate kinase	Kinase	139	0.576	0.731	0.17	0.01		1.00	1	2	2017	2017
ATF3	467	P18847	Activating transcription factor 3	Transcription factor	228	0.494	0.885	0.09	0.01		1.00	1	0	2017	2017
ATF4	468	P18848	Activating transcription factor 4		178	0.507	0.769	0.02	0.01		1.00	1	0	2020	2020
NDUFC2	4718	O95298	NADH:ubiquinone oxidoreductase subunit C2	Enzyme	8	0.805	0.308	0.68	0.01		1.00	1	1	2016	2016
NFKB1	4790	P19838	Nuclear factor κ B subunit 1	Transcription factor	551	0.396	0.923	1.00	0.01		1.00	1	0	2018	2018
NM	4827		Neutrophil migration		250	0.473	0.808		0.01		1.00	1	0	2019	2019
NNMT	4837	P40261	Nicotinamide N-methyltransferase	Enzyme	103	0.559	0.654	0.00	0.01		1.00	1	0	2006	2006
NPC1	4864	O15118	NPC intracellular cholesterol transporter 1	Transporter	220	0.518	0.692	0.00	0.01		1.00	1	0	2019	2019
NPPB	4879	P16860	Natriuretic peptide B		193	0.513	0.808	0.00	0.01		1.00	1	0	2019	2019
NTF4	4909	P34130	Neurotrophin 4	Signaling	46	0.644	0.692	0.01	0.01		1.00	1	0	2019	2019
MIR422A	494334		Microrna 422a		38	0.653	0.538		0.01		1.00	1	0	2017	2017
MIR424	494336		Microrna 424		131	0.535	0.769		0.01		1.00	1	0	2018	2018
OATP1	4945		Ornithine aminotransferase pseudogene 1		3	0.89	0.154		0.01		1.00	1	0	2019	2019
OGG1	4968	O15527	8-oxoguanine DNA glycosylase		313	0.453	0.808	0.00	0.01		1.00	1	0	2015	2015
OPRK1	4986	P41145	Opioid receptor κ 1	G-protein coupled receptor	156	0.555	0.615	0.00	0.01		1.00	1	0	2019	2019
OPRM1	4988	P35372	Opioid receptor μ 1	G-protein coupled receptor	370	0.457	0.808	0.00	0.01		1.00	1	0	2019	2019
P2RX4	5025	Q99571	Purinergic receptor P2X 4	Ion channel	138	0.547	0.808	0.00	0.01		1.00	1	0	2017	2017
P2RX7	5027	Q99572	Purinergic receptor P2X 7	Ion channel	337	0.45	0.808	0.00	0.01		1.00	1	1	2012	2012
P2RY2	5029	P41231	Purinergic receptor P2Y2	G-protein coupled receptor	136	0.543	0.808	0.08	0.01		1.00	1	0	2019	2019
DEFB104B	503618	Q8WTQ1	Defensin β 104B		42	0.638	0.692	0.33	0.01		1.00	1	0	2012	2012
PAEP	5047	P09466	Progestagen associated endometrial protein	Enzyme	397	0.43	0.846	0.00	0.01		1.00	1	0	2019	2019
NOX4	50507	Q9NPH5	NADPH oxidase 4	Enzyme	260	0.471	0.885	0.00	0.01		1.00	1	2	2017	2017
SERPINB2	5055	P05120	Serpin family B member 2	Enzyme modulator	183	0.502	0.808	0.00	0.01		0.00	1	0	2020	2020
IL20	50604	Q9NYY1	Interleukin 20		111	0.556	0.769	0.00	0.01		1.00	1	0	2009	2009
PAPPA	5069	Q13219	Pappalysin 1		125	0.558	0.692	0.16	0.01		1.00	1	1	2014	2014
AK3	50808	Q9UIJ7	Adenylate kinase 3	Kinase	32	0.691	0.462	0.00	0.01		0.00	1	0	2017	2017
PC	5091	P11498	Pyruvate carboxylase	Enzyme	183	0.515	0.808	0.01	0.01		1.00	1	0	2013	2013
PDE11A	50940	Q9HCR9	Phosphodiesterase 11A		86	0.612	0.654	0.00	0.01		1.00	1	0	2016	2016
FOXP3	50943	Q9BZS1	Forkhead box P3		688	0.368	0.846	0.99	0.01		1.00	1	0	2018	2018
SERPINA5	5104	P05154	Serpin family A member 5	Enzyme modulator	185	0.507	0.808	0.00	0.01		1.00	1	0	2018	2018
GAL	51083	P22466	Galanin and GMAP prepropeptide		226	0.493	0.846	0.00	0.01		1.00	1	0	2017	2017
MLXIPL	51085	Q9NP71	MLX interacting protein like		165	0.554	0.731	0.05	0.01		1.00	1	1	2010	2010
RMDN1	51115	Q96DB5	Regulator of microtubule dynamics 1		123	0.546	0.769	0.00	0.01		1.00	1	0	2017	2017
IRAK4	51135	Q9NWZ3	Interleukin 1 receptor associated kinase 4	Kinase	90	0.578	0.769	0.00	0.01		1.00	1	0	2018	2018
PCSK1	5122	P29120	Proprotein convertase subtilisin/kexin type 1	Enzyme	140	0.548	0.615	0.00	0.01		1.00	1	0	2018	2018
MZB1	51237	Q8WU39	Marginal zone B and B1 cell specific protein		100	0.565	0.769	0.00	0.01		1.00	1	0	2018	2018
TLR7	51284	Q9NYK1	Toll like receptor 7		276	0.464	0.885	0.98	0.01		1.00	1	1	2016	2016
TLR8	51311	Q9NR97	Toll like receptor 8		122	0.543	0.769	0.32	0.01		1.00	1	1	2016	2016
SPTBN5	51332	Q9NRC6	Spectrin β, non-erythrocytic 5		5	0.861	0.192	0.00	0.01		1.00	1	1	2010	2010
MS4A4A	51338	Q96JQ5	Membrane spanning 4-domains A4A	Receptor	21	0.722	0.308	0.00	0.01		1.00	1	0	2019	2019
ZC3HC1	51530	Q86WB0	Zinc finger C3HC-type containing 1		23	0.76	0.308	0.00	0.01		1.00	1	1	2019	2019
PDGFRB	5159	P09619	Platelet derived growth factor receptor β	Kinase	492	0.416	0.846	0.90	0.01		1.00	1	0	2019	2019
PECAM1	5175	P16284	Platelet and endothelial cell adhesion molecule 1	Cell adhesion	396	0.426	0.846		0.01		1.00	1	2	2009	2009
RTEL1	51750	Q9NZ71	Regulator of telomere elongation helicase 1	Enzyme	321	0.459	0.808	0.00	0.01		1.00	1	0	2017	2017
STK26	51765	Q9P289	Serine/threonine kinase 26	Kinase	26	0.705	0.538	0.31	0.01		1.00	1	0	2020	2020
ASIC5	51802	Q9NY37	Acid sensing ion channel subunit family member 5	Ion channel	8	0.805	0.423	0.00	0.01		1.00	1	0	2011	2011
SERPINE2	5270	P07093	Serpin family E member 2	Enzyme modulator	87	0.592	0.692	0.73	0.01		1.00	1	0	2010	2010
SERPINI1	5274	Q99574	Serpin family I member 1	Enzyme modulator	58	0.631	0.462	0.03	0.01		1.00	1	0	2004	2004
PIK3R1	5295	P27986	Phosphoinositide-3-kinase regulatory subunit 1	Kinase	285	0.477	0.885	1.00	0.01		1.00	1	0	2020	2020
PITX2	5308	Q99697	Paired like homeodomain 2		248	0.489	0.808	0.98	0.01		1.00	1	0	2015	2015
PKM	5315	P14618	Pyruvate kinase M1/2	Kinase	237	0.482	0.808	0.85	0.01		1.00	1	0	2020	2020
PLIN1	5346	O60240	Perilipin 1		85	0.59	0.654	0.00	0.01		1.00	1	0	2008	2008

PLP1	5354	P60201	Proteolipid protein 1	Cellular structure	160	0.543	0.769	0.93	0.01		1.00	1	0	2019	2019
ACP5	54	P13686	Acid phosphatase 5, tartrate resistant		130	0.561	0.731	0.08	0.01		1.00	1	0	2019	2019
PNN	5411	Q9H307	Pinin, desmosome associated protein		55	0.638	0.577	0.11	0.01		1.00	1	0	2019	2019
NANS	54187	Q9NR45	N-acetylneuraminate synthase	Enzyme	153	0.545	0.692		0.01		1.00	1	0	2018	2018
POR	5447	P16435	Cytochrome p450 oxidoreductase		218	0.502	0.769	0.00	0.01		1.00	1	0	2019	2019
POU2F1	5451	P14859	POU class 2 homeobox 1		115	0.558	0.769	0.90	0.01		1.00	1	0	2019	2019
TOMM7	54543	Q9P0U1	Translocase of outer mitochondrial membrane 7		6	1	0.077	0.01	0.01		1.00	1	0	2019	2019
DLL4	54567	Q9NR61	Δ like canonical Notch ligand 4		219	0.494	0.769	1.00	0.01		1.00	1	0	2019	2019
EGLN1	54583	Q9GZT9	Egl-9 family hypoxia inducible factor 1		130	0.54	0.731	0.97	0.01		1.00	1	0	2019	2019
UGT1A1	54658	P22309	UDP glucuronosyltransferase family 1 member A1		302	0.464	0.769	0.00	0.01		1.00	1	0	2010	2010
PPBP	5473	P02775	Pro-platelet basic protein	Signaling	111	0.544	0.808	0.06	0.01		1.00	1	0	2017	2017
ROPN1	54763	Q9HAT0	Rhophilin associated tail protein 1		5	0.89	0.115	0.00	0.01		1.00	1	1	2010	2010
PPIA	5478	P62937	Peptidylprolyl isomerase A		180	0.51	0.769	0.56	0.01		1.00	1	0	2018	2018
TRPM7	54822	Q96QT4	Transient receptor potential cation channel subfamily M member 7	Ion channel	151	0.531	0.731	0.00	0.01		1.00	1	0	2009	2009
RASIP1	54922	Q5U651	Ras interacting protein 1		20	0.78	0.346	1.00	0.01		1.00	1	0	2014	2014
TMEM132A	54972	Q24JP5	Transmembrane protein 132A		15	0.792	0.308	0.00	0.01		1.00	1	0	2018	2018
ANO1	55107	Q5XXA6	Anoctamin 1	Ion channel	175	0.516	0.769	0.87	0.01		1.00	1	0	2019	2019
RMDN3	55177	Q96TC7	Regulator of microtubule dynamics 3		134	0.534	0.769	0.00	0.01		1.00	1	0	2017	2017
IMPACT	55364	Q9P2X3	Impact RWD domain protein		85	0.593	0.808	0.00	0.01		1.00	1	0	2019	2019
MIR449A	554213		Microrna 449a		89	0.57	0.731		0.01		1.00	1	0	2019	2019
PRH1	5554	P02810	Proline rich protein haeiii subfamily 1		41	0.659	0.5	0.01	0.01		1.00	1	0	2018	2018
PRH2	5555	P02810	Proline rich protein haeiii subfamily 2		38	0.663	0.5	0.01	0.01		1.00	1	0	2018	2018
KIF16B	55614	Q96L93	Kinesin family member 16B	Cellular structure	15	0.792	0.423	0.00	0.01		1.00	1	0	2009	2009
SYBU	55638	Q9NX95	Syntabulin	Transporter	120	0.546	0.769	0.00	0.01		1.00	1	0	2017	2017
PRKAR1A	5573	P10644	Protein kinase camp-dependent type I regulatory subunit α		597	0.401	0.846	1.00	0.01		1.00	1	0	2015	2015
VPS35	55737	Q96QK1	VPS35 retromer complex component	Transporter	66	0.656	0.5	0.97	0.01		1.00	1	0	2019	2019
PRKCA	5578	P17252	Protein kinase C α	Kinase	368	0.44	0.846	0.37	0.01		1.00	1	0	2019	2019
PRKCD	5580	Q05655	Protein kinase C δ	Kinase	287	0.48	0.846	1.00	0.01		1.00	1	0	2017	2017
RNF130	55819	Q86XS8	Ring finger protein 130		13	0.839	0.192	0.00	0.01		1.00	1	0	2018	2018
PRKD1	5587	Q15139	Protein kinase D1	Kinase	171	0.531	0.846	0.00	0.01		1.00	1	0	2020	2020
ACSS2	55902	Q9NR19	Acyl-coa synthetase short chain family member 2	Enzyme	188	0.506	0.808	0.00	0.01		1.00	1	0	2018	2018
APOM	55937	O95445	Apolipoprotein M		82	0.59	0.769	0.00	0.01		1.00	1	0	2011	2011
LRRC8A	56262	Q8IWT6	Leucine rich repeat containing 8 VRAC subunit A		64	0.644	0.692	0.94	0.01		1.00	1	0	2019	2019
MASP1	5648	P48740	Mannan binding lectin serine peptidase 1	Enzyme	123	0.565	0.885	0.00	0.01		1.00	1	0	2018	2018
MMP26	56547	Q9NRE1	Matrix metallopeptidase 26	Enzyme	58	0.65	0.615	0.00	0.01		1.00	1	0	2019	2019
B2M	567	P61769	B-2-microglobulin	Immune response	352	0.447	0.846	0.56	0.01		1.00	1	0	2019	2019
SPHK2	56848	Q9NRA0	Sphingosine kinase 2	Kinase	140	0.546	0.731	0.00	0.01		1.00	1	0	2017	2017
ANKS1B	56899	Q7Z6G8	Ankyrin repeat and sterile α motif domain containing 1B	Receptor	43	0.686	0.423	1.00	0.01		1.00	1	0	2017	2017
PSMB9	5698	P28065	Proteasome 20S subunit β 9		167	0.514	0.808	0.00	0.01		1.00	1	0	2018	2018
PDXP	57026	Q96GD0	Pyridoxal phosphatase	Enzyme	149	0.533	0.731	0.26	0.01		1.00	1	0	2019	2019
RTN4	57142	Q9NQC3	Reticulon 4		71	0.621	0.692	0.45	0.01		1.00	1	0	2011	2011
PTGDR	5729	Q13258	Prostaglandin D2 receptor	G-protein coupled receptor	45	0.65	0.615	0.00	0.01		1.00	1	0	2019	2019
PTGER2	5732	P43116	Prostaglandin E receptor 2	G-protein coupled receptor	79	0.597	0.731	0.01	0.01		1.00	1	0	2006	2006
MRS2	57380	Q9HD23	Magnesium transporter MRS2		11	0.792	0.269	0.00	0.01		0.00	1	0	2019	2019
PTGIR	5739	P43119	Prostaglandin I2 receptor	G-protein coupled receptor	27	0.711	0.423	0.00	0.01		1.00	1	0	2013	2013
MIR363	574031		Microrna 363		83	0.578	0.692		0.01		1.00	1	0	2017	2017
PTHLH	5744	P12272	Parathyroid hormone like hormone		321	0.453	0.846	0.81	0.01		1.00	1	0	2019	2019
MIR451A	574411		Microrna 451a		177	0.505	0.769		0.01		1.00	1	0	2019	2019
MIR410	574434		Microrna 410		87	0.575	0.692		0.01		1.00	1	0	2018	2018
MIR497	574456		Microrna 497		116	0.539	0.808		0.01		1.00	1	0	2019	2019
NDRG3	57446	Q9UGV2	NDRG family member 3	Enzyme	24	0.722	0.308	0.37	0.01		1.00	1	0	2017	2017
NDRG2	57447	Q9UN36	NDRG family member 2	Enzyme	156	0.518	0.692	0.00	0.01		1.00	1	0	2018	2018
MIR503	574506		Microrna 503		111	0.551	0.808		0.01		1.00	1	0	2019	2019
NLN	57486	Q9BYT8	Neurolysin	Enzyme	74	0.597	0.731	0.00	0.01		1.00	1	0	2020	2020
TAOK1	57551	Q7L7X3	TAO kinase 1	Kinase	19	0.792	0.269	1.00	0.01		1.00	1	0	2019	2019
SEMA6A	57556	Q9H2E6	Semaphorin 6A	Signaling	211	0.486	0.808	1.00	0.01		1.00	1	0	2020	2020
PTMA	5757	P06454	Prothymosin α		71	0.604	0.731	0.03	0.01		1.00	1	0	2017	2017
PTMAP4	5761		Prothymosin α pseudogene 4		49	0.638	0.731		0.01		1.00	1	0	2017	2017
RNF213	57674	Q63HN8	Ring finger protein 213		59	0.628	0.538	0.00	0.01		1.00	1	1	2019	2019
PRX	57716	Q9BXM0	Periaxin		75	0.65	0.577	0.00	0.01		1.00	1	0	2018	2018
HAMP	57817	P81172	Hepcidin antimicrobial peptide		377	0.433	0.846	0.01	0.01		1.00	1	0	2018	2018
BARD1	580	Q99728	BRCA1 associated RING domain 1		75	0.597	0.538	0.00	0.01		1.00	1	0	2001	2001
NLRC4	58484	Q9NPP4	NLR family CARD domain containing 4		145	0.556	0.769	0.00	0.01		1.00	1	0	2019	2019
IL21	59067	Q9HBE4	Interleukin 21		321	0.441	0.769	0.63	0.01		1.00	1	1	2014	2014
RAPSN	5913	Q13702	Receptor associated protein of the synapse		121	0.593	0.731	0.00	0.01		1.00	1	0	2014	2014
RARRES2	5919	Q99969	Retinoic acid receptor responder 2		180	0.519	0.731	0.00	0.01		1.00	1	0	2020	2020
TRPV4	59341	Q9HBA0	Transient receptor potential cation channel subfamily V member 4	Ion channel	422	0.457	0.808	0.00	0.01		1.00	1	0	2018	2018
RENBP	5973	P51606	Renin binding protein	Enzyme	156	0.528	0.769	0.45	0.01		1.00	1	0	2008	2008
ACTB	60	P60709	Actin β	Cellular structure	1110	0.325	0.923	0.99	0.01		1.00	1	1	2020	2020
RGS7	6000	P49802	Regulator of G protein signaling 7		28	0.722	0.462	0.78	0.01		1.00	1	0	2017	2017
RNASE3	6037	P12724	Ribonuclease A family member 3		207	0.49	0.808		0.01		1.00	1	0	2017	2017
PROK2	60675	Q9HC23	Prokineticin 2	Signaling	151	0.555	0.769	0.01	0.01		1.00	1	0	2018	2018
RPS20	6224	P60866	Ribosomal protein S20	Nucleic acid binding	86	0.61	0.692	0.02	0.01		0.00	1	0	2006	2006

RTN1	6252	Q16799	Reticulon 1		44	0.666	0.615	0.99	0.01		1.00	1	0	2011	2011
SORT1	6272	Q99523	Sortilin 1	Transporter	111	0.573	0.615	1.00	0.01		1.00	1	1	2015	2015
S100A9	6280	P06702	S100 calcium binding protein A9	Calcium-binding protein	363	0.433	0.885	0.48	0.01		1.00	1	0	2018	2018
S100A11	6282	P31949	S100 calcium binding protein A11	Calcium-binding protein	103	0.556	0.731	0.01	0.01		1.00	1	0	2018	2018
SAA1	6288	P0DJI8	Serum amyloid A1	Transporter	188	0.513	0.808	0.01	0.01		1.00	1	0	2017	2017
SAA2	6289	P0DJI9	Serum amyloid A2	Transporter	103	0.568	0.731	0.00	0.01		1.00	1	1	2017	2017
TSPAN31	6302	Q12999	Tetraspanin 31		112	0.556	0.654	0.22	0.01		1.00	1	0	2018	2018
CEACAM1	634	P13688	CEA cell adhesion molecule 1		167	0.525	0.731	0.00	0.01		1.00	1	0	2013	2013
BHMT	635	Q93088	Bine--homocysteine S-methyltransferase		71	0.595	0.731	0.00	0.01		1.00	1	0	2010	2010
CCL5	6352	P13501	C-C motif chemokine ligand 5	Signaling	514	0.403	0.885	0.00	0.01		1.00	1	1	2013	2013
CCL19	6363	Q99731	C-C motif chemokine ligand 19	Signaling	126	0.542	0.692	0.32	0.01		1.00	1	0	2017	2017
CCL23	6368	P55773	C-C motif chemokine ligand 23	Signaling	18	0.76	0.346	0.00	0.01		1.00	1	0	2018	2018
CX3CL1	6376	P78423	C-X3-C motif chemokine ligand 1	Signaling	243	0.478	0.808	0.61	0.01		1.00	1	0	2019	2019
SDC1	6382	P18827	Syndecan 1	Extracellular structure	323	0.445	0.769	0.01	0.01		1.00	1	0	2018	2018
SRR	63826	Q9GZT4	Serine racemase	Enzyme	58	0.617	0.692	0.01	0.01		1.00	1	0	2019	2019
NEUROG2	63973	Q9H2A3	Neurogenin 2	Enzyme	20	0.716	0.5	0.81	0.01		1.00	1	0	2018	2018
SELL	6402	P14151	Selectin L		171	0.505	0.846	0.00	0.01		1.00	1	1	2011	2011
CRLF2	64109	Q9HC73	Cytokine receptor like factor 2	Signaling	61	0.615	0.538	0.00	0.01		1.00	1	0	2018	2018
MOAP1	64112	Q96BY2	Modulator of apoptosis 1		24	0.7	0.577	0.00	0.01		1.00	1	0	2019	2019
POTEM	641455	A6NI47	POTE ankyrin domain family member M		133	0.541	0.769	0.00	0.01		1.00	1	0	2010	2010
MAP2K4	6416	P45985	Mitogen-activated protein kinase kinase 4	Kinase	100	0.559	0.692	1.00	0.01		1.00	1	1	2016	2016
SNHG6	641638		Small nucleolar RNA host gene 6		51	0.633	0.423		0.01		1.00	1	0	2019	2019
ABCG8	64241	Q9H221	ATP binding cassette subfamily G member 8	Transporter	116	0.573	0.538	0.00	0.01		1.00	1	1	2010	2010
ITSN1	6453	Q15811	Intersectin 1	Enzyme modulator	51	0.656	0.577	1.00	0.01		1.00	1	0	2020	2020
SHC1	6464	P29353	SHC adaptor protein 1	Signaling	80	0.597	0.538	0.00	0.01		1.00	1	0	2015	2015
GORASP1	64689	Q9BQQ3	Golgi reassembly stacking protein 1		369	0.428	0.846	0.02	0.01		1.00	1	0	2019	2019
SHH	6469	Q15465	Sonic hedgehog signaling molecule		303	0.461	0.846	0.98	0.01		1.00	1	0	2017	2017
SHMT1	6470	P34896	Serine hydroxymethyltransferase 1	Enzyme	106	0.566	0.654	0.00	0.01		1.00	1	0	2011	2011
SMURF2	64750	Q9HAU4	SMAD specific E3 ubiquitin protein ligase 2	Enzyme	59	0.623	0.615	0.87	0.01		1.00	1	0	2013	2013
NMNAT1	64802	Q9HAN9	Nicotinamide nucleotide adenylyltransferase 1	Enzyme	57	0.656	0.269	0.04	0.01		1.00	1	0	2019	2019
MARCHF7	64844	Q9H992	Membrane associated ring-CH-type finger 7		30	0.705	0.462	0.66	0.01		1.00	1	0	2017	2017
AGXT2	64902	Q9BYV1	Alanine--glyoxylate aminotransferase 2		25	0.729	0.385	0.00	0.01		1.00	1	1	2016	2016
PINK1	65018	Q9BXM7	PTEN induced kinase 1	Kinase	209	0.516	0.769	0.00	0.01		1.00	1	0	2013	2013
ACD	65057	Q96AP0	ACD shelterin complex subunit and telomerase recruitment factor		96	0.603	0.731	0.00	0.01		1.00	1	0	2011	2011
NBEAL1	65065	Q6ZS30	Neurobeachin like 1		60	0.638	0.692	0.00	0.01		0.00	1	0	2017	2017
MARCKSL1	65108	P49006	MARCKS like 1		169	0.508	0.731	0.01	0.01		1.00	1	0	2019	2019
WNK1	65125	Q9H4A3	WNK lysine deficient protein kinase 1	Kinase	460	0.416	0.846	1.00	0.01		1.00	1	0	2019	2019
WNK3	65267	Q9BYP7	WNK lysine deficient protein kinase 3	Kinase	13	0.751	0.346	1.00	0.01		1.00	1	0	2017	2017
SLC6A4	6532	P31645	Solute carrier family 6 member 4	Transporter	440	0.429	0.808	0.25	0.01		1.00	1	0	2019	2019
SLC6A11	6538	P48066	Solute carrier family 6 member 11	Transporter	21	0.716	0.462	0.00	0.01		1.00	1	0	2019	2019
SLC6A13	6540	Q9NSD5	Solute carrier family 6 member 13	Transporter	21	0.736	0.346	0.00	0.01		1.00	1	0	2019	2019
SLC12A3	6559	P55017	Solute carrier family 12 member 3	Transporter	252	0.493	0.808	0.00	0.01		1.00	1	0	2019	2019
SLC19A1	6573	P41440	Solute carrier family 19 member 1	Transporter	155	0.523	0.692	0.00	0.01		1.00	1	2	2015	2015
SLC20A2	6575	Q08357	Solute carrier family 20 member 2	Transporter	104	0.638	0.577	0.97	0.01		1.00	1	0	2018	2018
SLCO1A2	6579	P46721	Solute carrier organic anion transporter family member 1A2	Transporter	44	0.656	0.577	0.00	0.01		1.00	1	0	2019	2019
CYP4F12	66002	Q9HCS2	Cytochrome P450 family 4 subfamily F member 12	Enzyme	7	0.89	0.154	0.00	0.01		1.00	1	1	2017	2017
SMN1	6606	Q16637	Survival of motor neuron 1, telomeric	Epigenetic regulator	317	0.454	0.769	0.02	0.01		0.00	1	0	2001	2001
SMN2	6607	Q16637	Survival of motor neuron 2, centromeric		299	0.459	0.769	0.10	0.01		0.00	1	0	2001	2001
SNCA	6622	P37840	Synuclein α	Transporter	449	0.427	0.885	0.88	0.01		1.00	1	0	2020	2020
SNRNP70	6625	P08621	Small nuclear ribonucleoprotein U1 subunit 70	Nucleic acid binding	67	0.595	0.692	1.00	0.01		1.00	1	0	2019	2019
MIR544A	664613		Microrna 544a		28	0.695	0.423		0.01		1.00	1	0	2018	2018
MIR487B	664616		Microrna 487b		35	0.67	0.423		0.01		1.00	1	0	2015	2015
SOD2	6648	P04179	Superoxide dismutase 2	Enzyme	668	0.379	0.923	0.15	0.01		1.00	1	1	2017	2017
SOD3	6649	P08294	Superoxide dismutase 3	Enzyme	138	0.531	0.808	0.00	0.01		1.00	1	0	2019	2019
BNIP3L	665	O60238	BCL2 interacting protein 3 like		63	0.636	0.654	0.15	0.01		1.00	1	0	2017	2017
SOX2	6657	P48431	SRY-box transcription factor 2	Transcription factor	503	0.405	0.808	0.71	0.01		1.00	1	0	2018	2018
SREBF2	6721	Q12772	Sterol regulatory element binding transcription factor 2		112	0.566	0.577	0.21	0.01		1.00	1	1	2012	2012
SRF	6722	P11831	Serum response factor	Transcription factor	147	0.534	0.808	0.98	0.01		1.00	1	0	2014	2014
BRCA2	675	P51587	BRCA2 DNA repair associated	Nucleic acid binding	656	0.379	0.846	0.00	0.01		1.00	1	1	2017	2017
SSTR4	6754	P31391	Somatostatin receptor 4	G-protein coupled receptor	273	0.469	0.846	0.00	0.01		1.00	1	0	2015	2015
STAR	6770	P49675	Steroidogenic acute regulatory protein		177	0.513	0.808	0.00	0.01		1.00	1	0	2017	2017
STAT4	6775	Q14765	Signal transducer and activator of transcription 4	Nucleic acid binding	316	0.471	0.769	0.77	0.01		1.00	1	0	2020	2020
STAT5A	6776	P42229	Signal transducer and activator of transcription 5A	Nucleic acid binding	318	0.445	0.808	1.00	0.01		1.00	1	0	2019	2019
STAT5B	6777	P51692	Signal transducer and activator of transcription 5B	Nucleic acid binding	357	0.442	0.808	1.00	0.01		1.00	1	0	2019	2019
SCARNA6	677772		Small Cajal body-specific RNA 6		2	1	0.077		0.01		1.00	1	0	2019	2019
STIM1	6786	Q13586	Stromal interaction molecule 1		247	0.501	0.808	0.78	0.01		1.00	1	0	2017	2017
BRS3	680	P32247	Bombesin receptor subtype 3	G-protein coupled receptor	261	0.474	0.846	0.95	0.01		1.00	1	0	2015	2015
ABCC8	6833	Q09428	ATP binding cassette subfamily C member 8	Transporter	317	0.474	0.846	0.00	0.01		1.00	1	0	2007	2007
SYT1	6857	P21579	Synaptotagmin 1	Transporter	460	0.412	0.846	0.60	0.01		1.00	1	0	2019	2019
TAC1	6863	P20366	Tachykinin precursor 1		478	0.424	0.923	0.75	0.01		1.00	1	0	2017	2017
ADAM17	6868	P78536	ADAM metallopeptidase domain 17		316	0.453	0.808	1.00	0.01		0.00	1	2	2014	2014
BTF3P11	690		Basic transcription factor 3 pseudogene 11		154	0.519	0.731		0.01		1.00	1	0	2016	2016
MIR532	693124		Microrna 532		52	0.628	0.615		0.01		1.00	1	0	2015	2015

MIR605	693190		Microrna 605		43	0.644	0.423		0.01		1.00	1	1	2017	2017
MIR608	693193		Microrna 608		55	0.615	0.538		0.01		1.00	1	1	2019	2019
MIR618	693203		Microrna 618		35	0.67	0.5		0.01		1.00	1	1	2017	2017
MIR638	693223		Microrna 638		48	0.636	0.462		0.01		1.00	1	0	2018	2018
ZEB1	6935	P37275	Zinc finger E-box binding homeobox 1	Transcription factor	310	0.442	0.808	0.97	0.01		1.00	1	0	2018	2018
TCN2	6948	P20062	Transcobalamin 2		104	0.578	0.615	0.00	0.01		1.00	1	0	2011	2011
TEK	7010	Q02763	TEK receptor tyrosine kinase	Kinase	300	0.462	0.692	1.00	0.01		1.00	1	0	2020	2020
TERC	7012		Telomerase RNA component		296	0.471	0.846		0.01		1.00	1	0	2017	2017
TERT	7015	O14746	Telomerase reverse transcriptase	Enzyme	703	0.374	0.846	0.99	0.01		1.00	1	2	2017	2017
TFDP1	7027	Q14186	Transcription factor Dp-1	Nucleic acid binding	56	0.623	0.692	0.97	0.01		1.00	1	0	2019	2019
TFPI	7035	P10646	Tissue factor pathway inhibitor	Enzyme modulator	230	0.486	0.808	0.25	0.01		0.00	1	0	2007	2007
TGM2	7052	P21980	Transglutaminase 2	Enzyme	315	0.445	0.808	0.00	0.01		1.00	1	0	2019	2019
THBS1	7057	P07996	Thrombospondin 1		480	0.407	0.885	1.00	0.01		1.00	1	0	2015	2015
TIMP1	7076	P01033	TIMP metallopeptidase inhibitor 1	Enzyme modulator	603	0.38	0.885	0.50	0.01		1.00	1	0	2018	2018
TLR3	7098	O15455	Toll like receptor 3	Receptor	393	0.427	0.885	0.00	0.01		1.00	1	0	2011	2011
ACTG1	71	P63261	Actin γ 1	Cellular structure	291	0.477	0.846	0.00	0.01		1.00	1	0	2010	2010
SERPING1	710	P05155	Serpin family G member 1	Enzyme modulator	207	0.507	0.769	0.96	0.01		1.00	1	0	2018	2018
TLR5	7100	O60602	Toll like receptor 5		163	0.518	0.885	0.00	0.01		1.00	1	1	2016	2016
TM7SF2	7108	O76062	Transmembrane 7 superfamily member 2	Enzyme	217	0.486	0.808	0.00	0.01		1.00	1	0	2017	2017
CLDN5	7122	O00501	Claudin 5	Cell-cell junction	104	0.559	0.769	0.90	0.01		1.00	1	0	2018	2018
TNFAIP3	7128	P21580	TNF α induced protein 3	Enzyme	212	0.481	0.808	1.00	0.01		1.00	1	0	2015	2015
TNFRSF1A	7132	P19438	TNF receptor superfamily member 1A		487	0.409	0.923	0.99	0.01		1.00	1	0	2017	2017
TNNI3	7137	P19429	Troponin I3, cardiac type	Cellular structure	159	0.52	0.769	0.10	0.01		1.00	1	0	2017	2017
TRC-GCA24-1	7183		Trna-Cys (GCA) 24-1		21	0.729	0.346		0.01		1.00	1	0	2018	2018
TRAF3	7187	Q13114	TNF receptor associated factor 3	Signaling	129	0.541	0.769	1.00	0.01		1.00	1	0	2016	2016
ACTG2	72	P63267	Actin γ 2, smooth muscle	Cellular structure	205	0.505	0.808	0.07	0.01		1.00	1	0	2010	2010
TRH	7200	P20396	Thyrotropin releasing hormone		230	0.519	0.846	0.00	0.01		1.00	1	0	2017	2017
TRPC6	7225	Q9Y210	Transient receptor potential cation channel subfamily C member 6	Ion channel	166	0.514	0.692	0.00	0.01		1.00	1	0	2019	2019
TRPM2	7226	O94759	Transient receptor potential cation channel subfamily M member 2	Ion channel	133	0.546	0.731	0.00	0.01		1.00	1	0	2016	2016
TRPS1	7227	Q9UHF7	Transcriptional repressor GATA binding 1		248	0.537	0.769	1.00	0.01		1.00	1	1	2019	2019
C5	727	P01031	Complement C5	Enzyme modulator	129	0.55	0.731	0.00	0.01		1.00	1	2	2016	2016
TTR	7276	P02766	Transthyretin	Transporter	461	0.423	0.885	0.52	0.01		1.00	1	0	2017	2017
UBE2L3	7332	P68036	Ubiquitin conjugating enzyme E2 L3	Enzyme	56	0.644	0.615	0.84	0.01		1.00	1	0	2019	2019
UCHL1	7345	P09936	Ubiquitin C-terminal hydrolase L1	Enzyme	260	0.482	0.885	0.99	0.01		1.00	1	0	2017	2017
UGCG	7357	Q16739	UDP-glucose ceramide glucosyltransferase	Enzyme	111	0.56	0.808	0.94	0.01		1.00	1	0	2018	2018
UGT2B4	7363	P06133	UDP glucuronosyltransferase family 2 member B4		16	0.751	0.231	0.00	0.01		1.00	1	0	2019	2019
UMOD	7369	P07911	Uromodulin		164	0.52	0.846	0.00	0.01		1.00	1	0	2018	2018
VPS51	738	Q9UID3	VPS51 subunit of GARP complex		292	0.452	0.846	0.00	0.01		1.00	1	0	2014	2014
USF1	7391	P22415	Upstream transcription factor 1		82	0.592	0.692	0.02	0.01		1.00	1	0	2018	2018
UTRN	7402	P46939	Utrophin		152	0.525	0.692	0.00	0.01		1.00	1	0	2017	2017
VASP	7408	P50552	Vasodilator stimulated phosphoprotein		65	0.626	0.577	0.95	0.01		1.00	1	0	2014	2014
VDR	7421	P11473	Vitamin D receptor	Nuclear receptor	852	0.352	0.885	0.00	0.01		1.00	1	0	2015	2015
VEGFB	7423	P49765	Vascular endothelial growth factor B	Signaling	82	0.592	0.615	0.00	0.01		1.00	1	0	2018	2018
VIP	7432	P01282	Vasoactive intestinal peptide	Signaling	376	0.437	0.846	0.00	0.01		1.00	1	0	2017	2017
VSNL1	7447	P62760	Visinin like 1		52	0.631	0.423	0.46	0.01		1.00	1	0	2019	2019
VTN	7448	P04004	Vitronectin		178	0.509	0.769	0.00	0.01		1.00	1	0	2020	2020
WRN	7486	Q14191	WRN recq like helicase	Enzyme	172	0.524	0.808	0.00	0.01		1.00	1	1	2017	2017
CACNA1C	775	Q13936	Calcium voltage-gated channel subunit α1 C	Ion channel	225	0.51	0.846	1.00	0.01		1.00	1	0	2018	2018
ZNF208	7757	O43345	Zinc finger protein 208		11	0.769	0.231	0.00	0.01		1.00	1	3	2017	2017
MANF	7873	P55145	Mesencephalic astrocyte derived neurotrophic factor		62	0.621	0.654	0.00	0.01		1.00	1	0	2020	2020
REEP5	7905	Q00765	Receptor accessory protein 5	Transporter	49	0.633	0.615	0.00	0.01		1.00	1	0	2019	2019
MUL1	79594	Q969V5	Mitochondrial E3 ubiquitin protein ligase 1		241	0.473	0.808	0.00	0.01		1.00	1	0	2019	2019
ADIPOR2	79602	Q86V24	Adiponectin receptor 2	Receptor	103	0.564	0.731	0.36	0.01		1.00	1	1	2014	2014
TNFAIP8L2	79626	Q6P589	TNF α induced protein 8 like 2		90	0.575	0.615	0.04	0.01		0.00	1	0	2018	2018
DHX40	79665	Q8IX18	DEAH-box helicase 40	Enzyme	64	0.608	0.769	0.76	0.01		1.00	1	0	2013	2013
TFPI2	7980	P48307	Tissue factor pathway inhibitor 2	Enzyme modulator	161	0.521	0.769	0.00	0.01		1.00	1	0	2006	2006
EHMT1	79813	Q9H9B1	Euchromatic histone lysine methyltransferase 1	Epigenetic regulator	371	0.46	0.808	1.00	0.01		1.00	1	0	2019	2019
ARHGEF5	7984	Q12774	Rho guanine nucleotide exchange factor 5		140	0.526	0.808	0.00	0.01		1.00	1	0	2017	2017
MAP9	79884	Q49MG5	Microtubule associated protein 9		25	0.729	0.462	0.00	0.01		1.00	1	0	2019	2019
ERMP1	79956	Q7Z2K6	Endoplasmic reticulum metallopeptidase 1	Enzyme	8	0.861	0.154	0.00	0.01		1.00	1	0	2019	2019
WLS	79971	Q5T9L3	Wnt ligand secretion mediator		166	0.513	0.731	0.02	0.01		1.00	1	0	2019	2019
NAA25	80018	Q14CX7	N-α-acetyltransferase 25, natb auxiliary subunit	Enzyme	81	0.603	0.692	1.00	0.01		1.00	1	0	2019	2019
CALM1	801	P0DP23;P0DP24; P0DP25	Calmodulin 1	Calcium-binding protein	253	0.472	0.808	0.94	0.01		1.00	1	1	2018	2018
ZC3H12A	80149	Q5D1E8	Zinc finger CCCH-type containing 12A	Nucleic acid binding	88	0.578	0.654	0.14	0.01		1.00	1	0	2011	2011
FLAD1	80308	Q8NFF5	Flavin adenine dinucleotide synthetase 1		58	0.638	0.692	0.01	0.01		1.00	1	0	2014	2014
KCNIP4	80333	Q6PIL6	Potassium voltage-gated channel interacting protein 4	Ion channel	31	0.716	0.385	0.82	0.01		1.00	1	0	2019	2019
CALR	811	P27797	Calreticulin	Calcium-binding protein	487	0.413	0.923	0.89	0.01		1.00	1	0	2015	2015
CALU	813	O43852	Calumenin	Calcium-binding protein	33	0.7	0.385	0.01	0.01		1.00	1	0	2007	2007
AKAP1	8165	Q92667	A-kinase anchoring protein 1	Enzyme	35	0.678	0.577	0.74	0.01		1.00	1	0	2018	2018
RNF146	81847	Q9NTX7	Ring finger protein 146		27	0.705	0.577	0.82	0.01		1.00	1	0	2017	2017
QTRT1	81890	Q9BXR0	Queuine trna-ribosyltransferase catalytic subunit 1		39	0.659	0.538	0.00	0.01		1.00	1	0	2019	2019
BRAP	8315	Q7Z569	BRCA1 associated protein		82	0.612	0.769	0.00	0.01		1.00	1	0	2013	2013
CASP1	834	P29466	Caspase 1	Enzyme	444	0.413	0.885	0.00	0.01		1.00	1	0	2019	2019

PLVAP	83483	Q9BX97	Plasmalemma vesicle associated protein		40	0.695	0.538	0.00	0.01		1.00	1	0	2018	2018
BCO2	83875	Q9BYV7	B-carotene oxygenase 2		19	0.78	0.231	0.00	0.01		1.00	1	1	2019	2019
TSPAN10	83882	Q9H1Z9	Tetraspanin 10		9	0.821	0.269	0.00	0.01		1.00	1	0	2014	2014
CASP7	840	P55210	Caspase 7	Enzyme	83	0.581	0.654	0.00	0.01		1.00	1	1	2019	2019
CASP8	841	Q14790	Caspase 8	Enzyme	480	0.404	0.923	0.00	0.01		1.00	1	0	2018	2018
MINDY4	84182	Q4G0A6	MINDY lysine 48 deubiquitinase 4		122	0.538	0.731	0.00	0.01		1.00	1	0	2017	2017
KLF11	8462	O14901	Kruppel like factor 11	Nucleic acid binding	70	0.626	0.654	0.00	0.01		1.00	1	0	2018	2018
NTNG2	84628	Q96CW9	Netrin G2	Enzyme modulator	31	0.7	0.423	1.00	0.01		1.00	1	0	2013	2013
KDM2B	84678	Q8NHM5	Lysine demethylase 2B	Epigenetic regulator	86	0.592	0.692	1.00	0.01		1.00	1	0	2017	2017
ACCS	84680	Q96QU6	1-aminocyclopropane-1-carboxylate synthase homolog (inactive)	Enzyme	161	0.522	0.731	0.00	0.01		1.00	1	0	2018	2018
CAT	847	P04040	Catalase	Enzyme	794	0.359	0.962	0.00	0.01		1.00	1	0	2017	2017
PSRC1	84722	Q6PGN9	Proline and serine rich coiled-coil 1		13	0.76	0.269	0.00	0.01		1.00	1	1	2015	2015
GPR65	8477	Q8IYL9	G protein-coupled receptor 65	G-protein coupled receptor	47	0.653	0.5	0.11	0.01		1.00	1	0	2017	2017
IL17RC	84818	Q8NAC3	Interleukin 17 receptor C		65	0.633	0.615	0.00	0.01		1.00	1	0	2019	2019
ORAI1	84876	Q96D31	ORAI calcium release-activated calcium modulator 1	Ion channel	195	0.52	0.808	0.00	0.01		1.00	1	0	2017	2017
APOL1	8542	O14791	Apolipoprotein L1	Transporter	115	0.547	0.615	0.00	0.01		1.00	1	0	2018	2018
DOCK7	85440	Q96N67	Dedicator of cytokinesis 7	Enzyme modulator	51	0.682	0.423	0.00	0.01		1.00	1	3	2018	2018
PIAS1	8554	O75925	Protein inhibitor of activated STAT 1		54	0.633	0.731	1.00	0.01		1.00	1	0	2018	2018
DENR	8562	O43583	Density regulated re-initiation and release factor	Enzyme	121	0.543	0.692	0.88	0.01		1.00	1	0	2017	2017
MADD	8567	Q8WXG6	MAP kinase activating death domain		57	0.644	0.538	0.00	0.01		1.00	1	0	2016	2016
TNFSF11	8600	O14788	TNF superfamily member 11	Signaling	327	0.453	0.846	0.00	0.01		1.00	1	1	2016	2016
PLPP3	8613	O14495	Phospholipid phosphatase 3	Enzyme	30	0.722	0.192	0.92	0.01		1.00	1	1	2018	2018
PDE5A	8654	O76074	Phosphodiesterase 5A		187	0.513	0.731	0.00	0.01		1.00	1	0	2019	2019
TNKS	8658	O95271	Tankyrase		88	0.576	0.692	0.01	0.01		1.00	1	0	2011	2011
ABCC3	8714	O15438	ATP binding cassette subfamily C member 3	Transporter	160	0.517	0.769	0.00	0.01		1.00	1	0	2014	2014
TNFSF14	8740	O43557	TNF superfamily member 14	Signaling	143	0.529	0.769	0.05	0.01		1.00	1	0	2008	2008
TNFSF10	8743	P50591	TNF superfamily member 10	Signaling	445	0.413	0.885	0.13	0.01		1.00	1	0	2018	2018
TNFRSF11A	8792	Q9Y6Q6	TNF receptor superfamily member 11a		270	0.48	0.846	0.01	0.01		1.00	1	0	2016	2016
IL18RAP	8807	O95256	Interleukin 18 receptor accessory protein	Receptor	41	0.674	0.577	0.00	0.01		1.00	1	0	2012	2012
IL18R1	8809	Q13478	Interleukin 18 receptor 1	Receptor	234	0.473	0.808	0.00	0.01		1.00	1	0	2019	2019
NR1I2	8856	O75469	Nuclear receptor subfamily 1 group I member 2	Nuclear receptor	462	0.418	0.846	0.00	0.01		1.00	1	1	2019	2019
SQSTM1	8878	Q13501	Sequestosome 1		470	0.428	0.885	0.00	0.01		1.00	1	0	2017	2017
OTULIN	90268	Q96BN8	OTU deubiquitinase with linear linkage specificity		26	0.751	0.346	0.22	0.01		1.00	1	0	2018	2018
USP14	9097	P54578	Ubiquitin specific peptidase 14	Enzyme	79	0.595	0.654	0.91	0.01		1.00	1	0	2019	2019
LPAR2	9170	Q9HBW0	Lysophosphatidic acid receptor 2	G-protein coupled receptor	285	0.463	0.846	0.04	0.01		1.00	1	0	2015	2015
IL1RL1	9173	Q01638	Interleukin 1 receptor like 1	Receptor	117	0.547	0.731	0.00	0.01		1.00	1	0	2013	2013
XPR1	9213	Q9UBH6	Xenotropic and polytropic retrovirus receptor 1	Transporter	217	0.488	0.731	1.00	0.01		1.00	1	0	2015	2015
METTL18	92342	O95568	Methyltransferase like 18		1	1	0.077	0.00	0.01		1.00	1	1	2014	2014
NOG	9241	Q13253	Noggin		206	0.518	0.731	0.89	0.01		1.00	1	0	2018	2018
MSC	9242	O60682	Musculin		241	0.475	0.846	0.02	0.01		1.00	1	0	2014	2014
SPECC1	92521	Q5M775	Sperm antigen with calponin homology and coiled-coil domains 1		47	0.659	0.577	0.00	0.01		1.00	1	0	2011	2011
DNER	92737	Q8NFT8	Δ/notch like EGF repeat containing		203	0.493	0.769	0.19	0.01		1.00	1	0	2018	2018
ASIC3	9311	Q9UHC3	Acid sensing ion channel subunit 3	Ion channel	51	0.663	0.538	0.00	0.01		1.00	1	0	2019	2019
CD163	9332	Q86VB7	CD163 molecule	Enzyme	369	0.427	0.846	0.00	0.01		1.00	1	0	2017	2017
ZFYVE9	9372	O95405	Zinc finger FYVE-type containing 9		59	0.647	0.615	0.90	0.01		1.00	1	0	2011	2011
CD28	940	P10747	CD28 molecule		364	0.436	0.885	0.36	0.01		1.00	1	0	2009	2009
MUC16	94025	Q8WXI7	Mucin 16, cell surface associated		236	0.479	0.808	0.00	0.01		1.00	1	0	2018	2018
FADS2	9415	O95864	Fatty acid desaturase 2		140	0.575	0.692	1.00	0.01		1.00	1	3	2015	2015
HOMER2	9455	Q9NSB8	Homer scaffold protein 2		29	0.691	0.5	0.01	0.01		1.00	1	0	2016	2016
HOMER1	9456	Q86YM7	Homer scaffold protein 1		85	0.636	0.538	1.00	0.01		1.00	1	0	2016	2016
FHL5	9457	Q5TD97	Four and a half LIM domains 5	Transcription factor	153	0.53	0.769	0.00	0.01		1.00	1	0	2010	2010
CD34	947	P28906	CD34 molecule		674	0.368	0.808	0.00	0.01		1.00	1	0	2018	2018
CD36	948	P16671	CD36 molecule	Receptor	351	0.446	0.846	0.00	0.01		1.00	1	0	2003	2003
ADAMTS4	9507	O75173	ADAM metallopeptidase with thrombospondin type 1 motif 4	Enzyme	84	0.582	0.692	0.00	0.01		1.00	1	0	2017	2017
ADAMTS3	9508	O15072	ADAM metallopeptidase with thrombospondin type 1 motif 3	Enzyme	116	0.581	0.808	0.00	0.01		1.00	1	0	2017	2017
GTPBP1	9567	O00178	GTP binding protein 1	Enzyme	13	0.792	0.308	0.93	0.01		0.00	1	0	2005	2005
SNCAIP	9627	Q9Y6H5	Synuclein α interacting protein		44	0.691	0.423	0.00	0.01		1.00	1	0	2019	2019
PDE4DIP	9659	Q5VU43	Phosphodiesterase 4D interacting protein		12	0.769	0.308	0.00	0.01		1.00	1	1	2015	2015
CD74	972	P04233	CD74 molecule	Enzyme modulator	170	0.512	0.808	0.25	0.01		1.00	1	0	2017	2017
HDAC4	9759	P56524	Histone deacetylase 4	Epigenetic regulator	256	0.484	0.885	1.00	0.01		1.00	1	0	2018	2018
ACYP2	98	P14621	Acylphosphatase 2	Enzyme	42	0.659	0.577	0.00	0.01		1.00	1	4	2017	2017
XYLB	9942	O75191	Xylulokinase	Kinase	8	0.821	0.154	0.00	0.01		1.00	1	1	2014	2014
SLC23A2	9962	Q9UGH3	Solute carrier family 23 member 2	Transporter	46	0.65	0.615	0.01	0.01		1.00	1	0	2019	2019
CCS	9973	O14618	Copper chaperone for superoxide dismutase	Enzyme	56	0.628	0.423	0.00	0.01		1.00	1	0	2017	2017

Table SVI. IS targets in the DrugBank

Target	Gene
Glutamate receptor ionotropic, NMDA 2B	GRIK1
Acid-sensing ion channel 3	ASIC3
Hypoxia-inducible factor 1-α	HIF1A
Acid-sensing ion channel 1	ASIC1
Death-associated protein kinase 1	DAPK1
NMDA receptor	DLG2
Glutamate (NMDA) receptor	GRIN3B
Protein kinase C γ type	KCNB1
Protein kinase C	PDPK1
Voltage-gated potassium channel	KCNC2

Table SVII. IS targets in the TTD.

Target
BCL2L11
ABCA1
ABCC8
ACE
ACTA2
ADA2
ADORA2A
AGAP2
AGT
AGTR1
AKT1
AKT1S1
ALDH2
ALOX5AP
APOA1
APOB
APOE
APP
AQP1
AQP4
ASIC1
ATP7B
BAK1
BARD1
BDKRB1
BDKRB2
C3
C3AR1
CBS
CD4
CDK5
CFH
COL3A1
COL4A1
CTSL
CXCL12
DAPK1
DDIT4
DLG4
EPHX2
EPO
F2

F5
FGB
G6PD
GH1
GP1BA
GRIN1
GRIN2A
GRIN2B
GUCY1A1
HIF1A
HMGCR
HMOX1
HSF1
HYOU1
IL4
JAK2
KCNE2
KCNK2
KDR
LDLR
LGMN
LPL
MAPK10
MAPKAPK2
MIF
MMP2
MMP9
MTHFR
MYBPC3
NOS1
NOS3
NOTCH3
NPPB
NPY
P2RX5
PCSK9
PDE4D
PDGFC
PDGFRA
PGF
PLA2G7
PLG
PPARGC1A
PRKAA1

PRKCE
PRKN
PROS1
PTGER2
SELENOS
SELP
SERPINE1
SIRT2
SLC1A2
SREBF1
THBD
THBS1
TLR4
TNF
TNFRSF1A
TNFRSF1B
TRNL1
TRPA1
VCAM1
VEGFA

Table SVIII. IS targets in the OMIM.

T68547	Target Name	Histone deacetylase 1	
Target Info	Target type	Successful Target	
	Disease	Cutaneous T-cell lymphoma; Breast cancer;	
	Drugs	Panobinostat	Drug Info
T85435	Target Name	Insulin receptor (INSR)	
Target Info	Target type	Successful Target	
	Disease	Psychotic disorder; Alzheimer disease;	
	Drugs	Meglitinides	Drug Info
T94033	Target Name	Coagulation factor IIa (F2)	
Target Info	Target type	Successful Target	
	Disease	Stroke; Multiple sclerosis;	
	Drugs	Ximelegatran	Drug Info
T97587	Target Name	Integrin alpha-4 (ITGA4)	
Target Info	Target type	Successful Target	

	Disease	Crohn disease; Multiple sclerosis;	
	Drugs	Vedolizmab	Drug Info
T89034	Target Name	Plasminogen (PLG)	
Target Info	Target type	Successful Target	
	Disease	Chronic/stable angina; Bleeding disorder;	
	Drugs	Tranexamic Acid	Drug Info
T24836	Target Name	Vitamin K-dependent protein C (PROC)	
Target Info	Target type	Successful Target	
	Disease	Varicose and spider veins of leg; Hemangioma;	
	Drugs	Sodium Tetradecyl Sulfate	Drug Info
T46937	Target Name	P2Y purinoceptor 12 (P2RY12)	
Target Info	Target type	Successful Target	
	Disease	Acute coronary syndrome; Thrombosis;	
	Drugs	Clopidogrel	Drug Info

T88185	Target Name	Nicotinic acid receptor (HCAR2)	
Target Info	Target type	Successful Target	
	Disease	Lipid metabolism disorder; Arteriosclerosis;	
	Drugs	Vitamin B3	Drug Info
T98022	Target Name	Carboxypeptidase B2 (CPB2)	
Target Info	Target type	Clinical trial Target	
	Disease	Cerebrovascular ischaemia; Ischemic stroke;	
	Drugs	SAR-126119	Drug Info
T29683	Target Name	Neuromedin-K receptor (TACR3)	
Target Info	Target type	Clinical trial Target	
	Disease	Ischemic stroke; Epilepsy;	
	Drugs	Talnetant	Drug Info
T86702	Target Name	Matrix metalloproteinase-3 (MMP-3)	
Target Info	Target type	Patented-recorded Target	
	Disease	Ischemic stroke; Corneal ulcer;	
	Drugs	PMID29130358-Compound-Figure10(2a)	Drug Info
T56367	Target Name	Phosphodiesterase 1 (PDE1)	

Target Info	Target type	Successful Target	
	Disease	Ischemic stroke; Parkinson disease;	
	Drugs	Vinpocetine	Drug Info
T69494	Target Name	N-methyl-D-aspartate receptor (NMDAR)	
Target Info	Target type	Successful Target	
	Disease	Acute pain; Alzheimer disease;	
	Drugs	L-Glutamic Acid	Drug Info
T23547	Target Name	Opioid receptor (OPR)	
Target Info	Target type	Successful Target	
	Disease	Dry cough; Pain;	
	Drugs	Methadone	Drug Info
T34867	Target Name	Poly [ADP-ribose] polymerase (PARP)	
Target Info	Target type	Successful Target	
	Disease	Brain cancer; Non-small-cell lung cancer;	
	Drugs	Olaparib	Drug Info

Table SIX. Potentially disease-associated genes obtained by combined analysis.

Potential disease-associated gene
NOTCH3
F5
F2
NOS3
MT-TL1
ALOX5AP
FBN1
PRKCH
ACE
LDLR
MTHFR
GP1BA
PIK3CA
ACSL4
COL4A1
ENG
CRP
MT-ND1
APOE
IL6
TNF
AGTR1
MT-ND5
SERPINE1
MT-ND6
AGT
ADA2
MT-ND4
MT-CO1
PDE4D
ACTA2
PLAT
NPPA
MMP9
MT-ATP6
SELP
GLA
NPPB
CST3
PON1
ADAMTS13
IL1B

HTRA1
RNF213
VWF
APOH
SERPINC1
JAK2
COL4A2
MT-CO2
MAPT
BDNF
VEGFA
GUCY1A1
FGA
APP
APOB
LPA
TLR4
F7
MT-CO3
PTGIS
F3
TP53
EDNRA
PLA2G7
ITGB3
IL10
ELN
THBD
PON2
CXCL12
CASP3
ALB
PRKG1
SERPINA3
PROZ
LMNA
REN
EDN1
TGFB2
SOD2
VKORC1
CDKN2B-AS1
MYH11
ENO2

RNF213-AS1
FGB
ACTA2-AS1
P2RY12
LOX
ABCA1
COL3A1
HIF1A
ALOX5
F10
PECAM1
OLR1
HMGCR
SMAD3
SELE
MYLK
ADM
LOC102723566
ACVRL1
ANGPT1
SMAD4
GSR
TGFBR2
PROCR
F2R
SLC2A10
NGB
PSEN1
ICAM1
ADIPOQ
TGFBR1
PF4
HSPA4
ENPP1
AVP
SH2B3
PIK3C2A
AQP4
PLG
HMGB1
CYCS
MAP2
ADORA1
MPL

KCNQ1
INS
TTR
CREB1
GJA1
GNB3
F9
AKT1
TNNI3
TNNT2
PPBP
ABCC6
MB
LPL
EPOR
TNFRSF1A
APOA1
SLC1A2
CCL2
SERPINI1
MALAT1
EDNRB
CASP1
SERPINF2
IGF1
CXCR4
GATA4
MT-CYB
SULT1A3
HSPA8
MBP
GP6
NES
ADD1
AOC3
PPARG
THPO
GDNF
ITGA2
ESR1
F13A1
TET2
TH
VCAM1

TSPO
CCL3
BMP7
SIRT1
ANXA5
CALR
CXCL8
TGFB3
HBA1
CYP2C19
TBXA2R
PTGS2
TREX1
SPP1
NKX2-5
ENTPD1
ACTC1
MFAP5
F12
NFE2L2
ADRB2
ADORA3
CD40LG
SOD1
MYBPC3
MAT2A
AGTR2
ADORA2A
IL1RN
FOXE3
IL4
MMP2
RPL36A-HNRNPH2
MAPK3
MMP3
DCX
KNG1
TNFRSF12A
PTEN
MIAT
FGF2
ITGA2B
SCN5A
CD14

SERPIND1
BACE1
HBB
HEY2
MYH7
TGFB1
SON
CASP9
BRCC3
HHT4
GATA6
CBS
AIF1
RETN
DARS2
SMAD2
NDE1
PMM2
F8
NTF3
MIR21
CYP3A5
HMOX1
EPO
MIR155
IL18
POLG
S100B
MPO
PRNP
LTA
ACTB
IL1A
CETP
ZMPSTE24
PDE5A
HSPA1A
MYH6
PTGS1
RTN4
GFAP
APOC3
ECE1
G6PD

LEP
LIPC
BGN
RBFOX3
NOS2
PKD1
NOTCH1
NOS1
EPHX2
KRAS
PROC
NF1
TNFRSF11B
SLC6A4
HLA-DRB1
HP
CALCA
ALDH2
NPY
CDKN2A
F11
CYP11B2
PITX2
FLVCR2
NCF1
AGER
LOC113939944
CP
AMPD1
FGG
HDAC9
MIR146A
GDF15
GNAQ
KRIT1
DES
CCR2
PDE3A
BRCA2
NGF
KCNJ5
ATM
WFS1
CSF3

TBX20
HLA-DQB1
CYP2C9
MMACHC
ZFHX3
ADRB1
APOA5
GCKR
CYBA
C3
CCR5
KDR
CAPN3
DPM3
GPT
TTN
HFE
FLT1
CNTF
CTF1
GRIN2A
MTX2
MYMY1
MYMY3
CITED2
CCND1
JAG1
SRFBP1
VDR
NR3C1
PCSK9
ABCB1
TCF7L2
MMUT
MEN1
CD34
CTLA4
TIMP1
COL2A1
UCP2
PRL
TMEM126B
INSL6
PRKAG2

HLA-B
SELL
GNB1
FLNA
RPS27A
KL
CYP4F2
CUX2
NINJ2
NSD1
CSF2
FLNC
PTPN11
MYMY4
PPARA
MMP1
FCGR2A
GRIN2B
ACHE
MAN2B1
GJA5
CPS1
COL4A5
NLRP3
NPR3
CDK5
IL17A
CPB2
XDH
CDKN2B
HTR2A
ACAN
XBP1
FKRP
PTX3
CAT
TANGO2
GSTM1
CYP2J2
CX3CR1
SLC34A1
TWNK
ATP1B1
SERPINA1

ATP1A2
FH
SMARCA4
PARP1
GHRL
TLL1
TF
POU4F1
PKD2
CELA2A
PDGFRA
ITIH4
CCL11
MBL2
MT-ATP8
BGLAP
LTC4S
MTR
HYT1
HNF1A
HSPA5
GRN
VHL
NEFL
IL2
MIR132
MMP12
SCNN1A
RGS5
HYT2
HYT3
HYT4
HYT5
HYT6
HYT7
HYT8
TBX5
MIR145
MIR9-1
BRAF
MYL4
CD40
IGFBP3
OTC

IL13
FAS
TBXAS1
IL1R1
ACE2
SLC1A1
ABCC8
ABO
MAPK14
BCL2
CS
PPOX
GBA
TLR2
ERCC6
IL6R
IAPP
FOS
SMARCAL1
LRP1
MGP
SURF1
PCNT
IL4R
TFPI
CD36
DKK1
CFH
OPN4
LGALS3
NAMPT
ITGB2
MIR126
NDUFS4
PDGFRB
FABP4
CASP2
CYP4A11
C5
GJA4
SYNGAP1
MAPK1
MIF
GARS1

TREM2
LIMK1
STAT3
SELPLG
BCL2L1
COL1A1
TGFBR3
MYH9
ITGAM
ANGPT2
ELANE
CRELD1
SORT1
CYP2C8
SLC9A1
LCN2
CHAT
CAV1
POMC
ADA
ABCC9
RYR1
GATA3
RBP4
KCNE2
COG2
H19
ACTG1
ADRB3
TARDBP
TNFSF4
COX5B
PTH
AHSG
SNCA
SLC2A1
MFN2
SCN2A
CLCN1
DNAH8
IRS1
ANGPTL6
MTERF1
ITGB1

PHACTR1
CTNNB1
FABP2
ASS1
EGF
ARSA
FGF21
MIR210
FLNC-AS1
MC4R
VCP
IFNG
MYD88
KCNA5
SLC1A3
NOTCH2
PCCA
PTPN22
IRF5
BMP2
SCN1A
FN1
CCR6
XIAP
EPRS1
ARRDC4
COMT
BMP6
GDF2
TPM1
CD163
FMR1
ARG1
F13B
TSPAN2
WDR26
YY1AP1
ASTN2
LOC110806262
B2M
CORIN
KMO
HTR3A
SAMHD1

PGF
MGR5
MGR6
GH1
KALRN
NRP1
ODC1
SST
NR2F2
CLU
ASIC1
THSD1
SRC
SETD2
FCGR3B
MMP8
SPG7
TFAM
CYP3A4
GRIA1
SDHB
MIR143
LIPA
PARK7
CPT2
HTR1A
CD63
GRIN1
CNR1
CHI3L1
TEK
DRD1
CHIT1
UQCRFS1
IL5RA
LEPR
MT-ND3
FURIN
NR3C2
CRYAB
FGF23
MGR2
MGR3
MGR8

MGR1
MGR10
MGR11
MGR12
ALG13
NTS
KLKB1
MT-ND2
NDUFA1
GCG
PCCB
TIMP3
GYS1
RNLS
KCNMA1
PNP
COX4I1
TERT
PAPPA
HSD11B2
SCNN1B
MEFV
BAD
LOC106029312
IRS2
CDH5
IL9
PIGA
NAGS
IGF2BP2
ATXN2
SCGB1A1
ATFB5
WDR45
MIR451A
APLNR
MT-ND4L
GPX3
UCP3
DMD
MIR499A
MTAP
CMA1
MIR149

MIR30A
KCNJ11
NT5E
HABP2
MIR122
KYNU
CELSR1
CYP1A1
JUN
GGCX
MIR223
SGK1
TYR
CYP17A1
NTN1
MIR144
XRCC1
MROS
ERCC8
HGF
PRKN
THBS1
IMPA2
KITLG
SLC17A5
LAMP2
CCN2
KIT
IGFBP1
LIF
MMP7
MDM2
APOL1
GCH1
IRAK1
MASP2
PON3
ITLN1
WRN
TAC1
KARS1
ADAM17
SLC2A4
C4B

RAI1
GC
MEG3
TYMP
CCR3
FOXP2
MIR196A2
IL37
MIR181A1
FABP3
S100A1
WNK1
ITGAL
ACP5
CCL5
PPARGC1A
HSPB1
IL3
KCNK17
ALOX12
MAPK8
TIMP2
PTK2B
FTO
NUP155
TRPV4
GGT1
PVALB
CLCN6
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WARS2
TFB1M
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CCDC88C
DDAH1
INSR
ESR2
ROCK1
GHR
SLCO1C1
TWIST1
MTOR
CYP11B1

SOST
NR4A2
GAA
NEFH
CD68
SHBG
H2AC18
IGF1R
CYP1B1
KIF6
GRIK2
C4A
AR
SLC19A1
ADAMTS7
MIRLET7B
IDO1
DRD2
ALPL
TXN
MIR199A1
ALOX15
STX1A
AIFM1
MIR29A
GAPDH
NR1H3
KCNB1
HAVCR1
JPH3
SPTB
NOTCH4
SOCS1
PIGQ
MS4A2
GPX1
SUOX
NPC1
MMP10
VIPR2
BDKRB2
IL33
DLL4
CACNA1C

CDH13
ADAMTSL1
APOA4
SLC6A3
TIE1
LEPQTL1
GCK
FNDC5
BRAP
VASP
SREBF1
CFLAR
ADCYAP1
ABCG2
DLL1
CD79A
RBPJ
TCF7
GNAS
CAMK2G
DLG4
PTGDS
RYR2
CIITA
MTTP
GSTT1
PLA2G2A
PSMA6
CDH11
ATP1A3
AFG3L2
CYBB
ABCG8
EGR1
P2RY1
SCN8A
SLCO1B1
TNFSF11
PTHLH
PMM1
CHGA
MIR134
PDGFB
SQSTM1

TRPV1
OPRM1
NOX4
BAX
PTPN1
TRIM2
MME
CCK
AKR1B1
SOD3
SELENOS
ABCG1
KIAA0319L
LTB
TRPM7
IFNA1
DLL3
SRRT
CALM1
STAT5A
STIN2-VNTR
RUNX2
ABCC1
GRM7
DBH
CX3CL1
IL12A
CASP8
GRM1
IL2RA
PSEN2
PLOD1
UGT1A1
FOLH1
ADH1C
LTA4H
HEY1
JAG2
HEYL
CYP2D6
EPHB4
EP300
IFIH1
MMP13

MIR34A
MTRR
CELF2
NAGLU
MUC1
CHRNA7
CACNA1A
PATJ
MYT1L
MIR140
ADRA2A
DENND11
SAA1
PTGES
DYRK1A
MIR221
CDH4
MMRN1
SLC2A3
MIR124-1
GAS6
HNF1B
TNXB
BCHE
APEX1
MAOA
NDUFC2
SREBF2
COL1A2
ZC3HC1
BECN1
BMPR1A
HSD11B1
RUVBL2
LLGL2
APLN
GRIA2
MIR125B1
ERCC4
MYC
SLC8A1
PSAP
CALCRL
SP1

MIR125A
ALKBH8
CD28
IDH1
CD177
IGF2
ASIC3
KCNN4
GSTO1
TNFSF10
LGALS2
CALB1
MIR142
C19orf12
S1PR1
ABCB7
HRAS
HTT
CTSB
CYP24A1
DEFA1
ROS1
MEF2D
SIL1
KCNMB1
CD4
DNAH11
DDC
EZH2
NTRK2
H2AX
STAT5B
PALLD
VAMP8
SCNN1G
APOD
MYH15
SNX19
ICAM4
ADRA2B
LMX1B
IL1F10
CSF1
GRM8

COL6A3
IRF1
PRKAA2
HAMP
GSTO2
NTRK1
STAT4
PPARD
TRIB1
SERPINA12
NQO1
MIR24-1
HSPD1
AKT2
GATA5
ERAP1
HSPA1B
EGLN1
OPA1
TLR3
MVK
LRP5
NPR1
CCL17
EPAS1
AUTS2
GRK2
CCR1
KLC1
MIR188
SLC25A4
ATP2B3
GSN
ST2
KCNQ2
RAC1
CXCL16
CLEC16A
KCNK4
MIR150
LAMA1
NRG1
EIF2AK2
CSTB

ALDH1A2
CRH
VIP
PROS1
MIR30E
SUPT3H
ITPR3
IDE
UMOD
NFKB1
PSRC1
LEMD3
PLAUR
AQP1
KLK1
IL11
FABP12
TLR8
PRTN3
HRES1
TTC7B
AP3B1
TRAF3
MIR17
RUNX1
FADS1
GHRH
HLA-DRA
DSP
ADAMTS1
ARHGEF10
NGFR
ADCYAP1R1
KCNQ3
TNFSF12
ZCCHC14
PDGFD
DCN
BLK
ITGB6
SERPINA9
HNF4A
MLYCD
ITGA4

FGFR1
HPS1
MAPK10
UBR3
FOXF2
USF1
PRCP
APIP
STK11
FASLG
MAPK8IP1
DPP4
HOTAIR
HHT3
KCNIP4
LBP
ANGPTL4
CXCR2
FUNDC2
SLC9A3R2
SMPD1
TCF21
HSPG2
CAMTA1
TRAPPC9
EPHA3
GCLC
NOD2
ANGPTL3
RARRES2
BCAN
MGAT5
SPATA13
RHOA
CSF1R
DAPK1
PCDH19
TRH
UCHL1
ZNF292
GRM5
CSF3R
APOA2
PFKM

MKI67
CD59
S100A9
MMAA
ALDH7A1
SPSB4
GAL
SLC22A3
MAG
STN1
HPSE
CELSR2
TBX3
ITM2B
CRYBG1
OXT
VEGFC
DRD4
PDGFA
FLG
CACNA1B
KCNK3
CYBRD1
CHRNA4
LOC110673971
MAOB
ADAMTS2
APCS
FOXG1
TSC2
WNT3
CARD8
LCAT
PKP2
TLR7
PIK3CG
MIR195
GSTP1
VIM
SCGN
NFAT5
CARD14
MON1B
BMPR2

ATG7
ROPN1
PTPRC
EDN3
NAA25
SNHG14
ZPR1
STRN
MIRLET7I
DOCK8
CAPN10
S100A8
HSPA1L
COL4A4
CSN3
TYRO3
DFFA
GRIA3
CYP2E1
SRSF3
LTB4R
ANK2
IL16
ASPM
HTR2C
SYNPO
ZC3H12A
COL5A1
CLCN2
EGFR
PRKCG
ADRA2C
NCAM1
SLC5A2
CHUK
ALDH1L1
GUSB
WDR12
KMT2A
GLUD2
MOCS2
NUDC
KLF4
SYP

SOCS3
MTHFS
SUN1
OXA1L
IGFBP2
PLA2G6
LPAL2
SPTBN5
OPTN
CST9L
CST8
IL5
PRRT2
MIR33A
AMBP
MIR125B2
CYP19A1
LPXN
VDAC1
TAGLN
CXCL1
CDC5L
TNIP1
ADK
CNNM2
ETS1
MMAB
PPP3CA
ACP1
ADCY10
CACNB2
ENPEP
IL1RL1
CD8A
PNPO
ROCK2
APAF1
TUBB3
TIMD4
IBSP
HCRT
SPTAN1
LDB3
CREBBP

LINC01394
TTF2
OSM
PAWR
MIR206
GZMB
GFER
MIR29C
PEAR1
TERC
C3AR1
AMPD3
FADS2
FXN
MIR130A
ACYP2
NRIP2
UFSP2
TNFAIP3
FST
TNFRSF11A
FCN1
NKX2-1
ITGAV
BIRC5
NEAT1
ITGAE
HSPB2
WNK3
XKR6
P2RX7
PRKCE
UGCG
SMARCA2
ABCD2
CDK4
PEMT
CTSK
POMT2
COL5A2
ADRA1A
CR2
MIR130B
NFATC1

MTHFD1
SLC6A2
PAFAH1B1
LOC102724058
TJP1
RASD1
PLPP3
NPPC
PRKCA
TOX
NT5C2
FAM205A
FHIP1A
ADNP
ADAMTS18
FCGR2B
GDAP1
FCAR
VEGFB
RPS6KA3
SLC39A7
AQP10
TAS2R50
NFKBIA
CKB
CKM
EPHA4
IL20
KRT5
DCC
ALOX12B
MLF1
SERPINB8
P2RX6
SLC26A8
TAF3
VTI1A
MCM10
KRT74
PGLYRP2
DMXL2
FCRLB
FSTL4
SGIP1

HEATR5B
TMPRSS11B
WDR31
MYOM3
ZNF132
OR13G1
OR2A25
WDR55
LGALS14
LY6G5B
RPLP0P4
ITGA3
NPTX1
DEFB4A
SOX9
LBR
TCN2
IVD
ZFP30
GAS5-AS1
ICOSLG
PANK2
PRDM16
OGG1
SLC2A6
CXCL10
NF2
UCP1
HSPB8
GJB1
SCARB1
RAMP2
MEF2C
GCLM
RASIP1
STAT1
CTSD
TNC
GALC
RPS6KA2
PPIG
P2RX4
TSHR
M6PR

APOC1
HPX
SLPI
TFRC
COX5A
ITPR1
MIR124-3
IDH2
GAP43
PRKAA1
GATA1
SLC12A1
ARG2
CXCR3
PENK
PNOC
PHF6
PTPRF
CGAS
SOAT1
MYOCD
LAMA3
GRIK1
P4HB
CDKN3
ADIPOR2
NPHS2
IL36RN
KRT14
MYL3
MED13L
MIR602
SAA4
PMS2
HYOU1
ARL6IP6
AQP9
KIF5A
DAXX
GOSR2
GUCY1B1
CFTR
ABL1
IFNA2

VSTM4
RASA1
PDP1
ARID1B
HLA-DQA1
HADHA
CYP11A1
HK1
LTF
PRDX1
VTN
FABP1
DCTN1
BCL2L11
DNASE1
PLAU
SNAP25
SLC4A4
SLC17A3
APOM
TTLL5
ERRFI1
SHISA6
TMEM163
ZDHHC22
OBI1
LINC02113
MRAS
HDAC4
FOXO1
DIAPH1
DDAH2
NFIA
PINK1
U2AF1
OPRD1
SIGMAR1
CHEK2
SFTPA1
CD86
GOLGB1
HAVCR2
FOSB
KRT20

DNMT3A
MIR27A
IL21
ATP10A
APOC2
CFHR5
MIR382
RELA
MIR100
TNFRSF9
MIR185
MIR15A
SLC1A7
CCL7
SMN1
RB1
MSX2
MIR495
TAF1
CAV3
C11orf65
CFI
SLC12A2
TGM2
PARP12
GPATCH8
TMCO6
CA2
RAMP1
BLOC1S1
GAD2
NLGN1
CRYAA
CARTPT
LAMP1
GNMT
BRCA1
TRPC6
NTNG1
ITPK1
SLC20A2
SOCS2
TRPC3
CYP2B6

MIR16-1
GP5
AFF2
HSP90AA1
GAST
TCF4
NDUFA6
MIR200B
ITGA5
ADORA2B
IL23R
NEDD4
TNR
DFFB
BACE2
GLUL
RBFOX1
PRKCB
RMST
HPR
UCN
CAMK2A
MIR326
TPO
HTR2B
CA4
NLRP1
PGM1
PCNA
HBG2
PLIN1
ULK4
UTS2
CYP1A2
DPAGT1
GSK3B
MIR29B1
CUBN
FUT2
TCN1
NBPF3
HMGCL
CARF
SEMA3F

BMP4
GP9
ENPP3
PTCH1
PRKAR1A
LTB4R2
TRADD
CASP7
WARS1
ATP2B1
CYSLTR2
KRT18
LOC110973015
ASXL1
NFE2
CRLF3
DIO3
TNFSF14
PRRC2A
STUB1
CANT1
LTBP2
WNK4
RNASE3
NNMT
CDC42
IL21R
HJV
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lnc-SGCB-1
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lnc-TERF2IP-6
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lnc-MKRN1-1
lnc-PRC1-3

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lnc-TTC14-3
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piR-58712
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lnc-DEFA1B-1-002
RF00026-1082
RF00998-050
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LOC105374240
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piR-56120

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SEMA7A
B3GAT1
PRKCD
TRPS1
PDE6B
TFG
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HTN1
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FGF4
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C5AR1
NR1H2
CA1
PRKD1
ACTN4
CSN1S1
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TMLHE
TNFRSF25
HTR7
E2F1
CXCL14
LGI1
TCFL5
MIR215
TRPM6
ICAM3
MIR211
SOS1
ECHS1
PC
GALNT3
FAM20C
PHEX
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BMP10
MYBPC2
PHOSPHO1
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DMBX1

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CPQ
CTSL
C4BPA
SUMF1
PTGER2
TRDMT1
ADH1B
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AKAP7
CTSG
WRAP53
DRD5
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PLD2
BLZF1
DSTYK
C1QTNF3
ARF1
FIS1
IFRD1
STIM2
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FGFR2
VIPR1
CYSLTR1
PLA2G4A
RNF214

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FOXC1
CFB
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MIR638
LRRFIP1
GPHA2
TGFBI
ACACA
UGGT2
EMC8
VOPP1
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TAFA4
SCARB2
EIF2AK3
CHRNB2
FOXC2
RFXANK
PRKACA
MYDGF
GIP
EGLN2
PTPN3
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TNFSF9
PRDX2
NTF4
LPIN1
KLK15
VEGFD
MESP2

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WNT1
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HAND2
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SYT11
FGF5
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EZR
FCGR1A
TAAR1
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HBEGF
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PAX6
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PEX2
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GFRA1
TNNI3K
NINJ1
CEBPA
HAS2
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BAG3
LCK
ALOX15B
PLK4
HLA-S
RIPK1
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IRX4
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TBX2
BCKDHA
GCSH
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COX8A
MED15
PGAP1

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GKN1
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LAX1
RIMBP2
AAR2
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HUS1B
GGACT
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MIR92A1
LMO4
GNE
MSH6
MLH1
SGSH
ATXN1
OLIG1
ARSH
RHO
YWHAZ
EPX
POLR1F
SERPINA10
CAPN5
CD2AP
CPT1B
FSTL1
SOX17
PER2
YAP1
SMPD2
MOAP1

INTS5
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SGCB
CRHR1
AKT1S1
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CDR1-AS
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LINGO1
MRE11
DHX37
MFF
ATP2B4
PTAFR
PLK1
PRKAB1
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HLA-G
JUP
F2RL3
SIRT4
PAK1
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PRMT1
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PARVA
PPIA
FDFT1
TREM1
SYK
HSPE1
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MYOZ2
UCN2
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NRG2
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ESRRA
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ANXA2
DSG2
CSF2RA
ACD
POT1
TERF2IP
TEP1
PAFAH2
MAP2K1
EFNB1
DIABLO
RAF1
SHC1
FABP5
CARD16
CIDEA
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ITGA7
TRAF2
ESRRG
MIR485
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TJP2
POU5F1
CYGB
FAH
PDE11A
SNHG12
OPRL1
MSR1
CPE
SERPINB2
PIGF
NOS1AP
PAPPA2
MIRLET7F1

INPPL1
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NRF1
TCAP
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PMS1
CHEK1
BARD1
PACC1
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HSPA9
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MIR15B
DSC2
LMAN1
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ABCC5
GSTA4
OIP5-AS1
BIRC3
ACSS2
PDLIM1
ALDH9A1
GLUD1
IL3RA
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ZNF98
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ACADM
EIF2S1
FCN3
MOV10
PGK1
CYP2C18
PPP1R15A

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FHL2
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CACNB3
CACNB1
UBQLN1
SCNN1D
VNN1
ATP5PF
CLCN3
MIRLET7F2

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DGKQ
FUT3
LCT
APOBEC2
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PTPRU
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GOSR1
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YWHAE
GLB1
LAMB1
KCNJ6
CACNA1F
ETFA
ROBO1
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TDP1
RPS6
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EEF1A1
RGS4
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PRKRA
WWP1
RHD
UPF1
PLEK
DCAF17
MIR455
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BAG6
IFNE
IFNGR1

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SLC17A7
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CYTL1
ACKR2
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DUSP1
GJB2
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HCN2
CHRM1
RORC

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COPS5
MYL1
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SPRED1
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MIP
ITPKB
PROK2
TNFRSF10B
ITGB4
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ACVR2B
ANPEP
STAT6
RPA1
ALPP
GPR37
CYC1
LAMB2
FEN1
MDH1
PDIA3
ACAA2
COL6A2
XRCC4
COL6A1
CD82
TPP1
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ABCB10
BCAP31
ELAVL2
CHM
IL17B
THBS3
RBP3
ZMIZ1
MKKS
PEG3

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SAA2
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MT2A
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HMCN1
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ITGA8
ITGA9
ITGA11
ITGA10
ITGAD
PPP2CB
ADAMTS4
STC2
GATA2
SUMO2
ANKRD2
SP8
NR1I2
GPC3
LONP1
SLC1A5
VAV2
DHX9

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NDRG2
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GSTA2
AQP8
SCG5
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DBT
PARG
AZIN2
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SLCO2B1
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LAMC1
SLC38A1
SIRPA
DYNLL1

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BBC3
ESAM
PCSK6
RAB1A
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BIK
CCT4
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BCL2L14
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HIGD1A
DCTN6
APOO
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LANCL1
NRDC
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HOTAIRM1
HOXA-AS2
MIR216B
MIR496
CCAT2
MIR1202
HOXB-AS2
MIR448
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CERNA3
TSPAN33
PCYT1A
PIK3CD
GABPA
HDAC6
MTCO2P12
COX2
CHDH
POLDIP2
MIR137
MIR19A
COX1
ACSM3

SLC25A1
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MLKL
RCOR1
POU2F3
RNF19A
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NUBP1
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AIMP2
NEIL1
NR4A3
COASY
ULK1
TSLP
HSPB3
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GRAP2
ZGLP1
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DEFB4B

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MIR4656
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EBI3
EMSLR
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GNLY
SORBS1
CXCR6
TRAF3IP2
PLK2
LILRB1
RNPS1
FASTK
PDIA5
DUSP14
VSIG4
MGLL
CIRBP
H3P7
FOPNL
TAF8
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SRXN1
CRYZ
RMDN2
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DLG2
EGR2
EGR4
ELK1
FCGR3A
MCF2L2
TBC1D9
MLC1
ARC
CRTC1

TRS-AGA2-3
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BCL2L13
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GALNT2
HSPA12A
FAM98A
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COPD
GEM
NAAA
GLI2
GOT2
SNHG15
GPR42
REM1
GRINA
NOP53
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HLA-C
AOC2
HES1
FFAR4
ID2
IFIT3
ACTBL2
MAGEB5
IKBKB
INSRR
JAK3
AREG
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KIR3DL2
C11orf96
LAD1
LAMA5
LAMC2
RPSA

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LIG4
LINC01194
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MIR219A1
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ARRB2
MRC1
POTEKP
MSD
PLF
CYTB
MUSK
ATF3
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AK3
MLXIPL
RMDN1
PCSK1
MZB1
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ASIC5
PKM
PLP1
PNN
NANS
POR
POU2F1
TOMM7
TMEM132A
ANO1
RMDN3
IMPACT
MIR449A

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SYBU
VPS35
RNF130
MASP1
MMP26
ANKS1B
PDXP
PTGDR
MRS2
MIR363
NDRG3
NLN
TAOK1
SEMA6A
PTMA
PTMAP4
PRX
NLRC4
RAPSN
RGS7
RPS20
RTN1
S100A11
TSPAN31
BHMT
CCL19
NEUROG2
CRLF2
POTEM
SNHG6
ITSN1
GORASP1
SHMT1
SMURF2
NMNAT1
MARCHF7
NBEAL1
MARCKSL1
SLC6A11
SLC6A13
SLCO1A2
CYP4F12

SMN2
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SCARNA6
STIM1
BRS3
SYT1
BTF3P11
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MIR608
MIR618
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SERPING1
TM7SF2
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ACTG2
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UGT2B4
VPS51
UTRN
REEP5
MUL1
DHX40
EHMT1
ARHGEF5
MAP9
ERMP1
WLS
FLAD1
AKAP1
QTRT1
PLVAP
TSPAN10
MINDY4
KLF11
NTNG2
KDM2B
ACCS
GPR65
ORAI1
PIAS1
IL18RAP
OTULIN

USP14
LPAR2
XPR1
METTL18
NOG
MSC
SPECC1
DNER
ZFYVE9
GTPBP1
SNCAIP
GRIN3B
KCNC2
HCAR2
TACR3
PDE1
NMDAR
OPR
PARP
AGAP2
ATP7B
MAPKAPK2
P2RX5
TRNL1

Table SX. IS-related DEGs between IS samples and healthy control subjects.

DEGs	logFC	AveExpr	t-value	P-value	adj. P-Value	B-value
C5AR1	0.940180226	11.88368589	6.648818289	$8.10x10^{-9}$	6.96×10^{-5}	9.864121724
RGS2	0.976577123	14.79534996	6.588266978	1.03×10^{-8}	6.96×10^{-5}	9.642051610
ARG1	1.659184809	9.472992807	6.310007735	3.12×10^{-8}	1.40×10^{-5}	8.625130604
VNN2	0.834781442	14.36524216	6.084623658	7.58×10^{-8}	2.56×10^{-4}	7.806901937
KCNJ15	0.954581547	10.16617911	5.875315293	1.72×10^{-7}	3.40×10^{-4}	7.052627767
LAMP2	0.981300819	12.55130808	5.874437248	1.73×10^{-7}	3.40×10^{-4}	7.049476537
CKAP4	0.946953524	11.52046001	5.838854273	1.98×10^{-7}	3.40×10^{-4}	6.921869733
PPP3R1	0.694766343	11.64571196	5.834749003	2.02×10^{-7}	3.40×10^{-4}	6.907159891
CRISPLD2	1.039070222	11.33897315	5.780324262	2.49×10^{-7}	3.73×10^{-4}	6.712395616
MARCKS	0.910581766	12.40819049	5.744362646	2.86×10^{-7}	3.78×10^{-4}	6.583963297
TLN1	0.764866363	10.48166448	5.725238936	3.08×10^{-7}	3.78×10^{-4}	6.515752084
ANTXR2	0.813030832	11.04619150	5.675902729	3.73×10^{-7}	4.20×10^{-4}	6.340063202
PADI4	1.009479655	13.02302498	5.597492236	5.05×10^{-7}	5.24×10^{-4}	6.061717869
FGL2	0.740118288	13.63330132	5.577110303	5.46×10^{-7}	5.26×10^{-4}	5.989548294
SIRPB1	0.647859602	9.445710604	5.545709189	6.16×10^{-7}	5.41×10^{-4}	5.878513979

LHFPL2	0.691545734	9.221133669	5.535391609	6.41×10^{-7}	5.41×10^{-4}	5.842072028
MMP9	1.397364165	11.79202121	5.502863191	7.26×10^{-7}	5.46×10^{-4}	5.727315960
CA4	1.079446130	10.64186790	5.501991582	7.29×10^{-7}	5.50×10^{-4}	5.724243886
PROS1	0.616942170	8.534427668	5.428125941	9.66×10^{-7}	6.86×10^{-4}	5.464451214
DYSF	0.914980379	11.60968035	5.391868571	1.11×10^{-6}	7.49×10^{-4}	5.337341532
RRAGD	0.718308504	10.47358004	5.377166466	1.17×10^{-6}	7.54×10^{-4}	5.285878756
IGF2R	0.861326850	12.72153672	5.355837544	1.27×10^{-6}	7.80×10^{-4}	5.211302330
CTSZ	0.834922355	10.48964988	5.342474187	1.34×10^{-6}	7.85×10^{-4}	5.164627835
PLXDC2	0.761512052	9.690803054	5.322877497	1.44×10^{-6}	8.11×10^{-4}	5.096253081
TNFSF10	0.876704058	12.52954786	5.302960586	1.56×10^{-6}	8.39×10^{-4}	5.026848582
ACOX1	0.801215883	9.653246851	5.273506974	1.74×10^{-6}	8.71×10^{-4}	4.924375663
CD163	0.977186383	9.496562610	5.269168260	1.77×10^{-6}	8.71×10^{-4}	4.909297457
RAB27A	0.585948814	9.398214571	5.261472281	1.82×10^{-6}	8.71×10^{-4}	4.882562511
ID3	-0.86688273	9.452691201	-5.25383932	1.87×10^{-6}	8.71×10^{-4}	4.856060012
SLC2A3	0.734030116	13.56313260	5.205695983	2.25×10^{-6}	9.82×10^{-4}	4.689215562
SORL1	0.736262147	12.55465865	5.204287107	2.26×10^{-6}	9.82×10^{-4}	4.684341270
CPD	0.916716920	10.66014036	5.180313505	2.47×10^{-6}	1.03×10^{-3}	4.601472984

BAZ2B	0.893310135	11.11996452	5.175255467	2.52×10^{-6}	1.03×10^{-3}	4.584006913
CTSS	0.859844226	11.74359702	5.164217291	2.62×10^{-6}	1.04×10^{-3}	4.545912330
NDST1	0.585506379	8.758176245	5.081831164	3.57×10^{-6}	1.38×10^{-3}	4.262542475
AQP9	0.729013264	14.27312798	5.068395971	3.76×10^{-6}	1.41×10^{-3}	4.216495397
FBN2	0.530989795	8.627006366	5.046943459	4.07×10^{-6}	1.48×10^{-3}	4.143067554
KIAA0319L	0.615910105	9.466357510	5.020957933	4.48×10^{-6}	1.59×10^{-3}	4.054286353
CORO1C	0.785370683	10.19115123	4.992785207	4.98×10^{-6}	1.70×10^{-3}	3.958236232
ETS2	0.593576224	9.951922529	4.988832106	5.05×10^{-6}	1.70×10^{-3}	3.944775957
MYH9	0.737387802	13.18152184	4.973740200	5.34×10^{-6}	1.76×10^{-3}	3.893427299
STK3	0.648197628	9.026107069	4.963586870	5.54×10^{-6}	1.78×10^{-3}	3.858916752
PDK4	0.988033856	9.406609827	4.933809007	6.19×10^{-6}	1.94×10^{-3}	3.757868198
PACSIN2	0.608321475	12.49697803	4.900480735	7.00×10^{-6}	2.15×10^{-3}	3.645066717
SRPK1	0.794565511	11.02945376	4.878647340	7.58×10^{-6}	2.23×10^{-3}	3.571341940
RAB31	0.654196987	12.96857748	4.876463408	7.65×10^{-6}	2.23×10^{-3}	3.563975015
TNFSF13B	0.830729821	12.34466175	4.872551049	7.76×10^{-6}	2.23×10^{-3}	3.550781142
SESN3	0.770577174	10.86761066	4.858737702	8.16×10^{-6}	2.29×10^{-3}	3.504233165
NCOA1	0.613180926	11.02817569	4.833769181	8.94×10^{-6}	2.39×10^{-3}	3.420236396

APRT	-0.717696244	10.98022229	-4.832802177	8.97×10^{-6}	2.39×10^{-3}	3.416986991
ADM	0.826411588	12.41296681	4.802760107	1.00×10^{-5}	2.55×10^{-3}	3.316175813
CTTN	0.505405670	8.480643316	4.798602531	1.02×10^{-5}	2.55×10^{-3}	3.302245673
HAL	0.827414038	10.28858791	4.797273922	1.02×10^{-5}	2.55×10^{-3}	3.297795210
TSEN34	0.703117816	12.80431714	4.769687624	1.13×10^{-5}	2.73×10^{-3}	3.205509888
MGAM	0.715429106	8.948014969	4.769118778	1.13×10^{-5}	2.73×10^{-3}	3.203609348
F5	0.708004488	9.353072876	4.763985059	1.15×10^{-5}	2.73×10^{-3}	3.186461873
LILRB3	0.672497097	13.70732475	4.753519189	1.20×10^{-5}	2.75×10^{-3}	3.151529226
NPL	0.702474525	11.50605667	4.750384494	1.21×10^{-5}	2.75×10^{-3}	3.141072915
IQGAP1	1.016718296	10.94951288	4.747919754	1.22×10^{-5}	2.75×10^{-3}	3.132853489
RASSF2	0.708409228	12.15511445	4.742533800	1.25×10^{-5}	2.76×10^{-3}	3.114898939
SDCBP	0.817769129	12.4825562	4.737621532	1.27×10^{-5}	2.76×10^{-3}	3.098531316
CLEC4D	0.743928223	8.732373497	4.724470895	1.33×10^{-5}	2.85×10^{-3}	3.054750583
DUSP1	0.745437990	13.44982708	4.710591917	1.40×10^{-5}	2.92×10^{-3}	3.008603893
CXCL16	0.730812535	11.54207232	4.709697257	1.41×10^{-5}	2.92×10^{-3}	3.005631290
FLT3LG	-0.761447712	9.430981270	-4.689615948	1.51×10^{-5}	3.09×10^{-3}	2.938975750
ALOX5	0.641737969	13.99088462	4.678393263	1.57×10^{-5}	3.14×10^{-3}	2.901780469

BASP1	0.754481300	14.12745788	4.674754926	1.60×10^{-5}	3.14×10^{-3}	2.889730618
NUMB	0.719144285	12.51264575	4.672367570	1.61×10^{-5}	3.14×10^{-3}	2.881826215
MTMR3	0.685135723	11.30579423	4.669244449	1.63×10^{-5}	3.14×10^{-3}	2.871488510
PAK1	0.562378454	10.78732363	4.643631600	1.78×10^{-5}	3.33×10^{-3}	2.786827669
NDEL1	0.642217198	13.05688525	4.641365822	1.80×10^{-5}	3.33×10^{-3}	2.779348632
SLC22A4	0.789594032	10.33568327	4.638682883	1.82×10^{-5}	3.33×10^{-3}	2.770494771
CYBRD1	0.759022034	10.40153883	4.634679558	1.84×10^{-5}	3.33×10^{-3}	2.757287941
F13A1	0.745247123	10.07221366	4.631096664	1.87×10^{-5}	3.33×10^{-3}	2.745472561
DOCK8	0.850862010	11.38647517	4.629358160	1.88×10^{-5}	3.33×10^{-3}	2.739740978
ATP6V1B2	0.583043457	13.95914176	4.626348999	1.90×10^{-5}	3.33×10^{-3}	2.729822589
IRS2	0.786329912	9.974554859	4.609332763	2.02×10^{-5}	3.49×10^{-3}	2.673792242
IRAK3	0.821434265	10.21580921	4.596576113	2.11×10^{-5}	3.61×10^{-3}	2.631850744
ST6GALNAC6	-0.521226586	9.234497596	-4.586464928	2.19×10^{-5}	3.70×10^{-3}	2.598645684
NCR3	-0.668693804	9.122589453	-4.582840301	2.22×10^{-5}	3.70×10^{-3}	2.586750794
HECW2	0.655742088	8.637622001	4.571698603	2.31×10^{-5}	3.80×10^{-3}	2.550214956
HMGCR	0.666128716	10.31688840	4.564702683	2.37×10^{-5}	3.81×10^{-3}	2.527295409
B4GALT5	0.794467976	11.52828427	4.564145978	2.37×10^{-5}	3.81×10^{-3}	2.525472283

RBP7	0.759158117	10.15884596	4.552771638	2.47×10^{-5}	3.93×10^{-3}	2.488246129
GAA	0.529268808	9.116818025	4.548651578	2.51×10^{-5}	3.94×10^{-3}	2.474772814
MFGE8	-0.700665648	9.708926972	-4.537910639	2.61×10^{-5}	4.05×10^{-3}	2.439675416
THBS1	0.667688579	8.561252517	4.528568764	2.70×10^{-5}	4.09×10^{-3}	2.409181912
STAT3	0.562305299	11.76556291	4.528325929	2.70×10^{-5}	4.09×10^{-3}	2.408389658
PPP4R1	0.849001996	11.37634296	4.514995172	2.83×10^{-5}	4.24×10^{-3}	2.364929148
MANSC1	0.739709561	9.318278125	4.489867225	3.10×10^{-5}	4.50×10^{-3}	2.283176260
CEBPD	0.710763132	13.17400579	4.489402151	3.10×10^{-5}	4.50×10^{-3}	2.281665244
ACTN1	0.704886041	12.86627320	4.482370894	3.18×10^{-5}	4.56×10^{-3}	2.258830153
ERGIC1	0.770558921	11.30831173	4.453590176	3.52×10^{-5}	5.00×10^{-3}	2.165543088
CD6	-0.919591634	11.39679330	-4.436585016	3.74×10^{-5}	5.16×10^{-3}	2.110563403
PASK	-0.70161005	9.191122829	-4.431693909	3.80×10^{-5}	5.16×10^{-3}	2.094769181
TAOK1	0.753740884	8.993877579	4.429693709	3.83×10^{-5}	5.16×10^{-3}	2.088312686
REPS2	0.553765280	8.986354630	4.428218872	3.85×10^{-5}	5.16×10^{-3}	2.083552950
P2RX1	0.511016456	9.283029742	4.415204077	4.03×10^{-5}	5.28×10^{-3}	2.041584609
ITPK1	0.612417362	10.05798245	4.413700070	4.05×10^{-5}	5.28×10^{-3}	2.036738668
ARID3A	0.583965088	10.94660664	4.407651522	4.14×10^{-5}	5.32×10^{-3}	2.017258462

SUSD3	-0.653036244	10.21965670	-4.403962702	4.19×10^{-5}	5.32×10^{-3}	2.005384667
CTNNA1	0.605471988	9.785722930	4.402117881	4.22×10^{-5}	5.32×10^{-3}	1.999448320
HSDL2	0.711626169	9.787297372	4.385463017	4.48×10^{-5}	5.54×10^{-3}	1.945912201
SERPINA1	0.606078252	13.60662031	4.375982793	4.63×10^{-5}	5.61×10^{-3}	1.915484321
MXD1	0.679532056	13.13022723	4.374395822	4.65×10^{-5}	5.61×10^{-3}	1.910394010
CD8B	-0.609911836	8.434255745	-4.350497381	5.06×10^{-5}	6.04×10^{-3}	1.833851830
MTPN	0.612706330	13.35449518	4.343688446	5.18×10^{-5}	6.14×10^{-3}	1.812083285
CCR7	-1.070948334	11.79663556	-4.33583909	5.33×10^{-5}	6.25×10^{-3}	1.787010146
VASP	0.819836241	9.925740703	4.330450142	5.43×10^{-5}	6.26×10^{-3}	1.769809759
MAL	-0.932641898	12.25648143	-4.324677653	5.54×10^{-5}	6.33×10^{-3}	1.751397407
ATP6V1A	0.664397103	12.29568772	4.321221183	5.61×10^{-5}	6.36×10^{-3}	1.740378464
STOM	0.677098736	11.50466540	4.313680205	5.76×10^{-5}	6.42×10^{-3}	1.716354236
PYGL	0.935428338	11.49328495	4.304639533	5.94×10^{-5}	6.57×10^{-3}	1.687580899
CLEC4E	0.657019551	8.848400105	4.297062930	6.10×10^{-5}	6.69×10^{-3}	1.663491331
RNF13	0.754682058	10.68853738	4.293063827	6.19×10^{-5}	6.73×10^{-3}	1.650785220
EIF2AK2	0.879163186	11.56191973	4.283767603	6.39×10^{-5}	6.90×10^{-3}	1.621272732
GCA	0.682486168	14.09136897	4.273078574	6.63×10^{-5}	7.10×10^{-3}	1.587379913

IL7R	-0.851333842	12.57256865	-4.233812318	7.60×10^{-5}	8.01×10^{-3}	1.463257571
CREG1	0.556562874	10.93187287	4.227470968	7.77×10^{-5}	8.12×10^{-3}	1.443269271
GNS	0.643212950	13.0757992	4.217330125	8.05×10^{-5}	8.35×10^{-3}	1.411337945
SNURF	-0.725375373	10.54728302	-4.206554385	8.35×10^{-5}	8.49×10^{-3}	1.377452416
ECHDC3	0.803391267	9.195415366	4.205773820	8.37×10^{-5}	8.49×10^{-3}	1.374999646
ABHD5	0.782595765	10.28431352	4.197392316	8.62×10^{-5}	8.68×10^{-3}	1.348677847
VEGFB	-0.703636161	11.02184008	-4.194764033	8.70×10^{-5}	8.69×10^{-3}	1.340429638
ITGA2B	0.538378677	8.434126105	4.189771651	8.85×10^{-5}	8.74×10^{-3}	1.324769961
TBXAS1	0.510177465	11.55314093	4.186806386	8.94×10^{-5}	8.74×10^{-3}	1.315473533
CD96	-0.726909569	10.08592960	-4.17829026	9.20×10^{-5}	8.91×10^{-3}	1.288794322
HIP1	0.501854846	8.737991581	4.177136150	9.24×10^{-5}	8.91×10^{-3}	1.285181002
ITGAM	0.745889075	11.03684166	4.164267447	9.66×10^{-5}	9.21×10^{-3}	1.244927989
VPREB3	-0.951895663	9.172800544	-4.163232822	9.69×10^{-5}	9.21×10^{-3}	1.241694635
ZNF337	-0.675543103	9.753698169	-4.156411601	9.92×10^{-5}	9.36×10^{-3}	1.220388276
TLR2	0.628105845	8.959213908	4.144295126	1.03×10^{-4}	9.38×10^{-3}	1.182588991
ITK	-0.807013633	11.25601337	-4.144193675	1.03×10^{-4}	9.38×10^{-3}	1.182272752
RPS15	-0.502347777	14.49812513	-4.143220606	1.04×10^{-4}	9.38×10^{-3}	1.179239766

STX2	-0.699725387	9.419590750	-4.142617824	1.04×10^{-4}	9.38×10^{-3}	1.177361132
NT5C2	0.744904275	11.68280968	4.141801928	1.04×10^{-4}	9.38×10^{-3}	1.174818545
ABCA1	0.852319744	10.97058563	4.137227249	1.06×10^{-4}	9.47×10^{-3}	1.160567503
DSC2	0.773169539	9.838781567	4.135116727	1.07×10^{-4}	9.47×10^{-3}	1.153995713
TMEM91	0.634004948	11.39348416	4.130594948	1.08×10^{-4}	9.50×10^{-3}	1.139921900
EVL	-0.715562616	12.29742633	-4.108664636	1.17×10^{-4}	9.91×10^{-3}	1.071785269
LRRFIP1	0.759566083	12.61637356	4.108612307	1.17×10^{-4}	9.91×10^{-3}	1.071622923
ANKRD22	0.744159626	8.771170977	4.103643928	1.19×10^{-4}	1.00×10^{-2}	1.056214331
BIRC2	0.722663272	11.18712878	4.100818677	1.20×10^{-4}	1.01×10^{-2}	1.047456896
PJA2	0.707324502	12.41447342	4.084885925	1.27×10^{-4}	1.06×10^{-2}	0.998132900
NFIL3	0.757529878	9.921038544	4.078323670	1.30×10^{-4}	1.07×10^{-2}	0.977848837
FOLR3	1.077168812	11.49517146	4.074779058	1.31×10^{-4}	1.07×10^{-2}	0.966899952
PREX1	0.607908552	9.749016217	4.073018041	1.32×10^{-4}	1.07×10^{-2}	0.961462358
ARHGAP9	0.613248758	13.27244276	4.071912059	1.32×10^{-4}	1.07×10^{-2}	0.958048025
MT1X	-0.641432961	10.56494161	-4.070806746	1.33×10^{-4}	1.07×10^{-2}	0.954636275
S100A12	1.230167668	13.02283695	4.067171092	1.35×10^{-4}	1.07×10^{-2}	0.943417836
ECHDC2	-0.783780395	10.86752609	-4.059394784	1.38×10^{-4}	1.09×10^{-2}	0.919441566

VCL	0.600381300	12.44172599	4.058201765	1.39×10^{-4}	1.09×10^{-2}	0.915765477
TRIB1	0.591517385	10.80842557	4.044507382	1.45×10^{-4}	1.11×10^{-2}	0.873612091
ABTB1	0.589945556	12.42443191	4.044398321	1.45×10^{-4}	1.11×10^{-2}	0.873276707
CRIP2	-0.531173121	8.341980742	-4.036961686	1.49×10^{-4}	1.14×10^{-2}	0.850419667
AXIN2	-0.675591681	8.668162981	-4.03438197	1.50×10^{-4}	1.14×10^{-2}	0.842496281
ANPEP	0.579865663	10.67498298	4.030287070	1.52×10^{-4}	1.14×10^{-2}	0.829925022
GIMAP5	-0.697981733	11.69262762	-4.027050045	1.54×10^{-4}	1.14×10^{-2}	0.819992549
ICAM2	-0.583074444	12.08920588	-4.023979204	1.56×10^{-4}	1.14×10^{-2}	0.810574177
SLC16A3	0.583722881	12.62895397	4.016267648	1.60×10^{-4}	1.16×10^{-2}	0.786940597
KLHL3	-0.600523551	9.121320998	-4.015450151	1.60×10^{-4}	1.16×10^{-2}	0.784436726
LMNB1	0.611682680	9.644592852	4.013182329	1.62×10^{-4}	1.16×10^{-2}	0.777492257
TLE4	0.631554540	10.92947460	4.013166753	1.62×10^{-4}	1.16×10^{-2}	0.777444567
MCEMP1	0.926548500	11.37859780	4.005370661	1.66×10^{-4}	1.18×10^{-2}	0.753588683
NUP214	0.569345853	12.76505000	4.001863835	1.68×10^{-4}	1.19×10^{-2}	0.742866507
CD14	0.542008082	14.57138408	3.987180455	1.76×10^{-4}	1.23×10^{-2}	0.698030274
APBB1IP	0.572053250	12.24035624	3.985355818	1.77×10^{-4}	1.23×10^{-2}	0.692465286
SH3GLB1	0.597999777	11.63978592	3.983902649	1.78×10^{-4}	1.23×10^{-2}	0.688034293

CYP1B1	0.881390669	9.982442182	3.980997107	1.80×10^{-4}	1.23×10^{-2}	0.679177516
UBR2	0.552456738	10.5277304	3.980827728	1.80×10^{-4}	1.23×10^{-2}	0.678661324
SIGLEC5	0.646227210	9.690175101	3.979951500	1.81×10^{-4}	1.23×10^{-2}	0.675991172
DPYD	0.808793434	9.904453391	3.976379702	1.83×10^{-4}	1.23×10^{-2}	0.665110237
RALBP1	0.555729410	10.24953316	3.976046321	1.83×10^{-4}	1.23×10^{-2}	0.664094931
TNFRSF4	-0.560227809	9.199197807	-3.97275922	1.85×10^{-4}	1.23×10^{-2}	0.654086740
PRAM1	0.595335557	10.07749995	3.969866106	1.87×10^{-4}	1.24×10^{-2}	0.645282070
LILRB2	0.622824624	11.53150578	3.962543922	1.91×10^{-4}	1.26×10^{-2}	0.623014887
CD3D	-0.834318687	12.7802033	-3.960567255	1.93×10^{-4}	1.26×10^{-2}	0.617007807
SELL	0.589864532	13.50320198	3.956594289	1.95×10^{-4}	1.27×10^{-2}	0.604939236
WAS	0.532603634	13.44754353	3.949259572	2.00×10^{-4}	1.29×10^{-2}	0.582677226
BCAS4	-0.610567213	9.316271931	-3.949148186	2.00×10^{-4}	1.29×10^{-2}	0.582339335
FCGR1A	0.748027728	9.45999958	3.947174613	2.02×10^{-4}	1.29×10^{-2}	0.576353430
CTBS	0.665185245	11.79689975	3.940829617	2.06×10^{-4}	1.31×10^{-2}	0.557120656
MTF1	0.534117005	10.18848833	3.912548800	2.26×10^{-4}	1.41×10^{-2}	0.471616548
SLC25A42	-0.614787389	10.37174491	-3.911466702	2.27×10^{-4}	1.41×10^{-2}	0.468352108
SIAH2	0.539841009	10.05354723	3.905535823	2.32×10^{-4}	1.42×10^{-2}	0.450469436

PTEN	0.573807080	11.50332695	3.898138289	2.37×10^{-4}	1.44×10^{-2}	0.428186928
RYBP	0.528423831	11.74045857	3.884256196	2.49×10^{-4}	1.50×10^{-2}	0.386439272
LY9	-0.718019984	9.535456446	-3.881111526	2.51×10^{-4}	1.50×10^{-2}	0.376994543
PLXNC1	0.593721210	9.478013108	3.880821021	2.51×10^{-4}	1.50×10^{-2}	0.376122266
OSCAR	0.548400685	10.18880829	3.867275532	2.63×10^{-4}	1.56×10^{-2}	0.335493341
SLC22A15	0.551680365	9.249239798	3.860092458	2.69×10^{-4}	1.59×10^{-2}	0.313982417
PGD	0.604049725	12.40950954	3.855173523	2.74×10^{-4}	1.60×10^{-2}	0.299265598
PTAFR	0.506257979	9.664804667	3.849028191	2.79×10^{-4}	1.62×10^{-2}	0.280895306
BAZ1A	0.695030922	11.12836568	3.848675499	2.80×10^{-4}	1.62×10^{-2}	0.279841533
PELI2	0.523414384	10.17822713	3.847060364	2.81×10^{-4}	1.62×10^{-2}	0.275016571
TLR4	0.608470691	10.08513134	3.844288134	2.84×10^{-4}	1.63×10^{-2}	0.266737797
XK	0.654257254	8.782982523	3.820674234	3.07×10^{-4}	1.72×10^{-2}	0.196364387
LY96	1.105776610	12.48146277	3.816421517	3.11×10^{-4}	1.73×10^{-2}	0.183718326
TIMP2	0.555990054	11.28732099	3.811279393	3.16×10^{-4}	1.76×10^{-2}	0.168438847
TGM3	0.530718700	9.015260935	3.803175718	3.25×10^{-4}	1.79×10^{-2}	0.144384617
FAM102A	-0.657047729	10.1545936	-3.802700859	3.25×10^{-4}	1.79×10^{-2}	0.142976049
PRCP	0.521108685	12.92564252	3.798622457	3.30×10^{-4}	1.81×10^{-2}	0.130882737

IGF2BP2	0.701030412	10.43070156	3.795387751	3.33×10^{-4}	1.82×10^{-2}	0.121296760
ACSL1	1.081345352	12.26603832	3.788414631	3.41×10^{-4}	1.83×10^{-2}	0.100648959
PLOD1	0.563014637	10.83059083	3.787354297	3.42×10^{-4}	1.83×10^{-2}	0.097511274
WSB1	0.692789777	10.83923317	3.786932135	3.43×10^{-4}	1.83×10^{-2}	0.096262181
SLC40A1	0.657957057	11.08945481	3.784165810	3.46×10^{-4}	1.83×10^{-2}	0.088079290
PAK2	0.580688966	10.83788437	3.783929428	3.46×10^{-4}	1.83×10^{-2}	0.087380233
AHCTF1	0.549606248	9.679971091	3.783899287	3.46×10^{-4}	1.83×10^{-2}	0.087291099
PGLYRP1	0.769526315	10.98820217	3.782115056	3.48×10^{-4}	1.83×10^{-2}	0.082015435
JMJD1C	0.734612344	11.07165236	3.778774577	3.52×10^{-4}	1.85×10^{-2}	0.072142298
SH3BGRL2	0.611657714	9.378795091	3.771804670	3.60×10^{-4}	1.87×10^{-2}	0.051559155
ORM1	1.161483118	10.08948353	3.770803558	3.61×10^{-4}	1.87×10^{-2}	0.048604634
ROPN1L	0.531580819	9.780983107	3.770096442	3.62×10^{-4}	1.87×10^{-2}	0.046518056
MAN2A2	0.512537538	9.558128166	3.769497936	3.63×10^{-4}	1.87×10^{-2}	0.044752153
MFSD1	0.623459874	11.59909818	3.765745168	3.67×10^{-4}	1.88×10^{-2}	0.033683456
ICOS	-0.592061079	9.349651597	-3.75498123	3.80×10^{-4}	1.92×10^{-2}	0.001972983
TM9SF2	0.673718183	11.77216932	3.752131986	3.84×10^{-4}	1.92×10^{-2}	-0.006411537
SSH2	0.541930094	12.04625025	3.741773866	3.97×10^{-4}	1.97×10^{-2}	-0.036859558

SORT1	0.524620358	9.297101812	3.735045944	4.06×10^{-4}	2.00×10^{-2}	-0.056608695
CEACAM1	0.575898332	9.847045571	3.728259541	4.15×10^{-4}	2.03×10^{-2}	-0.076507249
TLR8	0.616469419	10.82622656	3.725976646	4.18×10^{-4}	2.03×10^{-2}	-0.083195941
GPR18	-0.648191365	9.613920332	-3.725774785	4.18×10^{-4}	2.03×10^{-2}	-0.083787255
IL32	-0.751504226	11.08618797	-3.723781593	4.21×10^{-4}	2.03×10^{-2}	-0.089624871
CD55	0.792438601	11.63153388	3.721632538	4.24×10^{-4}	2.04×10^{-2}	-0.095916809
ALPK1	0.584247929	10.39835485	3.715924480	4.32×10^{-4}	2.07×10^{-2}	-0.112617743
TPST1	0.786635404	8.986096996	3.710220892	4.40×10^{-4}	2.10×10^{-2}	-0.129289693
SKAP2	0.895931374	10.21958951	3.695677447	4.61×10^{-4}	2.17×10^{-2}	-0.171728940
TSPAN9	0.501792016	9.124731723	3.687780065	4.73×10^{-4}	2.19×10^{-2}	-0.194730708
MAP3K2	0.738737166	10.14236349	3.679062676	4.86×10^{-4}	2.25×10^{-2}	-0.220085050
HLA-DQB1	-0.885879496	9.193510204	-3.674758424	4.93×10^{-4}	2.27×10^{-2}	-0.232589999
BANF1	-0.615422465	11.17214091	-3.671212409	4.99×10^{-4}	2.27×10^{-2}	-0.242885173
TRIB2	-0.605759767	9.689693072	-3.665767936	5.08×10^{-4}	2.30×10^{-2}	-0.258679989
BCL11B	-0.737988531	10.27618934	-3.663348957	5.12×10^{-4}	2.30×10^{-2}	-0.265692893
NPEPPS	0.501503734	10.23836188	3.6590900810	5.19×10^{-4}	2.30×10^{-2}	-0.278032787
TCN1	0.748159542	9.733649963	3.656471578	5.23×10^{-4}	2.30×10^{-2}	-0.285615284

HSPA1A	0.869551973	12.31988413	3.655562531	5.24×10^{-4}	2.30×10^{-2}	-0.288246843
NELL2	-0.801162946	9.769262597	-3.654116289	5.27×10^{-4}	2.30×10^{-2}	-0.292432655
TCEA3	-0.599754387	9.027066357	-3.651325565	5.32×10^{-4}	2.31×10^{-2}	-0.300506801
PHF21A	0.546848380	12.26535142	3.6370113300	5.57×10^{-4}	2.40×10^{-2}	-0.341859510
UBASH3A	-0.55780803	9.418395788	-3.634344675	5.61×10^{-4}	2.41×10^{-2}	-0.349551894
SNRK	0.613139367	12.22053817	3.624338927	5.80×10^{-4}	2.48×10^{-2}	-0.378383081
KPNB1	0.577223432	12.98598738	3.621333155	5.85×10^{-4}	2.50×10^{-2}	-0.387034226
RAB32	0.518172278	11.52654880	3.616468179	5.94×10^{-4}	2.52×10^{-2}	-0.401026798
E2F3	0.611764230	10.85128192	3.610720480	6.05×10^{-4}	2.54×10^{-2}	-0.417542783
KRT10	-0.588531565	10.50700755	-3.604111424	6.18×10^{-4}	2.56×10^{-2}	-0.436513128
OSBPL8	0.580463748	9.585979976	3.603375043	6.20×10^{-4}	2.56×10^{-2}	-0.438625428
ITPR3	-0.733575257	10.55728577	-3.602052315	6.22×10^{-4}	2.56×10^{-2}	-0.442418963
SERPINB1	0.541277656	11.98139995	3.601569105	6.23×10^{-4}	2.56×10^{-2}	-0.443804571
SLC11A1	0.815784850	13.01140674	3.586044498	6.55×10^{-4}	2.66×10^{-2}	-0.488257986
STX11	0.615640460	11.86577379	3.585678566	6.56×10^{-4}	2.66×10^{-2}	-0.489304316
BIN1	-0.632129371	10.80490103	-3.575639618	6.77×10^{-4}	2.73×10^{-2}	-0.517982402
CD79B	-0.797301438	11.74653300	-3.56126316	7.09×10^{-4}	2.83×10^{-2}	-0.558961044

KCNJ2	0.531403251	10.91973748	3.561107300	7.09×10^{-4}	2.83×10^{-2}	-0.559404723
ANKRD33	0.614712221	9.948336100	3.560142783	7.11×10^{-4}	2.83×10^{-2}	-0.562150084
HK3	0.579692748	10.97421931	3.546191885	7.43×10^{-4}	2.93×10^{-2}	-0.601805439
TIMM22	-0.546177428	10.33038405	-3.54439159	7.47×10^{-4}	2.94×10^{-2}	-0.606915411
FKBP5	0.807399148	10.96828881	3.530691364	7.80×10^{-4}	3.01×10^{-2}	-0.645746908
ZNF548	-0.551037393	8.930712206	-3.528326902	7.86×10^{-4}	3.02×10^{-2}	-0.652438752
LEF1	-0.758480512	11.00379102	-3.528137554	7.87×10^{-4}	3.02×10^{-2}	-0.652974513
LIME1	-0.663652921	12.31493043	-3.519866087	8.07×10^{-4}	3.07×10^{-2}	-0.676360373
GAB2	0.545299220	10.45407265	3.516803551	8.15×10^{-4}	3.09×10^{-2}	-0.685009959
PFKFB4	0.546237041	12.15378511	3.508883029	8.36×10^{-4}	3.13×10^{-2}	-0.707357195
SAP30	0.755354659	9.714949992	3.508476972	8.37×10^{-4}	3.13×10^{-2}	-0.708501968
CD79A	-0.744156904	9.153110785	-3.502708357	8.52×10^{-4}	3.17×10^{-2}	-0.724755712
APAF1	0.622568149	11.58441989	3.499382039	8.61×10^{-4}	3.19×10^{-2}	-0.734120014
FPR1	0.537905350	14.15845289	3.496795772	8.68×10^{-4}	3.20×10^{-2}	-0.741396874
HBM	0.637978550	13.32613913	3.493550092	8.77×10^{-4}	3.21×10^{-2}	-0.750524089
TFDP1	0.519966636	10.58713668	3.486089376	8.98×10^{-4}	3.25×10^{-2}	-0.771483291
CDA	0.580040439	11.18770347	3.484857091	9.01×10^{-4}	3.25×10^{-2}	-0.774942276

RPL3	-0.669276857	14.22617940	-3.484673732	9.02×10^{-4}	3.25×10^{-2}	-0.775456889
PTPRCAP	-0.775584387	10.60824047	-3.482937784	9.07×10^{-4}	3.25×10^{-2}	-0.780328103
RAB3IP	-0.502832822	9.896296476	-3.482791135	9.07×10^{-4}	3.25×10^{-2}	-0.780739539
MCL1	0.617071671	12.76297854	3.470444276	9.43×10^{-4}	3.36×10^{-2}	-0.815338612
FOS	0.629559023	10.41969758	3.465997496	9.56×10^{-4}	3.38×10^{-2}	-0.827779719
MAFB	0.633636057	10.49096756	3.465335629	9.58×10^{-4}	3.38×10^{-2}	-0.829630573
CDR2	-0.559764678	9.647238764	-3.465296435	9.58×10^{-4}	3.38×10^{-2}	-0.829740167
ADA	-0.539734103	9.873420958	-3.464072517	9.62×10^{-4}	3.38×10^{-2}	-0.833162106
USP15	0.575368377	10.12392951	3.450658206	1.00×10^{-3}	3.50×10^{-2}	-0.870614410
TXN	0.543364029	12.39163167	3.447717742	1.01×10^{-3}	3.52×10^{-2}	-0.878811178
DEXI	-0.573719293	10.26636909	-3.444984555	1.02×10^{-3}	3.54×10^{-2}	-0.886425974
CD19	-0.73240579	9.232560779	-3.442877993	1.03×10^{-3}	3.54×10^{-2}	-0.892292213
TNFRSF1B	0.526075653	11.39716987	3.436711641	1.05×10^{-3}	3.60×10^{-2}	-0.909450186
UBE2G2	-0.549153811	9.690903616	-3.426786507	1.08×10^{-3}	3.69×10^{-2}	-0.937023882
PLEKHA1	-0.657631742	10.68792693	-3.420730422	1.10×10^{-3}	3.73×10^{-2}	-0.953822490
STXBP5	0.512064004	9.748952987	3.414788229	1.12×10^{-3}	3.78×10^{-2}	-0.970285821
SLAMF1	-0.590997004	9.182707692	-3.412638995	1.13×10^{-3}	3.79×10^{-2}	-0.976235721

PTGS1	0.513158288	9.755553602	3.407850997	1.14×10^{-3}	3.81×10^{-2}	-0.989481678
MX2	0.538188945	11.88748328	3.400787498	1.17×10^{-3}	3.89×10^{-2}	-1.008999950
TLR5	0.568807899	10.19797405	3.395476281	1.19×10^{-3}	3.92×10^{-2}	-1.023658251
SNRPF	-0.62900432	11.62261145	-3.392708951	1.20×10^{-3}	3.94×10^{-2}	-1.031289618
CD2	-0.692648316	12.08743742	-3.392066977	1.20×10^{-3}	3.94×10^{-2}	-1.033059367
MPP1	0.525559482	11.69750178	3.383661215	1.23×10^{-3}	4.01×10^{-2}	-1.056210909
SLC31A2	0.555300583	12.05336321	3.383199083	1.24×10^{-3}	4.01×10^{-2}	-1.057482607
HP	0.600047514	8.510285497	3.377475418	1.26×10^{-3}	4.06×10^{-2}	-1.073223304
LTA	-0.507086059	9.494721240	-3.376499478	1.26×10^{-3}	4.06×10^{-2}	-1.075905445
GPR160	0.595161439	9.218585625	3.369440584	1.29×10^{-3}	4.12×10^{-2}	-1.095289497
RNF10	0.518530338	10.29470400	3.362612401	1.32×10^{-3}	4.17×10^{-2}	-1.114013809
KLHL8	0.500976047	10.56567956	3.357445084	1.34×10^{-3}	4.21×10^{-2}	-1.128166514
HK2	0.850958881	9.633000951	3.338977691	1.41×10^{-3}	4.41×10^{-2}	-1.178625382
RNASEL	0.579371564	10.56856312	3.335922634	1.43×10^{-3}	4.43×10^{-2}	-1.186954462
G6PD	0.524565626	9.664007827	3.334364884	1.43×10^{-3}	4.43×10^{-2}	-1.191199389
NCF2	0.686199556	11.79204525	3.333278129	1.44×10^{-3}	4.43×10^{-2}	-1.194160030
TMEM71	0.512751737	12.74731282	3.323391416	1.48×10^{-3}	4.47×10^{-2}	-1.221064006

SPOCK2	-0.608293459	12.42610318	-3.319090607	1.50×10^{-3}	4.49×10^{-2}	-1.232750369
FCGR1B	0.679388793	10.50334914	3.318418269	1.51×10^{-3}	4.49×10^{-2}	-1.234576338
BEX2	-0.572599146	9.572822126	-3.316739298	1.51×10^{-3}	4.49×10^{-2}	-1.239135061
DYRK2	-0.631503982	11.67469829	-3.316236583	1.52×10^{-3}	4.49×10^{-2}	-1.240499720
EEF1G	-0.597939912	13.95641696	-3.315055299	1.52×10^{-3}	4.49×10^{-2}	-1.243705848
KLF12	-0.508911564	8.762043497	-3.309282281	1.55×10^{-3}	4.54×10^{-2}	-1.259363108
RPS4X	-0.640920636	13.68371163	-3.308779203	1.55×10^{-3}	4.54×10^{-2}	-1.260726641
CUTA	-0.581317922	11.80180266	-3.298888907	1.60×10^{-3}	4.59×10^{-2}	-1.287504062
GYG1	0.576045868	11.49528676	3.290359437	1.64×10^{-3}	4.69×10^{-2}	-1.310552691
ANXA3	0.771039911	8.952888281	3.284491447	1.67×10^{-3}	4.75×10^{-2}	-1.326385419
USP10	0.579438475	11.15228531	3.284442439	1.67×10^{-3}	4.75×10^{-2}	-1.326517568
PTGS2	0.634048298	11.04747211	3.281018060	1.69×10^{-3}	4.78×10^{-2}	-1.335747928
RALB	0.506347863	12.76588024	3.272783234	1.73×10^{-3}	4.84×10^{-2}	-1.357917440
NDUFA12	-0.529595446	11.34624052	-3.270135594	1.74×10^{-3}	4.86×10^{-2}	-1.365037111
VNN1	0.527088430	8.949546607	3.262644846	1.78×10^{-3}	4.94×10^{-2}	-1.385158508
NDUFS8	-0.525359369	11.30377264	-3.261196541	1.79×10^{-3}	4.94×10^{-2}	-1.389045195
CDC25B	-0.591407531	11.17144322	-3.254412975	1.83×10^{-3}	5.01×10^{-2}	-1.407233640

LRG1	0.597316538	11.09921136	3.250555708	1.85×10^{-3}	5.03×10^{-2}	-1.417564168
PCSK7	-0.549608021	10.26229492	-3.228250977	1.98×10^{-3}	5.27×10^{-2}	-1.477132664
CD58	0.654046772	10.68344116	3.218775782	2.03×10^{-3}	5.40×10^{-2}	-1.502350722
SIPA1L2	0.646586497	9.697462483	3.217934743	2.04×10^{-3}	5.41×10^{-2}	-1.504586616
HIGD2A	-0.550681803	11.91680773	-3.214377748	2.06×10^{-3}	5.42×10^{-2}	-1.514038310
KYNU	0.597906913	10.47531818	3.214191832	2.06×10^{-3}	5.42×10^{-2}	-1.514532125
ELOVL5	0.697733291	11.66879773	3.209185333	2.09×10^{-3}	5.45×10^{-2}	-1.527822449
IL18RAP	0.718031904	12.30407505	3.197661714	2.17×10^{-3}	5.52×10^{-2}	-1.558357714
LRP10	0.610862505	10.88194882	3.197222203	2.17×10^{-3}	5.52×10^{-2}	-1.559520796
SLC2A14	0.594543556	8.803628868	3.197129549	2.17×10^{-3}	5.52×10^{-2}	-1.559765973
IFNGR1	0.537262955	12.740170500	3.196920242	2.17×10^{-3}	5.52×10^{-2}	-1.560319812
GZMM	-0.640473643	9.721133072	-3.180034500	2.28×10^{-3}	5.70×10^{-2}	-1.604916008
SNRPN	-0.591413046	11.20069254	-3.179857061	2.28×10^{-3}	5.70×10^{-2}	-1.605383747
GNAI3	0.565972875	10.15247432	3.179809833	2.28×10^{-3}	5.70×10^{-2}	-1.605508239
PPP3CC	-0.575068778	9.535317094	-3.178427409	2.29×10^{-3}	5.71×10^{-2}	-1.609151709
OLFM4	0.983692357	9.037760722	3.162340404	2.41×10^{-3}	5.91×10^{-2}	-1.651467287
RNF24	0.523124106	11.18650364	3.156580918	2.45×10^{-3}	5.96×10^{-2}	-1.666580012

DNAJA3	-0.570248342	10.44818669	-3.154307832	2.46×10^{-3}	5.96×10^{-2}	-1.672539119
DCP2	0.539773046	11.70424764	3.152893636	2.47×10^{-3}	5.96×10^{-2}	-1.676245023
ALDH1A1	0.725241161	9.186603645	3.152829211	2.48×10^{-3}	5.96×10^{-2}	-1.676413820
CAPZA2	0.566017425	12.38902537	3.149169541	2.50×10^{-3}	6.01×10^{-2}	-1.685998345
NPTN	0.527746359	12.35544598	3.144091421	2.54×10^{-3}	6.08×10^{-2}	-1.699284566
SNX10	0.825447807	10.67207463	3.140509567	2.57×10^{-3}	6.11×10^{-2}	-1.708646788
MAP4K1	-0.561067219	10.37524318	-3.119413603	2.73×10^{-3}	6.36×10^{-2}	-1.763632074
CEACAM6	0.660131021	8.339562165	3.113130970	2.78×10^{-3}	6.44×10^{-2}	-1.779955919
PUS1	-0.513936340	10.48627474	-3.107049936	2.83×10^{-3}	6.53×10^{-2}	-1.795733397
EMILIN2	0.504703518	10.65608782	3.106209063	2.84×10^{-3}	6.54×10^{-2}	-1.797913327
SKAP1	-0.540133587	9.790059741	-3.101685513	2.88×10^{-3}	6.58×10^{-2}	-1.809633145
IFIT2	0.671682848	12.87039377	3.099470754	2.90×10^{-3}	6.61×10^{-2}	-1.815366749
RPSA	-0.540544521	15.00192307	-3.088850724	2.99×10^{-3}	6.75×10^{-2}	-1.842818949
F2RL1	0.609326020	9.823608160	3.080988912	3.06×10^{-3}	6.83×10^{-2}	-1.863097388
CD3E	-0.602926878	9.754132065	-3.072958927	3.13×10^{-3}	6.98×10^{-2}	-1.883770933
GZMK	-0.825087966	11.40827082	-3.068981104	3.16×10^{-3}	7.05×10^{-2}	-1.893997505
GRN	0.535750942	11.44078944	3.065837227	3.19×10^{-3}	7.09×10^{-2}	-1.902073279

CD46	0.535352541	12.08394434	3.050809930	3.34×10^{-3}	7.29×10^{-2}	-1.940591125
FCGR2A	0.636226045	12.18948590	3.030714903	3.54×10^{-3}	7.52×10^{-2}	-1.991882561
DEGS1	0.574533804	11.79324656	3.017418503	3.67×10^{-3}	7.68×10^{-2}	-2.025684362
RNF149	0.702288999	10.78561871	3.008176536	3.77×10^{-3}	7.78×10^{-2}	-2.049114751
ALDH2	0.510263257	10.15588934	3.004399094	3.81×10^{-3}	7.82×10^{-2}	-2.058676157
RTN3	0.880964975	10.87035354	2.996746044	3.90×10^{-3}	7.91×10^{-2}	-2.078020309
KLHL2	0.721194555	9.608155985	2.994135193	3.93×10^{-3}	7.93×10^{-2}	-2.084611273
FNBP4	-0.558312167	11.45896001	-2.99174063	3.95×10^{-3}	7.96×10^{-2}	-2.090652500
FCGR3B	1.155245803	12.25997843	2.981861149	4.07×10^{-3}	8.09×10^{-2}	-2.115539604
ZYX	0.514293361	10.81538552	2.977850162	4.11×10^{-3}	8.12×10^{-2}	-2.125626177
PLEKHF1	-0.530004378	10.25747363	-2.976672374	4.13×10^{-3}	8.12×10^{-2}	-2.128586092
FGR	0.505586237	12.16961993	2.976341624	4.13×10^{-3}	8.12×10^{-2}	-2.129417150
IL2RB	-0.648169401	11.02085239	-2.961285566	4.31×10^{-3}	8.37×10^{-2}	-2.167175091
MPO	0.535001474	8.491599276	2.960183104	4.33×10^{-3}	8.38×10^{-2}	-2.169934283
FBL	-0.569803272	11.48797184	-2.958391420	4.35×10^{-3}	8.39×10^{-2}	-2.174416801
IFRD1	0.630839160	10.26078713	2.953553039	4.41×10^{-3}	8.49×10^{-2}	-2.186511598
KBTBD7	0.700187986	9.946022511	2.946288942	4.50×10^{-3}	8.54×10^{-2}	-2.204642421

CEACAM8	0.845016021	9.077506316	2.944039827	4.53×10^{-3}	8.57×10^{-2}	-2.210249354
LILRA3	0.676039830	12.00178807	2.941860833	4.56×10^{-3}	8.59×10^{-2}	-2.215678431
CHSY1	0.544803113	11.27136277	2.936378821	4.63×10^{-3}	8.66×10^{-2}	-2.229323882
CD1D	0.535561890	10.09155223	2.922544372	4.81×10^{-3}	8.91×10^{-2}	-2.263675028
SERINC1	0.557664054	10.07695803	2.920430504	4.84×10^{-3}	8.91×10^{-2}	-2.268913096
BNIP3L	0.922405427	9.677605035	2.916184530	4.90×10^{-3}	8.91×10^{-2}	-2.279425843
PARP9	0.675678729	9.344892312	2.916116387	4.90×10^{-3}	8.91×10^{-2}	-2.279594465
KLF4	0.553345790	9.534695859	2.910048789	4.99×10^{-3}	8.99×10^{-2}	-2.294597248
HIF1A	0.904031953	9.795312771	2.898696368	5.15×10^{-3}	9.17×10^{-2}	-2.322604238
ARPC5	0.588527731	13.66818103	2.895064614	5.20×10^{-3}	9.23×10^{-2}	-2.331546562
RPL13A	-0.586093343	12.69125001	-2.894231309	5.21×10^{-3}	9.23×10^{-2}	-2.333597185
CD247	-0.593283173	13.38254244	-2.893226773	5.23×10^{-3}	9.23×10^{-2}	-2.336068590
APOBEC3A	1.143514167	10.52699839	2.884315077	5.36×10^{-3}	9.33×10^{-2}	-2.357965194
CA1	0.768110982	10.71515644	2.881738836	5.40×10^{-3}	9.36×10^{-2}	-2.364285684
RPAIN	-0.526542779	11.17831747	-2.880388631	5.42×10^{-3}	9.37×10^{-2}	-2.367596541
LGALS2	0.541274967	9.264333514	2.879623873	5.43×10^{-3}	9.37×10^{-2}	-2.369471295
JAZF1	0.50426168	9.969274884	2.872536258	5.54×10^{-3}	9.50×10^{-2}	-2.386828211

HLA-DOB	-0.564954764	9.439658005	-2.869803271	5.58×10^{-3}	9.52×10^{-2}	-2.393512400
CYBB	0.506134205	10.86458424	2.869540457	5.59×10^{-3}	9.52×10^{-2}	-2.394154922
ITGB7	-0.514799763	10.76859133	-2.86493482	5.66×10^{-3}	9.56×10^{-2}	-2.405407448
ABLIM1	-0.532583787	11.04588029	-2.864726768	5.66×10^{-3}	9.56×10^{-2}	-2.405915439
CD7	-0.503256017	11.45088991	-2.833849982	6.17×10^{-3}	1.00×10^{-1}	-2.480994988
HDAC4	0.634232893	9.803953593	2.832950370	6.18×10^{-3}	1.00×10^{-1}	-2.483173185
ALPL	0.610024002	13.19972068	2.827260525	6.28×10^{-3}	1.01×10^{-1}	-2.496937571
PSG9	0.523416660	9.118818903	2.824703720	6.33×10^{-3}	1.01×10^{-1}	-2.503115894
CYP27A1	0.500648046	10.50205713	2.819070156	6.43×10^{-3}	1.02×10^{-1}	-2.516713897
B3GNT5	0.517611221	8.296045122	2.817592225	$6.45\times10^{-}$	1.02×10^{-1}	-2.520277811
GOLGA8B	-0.637166471	11.37021656	-2.809246306	6.60×10^{-3}	1.03×10^{-1}	-2.540376497
RGS18	0.616985759	12.29950949	2.800443594	6.77×10^{-3}	1.05×10^{-1}	-2.561525714
DUSP6	0.739607436	11.07834836	2.796132848	6.85×10^{-3}	1.05×10^{-1}	-2.571864044
S100A11	0.582810409	12.87235341	2.793256421	6.90×10^{-3}	1.06×10^{-1}	-2.578755687
PPBP	0.773773448	10.95230936	2.784207672	7.07×10^{-3}	1.07×10^{-1}	-2.600400045
CLC	-0.686850305	13.06564912	-2.769883539	7.36×10^{-3}	1.10×10^{-1}	-2.634552340
KLRB1	-0.606491109	12.66852025	-2.769264193	7.37×10^{-3}	1.10×10^{-1}	-2.636025949

CD52	-0.509904777	14.04965056	-2.75801895	7.60×10^{-3}	1.11×10^{-1}	-2.662737459
MBNL3	0.543991041	9.154172843	2.750087095	7.76×10^{-3}	1.13×10^{-1}	-2.681527888
CD3G	-0.529851087	9.703681659	-2.749967566	7.77×10^{-3}	1.13×10^{-1}	-2.681810730
ZFP36L1	0.874638620	12.21461533	2.749388081	7.78×10^{-3}	1.13×10^{-1}	-2.683181829
BPI	0.527075167	8.597301058	2.749049320	7.79×10^{-3}	1.13×10^{-1}	-2.683983257
CLIP1	0.534750628	10.56371020	2.747819911	7.81×10^{-3}	1.13×10^{-1}	-2.686891102
MTMR6	0.614003877	10.02673675	2.740732041	7.96×10^{-3}	1.15×10^{-1}	-2.703635928
GLRX	0.526729066	11.79240083	2.734647485	8.10×10^{-3}	1.16×10^{-1}	-2.717983675
NRGN	0.564695544	10.88120716	2.730680510	8.18×10^{-3}	1.17×10^{-1}	-2.727324693
NKG7	-0.589135234	13.58608363	-2.727297225	8.26×10^{-3}	1.17×10^{-1}	-2.735282965
MEGF9	0.699684171	9.579070400	2.726572425	8.28×10^{-3}	1.17×10^{-1}	-2.736986865
CREB1	0.518339197	12.67378994	2.725578407	8.30×10^{-3}	1.17×10^{-1}	-2.739323082
DHRS9	0.586094146	11.46934538	2.714177947	8.56×10^{-3}	1.20×10^{-1}	-2.766069861
SEMA3E	0.562563737	11.8550451	2.706317031	8.74×10^{-3}	1.21×10^{-1}	-2.784461513
SLAMF6	-0.540019499	11.68092604	-2.705730387	8.75×10^{-3}	1.21×10^{-1}	-2.785832374
DGAT2	0.531467314	9.434640900	2.703672146	8.80×10^{-3}	1.22×10^{-1}	-2.790640200
P2RY10	-0.510438681	9.452767581	-2.668522759	9.67×10^{-3}	1.28×10^{-1}	-2.872302560

SYNJ1	0.532761748	9.612661793	2.667308402	9.70×10^{-3}	1.28×10^{-1}	-2.875108865
SAMD3	-0.571760005	10.30571470	-2.660486403	9.88×10^{-3}	1.29×10^{-1}	-2.890855401
NMI	0.502295887	11.44065141	2.648175718	1.02×10^{-2}	1.32×10^{-1}	-2.919190451
IFIT3	0.628934979	10.56047784	2.633022469	1.06×10^{-2}	1.34×10^{-1}	-2.953925527
PIK3CG	0.503054704	10.32306648	2.631203018	1.07×10^{-2}	1.34×10^{-1}	-2.958085560
RAB8B	0.537845437	12.11751828	2.627793315	1.08×10^{-2}	1.35×10^{-1}	-2.965875444
CTSG	0.551468287	8.656080456	2.626394493	1.08×10^{-2}	1.35×10^{-1}	-2.969068908
STAT1	0.533913907	11.06164363	2.625980993	1.08×10^{-2}	1.35×10^{-1}	-2.970012656
CHST13	0.525909712	10.62265212	2.623834300	1.09×10^{-2}	1.35×10^{-1}	-2.974910251
MOSPD2	0.539271871	8.875886296	2.614027053	1.12×10^{-2}	1.37×10^{-1}	-2.997244653
IFI27	0.759505571	9.594216592	2.606686754	1.14×10^{-2}	1.38×10^{-1}	-3.013917491
CAMP	0.746840874	11.96859103	2.596938385	1.17×10^{-2}	1.41×10^{-1}	-3.036002348
PKN2	0.601079162	9.689182846	2.575548608	1.24×10^{-2}	1.45×10^{-1}	-3.084229293
FCHO2	0.528750937	8.900178133	2.568831348	1.26×10^{-2}	1.45×10^{-1}	-3.099308698
TDP1	0.571928798	11.42352272	2.567020698	1.26×10^{-2}	1.45×10^{-1}	-3.103367982
TMEM154	0.537112767	13.10906265	2.560535268	1.29×10^{-2}	1.47×10^{-1}	-3.117888801
LCN2	0.625223046	10.39095453	2.534132664	1.38×10^{-2}	$1.52\times10^{-}$	-3.176699245

HMGB2	0.874840351	11.53745581	2.529746842	1.39×10^{-2}	1.53×10^{-1}	-3.186420899
RPS23	-0.596968333	11.13546631	-2.507092290	1.48×10^{-2}	1.58×10^{-1}	-3.236420565
LYST	0.523168979	10.53566199	2.496471850	1.52×10^{-2}	1.60×10^{-1}	-3.259735019
CD36	0.525275655	10.59538817	2.487628059	1.55×10^{-2}	1.62×10^{-1}	-3.279088021
RSAD2	0.767088357	9.546385504	2.462665844	1.65×10^{-2}	1.68×10^{-1}	-3.333411734
HBE1	0.528404754	11.21351978	2.448165905	1.72×10^{-2}	1.70×10^{-1}	-3.364761822
HERC5	0.655149877	11.49871026	2.436747846	1.77×10^{-2}	1.73×10^{-1}	-3.389342048
OLR1	0.50578578	8.325704431	2.405941807	1.91×10^{-2}	1.80×10^{-1}	-3.455189159
RTN4	0.680501753	10.59758867	2.399137457	1.94×10^{-2}	1.81×10^{-1}	-3.469640333
MCOLN2	-0.509634281	9.609511595	-2.364092589	2.12×10^{-2}	1.90×10^{-1}	-3.543533390
RAB33B	0.744309220	9.915100572	2.317912902	2.37×10^{-2}	2.02×10^{-1}	-3.639524911
IFITM3	0.681443644	12.59672991	2.310569702	2.41×10^{-2}	2.04×10^{-1}	-3.654643323
CHPT1	0.520280927	10.28161166	2.268281645	2.67×10^{-2}	2.17×10^{-1}	-3.740924386
EVI2A	0.562718475	9.588294378	2.252784291	2.78×10^{-2}	2.21×10^{-1}	-3.772208208
DEFA4	0.830428337	10.13773256	2.248782824	2.80×10^{-2}	2.22×10^{-1}	-3.780256409
TLR1	0.770148813	11.00155489	2.234610906	2.90×10^{-2}	2.25×10^{-1}	-3.808663330
CD8A	-0.61393698	11.16120349	-2.217456758	3.02×10^{-2}	2.30×10^{-1}	-3.842844582

SP3	0.755921211	9.715499214	2.211895494	3.06×10^{-2}	2.31×10^{-1}	-3.853877975
HEBP2	0.530398708	11.72638342	2.209314811	3.08×10^{-2}	2.32×10^{-1}	-3.858989990
YY1	0.726228833	10.64998976	2.186296003	3.25×10^{-2}	2.38×10^{-1}	-3.904362835
IFIT1	0.706185212	10.88436391	2.177611472	3.32×10^{-2}	2.41×10^{-1}	-3.921375903
TSC22D1	0.517089231	8.967049553	2.168577420	3.39×10^{-2}	2.42×10^{-1}	-3.939012351
BLVRB	0.634705152	11.57670912	2.153614587	3.51×10^{-2}	2.48×10^{-1}	-3.968085177
PPP3CA	0.548525777	9.008399961	2.132316352	3.69×10^{-2}	2.53×10^{-1}	-4.009170140
EPSTI1	0.583571066	11.42074264	2.118580072	3.81×10^{-2}	2.57×10^{-1}	-4.035481778
PIK3AP1	0.676025509	9.911334703	2.107319708	3.91×10^{-2}	2.59×10^{-1}	-4.056941650
AGTPBP1	0.656499009	8.750152214	2.105879435	3.92×10^{-2}	2.60×10^{-1}	-4.059679397
KCTD12	0.644809613	8.510877438	2.097395696	4.00×10^{-2}	2.63×10^{-1}	-4.075772966
GNA13	0.647152996	10.43047894	2.082940518	4.13×10^{-2}	2.66×10^{-1}	-4.103065028
ALAS2	0.520840893	10.32626062	2.077750771	4.18×10^{-2}	2.67×10^{-1}	-4.112823694
HLA-DRB1	0.980083338	10.01572995	2.070916290	4.25×10^{-2}	2.69×10^{-1}	-4.125642915
XRCC2	0.555954079	12.39471373	2.068652051	4.27×10^{-2}	2.70×10^{-1}	-4.129881807
S100P	0.601027821	12.16304704	2.068202506	4.27×10^{-2}	2.70×10^{-1}	-4.130722923
BCL2A1	0.674833782	8.924530322	2.041939096	4.53×10^{-2}	2.76×10^{-1}	-4.179587317

FKBP14	0.554114838	13.11274493	2.03129938	4.64×10^{-2}	2.78×10^{-1}	-4.199228454
RAD21	0.680852572	10.80459264	2.02628861	4.70×10^{-2}	2.79×10^{-1}	-4.208447478

FC, fold change; adj., adjusted.

Table SXI. Key targets of GE in the treatment of IS were obtained by a cross set of drug targets of active components of GE, IS disease targets, and DEGs.

Drug	IS	DEGs	Drug and IS	Drug and DEGs	IS and DEGs	Drug and IS and DEGs
CYP51A1	NOTCH3	VNN2	AR	CDC25B	F5	HMGCR
NPC1L1	MT-TL1	KCNJ15	NR1H3	MCL1	ABCA1	G6PD
RORA	ALOX5AP	CKAP4	CYP17A1	ALDH1A1	HIF1A	TBXAS1
SERPINA6	FBN1	CRISPLD2	RORC	PYGL	OLR1	PTAFR
NR1I3	LDLR	MARCKS	CYP19A1	CDA	ADM	CA1
CES2	MTHFR	ANTXR2	ESR2	PGD	CREB1	CA4
CDC25A	GP1BA	FGL2	ESR1	CLEC4E	PPBP	DUSP1
DHCR7	COL4A1	SIRPB1	SHBG	ACOX1	F13A1	PIK3CG
GLRA1	ENG	LHFPL2	SREBF2	NCOA1	PTEN	MPO
SQLE	CRP	DYSF	CYP2C19	PLEKHA1	ITGA2B	MMP9
UGT2B7	MT-ND1	RRAGD	SLC6A2	TNFSF13B	CD14	ALPL
POLB	APOE	CTSZ	BCHE		LTA	STAT3
PREP	IL6	PLXDC2	PTPN1		HSPA1A	MGAM
MDM4	MT-ND5	RAB27A	SLC6A4		RTN4	IGF2R
CHRM4	MT-ND6	ID3	CHRM2		HLA-DRB1	ADA
AKR1B10	AGT	SORL1	ACHE		HP	HK2
ACACB	ADA2	BAZ2B	VDR		HLA-DQB1	ALOX5
SCD	MT-ND4	CTSS	NR1H2		FCGR2A	PTGS1
ALK	MT-CO1	FBN2	PTGER1		SERPINA1	ALDH2
TOP2A	PDE4D	CORO1C	PTGER2		GRN	PTGS2
AVPR1A	ACTA2	ETS2	HSD11B1		TLR2	HDAC4
MTNR1A	PLAT	STK3	PPARD		FOS	TDP1

MTNR1B	NPPA	PDK4	PTPN6	CD36	GAA
CHRM5	MT-ATP6	PACSIN2	FDFT1	MYH9	SELL
CA7	GLA	SRPK1	NOS2	ITGAM	LY96
CA12	NPPB	RAB31	NR3C1	SORT1	PPP3CA
CA14	CST3	SESN3	SHH	CD163	PPP3R1
CA9	PON1	CTTN	HSD11B2	ARG1	TLR4
CA6	ADAMTS13	HAL	DRD2	FCGR3B	LGALS2
CA5A	IL1B	TSEN34	PTGER4	IRS2	PLOD1
NAT1	HTRA1	LILRB3	IDO1	IGF2BP2	APRT
ALPG	RNF213	IQGAP1	CCR1	KYNU	LCN2
AKR1C3	VWF	RASSF2	MDM2	THBS1	
PIM1	APOH	SDCBP	SIGMAR1	LAMP2	
HDAC3	SERPINC1	CLEC4D	ATP12A	TIMP2	
CA5B	COL4A2	FLT3LG	PTGIR	TNFRSF1B	
CISD1	MT-CO2	BASP1	PRKCG	CYP1B1	
TPMT	BDNF	NUMB	PRKCD	TXN	
IMPDH2	GUCY1A1	MTMR3	PRKCB	VASP	
MKNK1	FGA	NDEL1	PRKCE	CD79A	
ASF1A	APP	ATP6V1B2	PRKCQ	CYBB	
TUBB1	APOB	IRAK3	FABP4	KIAA0319L	
TYMS	LPA	ST6GALNAC6	FABP3	SLC2A3	
ADCY5	F7	NCR3	FABP5	TNFSF10	
DAO	MT-CO3	HECW2	FABP1	TRIB1	
PIM3	PTGIS	B4GALT5	PTGES	CXCL16	
PRKD2	TP53	RBP7	PTPN2	EIF2AK2	
FBP1	IL10	MFGE8	ADORA3	PROS1	

POLA1	ELN	PPP4R1	MAPK3	ITPR3
HDAC8	THBD	MANSC1	PTPN11	TLR8
METAP1	PON2	CEBPD	KCNA5	PRCP
LRRK2	CXCL12	CD6	PTPRF	CYBRD1
KDM5C	PRKG1	PASK	PLA2G1B	DOCK8
KDM4B	SERPINA3	REPS2	ACP1	KLF4
KDM5B	PROZ	P2RX1	BACE1	CD8A
KDM4A	LMNA	ARID3A	HTR2B	APAF1
SRD5A2	EDN1	SUSD3	GRM2	NT5C2
HDAC5	TGFB2	HSDL2	BACE2	VEGFB
HDAC7	SOD2	MXD1	MGLL	STAT1
CTSV	VKORC1	CD8B	PRKCH	AQP9
DAPK3	CDKN2B-AS1	MTPN	TACR1	ITPK1
FFAR1	MYH11	MAL	PPARA	TCN1
PHF8	ENO2	ATP6V1A	F2R	BIN1
HSD17B3	RNF213-AS1	STOM	IGF1R	NRGN
KDM2A	FGB	RNF13	SRC	TLR5
GPBAR1	ACTA2-AS1	GCA	KDR	ORM1
GABRA2	P2RY12	SNURF	AGTR1	IL2RB
FNTA	LOX	ECHDC3	AVPR2	LMNB1
HAO1	COL3A1	ABHD5	IL6ST	CTNNA1
PTGFR	PECAM1	CD96	MAPK14	S100P
GSTK1	SMAD3	HIP1	ERN1	CD46
NR0B2	MYLK	VPREB3	CA2	NPL
CDC45	LOC102723566	ZNF337	CA3	MAFB
CYP26A1	ACVRL1	ITK	PTPRC	RGS2

RARG	ANGPT1	RPS15	EP300	BANF1
RARB	SMAD4	STX2	TTR	TSPAN9
RARA	GSR	TMEM91	PLAA	NDST1
CYP26B1	TGFBR2	EVL	MMP1	ERGIC1
RXRG	PROCR	ANKRD22	MB	GPR160
CACNA2D1	SLC2A10	BIRC2	ACE	CAPZA2
RXRB	NGB	PJA2	FUT7	CD55
SAE1	ADIPOQ	NFIL3	PDE5A	KLHL3
RORB	TGFBR1	FOLR3	PTPN22	GNS
PTGDR2	PF4	PREX1	KCNMA1	CEACAM1
AKR1C1	HSPA4	ARHGAP9	FYN	VCL
ENPP2	ENPP1	MT1X	LCK	NCF2
STS	AVP	ECHDC2	PIK3CD	FBL
PRKAG1	SH2B3	ABTB1	PRKDC	SEMA3E
THRA	PIK3C2A	CRIP2	VCAM1	CPD
THRB	AQP4	AXIN2	SLC9A1	DEFA4
DGAT1	HMGB1	GIMAP5	COMT	MCEMP1
PTGES2	CYCS	ICAM2	CHRNA7	PADI4
CDK1	MAP2	SLC16A3	MMP2	C5AR1
LGALS4	MPL	TLE4	MAOB	UBE2G2
LGALS8	KCNQ1	NUP214	GRM5	MTF1
AHCY	GJA1	APBB1IP	HDAC6	CTSG
TREH	GNB3	SH3GLB1	HCAR2	IFRD1
GLRA2	F9	UBR2	MMP8	MPP1
GGH	AKT1	SIGLEC5	MMP3	LRRFIP1
SSTR5	TNNI3	DPYD	PIK3CA	IL32

SSTR2	TNNT2	RALBP1	CTSL	IL7R
SSTR1	ABCC6	TNFRSF4	AOC3	YY1
SSTR3	EPOR	PRAM1	MAPK9	FCGR1A
NEU3	TNFRSF1A	LILRB2	MME	E2F3
NEU2	APOA1	CD3D	HMOX1	CDR2
NEU4	CCL2	WAS	PRKD1	CD58
AMY2A	SERPINI1	BCAS4	TGM2	PAK1
SI	MALAT1	CTBS	PARP1	SLC22A4
CA13	SERPINF2	SLC25A42	SERPINE1	SLC11A1
LAP3	IGF1	SIAH2	CNR1	CD52
MLNR	CXCR4	RYBP	CNR2	LRG1
DTYMK	GATA4	LY9	CHRM1	DSC2
ACLY	MT-CYB	PLXNC1	CES1	ACTN1
SLC6A1	SULT1A3	OSCAR	MAPK1	CCR7
GABRA1	MBP	SLC22A15	ALB	S100A12
GABRA3	GP6	BAZ1A	ABL1	VNN1
GABRR1	NES	PELI2	FABP2	IFNGR1
KDM3A	ADD1	XK	SLC22A6	GLRX
KDM5A	THPO	TGM3	NR1H4	CAMP
KDM4D	GDNF	FAM102A	GABBR1	ANPEP
KDM4C	ITGA2	ACSL1	LTA4H	BPI
RNPEP	TET2	WSB1	PPARG	ITGB7
KDM6B	TH	SLC40A1	RXRA	CREG1
KDM4E	TSPO	PAK2	FAAH	TLN1
S1PR5	CCL3	AHCTF1	TERT	BCL2A1
S1PR4	BMP7	PGLYRP1	FFAR4	IFIT3

PFKFB3	SIRT1	JMJD1C	SLC16A1	RPSA
PPM1B	ANXA5	SH3BGRL2	ALOX15	TAOK1
PPP1CC	CALR	ROPN1L	ALOX12	S100A11
PPP2R5A	CXCL8	MAN2A2	EPHX2	BNIP3L
HPGD	TGFB3	MFSD1	ABCC1	TFDP1
GPR119	TREX1	ICOS	ABCB1	IL18RAP
FASN	SPP1	TM9SF2	PLA2G4A	
PDK1	NKX2-5	SSH2	PLG	
PDE4B	ENTPD1	GPR18	ITGAL	
PRF1	ACTC1	ALPK1	TBXA2R	
FLT3	MFAP5	TPST1	HNF4A	
AURKB	F12	SKAP2	PGR	
AURKA	NFE2L2	MAP3K2	TRPA1	
HSD17B1	CD40LG	TRIB2	RBP4	
CLK1	SOD1	BCL11B	GCG	
DYRK1B	MYBPC3	NPEPPS	PTGDR	
HSD17B2	MAT2A	NELL2	PSEN2	
LDHA	AGTR2	TCEA3	PTGER3	
LDHB	IL1RN	PHF21A	ADRA2B	
AKR1C2	FOXE3	UBASH3A	HSP90AA1	
GABRB3	IL4	SNRK	VEGFA	
GSTA1	RPL36A-HNRNPH2	KPNB1	FGF1	
GPR35	DCX	RAB32	HPSE	
TACR2	KNG1	KRT10	FGF2	
GRM3	TNFRSF12A	OSBPL8	LGALS3	
GRIK5	MIAT	SERPINB1	ADRA2A	

GRM4	SERPIND1	STX11	ADRA2C
GRIA4	HEY2	CD79B	DRD1
GRIK3	MYH7	KCNJ2	ADRA1D
GRM6	TGFB1	ANKRD33	HTR2A
GRK6	SON	HK3	HTR2C
HCK	CASP9	TIMM22	DRD3
CCR9	BRCC3	FKBP5	CYP2D6
YWHAG	HHT4	ZNF548	HTR6
CPB1	GATA6	LEF1	ADRA1A
ESRRB	CBS	LIME1	HTR1B
FCER2	AIF1	GAB2	FOLH1
OGT	RETN	PFKFB4	TRPV1
UQCRB	DARS2	SAP30	PYGM
MAP3K12	SMAD2	FPR1	PYGB
PSMB5	NDE1	HBM	OPRK1
KCNA4	PMM2	RPL3	IL2
NQO2	F8	PTPRCAP	NAALAD2
SRD5A1	NTF3	RAB3IP	SCN9A
DUSP3	MIR21	USP15	SSTR4
CXCR1	CYP3A5	DEXI	OGA
UPP1	EPO	CD19	ECE1
HRH4	MIR155	STXBP5	KMO
HPRT1	IL18	SLAMF1	BCL2L1
GRK1	POLG	MX2	ADORA2A
GNPAT	PRNP	SNRPF	ADORA1
PLA2G4B	ACTB	CD2	PPM1A

IMPDH1	IL1A	SLC31A2	AKR1B1
EIF4A1	CETP	RNF10	KCNH2
AMY1A	ZMPSTE24	KLHL8	OPRM1
LGALS7	MYH6	RNASEL	CASP3
CCKBR	GFAP	TMEM71	TYR
FPGS	APOC3	SPOCK2	FUCA1
PTPRA	LEP	FCGR1B	GBA
MAGI3	LIPC	BEX2	HK1
DNMT3B	BGN	DYRK2	LGALS9
SLC10A2	RBFOX3	EEF1G	ATP1A1
SLC28A3	PKD1	KLF12	ABCB11
CD22	NOTCH1	RPS4X	EGLN1
GABRA4	KRAS	CUTA	GABBR2
GABRA5	PROC	GYG1	SLC6A11
GABRA6	NF1	ANXA3	SLC6A13
GABRB1	TNFRSF11B	USP10	FTO
GABRB2	CALCA	RALB	EGLN2
GABRD	NPY	NDUFA12	EGLN3
GABRE	CDKN2A	NDUFS8	HIF1AN
GABRG1	F11	PCSK7	S1PR3
GABRG2	PITX2	SIPA1L2	S1PR1
GABRG3	FLVCR2	HIGD2A	FLT1
GABRP	NCF1	ELOVL5	MET
GRIN2D	AGER	LRP10	PPP2CA
GRIN3A	LOC113939944	SLC2A14	VCP
LIP3	CP	GZMM	MAOA

LSS	AMPD1	SNRPN	ADORA2B
NCOA2	FGG	GNAI3	CXCR3
SULT2A1	MIR146A	PPP3CC	DRD4
SULT2B1	GDF15	OLFM4	JAK2
PLA2G2E	GNAQ	RNF24	CSF1R
ACSL3	KRIT1	DNAJA3	CHRM3
ADH5	DES	DCP2	TYRO3
ARF6	CCR2	NPTN	CYP2C9
C8G	PDE3A	SNX10	CYP3A4
ECI2	BRCA2	MAP4K1	MMP13
ELOVL4	NGF	CEACAM6	ADAM17
GM2A	KCNJ5	PUS1	ADRB2
GUCA1A	ATM	EMILIN2	ADRB1
HNF4G	WFS1	SKAP1	ADRB3
LALBA	CSF3	IFIT2	BRD4
OGDH	TBX20	F2RL1	HDAC1
PKIA	MMACHC	CD3E	PLK1
PLA2G2D	ZFHX3	GZMK	CCR5
PMP2	APOA5	DEGS1	REN
PPA_RS05235	GCKR	RNF149	HDAC2
PPT1	CYBA	RTN3	HTR4
PVR	C3	KLHL2	NPC1
RCVRN	CAPN3	FNBP4	ERBB2
SCN1B	DPM3	ZYX	EGFR
SCN2B	GPT	PLEKHF1	HTR1A
SCN3B	TTN	FGR	MAP2K1

SCN4B	HFE	KBTBD7	SCN5A
SCN7A	CNTF	CEACAM8	KIT
SEC14L2	CTF1	LILRA3	ALDH5A1
TM1468	MTX2	CHSY1	ABAT
TRAPPC3	MYMY1	CD1D	DYRK1A
AMY2B	MYMY3	SERINC1	GSK3B
ATOX1	CITED2	PARP9	ESRRG
BAMF_RS28815	CCND1	ARPC5	CRHR1
FHIT	JAG1	RPL13A	BCL2
FTL	SRFBP1	CD247	ELANE
GLT6D1	PCSK9	APOBEC3A	CFTR
GNPDA1	TCF7L2	RPAIN	F3
KRTAP5-2	MMUT	JAZF1	DPP4
KRTAP5-3	MEN1	HLA-DOB	SLC6A3
LCTL	CD34	ABLIM1	TAAR1
LYZ	CTLA4	CD7	SLC1A1
NCAN	TIMP1	PSG9	GRIK1
NUDT9	COL2A1	CYP27A1	GRIA1
RTCB	UCP2	B3GNT5	GRM8
SIGLEC1	PRL	GOLGA8B	GRIK2
SMARCA5	TMEM126B	RGS18	GRM1
TAS1R2	INSL6	DUSP6	GRM7
TM0024	PRKAG2	CLC	GRIA2
ACO2	HLA-B	KLRB1	CPT1A
ALAD	GNB1	MBNL3	SLC1A2
ASPH	FLNA	CD3G	SLC22A12

BBOX1	RPS27A	ZFP36L1	CDK2
HSD17B6	KL	CLIP1	EDNRA
OXCT1	CYP4F2	MTMR6	PLAU
OXCT2	CUX2	NKG7	CHEK1
P3H1	NINJ2	MEGF9	WEE1
P3H2	NSD1	DHRS9	EDNRB
P3H3	CSF2	SLAMF6	MTOR
P4HA1	FLNC	DGAT2	MMP14
P4HA2	MYMY4	P2RY10	PNMT
PLOD3	MAN2B1	SYNJ1	NPY5R
SDHC	GJA5	SAMD3	GCGR
SDHD	CPS1	NMI	ESRRA
SLC13A1	COL4A5	RAB8B	LNPEP
SLC13A2	NLRP3	CHST13	NFKBIA
SLC13A3	NPR3	MOSPD2	SYK
SLC25A10	IL17A	IFI27	BRAF
SUCLA2	CPB2	PKN2	JAK1
SUCLG1	XDH	FCHO2	MMP7
SUCLG2	CDKN2B	TMEM154	PNP
GLRA3	ACAN	HMGB2	ILK
NFKB2	XBP1	RPS23	PLA2G7
SLCO1B3	FKRP	LYST	CYP11B1
E	PTX3	RSAD2	CYP11B2
ERG11	CAT	HBE1	DBH
BC1747	TANGO2	HERC5	KCNA1
CTDSP1	GSTM1	MCOLN2	DRD5

HS3ST3A1	CYP2J2	RAB33B	F2
IL4I1	CX3CR1	IFITM3	RPS6KA3
ITEVIR	SLC34A1	CHPT1	CDK5R1
ITPA	TWNK	EVI2A	NOS1
LSM6	ATP1B1	TLR1	NOS3
MDH2	FH	SP3	PRKCA
ME2	SMARCA4	HEBP2	ROCK1
RNASE1	GHRL	IFIT1	PRKACA
TM0857	TLL1	TSC22D1	QDPR
TM1436	TF	BLVRB	HDAC9
UCK2	POU4F1	EPSTI1	CDK4
EBP	PKD2	PIK3AP1	PLA2G2A
FNTB	CELA2A	AGTPBP1	HSP90AB1
UBA2	PDGFRA	KCTD12	TRAP1
PSENEN	ITIH4	GNA13	MAPT
CCNA1	CCL11	ALAS2	FGFR1
CCNB1	MT-ATP8	XRCC2	NOX4
NCSTN	BGLAP	FKBP14	INSR
APH1A	LTC4S	RAD21	SLC5A2
APH1B	MTR		SLC5A1
	HYT1		SLC5A4
	HNF1A		ADK
	VHL		GAPDH
	NEFL		HSPA8
	MIR132		IGFBP3
	MMP12		HSPA5

SCNN1A
RGS5
HYT2
HYT3
HYT4
HYT5
HYT6
HYT7
HYT8
TBX5
MIR145
MIR9-1
MYL4
CD40
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IL13
FAS
IL1R1
ACE2
ABCC8
PPOX
ERCC6
IL6R
IAPP
SMARCAL1
LRP1
SLC29A1
SELE
SELP
ENPEP
P2RX3
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CASP7
CASP8
CASP1
CASP2
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DNMT1
CTSD
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ADRA1B
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GABRQ
GRIN1
GRIN2A

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GRIN3B
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SCN1A
SCN2A

POMC
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COX5B
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CLCN1
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ITGB1
PHACTR1
CTNNB1
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SCN8A
SLC8A1
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SFTPD
AKR1D1
SDHA
SDHB
SUCNR1
TMLHE
ANXA1
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ATP1A3
HSD3B1
LPL
NFKB1
TNF

ARSA
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MIR210
FLNC-AS1
MC4R
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SLC1A3
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BMP2
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XIAP
EPRS1
ARRDC4
BMP6
GDF2
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FMR1
F13B
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PRKAB1
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CDK5
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THSD1
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TEK

CHIT1
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MGR12
ALG13
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GYS1
RNLS
COX4I1
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SCNN1B

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ATFB5
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UCP3
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MTAP
CMA1
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MIR30A
KCNJ11
NT5E
HABP2
MIR122

CELSR1
CYP1A1
JUN
GGCX
MIR223
SGK1
NTN1
MIR144
XRCC1
MROS
ERCC8
HGF
PRKN
IMPA2
KITLG
SLC17A5
CCN2
IGFBP1
LIF
APOL1
GCH1
IRAK1
MASP2
PON3
ITLN1
WRN

TAC1
KARS1
SLC2A4
C4B
RAI1
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CCR3
FOXP2
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MIR181A1
S100A1
WNK1
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CCL5
PPARGC1A
HSPB1
IL3
KCNK17
MAPK8
PTK2B
NUP155
TRPV4
GGT1
PVALB

CLCN6
LOC106627981
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DDAH1
GHR
SLCO1C1
TWIST1
SOST
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H2AC18
KIF6
C4A
SLC19A1
ADAMTS7
MIRLET7B
MIR199A1
STX1A
AIFM1
MIR29A
KCNB1
HAVCR1

JPH3
SPTB
NOTCH4
SOCS1
PIGQ
MS4A2
GPX1
SUOX
MMP10
VIPR2
BDKRB2
IL33
DLL4
CACNA1C
CDH13
ADAMTSL1
APOA4
TIE1
LEPQTL1
FNDC5
BRAP
CFLAR
ADCYAP1
ABCG2
DLL1
RBPJ

TCF7
GNAS
CAMK2G
DLG4
PTGDS
RYR2
CIITA
MTTP
GSTT1
PSMA6
CDH11
AFG3L2
ABCG8
EGR1
P2RY1
SLCO1B1
TNFSF11
PTHLH
PMM1
CHGA
MIR134
PDGFB
SQSTM1
BAX
TRIM2
CCK

SOD3
SELENOS
ABCG1
LTB
TRPM7
IFNA1
DLL3
SRRT
STAT5A
STIN2-VNTR
RUNX2
CX3CL1
IL12A
IL2RA
UGT1A1
ADH1C
HEY1
JAG2
HEYL
EPHB4
IFIH1
MIR34A
MTRR
CELF2
NAGLU
MUC1

CACNA1A
PATJ
MYT1L
MIR140
DENND11
SAA1
MIR221
CDH4
MMRN1
MIR124-1
GAS6
HNF1B
TNXB
APEX1
NDUFC2
COL1A2
ZC3HC1
BECN1
BMPR1A
RUVBL2
LLGL2
APLN
MIR125B1
ERCC4
MYC
PSAP

CALCRL
SP1
MIR125A
ALKBH8
CD28
CD177
IGF2
ASIC3
KCNN4
GSTO1
CALB1
MIR142
C19orf12
ABCB7
HRAS
HTT
CTSB
CYP24A1
DEFA1
ROS1
MEF2D
SIL1
KCNMB1
CD4
DNAH11
DDC

EZH2
NTRK2
H2AX
STAT5B
PALLD
VAMP8
SCNN1G
APOD
MYH15
SNX19
ICAM4
LMX1B
IL1F10
CSF1
COL6A3
IRF1
HAMP
GSTO2
NTRK1
STAT4
SERPINA12
NQO1
MIR24-1
HSPD1
AKT2
GATA5

ERAP1
HSPA1B
OPA1
TLR3
MVK
LRP5
NPR1
CCL17
EPAS1
AUTS2
GRK2
KLC1
MIR188
SLC25A4
ATP2B3
GSN
ST2
KCNQ2
RAC1
CLEC16A
KCNK4
MIR150
LAMA1
NRG1
CSTB
ALDH1A2

CRH
VIP
MIR30E
SUPT3H
IDE
UMOD
PSRC1
LEMD3
PLAUR
AQP1
KLK1
IL11
FABP12
PRTN3
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SOS1
ECHS1
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NTF4

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IFNAR1
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CISD2
ELP1

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OCLN
CSK

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SCFD1
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CYTB
MUSK
ATF3
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MLXIPL
RMDN1
PCSK1
MZB1
MS4A4A
STK26
ASIC5
PKM
PLP1
PNN

NANS
POR
POU2F1
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TMEM132A
ANO1
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PRH2
SYBU
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RNF130
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ANKS1B
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NDRG3
NLN
SEMA6A
PTMA
PTMAP4
PRX

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CCL19
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CRLF2
POTEM
SNHG6
ITSN1
GORASP1
SHMT1
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MARCKSL1
SLCO1A2
CYP4F12
SMN2
STAR
SCARNA6
STIM1
BRS3

SYT1
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MIR608
MIR618
SERPING1
TM7SF2
TRC-GCA24-1
ACTG2
UBE2L3
UGT2B4
VPS51
UTRN
REEP5
MUL1
DHX40
EHMT1
ARHGEF5
MAP9
ERMP1
WLS
FLAD1
AKAP1
QTRT1
PLVAP
TSPAN10

MINDY4
KLF11
NTNG2
KDM2B
ACCS
GPR65
ORAI1
PIAS1
OTULIN
USP14
LPAR2
XPR1
METTL18
NOG
MSC
SPECC1
DNER
ZFYVE9
GTPBP1
SNCAIP
KCNC2
TACR3
PDE1
NMDAR
OPR
PARP

AGAP2
ATP7B
MAPKAPK2
P2RX5
TRNL1

Table SXII. GO functional enrichment results of key target genes.

A, Biological process								
ID	Description	GeneRatio	BgRatio	P-value	Adjusted P-value	q-value	GeneID	Count
GO:0006979	response to oxidative stress	10/31	458/18866	$1.81x10^{-9}$	$1.99×10^{-6}$	$1.03×10^{-6}$	ADA/ALOX5/DUSP1/G6PD/LCN2/MMP9/MPO/PTGS1/PTGS2/TLR4	10
GO:0043312	neutrophil degranulation	10/31	487/18866	$3.27×10^{-9}$	$1.99×10^{-6}$	$1.03×10^{-6}$	ALOX5/APRT/GAA/IGF2R/LCN2/MGAM/MMP9/MPO/PTAFR/SELL	10
GO:0002283	neutrophil activation involved in immune response	10/31	490/18866	$3.47×10^{-9}$	$1.99×10^{-6}$	$1.03×10^{-6}$	ALOX5/APRT/GAA/IGF2R/LCN2/MGAM/MMP9/MPO/PTAFR/SELL	10
GO:0072593	reactive oxygen species metabolic process	8/31	288/18866	$1.56×10^{-8}$	$6.71×10^{-6}$	$3.49×10^{-6}$	ALOX5/G6PD/HDAC4/HK2/MPO/PTGS2/STAT3/TLR4	8
GO:2000377	regulation of reactive oxygen species metabolic process	7/31	200/18866	$2.87×10^{-8}$	$9.89×10^{-6}$	$5.14×10^{-6}$	ALOX5/G6PD/HDAC4/HK2/PTGS2/STAT3/TLR4	7
GO:1903409	reactive oxygen species biosynthetic process	6/31	128/18866	$5.55×10^{-8}$	$1.59×10^{-5}$	$8.29×10^{-6}$	ALOX5/HDAC4/MPO/PTGS2/STAT3/TLR4	6
GO:0090257	regulation of muscle system process	7/31	256/18866	$1.55×10^{-7}$	$3.82×10^{-5}$	$1.99×10^{-5}$	ADA/G6PD/HDAC4/PIK3CG/PPP3CA/PTAFR/PTGS2	7
GO:0003012	muscle system process	8/31	467/18866	$6.35×10^{-7}$	$1.15×10^{-4}$	$5.98×10^{-5}$	ADA/G6PD/GAA/HDAC4/PIK3CG/PPP3CA/PTAFR/PTGS2	8
GO:0019371	cyclooxygenase pathway	3/31	11/18866	$6.57×10^{-7}$	$1.15×10^{-4}$	$5.98×10^{-5}$	PTGS1/PTGS2/TBXAS1	3
GO:0048661	positive regulation of smooth muscle cell proliferation	5/31	103/18866	$6.68×10^{-7}$	$1.15×10^{-4}$	$5.98×10^{-5}$	HDAC4/HMGCR/MMP9/PTAFR/PTGS2	5
GO:1903426	regulation of reactive oxygen species biosynthetic process	5/31	107/18866	$8.07×10^{-7}$	$1.26×10^{-4}$	$6.57×10^{-5}$	ALOX5/HDAC4/PTGS2/STAT3/TLR4	5
GO:0032496	response to lipopolysaccharide	7/31	334/18866	$9.34×10^{-7}$	$1.34×10^{-4}$	$6.97×10^{-5}$	ALPL/LCN2/LY96/MPO/PTAFR/PTGS2/TLR4	7
GO:0002237	response to molecule of bacterial origin	7/31	356/18866	$1.43×10^{-6}$	$1.89×10^{-4}$	$9.85×10^{-5}$	ALPL/LCN2/LY96/MPO/PTAFR/PTGS2/TLR4	7
GO:0062197	cellular response to chemical stress	7/31	360/18866	$1.54×10^{-6}$	$1.90×10^{-4}$	$9.85×10^{-5}$	ALOX5/G6PD/LCN2/MMP9/MPO/PTGS2/TLR4	7
GO:0019369	arachidonic acid metabolic process	4/31	58/18866	$2.38×10^{-6}$	$2.31×10^{-4}$	$1.20×10^{-4}$	ALOX5/PTGS1/PTGS2/TBXAS1	4
GO:0046683	response to organophosphorus	5/31	134/18866	$2.46×10^{-6}$	$2.31×10^{-4}$	$1.20×10^{-4}$	DUSP1/PIK3CG/PTAFR/PTGS2/SELL	5
GO:0033002	muscle cell proliferation	6/31	244/18866	$2.47×10^{-6}$	$2.31×10^{-4}$	$1.20×10^{-4}$	HDAC4/HMGCR/MMP9/PTAFR/PTGS2/STAT3	6
GO:0006636	unsaturated fatty acid biosynthetic process	4/31	59/18866	$2.55×10^{-6}$	$2.31×10^{-4}$	$1.20×10^{-4}$	ALOX5/PTGS1/PTGS2/TBXAS1	4
GO:0046456	icosanoid biosynthetic process	4/31	59/18866	$2.55×10^{-6}$	$2.31×10^{-4}$	$1.20×10^{-4}$	ALOX5/PTGS1/PTGS2/TBXAS1	4
GO:0014074	response to purine-containing compound	5/31	149/18866	$4.14×10^{-6}$	$3.56×10^{-4}$	$1.85×10^{-4}$	DUSP1/PIK3CG/PTAFR/PTGS2/SELL	5
GO:0050727	regulation of inflammatory response	7/31	425/18866	$4.62×10^{-6}$	$3.79×10^{-4}$	$1.97×10^{-4}$	ADA/ALOX5/MMP9/PIK3CG/PTGS2/STAT3/TLR4	7
GO:0044262	cellular carbohydrate metabolic process	6/31	294/18866	$7.22×10^{-6}$	$5.65×10^{-4}$	$2.94×10^{-4}$	GAA/HDAC4/HK2/MGAM/PTAFR/STAT3	6
GO:0006937	regulation of muscle contraction	5/31	173/18866	$8.57×10^{-6}$	$5.91×10^{-4}$	$3.07×10^{-4}$	ADA/HDAC4/PIK3CG/PTAFR/PTGS2	5
GO:0048660	regulation of smooth muscle cell proliferation	5/31	173/18866	$8.57×10^{-6}$	$5.91×10^{-4}$	$3.07×10^{-4}$	HDAC4/HMGCR/MMP9/PTAFR/PTGS2	5
GO:1903522	regulation of blood circulation	6/31	303/18866	$8.57×10^{-6}$	$5.91×10^{-4}$	$3.07×10^{-4}$	ADA/GAA/HDAC4/PIK3CG/PTAFR/PTGS2	6
GO:0048659	smooth muscle cell proliferation	5/31	175/18866	$9.06×10^{-6}$	$5.93×10^{-4}$	$3.08×10^{-4}$	HDAC4/HMGCR/MMP9/PTAFR/PTGS2	5
GO:0031667	response to nutrient levels	7/31	473/18866	$9.3×10^{-6}$	$5.93×10^{-4}$	$3.08×10^{-4}$	ADA/ALPL/G6PD/HMGCR/LCN2/MPO/PTGS2	7
GO:0034599	cellular response to oxidative stress	6/31	310/18866	$9.77×10^{-6}$	$6.01×10^{-4}$	$3.12×10^{-4}$	ALOX5/G6PD/LCN2/MMP9/MPO/TLR4	6
GO:0007568	aging	6/31	319/18866	$1.15×10^{-5}$	$6.83×10^{-4}$	$3.55×10^{-4}$	ADA/HMGCR/MPO/PPP3CA/PTGS2/STAT3	6
GO:0001516	prostaglandin biosynthetic process	3/31	30/18866	$1.58×10^{-5}$	$8.80×10^{-4}$	$4.57×10^{-4}$	PTGS1/PTGS2/TBXAS1	3
GO:0046457	prostanoid biosynthetic process	3/31	30/18866	$1.58×10^{-5}$	$8.80×10^{-4}$	$4.57×10^{-4}$	PTGS1/PTGS2/TBXAS1	3
GO:0016052	carbohydrate catabolic process	5/31	200/18866	$1.73×10^{-5}$	$9.14×10^{-4}$	$4.75×10^{-4}$	GAA/HDAC4/HK2/MGAM/STAT3	5
GO:0045987	positive regulation of smooth muscle contraction	3/31	31/18866	$1.75×10^{-5}$	$9.14×10^{-4}$	$4.75×10^{-4}$	ADA/PTAFR/PTGS2	3
GO:0006936	muscle contraction	6/31	362/18866	$2.35×10^{-5}$	$1.16×10^{-3}$	$6.02×10^{-4}$	ADA/GAA/HDAC4/PIK3CG/PTAFR/PTGS2	6
GO:1901570	fatty acid derivative biosynthetic process	4/31	103/18866	$2.35×10^{-5}$	$1.16×10^{-3}$	$6.02×10^{-4}$	ALOX5/PTGS1/PTGS2/TBXAS1	4
GO:0001676	long-chain fatty acid metabolic process	4/31	113/18866	$3.39×10^{-5}$	$1.62×10^{-3}$	$8.43×10^{-4}$	ALOX5/PTGS1/PTGS2/TBXAS1	4
GO:0000302	response to reactive oxygen species	5/31	235/18866	$3.75×10^{-5}$	$1.75×10^{-3}$	$9.07×10^{-4}$	ADA/DUSP1/LCN2/MMP9/MPO	5
GO:0042493	response to drug	6/31	397/18866	$3.94×10^{-5}$	$1.77×10^{-3}$	$9.22×10^{-4}$	ADA/HDAC4/LCN2/PPP3CA/PTGS2/STAT3	6
GO:0033559	unsaturated fatty acid metabolic process	4/31	118/18866	$4.02×10^{-5}$	$1.77×10^{-3}$	$9.22×10^{-4}$	ALOX5/PTGS1/PTGS2/TBXAS1	4
GO:0120254	olefinic compound metabolic process	4/31	121/18866	$4.43×10^{-5}$	$1.87×10^{-3}$	$9.71×10^{-4}$	ALOX5/PTGS1/PTGS2/TBXAS1	4
GO:0042593	glucose homeostasis	5/31	245/18866	$4.57×10^{-5}$	$1.87×10^{-3}$	$9.71×10^{-4}$	ALOX5/HK2/HMGCR/PPP3CA/STAT3	5
GO:0006690	icosanoid metabolic process	4/31	122/18866	$4.58×10^{-5}$	$1.87×10^{-3}$	$9.71×10^{-4}$	ALOX5/PTGS1/PTGS2/TBXAS1	4
GO:0033500	carbohydrate homeostasis	5/31	246/18866	$4.66×10^{-5}$	$1.87×10^{-3}$	$9.71×10^{-4}$	ALOX5/HK2/HMGCR/PPP3CA/STAT3	5
GO:0019693	ribose phosphate metabolic process	6/31	427/18866	$5.91×10^{-5}$	$2.32×10^{-3}$	$1.20×10^{-3}$	APRT/G6PD/HDAC4/HK2/HMGCR/STAT3	6
GO:0045933	positive regulation of muscle contraction	3/31	47/18866	$6.2×10^{-5}$	$2.37×10^{-3}$	$1.23×10^{-3}$	ADA/PTAFR/PTGS2	3
GO:0006692	prostanoid metabolic process	3/31	49/18866	$7.03×10^{-5}$	$2.57×10^{-3}$	$1.34×10^{-3}$	PTGS1/PTGS2/TBXAS1	3
GO:0006693	prostaglandin metabolic process	3/31	49/18866	$7.03×10^{-5}$	$2.57×10^{-3}$	$1.34×10^{-3}$	PTGS1/PTGS2/TBXAS1	3
GO:0006163	purine nucleotide metabolic process	6/31	442/18866	$7.16×10^{-5}$	$2.57×10^{-3}$	$1.34×10^{-3}$	ADA/APRT/HDAC4/HK2/HMGCR/STAT3	6
GO:0032760	positive regulation of tumor necrosis factor production	3/31	50/18866	$7.47×10^{-5}$	$2.63×10^{-3}$	$1.37×10^{-3}$	LY96/PTAFR/TLR4	3
GO:1903557	positive regulation of tumor necrosis factor superfamily cytokine production	3/31	52/18866	$8.41×10^{-5}$	$2.90×10^{-3}$	$1.51×10^{-3}$	LY96/PTAFR/TLR4	3
GO:0061756	leukocyte adhesion to vascular endothelial cell	3/31	53/18866	$8.9×10^{-5}$	$3.01×10^{-3}$	$1.56×10^{-3}$	ALOX5/PTAFR/SELL	3
GO:0051384	response to glucocorticoid	4/31	147/18866	$9.45×10^{-5}$	$3.13×10^{-3}$	$1.63×10^{-3}$	ALPL/DUSP1/PTAFR/PTGS2	4
GO:0072521	purine-containing compound metabolic process	6/31	472/18866	$1.03×10^{-4}$	$3.34×10^{-3}$	$1.74×10^{-3}$	ADA/APRT/HDAC4/HK2/HMGCR/STAT3	6
GO:0009113	purine nucleobase biosynthetic process	2/31	10/18866	$1.17×10^{-4}$	$3.72×10^{-3}$	$1.93×10^{-3}$	ADA/APRT	2
GO:0031663	lipopolysaccharide-mediated signaling pathway	3/31	59/18866	$1.23×10^{-4}$	$3.84×10^{-3}$	$2.00×10^{-3}$	LY96/PTAFR/TLR4	3
GO:0050729	positive regulation of inflammatory response	4/31	158/18866	$1.25×10^{-4}$	$3.84×10^{-3}$	$2.00×10^{-3}$	PIK3CG/PTGS2/STAT3/TLR4	4
GO:1903428	positive regulation of reactive oxygen species biosynthetic process	3/31	60/18866	$1.29×10^{-4}$	$3.90×10^{-3}$	$2.03×10^{-3}$	HDAC4/PTGS2/TLR4	3
GO:0005984	disaccharide metabolic process	2/31	11/18866	$1.42×10^{-4}$	$4.21×10^{-3}$	$2.19×10^{-3}$	GAA/MGAM	2
GO:0031960	response to corticosteroid	4/31	164/18866	$1.44×10^{-4}$	$4.21×10^{-3}$	$2.19×10^{-3}$	ALPL/DUSP1/PTAFR/PTGS2	4
GO:0006940	regulation of smooth muscle contraction	3/31	65/18866	$1.64×10^{-4}$	$4.59×10^{-3}$	$2.39×10^{-3}$	ADA/PTAFR/PTGS2	3
GO:2000241	regulation of reproductive process	4/31	170/18866	$1.66×10^{-4}$	$4.59×10^{-3}$	$2.39×10^{-3}$	ADA/DUSP1/HDAC4/PTAFR	4
GO:0007584	response to nutrient	4/31	171/18866	$1.69×10^{-4}$	$4.59×10^{-3}$	$2.39×10^{-3}$	ADA/ALPL/HMGCR/PTGS2	4
GO:0032490	detection of molecule of bacterial origin	2/31	12/18866	$1.71×10^{-4}$	$4.59×10^{-3}$	$2.39×10^{-3}$	LY96/TLR4	2
GO:2000378	negative regulation of reactive oxygen species metabolic process	3/31	66/18866	$1.71×10^{-4}$	$4.59×10^{-3}$	$2.39×10^{-3}$	G6PD/HK2/STAT3	3
GO:0006633	fatty acid biosynthetic process	4/31	173/18866	$1.77×10^{-4}$	$4.59×10^{-3}$	$2.39×10^{-3}$	ALOX5/PTGS1/PTGS2/TBXAS1	4
GO:0045123	cellular extravasation	3/31	67/18866	$1.79×10^{-4}$	$4.59×10^{-3}$	$2.39×10^{-3}$	PIK3CG/PTAFR/SELL	3
GO:1900015	regulation of cytokine production involved in inflammatory response	3/31	67/18866	$1.79×10^{-4}$	$4.59×10^{-3}$	$2.39×10^{-3}$	ALOX5/STAT3/TLR4	3
GO:0001659	temperature homeostasis	4/31	174/18866	$1.81×10^{-4}$	$4.59×10^{-3}$	$2.39×10^{-3}$	LCN2/PTGS2/STAT3/TLR4	4
GO:1901568	fatty acid derivative metabolic process	4/31	175/18866	$1.85×10^{-4}$	$4.62×10^{-3}$	$2.40×10^{-3}$	ALOX5/PTGS1/PTGS2/TBXAS1	4

GO:0002679	respiratory burst involved in defense response	2/31	13/18866	2.02×10^{-4}	4.88×10^{-3}	2.54×10^{-3}	MPO/PIK3CG	2
GO:0002534	cytokine production involved in inflammatory response	3/31	70/18866	2.04×10^{-4}	4.88×10^{-3}	2.54×10^{-3}	ALOX5/STAT3/TLR4	3
GO:0050795	regulation of behavior	3/31	70/18866	2.04×10^{-4}	4.88×10^{-3}	2.54×10^{-3}	ADA/HDAC4/STAT3	3
GO:0043173	nucleotide salvage	2/31	14/18866	2.35×10^{-4}	5.47×10^{-3}	2.84×10^{-3}	ADA/APRT	2
GO:1903799	negative regulation of production of miRNAs involved in gene silencing by miRNA	2/31	14/18866	2.35×10^{-4}	5.47×10^{-3}	2.84×10^{-3}	PPP3CA/STAT3	2
GO:1903524	positive regulation of blood circulation	3/31	76/18866	2.60×10^{-4}	5.98×10^{-3}	3.11×10^{-3}	ADA/PTAFR/PTGS2	3
GO:0046902	regulation of mitochondrial membrane permeability	3/31	77/18866	2.71×10^{-4}	5.98×10^{-3}	3.11×10^{-3}	HK2/PPP3R1/STAT3	3
GO:0043101	purine-containing compound salvage	2/31	15/18866	2.71×10^{-4}	5.98×10^{-3}	3.11×10^{-3}	ADA/APRT	2
GO:0045820	negative regulation of glycolytic process	2/31	15/18866	2.71×10^{-4}	5.98×10^{-3}	3.11×10^{-3}	HDAC4/STAT3	2
GO:0043900	regulation of multi-organism process	3/31	78/18866	2.81×10^{-4}	6.13×10^{-3}	3.19×10^{-3}	ADA/HDAC4/PTAFR	3
GO:0071260	cellular response to mechanical stimulus	3/31	79/18866	2.92×10^{-4}	6.29×10^{-3}	3.27×10^{-3}	HDAC4/PTGS2/TLR4	3
GO:0010038	response to metal ion	5/31	366/18866	3.00×10^{-4}	6.38×10^{-3}	3.32×10^{-3}	DUSP1/G6PD/MMP9/PPP3CA/PTGS2	5
GO:0019372	lipoxygenase pathway	2/31	16/18866	3.09×10^{-4}	6.49×10^{-3}	3.38×10^{-3}	ALOX5/PTGS2	2
GO:0071222	cellular response to lipopolysaccharide	4/31	208/18866	3.58×10^{-4}	7.42×10^{-3}	3.86×10^{-3}	LCN2/LY96/PTAFR/TLR4	4
GO:0009612	response to mechanical stimulus	4/31	209/18866	3.64×10^{-4}	7.47×10^{-3}	3.88×10^{-3}	HDAC4/MPO/PTGS2/TLR4	4
GO:0097756	negative regulation of blood vessel diameter	3/31	86/18866	3.75×10^{-4}	7.60×10^{-3}	3.95×10^{-3}	HMGCR/PTAFR/PTGS2	3
GO:0046112	nucleobase biosynthetic process	2/31	18/18866	3.93×10^{-4}	7.88×10^{-3}	4.10×10^{-3}	ADA/APRT	2
GO:0090559	regulation of membrane permeability	3/31	88/18866	4.01×10^{-4}	7.94×10^{-3}	4.13×10^{-3}	HK2/PPP3R1/STAT3	3
GO:0033273	response to vitamin	3/31	91/18866	4.43×10^{-4}	8.66×10^{-3}	4.50×10^{-3}	ADA/ALPL/PTGS2	3
GO:0009150	purine ribonucleotide metabolic process	5/31	401/18866	4.56×10^{-4}	8.66×10^{-3}	4.50×10^{-3}	APRT/HDAC4/HK2/HMGCR/STAT3	5
GO:0019722	calcium-mediated signaling	4/31	222/18866	4.58×10^{-4}	8.66×10^{-3}	4.50×10^{-3}	ADA/HDAC4/PPP3CA/PPP3R1	4
GO:0071219	cellular response to molecule of bacterial origin	4/31	222/18866	4.58×10^{-4}	8.66×10^{-3}	4.50×10^{-3}	LCN2/LY96/PTAFR/TLR4	4
GO:0002532	production of molecular mediator involved in inflammatory response	3/31	93/18866	4.72×10^{-4}	8.66×10^{-3}	4.50×10^{-3}	ALOX5/STAT3/TLR4	3
GO:0051591	response to cAMP	3/31	94/18866	4.87×10^{-4}	8.66×10^{-3}	4.50×10^{-3}	DUSP1/PIK3CG/PTAFR	3
GO:0006144	purine nucleobase metabolic process	2/31	20/18866	4.87×10^{-4}	8.66×10^{-3}	4.50×10^{-3}	ADA/APRT	2
GO:0009168	purine ribonucleoside monophosphate biosynthetic process	2/31	20/18866	4.87×10^{-4}	8.66×10^{-3}	4.50×10^{-3}	ADA/APRT	2
GO:0060965	negative regulation of gene silencing by miRNA	2/31	20/18866	4.87×10^{-4}	8.66×10^{-3}	4.50×10^{-3}	PPP3CA/STAT3	2
GO:0070262	peptidyl-serine dephosphorylation	2/31	20/18866	4.87×10^{-4}	8.66×10^{-3}	4.50×10^{-3}	DUSP1/PPP3CA	2
GO:0007589	body fluid secretion	3/31	95/18866	5.02×10^{-4}	8.82×10^{-3}	4.59×10^{-3}	ADA/APRT/HK2	3
GO:1900543	negative regulation of purine nucleotide metabolic process	2/31	21/18866	5.38×10^{-4}	9.28×10^{-3}	4.83×10^{-3}	HDAC4/STAT3	2
GO:0009259	ribonucleotide metabolic process	5/31	416/18866	5.39×10^{-4}	9.28×10^{-3}	4.83×10^{-3}	APRT/HDAC4/HK2/HMGCR/STAT3	5
GO:0009127	purine nucleoside monophosphate biosynthetic process	2/31	22/18866	5.91×10^{-4}	9.87×10^{-3}	5.13×10^{-3}	ADA/APRT	2
GO:0045980	negative regulation of nucleotide metabolic process	2/31	22/18866	5.91×10^{-4}	9.87×10^{-3}	5.13×10^{-3}	HDAC4/STAT3	2
GO:0043502	regulation of muscle adaptation	3/31	102/18866	6.18×10^{-4}	9.87×10^{-3}	5.13×10^{-3}	G6PD/HDAC4/PPP3CA	3
GO:0098869	cellular oxidant detoxification	3/31	103/18866	6.36×10^{-4}	9.87×10^{-3}	5.13×10^{-3}	MPO/PTGS1/PTGS2	3
GO:0009251	glucan catabolic process	2/31	23/18866	6.47×10^{-4}	9.87×10^{-3}	5.13×10^{-3}	GAA/MGAM	2
GO:0042451	purine nucleoside biosynthetic process	2/31	23/18866	6.47×10^{-4}	9.87×10^{-3}	5.13×10^{-3}	ADA/APRT	2
GO:0042455	ribonucleoside biosynthetic process	2/31	23/18866	6.47×10^{-4}	9.87×10^{-3}	5.13×10^{-3}	ADA/APRT	2
GO:0046129	purine ribonucleoside biosynthetic process	2/31	23/18866	6.47×10^{-4}	9.87×10^{-3}	5.13×10^{-3}	ADA/APRT	2
GO:0060149	negative regulation of posttranscriptional gene silencing	2/31	23/18866	6.47×10^{-4}	9.87×10^{-3}	5.13×10^{-3}	PPP3CA/STAT3	2
GO:0060967	negative regulation of gene silencing by RNA	2/31	23/18866	6.47×10^{-4}	9.87×10^{-3}	5.13×10^{-3}	PPP3CA/STAT3	2
GO:1900017	positive regulation of cytokine production involved in inflammatory response	2/31	23/18866	6.47×10^{-4}	9.87×10^{-3}	5.13×10^{-3}	STAT3/TLR4	2
GO:1903798	regulation of production of miRNAs involved in gene silencing by miRNA	2/31	23/18866	6.47×10^{-4}	9.87×10^{-3}	5.13×10^{-3}	PPP3CA/STAT3	2
GO:1904996	positive regulation of leukocyte adhesion to vascular endothelial cell	2/31	23/18866	6.47×10^{-4}	9.87×10^{-3}	5.13×10^{-3}	ALOX5/PTAFR	2
GO:0003300	cardiac muscle hypertrophy	3/31	104/18866	6.54×10^{-4}	9.88×10^{-3}	5.14×10^{-3}	G6PD/HDAC4/PPP3CA	3
GO:0071216	cellular response to biotic stimulus	4/31	246/18866	6.73×10^{-4}	1.00×10^{-2}	5.20×10^{-3}	LCN2/LY96/PTAFR/TLR4	4
GO:0072330	monocarboxylic acid biosynthetic process	4/31	246/18866	6.73×10^{-4}	1.00×10^{-2}	5.20×10^{-3}	ALOX5/PTGS1/PTGS2/TBXAS1	4
GO:2000379	positive regulation of reactive oxygen species metabolic process	3/31	106/18866	6.91×10^{-4}	1.02×10^{-2}	5.29×10^{-3}	HDAC4/PTGS2/TLR4	3
GO:0044247	cellular polysaccharide catabolic process	2/31	24/18866	7.05×10^{-4}	1.02×10^{-2}	5.29×10^{-3}	GAA/MGAM	2
GO:0098581	detection of external biotic stimulus	2/31	24/18866	7.05×10^{-4}	1.02×10^{-2}	5.29×10^{-3}	LY96/TLR4	2
GO:0014897	striated muscle hypertrophy	3/31	107/18866	7.10×10^{-4}	1.02×10^{-2}	5.29×10^{-3}	G6PD/HDAC4/PPP3CA	3
GO:0009636	response to toxic substance	4/31	250/18866	7.15×10^{-4}	1.02×10^{-2}	5.29×10^{-3}	LCN2/MPO/PTGS1/PTGS2	4
GO:0001819	positive regulation of cytokine production	5/31	447/18866	7.46×10^{-4}	1.04×10^{-2}	5.41×10^{-3}	LY96/PTAFR/PTGS2/STAT3/TLR4	5
GO:0006939	smooth muscle contraction	3/31	109/18866	7.50×10^{-4}	1.04×10^{-2}	5.41×10^{-3}	ADA/PTAFR/PTGS2	3
GO:0014896	muscle hypertrophy	3/31	109/18866	7.50×10^{-4}	1.04×10^{-2}	5.41×10^{-3}	G6PD/HDAC4/PPP3CA	3
GO:0070920	regulation of production of small RNA involved in gene silencing by RNA	2/31	25/18866	7.66×10^{-4}	1.05×10^{-2}	5.47×10^{-3}	PPP3CA/STAT3	2
GO:0032680	regulation of tumor necrosis factor production	3/31	110/18866	7.70×10^{-4}	1.05×10^{-2}	5.47×10^{-3}	LY96/PTAFR/TLR4	3
GO:0008016	regulation of heart contraction	4/31	256/18866	7.81×10^{-4}	1.06×10^{-2}	5.51×10^{-3}	ADA/GAA/HDAC4/PIK3CG	4
GO:0002526	acute inflammatory response	3/31	111/18866	7.90×10^{-4}	1.06×10^{-2}	5.53×10^{-3}	PIK3CG/PTGS2/STAT3	3
GO:0062012	regulation of small molecule metabolic process	3/31	456/18866	8.16×10^{-4}	1.09×10^{-2}	5.65×10^{-3}	HDAC4/HMGCR/PTAFR/PTGS2/STAT3	5
GO:0000272	polysaccharide catabolic process	2/31	26/18866	8.29×10^{-4}	1.09×10^{-2}	5.65×10^{-3}	GAA/MGAM	2
GO:0051156	glucose 6-phosphate metabolic process	2/31	26/18866	8.29×10^{-4}	1.09×10^{-2}	5.65×10^{-3}	G6PD/HK2	2
GO:1903555	regulation of tumor necrosis factor superfamily cytokine production	3/31	113/18866	8.32×10^{-4}	1.09×10^{-2}	5.65×10^{-3}	LY96/PTAFR/TLR4	3
GO:1990748	cellular detoxification	3/31	114/18866	8.54×10^{-4}	1.11×10^{-2}	5.75×10^{-3}	MPO/PTGS1/PTGS2	3
GO:0006096	glycolytic process	3/31	115/18866	8.76×10^{-4}	1.13×10^{-2}	5.85×10^{-3}	HDAC4/HK2/STAT3	3
GO:0006757	ATP generation from ADP	3/31	116/18866	8.98×10^{-4}	1.13×10^{-2}	5.89×10^{-3}	HDAC4/HK2/STAT3	3
GO:0032640	tumor necrosis factor production	3/31	116/18866	8.98×10^{-4}	1.13×10^{-2}	5.89×10^{-3}	LY96/PTAFR/TLR4	3
GO:0009165	nucleotide biosynthetic process	4/31	266/18866	9.01×10^{-4}	1.13×10^{-2}	5.89×10^{-3}	ADA/APRT/PTGS2/STAT3	4

GO:1901293	nucleoside phosphate biosynthetic process	4/31	269/18866	9.39×10^{-4}	1.16×10^{-2}	6.06×10^{-3}	ADA/APRT/PTGS2/STAT3	4
GO:0051091	positive regulation of DNA-binding transcription factor activity	4/31	270/18866	9.52×10^{-4}	1.16×10^{-2}	6.06×10^{-3}	HDAC4/PPP3CA/STAT3/TLR4	4
GO:0045932	negative regulation of muscle contraction	2/31	28/18866	9.62×10^{-4}	1.16×10^{-2}	6.06×10^{-3}	PIK3CG/PTGS2	2
GO:1903579	negative regulation of ATP metabolic process	2/31	28/18866	9.62×10^{-4}	1.16×10^{-2}	6.06×10^{-3}	HDAC4/STAT3	2
GO:0010822	positive regulation of mitochondrion organization	3/31	119/18866	9.67×10^{-4}	1.16×10^{-2}	6.06×10^{-3}	HK2/MMP9/PPP3R1	3
GO:0071706	tumor necrosis factor superfamily cytokine production	3/31	119/18866	9.67×10^{-4}	1.16×10^{-2}	6.06×10^{-3}	LY96/PTAFR/TLR4	3
GO:0036336	dendritic cell migration	2/31	29/18866	1.03×10^{-3}	1.22×10^{-2}	6.33×10^{-3}	ALOX5/PIK3CG	2
GO:0050901	leukocyte tethering or rolling	2/31	29/18866	1.03×10^{-3}	1.22×10^{-2}	6.33×10^{-3}	PTAFR/SELL	2
GO:0045471	response to ethanol	3/31	122/18866	1.04×10^{-3}	1.22×10^{-2}	6.33×10^{-3}	G6PD/HMGCR/STAT3	3
GO:0097237	cellular response to toxic substance	3/31	122/18866	1.04×10^{-3}	1.22×10^{-2}	6.33×10^{-3}	MPO/PTGS1/PTGS2	3
GO:0051051	negative regulation of transport	3/31	483/18866	1.06×10^{-3}	1.23×10^{-2}	6.39×10^{-3}	ADA/HMGCR/MMP9/PPP3CA/PTGS2	5
GO:0042326	negative regulation of phosphorylation	3/31	484/18866	1.07×10^{-3}	1.23×10^{-2}	6.41×10^{-3}	DUSP1/HDAC4/HMGCR/STAT3/TLR4	5
GO:0046031	ADP metabolic process	3/31	124/18866	1.09×10^{-3}	1.25×10^{-2}	6.50×10^{-3}	HDAC4/HK2/STAT3	3
GO:0035666	TRIF-dependent toll-like receptor signaling pathway	2/31	30/18866	1.10×10^{-3}	1.26×10^{-2}	6.53×10^{-3}	LY96/TLR4	2
GO:0008637	apoptotic mitochondrial changes	3/31	125/18866	1.11×10^{-3}	1.26×10^{-2}	6.53×10^{-3}	HK2/MMP9/PPP3R1	3
GO:0043500	muscle adaptation	3/31	125/18866	1.11×10^{-3}	1.26×10^{-2}	6.53×10^{-3}	G6PD/HDAC4/PPP3CA	3
GO:0002675	positive regulation of acute inflammatory response	2/31	31/18866	1.18×10^{-3}	1.29×10^{-2}	6.73×10^{-3}	PIK3CG/PTGS2	2
GO:0003299	muscle hypertrophy in response to stress	2/31	31/18866	1.18×10^{-3}	1.29×10^{-2}	6.73×10^{-3}	HDAC4/PPP3CA	2
GO:0014887	cardiac muscle adaptation	2/31	31/18866	1.18×10^{-3}	1.29×10^{-2}	6.73×10^{-3}	HDAC4/PPP3CA	2
GO:0014898	cardiac muscle hypertrophy in response to stress	2/31	31/18866	1.18×10^{-3}	1.29×10^{-2}	6.73×10^{-3}	HDAC4/PPP3CA	2
GO:0060047	heart contraction	4/31	287/18866	1.19×10^{-3}	1.30×10^{-2}	6.77×10^{-3}	ADA/GAA/HDAC4/PIK3CG	4
GO:0048741	skeletal muscle fiber development	2/31	32/18866	1.26×10^{-3}	1.36×10^{-2}	7.08×10^{-3}	HDAC4/PPP3CA	2
GO:0006165	nucleoside diphosphate phosphorylation	3/31	133/18866	1.33×10^{-3}	1.43×10^{-2}	7.44×10^{-3}	HDAC4/HK2/STAT3	3
GO:0035590	purinergic nucleotide receptor signaling pathway	2/31	33/18866	1.34×10^{-3}	1.43×10^{-2}	7.44×10^{-3}	ADA/PTAFR	2
GO:0003015	heart process	4/31	297/18866	1.35×10^{-3}	1.43×10^{-2}	7.44×10^{-3}	ADA/GAA/HDAC4/PIK3CG	4
GO:0046939	nucleotide phosphorylation	3/31	135/18866	1.39×10^{-3}	1.43×10^{-2}	7.44×10^{-3}	HDAC4/HK2/STAT3	3
GO:0002756	MyD88-independent toll-like receptor signaling pathway	2/31	34/18866	1.42×10^{-3}	1.43×10^{-2}	7.44×10^{-3}	LY96/TLR4	2
GO:0009156	ribonucleoside monophosphate biosynthetic process	2/31	34/18866	1.42×10^{-3}	1.43×10^{-2}	7.44×10^{-3}	ADA/APRT	2
GO:0033198	response to ATP	2/31	34/18866	1.42×10^{-3}	1.43×10^{-2}	7.44×10^{-3}	PTGS2/SELL	2
GO:0042759	long-chain fatty acid biosynthetic process	2/31	34/18866	1.42×10^{-3}	1.43×10^{-2}	7.44×10^{-3}	ALOX5/PTGS2	2
GO:0043094	cellular metabolic compound salvage	2/31	34/18866	1.42×10^{-3}	1.43×10^{-2}	7.44×10^{-3}	ADA/APRT	2
GO:0045907	positive regulation of vasoconstriction	2/31	34/18866	1.42×10^{-3}	1.43×10^{-2}	7.44×10^{-3}	PTAFR/PTGS2	2
GO:0009135	purine nucleoside diphosphate metabolic process	3/31	136/18866	1.42×10^{-3}	1.43×10^{-2}	7.44×10^{-3}	HDAC4/HK2/STAT3	3
GO:0009179	purine ribonucleoside diphosphate metabolic process	3/31	136/18866	1.42×10^{-3}	1.43×10^{-2}	7.44×10^{-3}	HDAC4/HK2/STAT3	3
GO:0098754	detoxification	3/31	138/18866	1.48×10^{-3}	1.48×10^{-2}	7.72×10^{-3}	MPO/PTGS1/PTGS2	3
GO:0009112	nucleobase metabolic process	2/31	35/18866	1.50×10^{-3}	1.49×10^{-2}	7.74×10^{-3}	ADA/APRT	2
GO:0014904	myotube cell development	2/31	35/18866	1.50×10^{-3}	1.49×10^{-2}	7.74×10^{-3}	HDAC4/PPP3CA	2
GO:0009185	ribonucleoside diphosphate metabolic process	3/31	139/18866	1.51×10^{-3}	1.49×10^{-2}	7.74×10^{-3}	HDAC4/HK2/STAT3	3
GO:0060048	cardiac muscle contraction	3/31	140/18866	1.54×10^{-3}	1.51×10^{-2}	7.86×10^{-3}	GAA/HDAC4/PIK3CG	3
GO:0032355	response to estradiol	3/31	141/18866	1.58×10^{-3}	1.51×10^{-2}	7.87×10^{-3}	DUSP1/PTGS2/STAT3	3
GO:0002755	MyD88-dependent toll-like receptor signaling pathway	2/31	36/18866	1.59×10^{-3}	1.51×10^{-2}	7.87×10^{-3}	LY96/TLR4	2
GO:0009595	detection of biotic stimulus	2/31	36/18866	1.59×10^{-3}	1.51×10^{-2}	7.87×10^{-3}	LY96/TLR4	2
GO:0033280	response to vitamin D	2/31	36/18866	1.59×10^{-3}	1.51×10^{-2}	7.87×10^{-3}	ALPL/PTGS2	2
GO:0046676	negative regulation of insulin secretion	2/31	36/18866	1.59×10^{-3}	1.51×10^{-2}	7.87×10^{-3}	HMGCR/PPP3CA	2
GO:0007006	mitochondrial membrane organization	3/31	142/18866	1.61×10^{-3}	1.52×10^{-2}	7.91×10^{-3}	HK2/PPP3R1/STAT3	3
GO:0035296	regulation of tube diameter	3/31	143/18866	1.64×10^{-3}	1.53×10^{-2}	7.96×10^{-3}	HMGCR/PTAFR/PTGS2	3
GO:0097746	regulation of blood vessel diameter	3/31	143/18866	1.64×10^{-3}	1.53×10^{-2}	7.96×10^{-3}	HMGCR/PTAFR/PTGS2	3
GO:0035150	regulation of tube size	3/31	144/18866	1.67×10^{-3}	1.53×10^{-2}	7.96×10^{-3}	HMGCR/PTAFR/PTGS2	3
GO:0009167	purine ribonucleoside monophosphate metabolic process	2/31	37/18866	1.68×10^{-3}	1.53×10^{-2}	7.96×10^{-3}	ADA/APRT	2
GO:0045730	respiratory burst	2/31	37/18866	1.68×10^{-3}	1.53×10^{-2}	7.96×10^{-3}	MPO/PIK3CG	2
GO:0060969	negative regulation of gene silencing	2/31	37/18866	1.68×10^{-3}	1.53×10^{-2}	7.96×10^{-3}	PPP3CA/STAT3	2
GO:1904994	regulation of leukocyte adhesion to vascular endothelial cell	2/31	37/18866	1.68×10^{-3}	1.53×10^{-2}	7.96×10^{-3}	ALOX5/PTAFR	2
GO:0042542	response to hydrogen peroxide	3/31	146/18866	1.74×10^{-3}	1.58×10^{-2}	8.21×10^{-3}	ADA/DUSP1/LCN2	3
GO:0007223	Wnt signaling pathway, calcium modulating pathway	2/31	38/18866	1.77×10^{-3}	1.58×10^{-2}	8.22×10^{-3}	PPP3CA/PPP3R1	2
GO:0032094	response to food	2/31	38/18866	1.77×10^{-3}	1.58×10^{-2}	8.22×10^{-3}	G6PD/MPO	2
GO:0032733	positive regulation of interleukin-10 production	2/31	38/18866	1.77×10^{-3}	1.58×10^{-2}	8.22×10^{-3}	STAT3/TLR4	2
GO:1901214	regulation of neuron death	4/31	321/18866	1.80×10^{-3}	1.60×10^{-2}	8.32×10^{-3}	G6PD/HDAC4/STAT3/TLR4	4
GO:0010675	regulation of cellular carbohydrate metabolic process	3/31	148/18866	1.81×10^{-3}	1.60×10^{-2}	8.32×10^{-3}	HDAC4/PTAFR/STAT3	3
GO:0009895	negative regulation of catabolic process	4/31	323/18866	1.84×10^{-3}	1.62×10^{-2}	8.42×10^{-3}	HDAC4/HMGCR/PIK3CG/STAT3	4
GO:0009163	nucleoside biosynthetic process	2/31	39/18866	1.86×10^{-3}	1.63×10^{-2}	8.48×10^{-3}	ADA/APRT	2
GO:0006606	protein import into nucleus	3/31	150/18866	1.88×10^{-3}	1.64×10^{-2}	8.51×10^{-3}	PPP3CA/PTGS2/STAT3	3
GO:0071496	cellular response to external stimulus	4/31	326/18866	1.91×10^{-3}	1.65×10^{-2}	8.57×10^{-3}	HDAC4/LCN2/PTGS2/TLR4	4
GO:0061041	regulation of wound healing	3/31	151/18866	1.92×10^{-3}	1.65×10^{-2}	8.57×10^{-3}	ALOX5/HMGCR/TLR4	3
GO:0006090	pyruvate metabolic process	3/31	152/18866	1.95×10^{-3}	1.65×10^{-2}	8.57×10^{-3}	HDAC4/HK2/STAT3	3
GO:0006730	one-carbon metabolic process	2/31	40/18866	1.96×10^{-3}	1.65×10^{-2}	8.57×10^{-3}	CA1/CA4	2
GO:0009126	purine nucleoside monophosphate metabolic process	2/31	40/18866	1.96×10^{-3}	1.65×10^{-2}	8.57×10^{-3}	ADA/APRT	2
GO:0034142	toll-like receptor 4 signaling pathway	2/31	40/18866	1.96×10^{-3}	1.65×10^{-2}	8.57×10^{-3}	LY96/TLR4	2
GO:0043902	positive regulation of multi-organism process	2/31	40/18866	1.96×10^{-3}	1.65×10^{-2}	8.57×10^{-3}	HDAC4/PTAFR	2
GO:0001678	cellular glucose homeostasis	3/31	153/18866	1.99×10^{-3}	1.66×10^{-2}	8.61×10^{-3}	HK2/HMGCR/PPP3CA	3
GO:0016202	regulation of striated muscle tissue development	3/31	153/18866	1.99×10^{-3}	1.66×10^{-2}	8.61×10^{-3}	G6PD/HDAC4/HMGCR	3
GO:0071214	cellular response to abiotic stimulus	4/31	331/18866	2.01×10^{-3}	1.66×10^{-2}	8.63×10^{-3}	HDAC4/PTAFR/PTGS2/TLR4	4
GO:0104004	cellular response to environmental stimulus	4/31	331/18866	2.01×10^{-3}	1.66×10^{-2}	8.63×10^{-3}	HDAC4/PTAFR/PTGS2/TLR4	4
GO:0062013	positive regulation of small molecule metabolic process	3/31	154/18866	2.03×10^{-3}	1.66×10^{-2}	8.65×10^{-3}	PTAFR/PTGS2/STAT3	3
GO:0007618	mating	2/31	41/18866	2.06×10^{-3}	1.67×10^{-2}	8.69×10^{-3}	ADA/HDAC4	2

GO:0030890	positive regulation of B cell proliferation	2/31	41/18866	2.06×10^{-3}	1.67×10^{-2}	8.69×10^{-3}	ADA/TLR4	2
GO:0009132	nucleoside diphosphate metabolic process	3/31	155/18866	2.07×10^{-3}	1.67×10^{-2}	8.69×10^{-3}	HDAC4/HK2/STAT3	3
GO:1901861	regulation of muscle tissue development	3/31	156/18866	2.10×10^{-3}	1.69×10^{-2}	8.80×10^{-3}	G6PD/HDAC4/HMGCR	3
GO:0048634	regulation of muscle organ development	3/31	157/18866	2.14×10^{-3}	1.72×10^{-2}	8.92×10^{-3}	G6PD/HDAC4/HMGCR	3
GO:0090278	negative regulation of peptide hormone secretion	2/31	42/18866	2.16×10^{-3}	1.72×10^{-2}	8.96×10^{-3}	HMGCR/PPP3CA	2
GO:0007519	skeletal muscle tissue development	3/31	158/18866	2.18×10^{-3}	1.73×10^{-2}	9.00×10^{-3}	HDAC4/HMGCR/PPP3CA	3
GO:0015701	bicarbonate transport	2/31	43/18866	2.26×10^{-3}	1.76×10^{-2}	9.15×10^{-3}	CA1/CA4	2
GO:0051154	negative regulation of striated muscle cell differentiation	2/31	43/18866	2.26×10^{-3}	1.76×10^{-2}	9.15×10^{-3}	G6PD/HDAC4	2
GO:0150077	regulation of neuroinflammatory response	2/31	43/18866	2.26×10^{-3}	1.76×10^{-2}	9.15×10^{-3}	MMP9/PTGS2	2
GO:1901659	glycosyl compound biosynthetic process	2/31	43/18866	2.26×10^{-3}	1.76×10^{-2}	9.15×10^{-3}	ADA/APRT	2
GO:0043405	regulation of MAP kinase activity	4/31	342/18866	2.27×10^{-3}	1.76×10^{-2}	9.15×10^{-3}	DUSP1/HMGCR/PIK3CG/TLR4	4
GO:0048545	response to steroid hormone	4/31	346/18866	2.37×10^{-3}	1.81×10^{-2}	9.40×10^{-3}	ALPL/DUSP1/PTAFR/PTGS2	4
GO:0009124	nucleoside monophosphate biosynthetic process	2/31	44/18866	2.37×10^{-3}	1.81×10^{-2}	9.40×10^{-3}	ADA/APRT	2
GO:0033173	calcineurin-NFAT signaling cascade	2/31	44/18866	2.37×10^{-3}	1.81×10^{-2}	9.40×10^{-3}	PPP3CA/PPP3R1	2
GO:0031214	biomineral tissue development	3/31	163/18866	2.38×10^{-3}	1.81×10^{-2}	9.40×10^{-3}	ALOX5/ALPL/PTGS2	3
GO:0110148	biomineralization	3/31	163/18866	2.38×10^{-3}	1.81×10^{-2}	9.40×10^{-3}	ALOX5/ALPL/PTGS2	3
GO:0046165	alcohol biosynthetic process	3/31	164/18866	2.42×10^{-3}	1.83×10^{-2}	9.53×10^{-3}	G6PD/HMGCR/PTAFR	3
GO:0010677	negative regulation of cellular carbohydrate metabolic process	2/31	45/18866	2.48×10^{-3}	1.84×10^{-2}	9.56×10^{-3}	HDAC4/STAT3	2
GO:0034122	negative regulation of toll-like receptor signaling pathway	2/31	45/18866	2.48×10^{-3}	1.84×10^{-2}	9.56×10^{-3}	LY96/TLR4	2
GO:0045429	positive regulation of nitric oxide biosynthetic process	2/31	45/18866	2.48×10^{-3}	1.84×10^{-2}	9.56×10^{-3}	PTGS2/TLR4	2
GO:0070266	necroptotic process	2/31	45/18866	2.48×10^{-3}	1.84×10^{-2}	9.56×10^{-3}	LY96/TLR4	2
GO:0050708	regulation of protein secretion	4/31	352/18866	2.52×10^{-3}	1.86×10^{-2}	9.68×10^{-3}	ALOX5/HMGCR/PPP3CA/TLR4	4
GO:0044275	cellular carbohydrate catabolic process	2/31	46/18866	2.59×10^{-3}	1.90×10^{-2}	9.85×10^{-3}	GAA/MGAM	2
GO:1904407	positive regulation of nitric oxide metabolic process	2/31	46/18866	2.59×10^{-3}	1.90×10^{-2}	9.85×10^{-3}	PTGS2/TLR4	2
GO:0060538	skeletal muscle organ development	3/31	168/18866	2.60×10^{-3}	1.90×10^{-2}	9.85×10^{-3}	HDAC4/HMGCR/PPP3CA	3
GO:0055002	striated muscle cell development	3/31	169/18866	2.64×10^{-3}	1.92×10^{-2}	9.98×10^{-3}	G6PD/HDAC4/PPP3CA	3
GO:0034614	cellular response to reactive oxygen species	3/31	170/18866	2.68×10^{-3}	1.94×10^{-2}	1.01×10^{-2}	LCN2/MMP9/MPO	3
GO:0006953	acute-phase response	2/31	47/18866	2.70×10^{-3}	1.94×10^{-2}	1.01×10^{-2}	PTGS2/STAT3	2
GO:0001666	response to hypoxia	4/31	359/18866	2.70×10^{-3}	1.94×10^{-2}	1.01×10^{-2}	ADA/HK2/PLOD1/PTGS2	4
GO:0051170	import into nucleus	3/31	171/18866	2.73×10^{-3}	1.94×10^{-2}	1.01×10^{-2}	PPP3CA/PTGS2/STAT3	3
GO:0070997	neuron death	4/31	360/18866	2.73×10^{-3}	1.94×10^{-2}	1.01×10^{-2}	G6PD/HDAC4/STAT3/TLR4	4
GO:0033628	regulation of cell adhesion mediated by integrin	2/31	48/18866	2.81×10^{-3}	1.99×10^{-2}	1.04×10^{-2}	ADA/PIK3CG	2
GO:0007159	leukocyte cell-cell adhesion	4/31	364/18866	2.84×10^{-3}	2.01×10^{-2}	1.04×10^{-2}	ADA/ALOX5/PTAFR/SELL	4
GO:0046394	carboxylic acid biosynthetic process	4/31	367/18866	2.93×10^{-3}	2.01×10^{-2}	1.05×10^{-2}	ALOX5/PTGS1/PTGS2/TBXAS1	4
GO:0002673	regulation of acute inflammatory response	2/31	49/18866	2.93×10^{-3}	2.01×10^{-2}	1.05×10^{-2}	PIK3CG/PTGS2	2
GO:0002686	negative regulation of leukocyte migration	2/31	49/18866	2.93×10^{-3}	2.01×10^{-2}	1.05×10^{-2}	ADA/DUSP1	2
GO:0007595	lactation	2/31	49/18866	2.93×10^{-3}	2.01×10^{-2}	1.05×10^{-2}	APRT/HK2	2
GO:0035196	production of miRNAs involved in gene silencing by miRNA	2/31	49/18866	2.93×10^{-3}	2.01×10^{-2}	1.05×10^{-2}	PPP3CA/STAT3	2
GO:0048641	regulation of skeletal muscle tissue development	2/31	49/18866	2.93×10^{-3}	2.01×10^{-2}	1.05×10^{-2}	HDAC4/HMGCR	2
GO:0097720	calcineurin-mediated signaling	2/31	49/18866	2.93×10^{-3}	2.01×10^{-2}	1.05×10^{-2}	PPP3CA/PPP3R1	2
GO:0016053	organic acid biosynthetic process	4/31	368/18866	2.96×10^{-3}	2.02×10^{-2}	1.05×10^{-2}	ALOX5/PTGS1/PTGS2/TBXAS1	4
GO:0036293	response to decreased oxygen levels	4/31	371/18866	3.04×10^{-3}	2.07×10^{-2}	1.07×10^{-2}	ADA/HK2/PLOD1/PTGS2	4
GO:0097300	programmed necrotic cell death	2/31	50/18866	3.05×10^{-3}	2.07×10^{-2}	1.07×10^{-2}	LY96/TLR4	2
GO:0006941	striated muscle contraction	3/31	178/18866	3.06×10^{-3}	2.07×10^{-2}	1.07×10^{-2}	GAA/HDAC4/PIK3CG	3
GO:0009161	ribonucleoside monophosphate metabolic process	2/31	51/18866	3.17×10^{-3}	2.12×10^{-2}	1.10×10^{-2}	ADA/APRT	2
GO:0045912	negative regulation of carbohydrate metabolic process	2/31	51/18866	3.17×10^{-3}	2.12×10^{-2}	1.10×10^{-2}	HDAC4/STAT3	2
GO:1902893	regulation of pri-miRNA transcription by RNA polymerase II	2/31	51/18866	3.17×10^{-3}	2.12×10^{-2}	1.10×10^{-2}	HDAC4/STAT3	2
GO:0050796	regulation of insulin secretion	3/31	181/18866	3.20×10^{-3}	2.13×10^{-2}	1.11×10^{-2}	ALOX5/HMGCR/PPP3CA	3
GO:0055001	muscle cell development	3/31	183/18866	3.30×10^{-3}	2.18×10^{-2}	1.13×10^{-2}	G6PD/HDAC4/PPP3CA	3
GO:1903034	regulation of response to wounding	3/31	183/18866	3.30×10^{-3}	2.18×10^{-2}	1.13×10^{-2}	ALOX5/HMGCR/TLR4	3
GO:0002791	regulation of peptide secretion	4/31	381/18866	3.35×10^{-3}	2.20×10^{-2}	1.14×10^{-2}	ALOX5/HMGCR/PPP3CA/TLR4	4
GO:0009311	oligosaccharide metabolic process	2/31	53/18866	3.42×10^{-3}	2.21×10^{-2}	1.15×10^{-2}	GAA/MGAM	2
GO:0032731	positive regulation of interleukin-1 beta production	2/31	53/18866	3.42×10^{-3}	2.21×10^{-2}	1.15×10^{-2}	STAT3/TLR4	2
GO:0061614	pri-miRNA transcription by RNA polymerase II	2/31	53/18866	3.42×10^{-3}	2.21×10^{-2}	1.15×10^{-2}	HDAC4/STAT3	2
GO:0071320	cellular response to cAMP	2/31	53/18866	3.42×10^{-3}	2.21×10^{-2}	1.15×10^{-2}	PIK3CG/PTAFR	2
GO:0006066	alcohol metabolic process	4/31	385/18866	3.47×10^{-3}	2.22×10^{-2}	1.15×10^{-2}	ALDH2/G6PD/HMGCR/PTAFR	4
GO:0031349	positive regulation of defense response	4/31	385/18866	3.47×10^{-3}	2.22×10^{-2}	1.15×10^{-2}	PIK3CG/PTGS2/STAT3/TLR4	4
GO:0002285	lymphocyte activation involved in immune response	3/31	187/18866	$3.51\times10^{-}$	2.22×10^{-2}	1.15×10^{-2}	ADA/STAT3/TLR4	3
GO:0008217	regulation of blood pressure	3/31	187/18866	3.51×10^{-3}	2.22×10^{-2}	1.15×10^{-2}	PTAFR/PTGS1/PTGS2	3
GO:0043409	negative regulation of MAPK cascade	3/31	187/18866	3.51×10^{-3}	2.22×10^{-2}	1.15×10^{-2}	DUSP1/HMGCR/TLR4	3
GO:0009620	response to fungus	2/31	54/18866	3.55×10^{-3}	2.22×10^{-2}	1.15×10^{-2}	MPO/TLR4	2
GO:0031050	dsRNA processing	2/31	54/18866	3.55×10^{-3}	2.22×10^{-2}	1.15×10^{-2}	PPP3CA/STAT3	2
GO:0032757	positive regulation of interleukin-8 production	2/31	54/18866	3.55×10^{-3}	2.22×10^{-2}	1.15×10^{-2}	STAT3/TLR4	2
GO:0070918	production of small RNA involved in gene silencing by RNA	2/31	54/18866	3.55×10^{-3}	2.22×10^{-2}	1.15×10^{-2}	PPP3CA/STAT3	2
GO:0014706	striated muscle tissue development	4/31	389/18866	3.61×10^{-3}	2.25×10^{-2}	1.17×10^{-2}	G6PD/HDAC4/HMGCR/PPP3CA	4
GO:0003018	vascular process in circulatory system	3/31	190/18866	3.67×10^{-3}	2.26×10^{-2}	1.18×10^{-2}	HMGCR/PTAFR/PTGS2	3
GO:0051048	negative regulation of secretion	3/31	190/18866	3.67×10^{-3}	2.26×10^{-2}	1.18×10^{-2}	ADA/HMGCR/PPP3CA	3
GO:0001706	endoderm formation	2/31	55/18866	3.68×10^{-3}	2.26×10^{-2}	1.18×10^{-2}	DUSP1/MMP9	2
GO:0014888	striated muscle adaptation	2/31	55/18866	3.68×10^{-3}	2.26×10^{-2}	1.18×10^{-2}	HDAC4/PPP3CA	2
GO:0010821	regulation of mitochondrion organization	3/31	191/18866	3.73×10^{-3}	2.29×10^{-2}	1.19×10^{-2}	HK2/MMP9/PPP3R1	3
GO:1904645	response to amyloid-beta	2/31	56/18866	3.81×10^{-3}	2.33×10^{-2}	1.21×10^{-2}	MMP9/TLR4	2
GO:0006631	fatty acid metabolic process	4/31	396/18866	3.84×10^{-3}	2.33×10^{-2}	1.21×10^{-2}	ALOX5/PTGS1/PTGS2/TBXAS1	4

GO:0070482	response to oxygen levels	4/31	396/18866	3.84×10^{-3}	2.33×10^{-2}	1.21×10^{-2}	ADA/HK2/PLOD1/PTGS2	4
GO:0046390	ribose phosphate biosynthetic process	3/31	194/18866	3.89×10^{-3}	2.35×10^{-2}	1.22×10^{-2}	APRT/G6PD/STAT3	3
GO:0042743	hydrogen peroxide metabolic process	2/31	57/18866	3.94×10^{-3}	2.36×10^{-2}	1.23×10^{-2}	MPO/STAT3	2
GO:0046148	pigment biosynthetic process	2/31	57/18866	3.94×10^{-3}	2.36×10^{-2}	1.23×10^{-2}	ADA/APRT	2
GO:0048016	inositol phosphate-mediated signaling	2/31	57/18866	3.94×10^{-3}	2.36×10^{-2}	1.23×10^{-2}	PPP3CA/PPP3R1	2
GO:0006164	purine nucleotide biosynthetic process	3/31	197/18866	4.06×10^{-3}	2.41×10^{-2}	1.25×10^{-2}	ADA/APRT/STAT3	3
GO:0007566	embryo implantation	2/31	58/18866	4.08×10^{-3}	2.41×10^{-2}	1.25×10^{-2}	MMP9/PTGS2	2
GO:0046128	purine ribonucleoside metabolic process	2/31	58/18866	4.08×10^{-3}	2.41×10^{-2}	1.25×10^{-2}	ADA/APRT	2
GO:0045765	regulation of angiogenesis	4/31	403/18866	4.09×10^{-3}	2.41×10^{-2}	1.25×10^{-2}	ALOX5/HK2/PTGS2/STAT3	4
GO:0007517	muscle organ development	4/31	407/18866	4.24×10^{-3}	2.48×10^{-2}	1.29×10^{-2}	G6PD/HDAC4/HMGCR/PPP3CA	4
GO:0017038	protein import	3/31	200/18866	4.24×10^{-3}	2.48×10^{-2}	1.29×10^{-2}	PPP3CA/PTGS2/STAT3	3
GO:0060537	muscle tissue development	4/31	409/18866	4.31×10^{-3}	2.50×10^{-2}	1.30×10^{-2}	G6PD/HDAC4/HMGCR/PPP3CA	4
GO:0019229	regulation of vasoconstriction	2/31	60/18866	4.36×10^{-3}	2.50×10^{-2}	1.30×10^{-2}	PTAFR/PTGS2	2
GO:0032653	regulation of interleukin-10 production	2/31	60/18866	4.36×10^{-3}	2.50×10^{-2}	1.30×10^{-2}	STAT3/TLR4	2
GO:0032732	positive regulation of interleukin-1 production	2/31	60/18866	4.36×10^{-3}	2.50×10^{-2}	1.30×10^{-2}	STAT3/TLR4	2
GO:0048747	muscle fiber development	2/31	60/18866	4.36×10^{-3}	2.50×10^{-2}	1.30×10^{-2}	HDAC4/PPP3CA	2
GO:2000242	negative regulation of reproductive process	2/31	60/18866	4.36×10^{-3}	2.50×10^{-2}	1.30×10^{-2}	ADA/DUSP1	2
GO:0009746	response to hexose	3/31	202/18866	4.36×10^{-3}	2.50×10^{-2}	1.30×10^{-2}	HMGCR/PPP3CA/PTGS2	3
GO:0001503	ossification	4/31	412/18866	4.42×10^{-3}	2.52×10^{-2}	1.31×10^{-2}	ALOX5/ALPL/HDAC4/PTGS2	4
GO:0042278	purine nucleoside metabolic process	2/31	61/18866	4.50×10^{-3}	2.55×10^{-2}	1.33×10^{-2}	ADA/APRT	2
GO:0046888	negative regulation of hormone secretion	2/31	61/18866	4.50×10^{-3}	2.55×10^{-2}	1.33×10^{-2}	HMGCR/PPP3CA	2
GO:0030888	regulation of B cell proliferation	2/31	62/18866	4.65×10^{-3}	2.63×10^{-2}	1.36×10^{-2}	ADA/TLR4	2
GO:0034284	response to monosaccharide	3/31	207/18866	4.67×10^{-3}	2.63×10^{-2}	1.37×10^{-2}	HMGCR/PPP3CA/PTGS2	3
GO:0045766	positive regulation of angiogenesis	3/31	208/18866	4.73×10^{-3}	2.65×10^{-2}	1.38×10^{-2}	HK2/PTGS2/STAT3	3
GO:0072522	purine-containing compound biosynthetic process	3/31	208/18866	4.73×10^{-3}	2.65×10^{-2}	1.38×10^{-2}	ADA/APRT/STAT3	3
GO:0032613	interleukin-10 production	2/31	63/18866	4.79×10^{-3}	2.67×10^{-2}	1.39×10^{-2}	STAT3/TLR4	2
GO:0006109	regulation of carbohydrate metabolic process	3/31	210/18866	4.86×10^{-3}	2.70×10^{-2}	1.40×10^{-2}	HDAC4/PTAFR/STAT3	3
GO:0070265	necrotic cell death	2/31	64/18866	4.94×10^{-3}	2.74×10^{-2}	1.42×10^{-2}	LY96/TLR4	2
GO:0006816	calcium ion transport	4/31	426/18866	4.98×10^{-3}	2.75×10^{-2}	1.43×10^{-2}	G6PD/PIK3CG/PPP3CA/PTGS2	4
GO:0002685	regulation of leukocyte migration	3/31	212/18866	4.99×10^{-3}	2.75×10^{-2}	1.43×10^{-2}	ADA/DUSP1/PTAFR	3
GO:0030073	insulin secretion	3/31	213/18866	5.05×10^{-3}	2.76×10^{-2}	1.43×10^{-2}	ALOX5/HMGCR/PPP3CA	3
GO:0090276	regulation of peptide hormone secretion	3/31	213/18866	5.05×10^{-3}	2.76×10^{-2}	1.43×10^{-2}	ALOX5/HMGCR/PPP3CA	3
GO:0045785	positive regulation of cell adhesion	4/31	428/18866	5.06×10^{-3}	2.76×10^{-2}	1.43×10^{-2}	ADA/ALOX5/PPP3CA/PTAFR	4
GO:0006006	glucose metabolic process	3/31	214/18866	5.12×10^{-3}	2.78×10^{-2}	1.45×10^{-2}	G6PD/GAA/HK2	3
GO:0030099	myeloid cell differentiation	4/31	431/18866	5.19×10^{-3}	2.81×10^{-2}	1.46×10^{-2}	G6PD/MMP9/STAT3/TLR4	4
GO:0051651	maintenance of location in cell	3/31	216/18866	5.25×10^{-3}	2.84×10^{-2}	1.48×10^{-2}	GAA/HK2/LCN2	3
GO:0032102	negative regulation of response to external stimulus	4/31	433/18866	5.27×10^{-3}	2.84×10^{-2}	1.48×10^{-2}	ADA/ALOX5/DUSP1/HMGCR	4
GO:0045428	regulation of nitric oxide biosynthetic process	2/31	68/18866	5.56×10^{-3}	2.98×10^{-2}	1.55×10^{-2}	PTGS2/TLR4	2
GO:0051148	negative regulation of muscle cell differentiation	2/31	68/18866	5.56×10^{-3}	2.98×10^{-2}	1.55×10^{-2}	G6PD/HDAC4	2
GO:0048732	gland development	4/31	443/18866	5.71×10^{-3}	3.05×10^{-2}	1.58×10^{-2}	ADA/APRT/HK2/IGF2R	4
GO:1901342	regulation of vasculature development	4/31	444/18866	5.76×10^{-3}	3.06×10^{-2}	1.59×10^{-2}	ALOX5/HK2/PTGS2/STAT3	4
GO:0044706	multi-multicellular organism process	3/31	226/18866	5.95×10^{-3}	3.16×10^{-2}	1.64×10^{-2}	MMP9/PTAFR/PTGS2	3
GO:0033627	cell adhesion mediated by integrin	2/31	71/18866	6.05×10^{-3}	3.20×10^{-2}	1.66×10^{-2}	ADA/PIK3CG	2
GO:0009119	ribonucleoside metabolic process	2/31	72/18866	6.22×10^{-3}	3.26×10^{-2}	1.69×10^{-2}	ADA/APRT	2
GO:0009123	nucleoside monophosphate metabolic process	2/31	72/18866	6.22×10^{-3}	3.26×10^{-2}	1.69×10^{-2}	ADA/APRT	2
GO:0042440	pigment metabolic process	2/31	72/18866	6.22×10^{-3}	3.26×10^{-2}	1.69×10^{-2}	ADA/APRT	2
GO:0051090	regulation of DNA-binding transcription factor activity	4/31	455/18866	6.27×10^{-3}	3.28×10^{-2}	1.70×10^{-2}	HDAC4/PPP3CA/STAT3/TLR4	4
GO:0019932	second-messenger-mediated signaling	4/31	456/18866	6.32×10^{-3}	3.29×10^{-2}	1.71×10^{-2}	ADA/HDAC4/PPP3CA/PPP3R1	4
GO:0010611	regulation of cardiac muscle hypertrophy	2/31	73/18866	6.39×10^{-3}	3.31×10^{-2}	1.72×10^{-2}	G6PD/PPP3CA	2
GO:0030595	leukocyte chemotaxis	3/31	232/18866	6.40×10^{-3}	3.31×10^{-2}	1.72×10^{-2}	ALOX5/DUSP1/PIK3CG	3
GO:0009743	response to carbohydrate	3/31	233/18866	6.48×10^{-3}	3.34×10^{-2}	1.74×10^{-2}	HMGCR/PPP3CA/PTGS2	3
GO:0097305	response to alcohol	3/31	234/18866	6.55×10^{-3}	3.34×10^{-2}	1.74×10^{-2}	G6PD/HMGCR/STAT3	3
GO:0006073	cellular glucan metabolic process	2/31	74/18866	6.56×10^{-3}	3.34×10^{-2}	1.74×10^{-2}	GAA/MGAM	2
GO:0034121	regulation of toll-like receptor signaling pathway	2/31	74/18866	6.56×10^{-3}	3.34×10^{-2}	1.74×10^{-2}	LY96/TLR4	2
GO:0044042	glucan metabolic process	2/31	74/18866	6.56×10^{-3}	3.34×10^{-2}	1.74×10^{-2}	GAA/MGAM	2
GO:0009306	protein secretion	4/31	462/18866	6.62×10^{-3}	3.35×10^{-2}	1.74×10^{-2}	ALOX5/HMGCR/PPP3CA/TLR4	4
GO:1903039	positive regulation of leukocyte cell-cell adhesion	3/31	235/18866	6.63×10^{-3}	3.35×10^{-2}	1.74×10^{-2}	ADA/ALOX5/PTAFR	3
GO:1904018	positive regulation of vasculature development	3/31	235/18866	6.63×10^{-3}	3.35×10^{-2}	1.74×10^{-2}	HK2/PTGS2/STAT3	3
GO:0035592	establishment of protein localization to extracellular region	4/31	463/18866	6.67×10^{-3}	3.36×10^{-2}	1.75×10^{-2}	ALOX5/HMGCR/PPP3CA/TLR4	4
GO:0006695	cholesterol biosynthetic process	2/31	75/18866	6.73×10^{-3}	3.37×10^{-2}	1.75×10^{-2}	G6PD/HMGCR	2
GO:1902653	secondary alcohol biosynthetic process	2/31	75/18866	6.73×10^{-3}	3.37×10^{-2}	1.75×10^{-2}	G6PD/HMGCR	2
GO:0032872	regulation of stress-activated MAPK cascade	3/31	237/18866	6.79×10^{-3}	3.39×10^{-2}	1.76×10^{-2}	DUSP1/HMGCR/TLR4	3
GO:0014743	regulation of muscle hypertrophy	2/31	76/18866	6.90×10^{-3}	3.44×10^{-2}	1.79×10^{-2}	G6PD/PPP3CA	2
GO:0071692	protein localization to extracellular region	4/31	470/18866	7.02×10^{-3}	3.48×10^{-2}	1.81×10^{-2}	ALOX5/HMGCR/PPP3CA/TLR4	4
GO:0070302	regulation of stress-activated protein kinase signaling cascade	3/31	240/18866	7.03×10^{-3}	3.48×10^{-2}	1.81×10^{-2}	DUSP1/HMGCR/TLR4	3
GO:0070838	divalent metal ion transport	4/31	471/18866	7.08×10^{-3}	3.49×10^{-2}	1.81×10^{-2}	G6PD/PIK3CG/PPP3CA/PTGS2	4
GO:0150076	neuroinflammatory response	2/31	77/18866	7.08×10^{-3}	3.49×10^{-2}	1.81×10^{-2}	MMP9/PTGS2	2
GO:0042310	vasoconstriction	2/31	78/18866	7.26×10^{-3}	3.55×10^{-2}	1.85×10^{-2}	PTAFR/PTGS2	2
GO:0061045	negative regulation of wound healing	2/31	78/18866	7.26×10^{-3}	3.55×10^{-2}	1.85×10^{-2}	ALOX5/HMGCR	2
GO:0006809	nitric oxide biosynthetic process	2/31	79/18866	7.44×10^{-3}	3.59×10^{-2}	1.87×10^{-2}	PTGS2/TLR4	2
GO:0007492	endoderm development	2/31	79/18866	7.44×10^{-3}	3.59×10^{-2}	1.87×10^{-2}	DUSP1/MMP9	2
GO:0043407	negative regulation of MAP kinase activity	2/31	79/18866	7.44×10^{-3}	3.59×10^{-2}	1.87×10^{-2}	DUSP1/HMGCR	2
GO:0070373	negative regulation of ERK1 and ERK2 cascade	2/31	79/18866	7.44×10^{-3}	3.59×10^{-2}	1.87×10^{-2}	DUSP1/TLR4	2
GO:0072511	divalent inorganic cation transport	4/31	478/18866	7.45×10^{-3}	3.59×10^{-2}	1.87×10^{-2}	G6PD/PIK3CG/PPP3CA/PTGS2	4
GO:0002312	B cell activation involved in immune response	2/31	80/18866	7.62×10^{-3}	3.66×10^{-2}	1.90×10^{-2}	ADA/TLR4	2

GO:0006110	regulation of glycolytic process	2/31	80/18866	7.62×10^{-3}	3.66×10^{-2}	1.90×10^{-2}	HDAC4/STAT3	2
GO:0042110	T cell activation	4/31	483/18866	7.72×10^{-3}	3.70×10^{-2}	1.92×10^{-2}	ADA/PIK3CG/PPP3CA/STAT3	4
GO:0016126	sterol biosynthetic process	2/31	81/18866	7.81×10^{-3}	3.73×10^{-2}	1.94×10^{-2}	G6PD/HMGCR	2
GO:1902930	regulation of alcohol biosynthetic process	2/31	82/18866	8.00×10^{-3}	3.81×10^{-2}	1.98×10^{-2}	HMGCR/PTAFR	2
GO:0034765	regulation of ion transmembrane transport	4/31	489/18866	8.06×10^{-3}	3.82×10^{-2}	1.99×10^{-2}	G6PD/MMP9/PIK3CG/PTAFR	4
GO:0051924	regulation of calcium ion transport	3/31	253/18866	8.12×10^{-3}	3.84×10^{-2}	2.00×10^{-2}	G6PD/PIK3CG/PTGS2	3
GO:0048708	astrocyte differentiation	2/31	83/18866	8.19×10^{-3}	3.84×10^{-2}	2.00×10^{-2}	STAT3/TLR4	2
GO:0055117	regulation of cardiac muscle contraction	2/31	83/18866	8.19×10^{-3}	3.84×10^{-2}	2.00×10^{-2}	HDAC4/PIK3CG	2
GO:2000243	positive regulation of reproductive process	2/31	83/18866	8.19×10^{-3}	3.84×10^{-2}	2.00×10^{-2}	HDAC4/PTAFR	2
GO:0019318	hexose metabolic process	3/31	254/18866	8.21×10^{-3}	3.84×10^{-2}	2.00×10^{-2}	G6PD/GAA/HK2	3
GO:0016311	dephosphorylation	4/31	492/18866	8.23×10^{-3}	3.84×10^{-2}	2.00×10^{-2}	ALPL/DUSP1/PPP3CA/PPP3R1	4
GO:0046209	nitric oxide metabolic process	2/31	84/18866	8.38×10^{-3}	3.89×10^{-2}	2.02×10^{-2}	PTGS2/TLR4	2
GO:0048872	homeostasis of number of cells	3/31	256/18866	8.39×10^{-3}	3.89×10^{-2}	2.02×10^{-2}	ADA/G6PD/STAT3	3
GO:0030072	peptide hormone secretion	3/31	257/18866	8.47×10^{-3}	3.93×10^{-2}	2.04×10^{-2}	ALOX5/HMGCR/PPP3CA	3
GO:1901617	organic hydroxy compound biosynthetic process	3/31	258/18866	8.57×10^{-3}	3.95×10^{-2}	2.05×10^{-2}	G6PD/HMGCR/PTAFR	3
GO:0043154	negative regulation of cysteine-type endopeptidase activity involved in apoptotic process	2/31	85/18866	8.57×10^{-3}	3.95×10^{-2}	2.05×10^{-2}	MMP9/PTGS2	2
GO:0009144	purine nucleoside triphosphate metabolic process	2/31	87/18866	8.96×10^{-3}	4.11×10^{-2}	2.14×10^{-2}	ADA/STAT3	2
GO:2001057	reactive nitrogen species metabolic process	2/31	87/18866	8.96×10^{-3}	4.11×10^{-2}	2.14×10^{-2}	PTGS2/TLR4	2
GO:0032755	positive regulation of interleukin-6 production	2/31	88/18866	9.16×10^{-3}	4.19×10^{-2}	2.18×10^{-2}	STAT3/TLR4	2
GO:0046883	regulation of hormone secretion	3/31	267/18866	9.40×10^{-3}	4.29×10^{-2}	2.23×10^{-2}	ALOX5/HMGCR/PPP3CA	3
GO:0043470	regulation of carbohydrate catabolic process	2/31	90/18866	9.57×10^{-3}	4.34×10^{-2}	2.25×10^{-2}	HDAC4/STAT3	2
GO:0070542	response to fatty acid	2/31	90/18866	9.57×10^{-3}	4.34×10^{-2}	2.25×10^{-2}	PTAFR/PTGS2	2
GO:0006839	mitochondrial transport	3/31	271/18866	9.79×10^{-3}	4.43×10^{-2}	2.30×10^{-2}	HK2/PPP3R1/STAT3	3
GO:1900407	regulation of cellular response to oxidative stress	2/31	92/18866	9.98×10^{-3}	4.50×10^{-2}	2.34×10^{-2}	ALOX5/TLR4	2
GO:0032677	regulation of interleukin-8 production	2/31	93/18866	1.02×10^{-2}	4.56×10^{-2}	2.37×10^{-2}	STAT3/TLR4	2
GO:1903035	negative regulation of response to wounding	2/31	93/18866	1.02×10^{-2}	4.56×10^{-2}	2.37×10^{-2}	ALOX5/HMGCR	2
GO:2000117	negative regulation of cysteine-type endopeptidase activity	2/31	93/18866	1.02×10^{-2}	4.56×10^{-2}	2.37×10^{-2}	MMP9/PTGS2	2
GO:0034504	protein localization to nucleus	3/31	277/18866	1.04×10^{-2}	4.64×10^{-2}	2.41×10^{-2}	PPP3CA/PTGS2/STAT3	3
GO:0022409	positive regulation of cell-cell adhesion	3/31	279/18866	1.06×10^{-2}	4.71×10^{-2}	2.45×10^{-2}	ADA/ALOX5/PTAFR	3
GO:0050709	negative regulation of protein secretion	2/31	95/18866	1.06×10^{-2}	4.71×10^{-2}	2.45×10^{-2}	HMGCR/PPP3CA	2
GO:0046651	lymphocyte proliferation	3/31	283/18866	1.10×10^{-2}	4.85×10^{-2}	2.52×10^{-2}	ADA/PIK3CG/TLR4	3
GO:0032651	regulation of interleukin-1 beta production	2/31	97/18866	1.10×10^{-2}	4.85×10^{-2}	2.52×10^{-2}	STAT3/TLR4	2
GO:0042100	B cell proliferation	2/31	97/18866	1.10×10^{-2}	4.85×10^{-2}	2.52×10^{-2}	ADA/TLR4	2
GO:1901216	positive regulation of neuron death	2/31	97/18866	1.10×10^{-2}	4.85×10^{-2}	2.52×10^{-2}	HDAC4/TLR4	2
GO:0006942	regulation of striated muscle contraction	2/31	98/18866	1.13×10^{-2}	4.92×10^{-2}	2.56×10^{-2}	HDAC4/PIK3CG	2
GO:2001243	negative regulation of intrinsic apoptotic signaling pathway	2/31	98/18866	1.13×10^{-2}	4.92×10^{-2}	2.56×10^{-2}	MMP9/PTGS2	2
GO:0032943	mononuclear cell proliferation	3/31	286/18866	1.13×10^{-2}	4.93×10^{-2}	2.56×10^{-2}	ADA/PIK3CG/TLR4	3
GO:0051403	stress-activated MAPK cascade	3/31	286/18866	1.13×10^{-2}	4.93×10^{-2}	2.56×10^{-2}	DUSP1/HMGCR/TLR4	3
GO:0062207	regulation of pattern recognition receptor signaling pathway	2/31	99/18866	1.15×10^{-2}	4.98×10^{-2}	2.59×10^{-2}	LY96/TLR4	2
B, Cellular component								
ID	Description	GeneRatio	BgRatio	P-value	Adjusted P-value	q-value	GeneID	Count
GO:0030667	secretory granule membrane	6/32	306/19559	8.98×10^{-6}	1.14×10^{-3}	8.6×10^{-4}	CA4/GAA/IGF2R/MGAM/PTAFR/SELL	6
GO:0005641	nuclear envelope lumen	2/32	10/19559	1.16×10^{-4}	4.54×10^{-3}	3.42×10^{-3}	ALOX5/IGF2R	2
GO:0070820	tertiary granule	4/32	164/19559	1.43×10^{-4}	4.54×10^{-3}	3.42×10^{-3}	GAA/MGAM/MMP9/PTAFR	4
GO:0060205	cytoplasmic vesicle lumen	5/32	326/19559	1.74×10^{-4}	4.54×10^{-3}	3.42×10^{-3}	ADA/ALOX5/APRT/LCN2/MPO	5
GO:0031983	vesicle lumen	5/32	328/19559	1.79×10^{-4}	4.54×10^{-3}	3.42×10^{-3}	ADA/ALOX5/APRT/LCN2/MPO	5
GO:0070821	tertiary granule membrane	3/32	73/19559	2.29×10^{-4}	4.84×10^{-3}	3.65×10^{-3}	GAA/MGAM/PTAFR	3
GO:0034774	secretory granule lumen	4/32	322/19559	1.80×10^{-3}	3.27×10^{-2}	2.47×10^{-2}	ALOX5/APRT/LCN2/MPO	4
GO:0008287	protein serine/threonine phosphatase complex	2/32	51/19559	3.15×10^{-3}	4.44×10^{-2}	3.35×10^{-2}	PPP3CA/PPP3R1	2
GO:1903293	phosphatase complex	2/32	51/19559	3.15×10^{-3}	4.44×10^{-2}	3.35×10^{-2}	PPP3CA/PPP3R1	2
C, Molecular function								
ID	Description	GeneRatio	BgRatio	P-value	Adjusted P-value	q-value	GeneID	Count
GO:0030246	carbohydrate binding	8/32	267/18352	1.41×10^{-8}	2.21×10^{-6}	1.09×10^{-6}	G6PD/GAA/HK2/IGF2R/LGALS2/MGAM/PLOD1/SELL	8
GO:0048029	monosaccharide binding	4/32	69/18352	6.08×10^{-6}	4.36×10^{-4}	2.16×10^{-4}	G6PD/HK2/IGF2R/PLOD1	4
GO:0038187	pattern recognition receptor activity	3/32	23/18352	8.33×10^{-6}	4.36×10^{-4}	2.16×10^{-4}	LY96/PTAFR/TLR4	3
GO:0051213	dioxygenase activity	4/32	91/18352	1.83×10^{-5}	7.18×10^{-4}	3.56×10^{-4}	ALOX5/PLOD1/PTGS1/PTGS2	4
GO:0001530	lipopolysaccharide binding	3/32	33/18352	2.54×10^{-5}	7.96×10^{-4}	3.95×10^{-4}	LY96/PTAFR/TLR4	3
GO:0020037	heme binding	4/32	138/18352	9.35×10^{-5}	2.08×10^{-3}	1.03×10^{-3}	MPO/PTGS1/PTGS2/TBXAS1	4
GO:0004601	peroxidase activity	3/32	52/18352	1.00×10^{-4}	2.08×10^{-3}	1.03×10^{-3}	MPO/PTGS1/PTGS2	3
GO:0046906	tetrapyrrole binding	4/32	148/18352	1.23×10^{-4}	2.08×10^{-3}	1.03×10^{-3}	MPO/PTGS1/PTGS2/TBXAS1	4
GO:0016684	oxidoreductase activity, acting on peroxide as acceptor	3/32	56/18352	1.25×10^{-4}	2.08×10^{-3}	1.03×10^{-3}	MPO/PTGS1/PTGS2	3
GO:0005506	iron ion binding	4/32	151/18352	1.32×10^{-4}	2.08×10^{-3}	1.03×10^{-3}	ALOX5/LCN2/PLOD1/TBXAS1	4
GO:0005536	glucose binding	2/32	11/18352	1.60×10^{-4}	2.27×10^{-3}	1.13×10^{-3}	G6PD/HK2	2
GO:0016705	oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen	4/32	162/18352	1.74×10^{-4}	2.27×10^{-3}	1.13×10^{-3}	PLOD1/PTGS1/PTGS2/TBXAS1	4
GO:0015926	glucosidase activity	2/32	14/18352	2.65×10^{-4}	3.19×10^{-3}	1.58×10^{-3}	GAA/MGAM	2
GO:0004722	protein serine/threonine phosphatase activity	3/32	75/18352	2.99×10^{-4}	3.19×10^{-3}	1.58×10^{-3}	DUSP1/PPP3CA/PPP3R1	3
GO:0004089	carbonate dehydratase activity	2/32	15/18352	3.05×10^{-4}	3.19×10^{-3}	1.58×10^{-3}	CA1/CA4	2
GO:0042578	phosphoric ester hydrolase activity	5/32	369/18352	4.12×10^{-4}	4.04×10^{-3}	2.01×10^{-3}	ALPL/DUSP1/PPP3CA/PPP3R1/TDP1	5
GO:0016209	antioxidant activity	3/32	86/18352	4.47×10^{-4}	4.13×10^{-3}	2.05×10^{-3}	MPO/PTGS1/PTGS2	3
GO:0016018	cyclosporin A binding	2/32	20/18352	5.49×10^{-4}	4.79×10^{-3}	2.37×10^{-3}	PPP3CA/PPP3R1	2
GO:0008144	drug binding	3/32	104/18352	7.78×10^{-4}	6.43×10^{-3}	3.19×10^{-3}	LCN2/PPP3CA/PPP3R1	3
GO:0016702	oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two	2/32	25/18352	8.62×10^{-4}	6.77×10^{-3}	3.36×10^{-3}	ALOX5/PTGS2	2

	atoms of oxygen							
GO:0016701	oxidoreductase activity, acting on single donors with incorporation of molecular oxygen	2/32	26/18352	9.33×10^{-4}	6.97×10^{-3}	3.46×10^{-3}	ALOX5/PTGS2	2
GO:0016791	phosphatase activity	4/32	277/18352	1.31×10^{-3}	9.34×10^{-3}	4.64×10^{-3}	ALPL/DUSP1/PPP3CA/PPP3R1	4
GO:0051019	mitogen-activated protein kinase binding	2/32	33/18352	1.50×10^{-3}	1.03×10^{-2}	5.09×10^{-3}	DUSP1/PTAFR	2
GO:0016798	hydrolase activity, acting on glycosyl bonds	3/32	133/18352	1.58×10^{-3}	1.04×10^{-2}	5.14×10^{-3}	GAA/MGAM/TLR4	3
GO:0004721	phosphoprotein phosphatase activity	3/32	179/18352	3.68×10^{-3}	2.31×10^{-2}	1.15×10^{-2}	DUSP1/PPP3CA/PPP3R1	3
GO:0050661	NADP binding	2/32	54/18352	3.98×10^{-3}	2.41×10^{-2}	1.19×10^{-2}	G6PD/HMGCR	2
GO:0019902	phosphatase binding	3/32	194/18352	4.60×10^{-3}	2.66×10^{-2}	1.32×10^{-2}	HMGCR/PPP3R1/STAT3	3
GO:0016836	hydro-lyase activity	2/32	59/18352	4.74×10^{-3}	2.66×10^{-2}	1.32×10^{-2}	CA1/CA4	2
GO:0016835	carbon-oxygen lyase activity	2/32	74/18352	7.36×10^{-3}	3.85×10^{-2}	1.91×10^{-2}	CA1/CA4	2
GO:0070491	repressing transcription factor binding	2/32	74/18352	7.36×10^{-3}	3.85×10^{-2}	1.91×10^{-2}	HDAC4/STAT3	2

Table SXIII. KEGG enrichment results of key target genes.

ID	Description	Bg ratio	P-value	P.adjust	q-value	Gene ID	Count
hsa05145	Toxoplasmosis	112/8085	5.04×10^{-5}	5.00×10^{-3}	3.80×10^{-3}	ALOX5/STAT3/TLR4/LY96/PIK3CG	5
hsa00590	Arachidonic acid metabolism	61/8085	6.94×10^{-5}	5.00×10^{-3}	3.80×10^{-3}	ALOX5/TBXAS1/PTGS1/PTGS2	4
hsa05417	Lipid and atherosclerosis	215/8085	1.15×10^{-4}	5.51×10^{-3}	$4.19\text{x}10^{-3}$	PPP3R1/MMP9/STAT3/TLR4/LY96/PPP3CA	6
hsa00052	Galactose metabolism	31/8085	1.93×10^{-4}	6.96×10^{-3}	5.29×10^{-3}	MGAM/GAA/HK2	3
hsa05235	PD-L1 expression and PD-1 checkpoint pathway in cancer	89/8085	3.02×10^{-4}	7.27×10^{-3}	5.53×10^{-3}	PPP3R1/STAT3/TLR4/PPP3CA	4
hsa00500	Starch and sucrose metabolism	36/8085	3.03×10^{-4}	7.27×10^{-3}	5.53×10^{-3}	MGAM/GAA/HK2	3
hsa05167	Kaposi sarcoma-associated herpesvirus infection	194/8085	6.61×10^{-4}	1.36×10^{-2}	1.03×10^{-2}	PPP3R1/STAT3/PTGS2/PIK3CG/PPP3CA	5
hsa04726	Serotonergic synapse	115/8085	8.00×10^{-4}	1.44×10^{-2}	$1.09\text{x}10^{-2}$	DUSP1/ALOX5/PTGS1/PTGS2	4
hsa04370	VEGF signaling pathway	59/8085	1.30×10^{-3}	2.08×10^{-2}	1.58×10^{-2}	PPP3R1/PTGS2/PPP3CA	3
hsa00910	Nitrogen metabolism	17/8085	1.75×10^{-3}	2.52×10^{-2}	$1.91\text{x}10^{-2}$	CA4/CA1	2
hsa04921	Oxytocin signaling pathway	154/8085	2.36×10^{-3}	3.09×10^{-2}	2.35×10^{-2}	PPP3R1/PTGS2/PIK3CG/PPP3CA	4

Table SXIV. Network results of protein interactions of key genes.

#node1	node2	node1_string_id	node2_string_id	neighborhood_on_chromosome	phylogenetic_cooccurrence	homology	coexpression	experimentally_determined_interaction	database_annotated	automated_textmining	combined_score
ADA	MPO	9606.ENSP00000361965	9606.ENSP00000225275	0.000	0.000	0.000	0.000	0.000	0.000	0.498	0.497
ADA	ALPL	9606.ENSP00000361965	9606.ENSP00000363973	0.000	0.000	0.000	0.000	0.000	0.000	0.458	0.458
ADA	G6PD	9606.ENSP00000361965	9606.ENSP00000377192	0.000	0.000	0.000	0.088	0.000	0.000	0.513	0.537
ADA	APRT	9606.ENSP00000361965	9606.ENSP00000367615	0.070	0.000	0.000	0.172	0.604	0.000	0.770	0.920
ALOX5	MPO	9606.ENSP00000363512	9606.ENSP00000225275	0.000	0.000	0.000	0.120	0.000	0.000	0.543	0.581
ALOX5	PTGS1	9606.ENSP00000363512	9606.ENSP00000354612	0.000	0.000	0.000	0.095	0.000	0.900	0.728	0.973
ALOX5	PTGS2	9606.ENSP00000363512	9606.ENSP00000356438	0.000	0.000	0.000	0.080	0.000	0.900	0.758	0.975
ALOX5	MMP9	9606.ENSP00000363512	9606.ENSP00000361405	0.000	0.000	0.000	0.159	0.000	0.000	0.423	0.494
ALOX5	TLR4	9606.ENSP00000363512	9606.ENSP00000363089	0.000	0.000	0.000	0.142	0.000	0.000	0.424	0.485
ALOX5	TBXAS1	9606.ENSP00000363512	9606.ENSP00000389414	0.000	0.000	0.000	0.120	0.000	0.000	0.635	0.665
ALPL	MGAM	9606.ENSP00000363973	9606.ENSP00000447378	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.500
CA1	MGAM	9606.ENSP00000430656	9606.ENSP00000447378	0.000	0.000	0.000	0.061	0.000	0.000	0.578	0.586
DUSP1	STAT3	9606.ENSP00000239223	9606.ENSP00000264657	0.000	0.000	0.000	0.058	0.000	0.000	0.399	0.409
DUSP1	TLR4	9606.ENSP00000239223	9606.ENSP00000363089	0.000	0.000	0.000	0.076	0.102	0.000	0.498	0.547
DUSP1	PTGS2	9606.ENSP00000239223	9606.ENSP00000356438	0.000	0.000	0.000	0.136	0.084	0.000	0.698	0.740
G6PD	HK2	9606.ENSP00000377192	9606.ENSP00000290573	0.000	0.000	0.000	0.091	0.000	0.800	0.776	0.955
G6PD	MGAM	9606.ENSP00000377192	9606.ENSP00000447378	0.000	0.000	0.000	0.064	0.000	0.000	0.495	0.507
GAA	HK2	9606.ENSP00000305692	9606.ENSP00000290573	0.000	0.000	0.000	0.061	0.000	0.650	0.068	0.666
GAA	IGF2R	9606.ENSP00000305692	9606.ENSP00000349437	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.570
GAA	PTAFR	9606.ENSP00000305692	9606.ENSP00000362965	0.000	0.000	0.000	0.000	0.000	0.900	0.000	0.900
GAA	MGAM	9606.ENSP00000305692	9606.ENSP00000447378	0.000	0.000	0.905	0.000	0.000	0.900	0.835	0.907
HDAC4	STAT3	9606.ENSP00000264606	9606.ENSP00000264657	0.000	0.000	0.000	0.052	0.111	0.000	0.355	0.408
HK2	MGAM	9606.ENSP00000290573	9606.ENSP00000447378	0.000	0.000	0.000	0.061	0.000	0.650	0.104	0.680
LCN2	MPO	9606.ENSP00000362108	9606.ENSP00000225275	0.000	0.000	0.000	0.088	0.000	0.000	0.586	0.606
LCN2	STAT3	9606.ENSP00000362108	9606.ENSP00000264657	0.000	0.000	0.000	0.062	0.000	0.900	0.440	0.942
LCN2	MMP9	9606.ENSP00000362108	9606.ENSP00000361405	0.000	0.000	0.000	0.095	0.379	0.000	0.867	0.919
LCN2	TLR4	9606.ENSP00000362108	9606.ENSP00000363089	0.000	0.000	0.000	0.000	0.000	0.000	0.518	0.518
LY96	TLR4	9606.ENSP00000284818	9606.ENSP00000363089	0.000	0.000	0.000	0.176	0.871	0.900	0.956	0.999
MGAM	PTAFR	9606.ENSP00000447378	9606.ENSP00000362965	0.000	0.000	0.000	0.088	0.000	0.900	0.000	0.904
MMP9	MPO	9606.ENSP00000361405	9606.ENSP00000225275	0.000	0.000	0.000	0.076	0.000	0.000	0.704	0.714
MMP9	SELL	9606.ENSP00000361405	9606.ENSP00000236147	0.000	0.000	0.000	0.098	0.000	0.000	0.470	0.501
MMP9	STAT3	9606.ENSP00000361405	9606.ENSP00000264657	0.000	0.000	0.000	0.000	0.000	0.900	0.824	0.981
MMP9	PTGS2	9606.ENSP00000361405	9606.ENSP00000356438	0.000	0.000	0.000	0.097	0.000	0.000	0.725	0.741
MMP9	TLR4	9606.ENSP00000361405	9606.ENSP00000363089	0.000	0.000	0.000	0.115	0.000	0.000	0.820	0.834
MPO	STAT3	9606.ENSP00000225275	9606.ENSP00000264657	0.000	0.000	0.000	0.000	0.000	0.000	0.481	0.481
MPO	SELL	9606.ENSP00000225275	9606.ENSP00000236147	0.000	0.000	0.000	0.141	0.051	0.000	0.559	0.609
MPO	PTGS2	9606.ENSP00000225275	9606.ENSP00000356438	0.000	0.000	0.000	0.065	0.000	0.000	0.691	0.699
MPO	TLR4	9606.ENSP00000225275	9606.ENSP00000363089	0.000	0.000	0.000	0.088	0.000	0.000	0.695	0.710
MPO	PTGS1	9606.ENSP00000225275	9606.ENSP00000354612	0.000	0.000	0.000	0.076	0.000	0.900	0.408	0.940
PIK3CG	TLR4	9606.ENSP00000352121	9606.ENSP00000363089	0.000	0.000	0.000	0.107	0.182	0.000	0.251	0.405
PPP3CA	PPP3R1	9606.ENSP00000378323	9606.ENSP00000234310	0.000	0.385	0.000	0.126	0.994	0.900	0.934	0.999
PTAFR	STAT3	9606.ENSP00000362965	9606.ENSP00000264657	0.000	0.000	0.000	0.000	0.000	0.900	0.311	0.928
PTAFR	TLR4	9606.ENSP00000362965	9606.ENSP00000363089	0.000	0.000	0.000	0.298	0.000	0.000	0.398	0.559
PTGS1	TLR4	9606.ENSP00000354612	9606.ENSP00000363089	0.000	0.000	0.000	0.140	0.000	0.000	0.344	0.411
PTGS1	PTGS2	9606.ENSP00000354612	9606.ENSP00000356438	0.000	0.432	0.967	0.140	0.379	0.800	0.956	0.889
PTGS1	TBXAS1	9606.ENSP00000354612	9606.ENSP00000389414	0.000	0.000	0.000	0.092	0.000	0.900	0.647	0.965
PTGS2	STAT3	9606.ENSP00000356438	9606.ENSP00000264657	0.000	0.000	0.000	0.000	0.000	0.900	0.810	0.980
PTGS2	TLR4	9606.ENSP00000356438	9606.ENSP00000363089	0.000	0.000	0.000	0.140	0.000	0.000	0.816	0.835
PTGS2	TBXAS1	9606.ENSP00000356438	9606.ENSP00000389414	0.000	0.000	0.000	0.074	0.000	0.900	0.524	0.952
SELL	STAT3	9606.ENSP00000236147	9606.ENSP00000264657	0.000	0.000	0.000	0.061	0.000	0.000	0.509	0.519
SELL	TLR4	9606.ENSP00000236147	9606.ENSP00000363089	0.000	0.000	0.000	0.125	0.060	0.000	0.572	0.617
STAT3	TLR4	9606.ENSP00000264657	9606.ENSP00000363089	0.000	0.000	0.000	0.000	0.083	0.000	0.806	0.816

Table SXV. Core genes obtained by the degree value of each gene.

Name	Degree
TLR4	12
STAT3	9
MPO	9
PTGS2	8
MMP9	7
MGAM	6
ALOX5	6
PTGS1	5
SELL	4
LCN2	4
PTAFR	4
GAA	4
ADA	4
HK2	3
DUSP1	3
TBXAS1	3
G6PD	3
ALPL	2
PPP3R1	1
PPP3CA	1
PIK3CG	1
LY96	1
HDAC4	1
IGF2R	1
CA1	1
APRT	1