

A.

<b>Gene</b>	<b>Full Name</b>	<b>Fold Change</b>
<b>DECREASED</b>		
<i>ABCC5</i>	ATP Binding Cassette Subfamily C Member 5	-2.179
<i>ACSBG2</i>	Acyl-Coa Synthetase Bubblegum Family Member 2	-1.775
<i>ACSL3</i>	Acyl-Coa Synthetase Long Chain Family Member 3	-2.113
<i>AFDN</i>	Afadin, Adherens Junction Formation Factor	-1.852
<i>ANKMY2</i>	Ankyrin Repeat And MYND Domain Containing 2	-2.160
<i>ANKRD11</i>	Ankyrin Repeat Domain 11	-1.867
<i>ANKRD12</i>	Ankyrin Repeat Domain 12	-1.920
<i>AP5M1</i>	Adaptor Related Protein Complex 5 Mu 1 Subunit	-1.755
<i>ATF7IP</i>	Activating Transcription Factor 7 Interacting Protein	-2.203
<i>ATL3</i>	Atlastin GTPase 3	-1.789
<i>ATRX</i>	ATRX, Chromatin Remodeler	-1.977
<i>ATXN7L3</i>	Ataxin 7 Like 3	-1.792
		-2.009
		-2.037
<i>BAK1</i>	BCL2 Antagonist/Killer 1	-1.950
<i>BARD1</i>	BRCA1 Associated RING Domain 1	-2.029
<i>BBX</i>	BBX, HMG-Box Containing	-1.787
		-2.011
<i>CAMK2G</i>	Calcium/Calmodulin Dependent Protein Kinase II Gamma	-1.773
		-1.855
		-1.891
		-1.901
		-2.102
		-2.123
		-2.174
		-2.185
-2.202		
-2.596		
<i>CAPN8</i>	Calpain 8	-2.035
<i>CCDC71L</i>	Coiled-Coil Domain Containing 71 Like	-1.947
<i>CDC42EP4</i>	CDC42 Effector Protein 4	-1.881
<i>CDH20</i>	Cadherin 20	-1.951
<i>CETN1</i>	Centrin 1	-2.039
<i>CHD1</i>	Chromodomain Helicase DNA Binding Protein 1	-2.135
		-2.210
<i>CHD2</i>	Chromodomain Helicase DNA Biding Protein 2	-1.899
<i>CHFR</i>	Checkpoint With Forkhead And Ring Finger Domains	-1.792
<i>CIR1</i>	Corepressor Interacting With RBPJ, 1	-2.196
<i>CKAP2</i>	Cytoskeleton Associated Protein 2	-2.615
<i>CNOT6</i>	CCR4-NOT Transcription Complex Subunit 6	-1.768
<i>CRYBG1</i>	Crystallin Beta-Gamma Domain Containing 1	-1.755
<i>DAAM1</i>	Dishevelled Associated Activator Of Morphogenesis 1	-1.779
<i>DAZAP2</i>	DAZ Associated Protein 2	-1.754
<i>DDX10</i>	DEAD-Box Helicase 10	-1.858
<i>DHX16</i>	DEAH-Box Helicase 16	-2.159
<i>DNAJB2</i>	DNAJ Heat Shock Protein Family (Hsp40) Member B2	-1.944
<i>DNAJB9</i>	DNAJ Heat Shock Protein Family (Hsp40) Member B9	-2.470
<i>EDN1</i>	Endothelin 1	-1.851
<i>EFNB2</i>	Ephrin B2	-2.326
<i>EIF3A</i>	Eukaryotic Translation Initiation Factor 3 Subunit A	-1.939

		-2.139 -2.293
<i>EIF4E3</i>	Eukaryotic Translation Initiation Factor 4E Family Member 3	-1.777
<i>EIF5B</i>	Eukaryotic Translation Initiation Factor 5B	-1.975
<i>ELOA</i>	Elongin A	-1.796
<i>ESCO1</i>	Establishment Of Sister Chromatid Cohesion N-Acetyltransferase 1	-1.947
<i>ESPL1</i>	Extra Spindle Pole Bodies Like 1, Separase	-1.818
<i>EZH2</i>	Enhancer Of Zeste 2 Polycomb Repressive Complex 2 Subunit	-1.771
<i>FAF2</i>	Fas Associated Factor Family Member 2	-1.862
<i>GCLC</i>	Glutamate-Cysteine Ligase Catalytic Subunit	-1.863
		-1.931
		-1.942
		-2.025
<i>GOLGA4</i>	Golgin A4	-1.948
<i>HDAC1</i>	Histone Deacetylase 1	-1.788
<i>HIC2</i>	HIC ZBTB Transcriptional Repressor 2	-2.087
<i>HMBOX1</i>	Homeobox Containing 1	-1.939
<i>HSPH1</i>	Heat Shock Protein Family H (Hsp110) Member 1	-1.841
<i>IGHV4-31</i>	Immunoglobulin Heavy Variable 4-31	-1.896
<i>ILF3</i>	Interleukin Enhancer Binding Factor 3	-1.830
<i>KIF21A</i>	Kinesin Family Member 21A	-1.971
<i>KLF6</i>	Kruppel Like Factor 6	-1.960
<i>KNOP1</i>	Lysine Rich Nucleolar Protein 1	-1.801
<i>KTN1</i>	Kinectin 1	-2.010
<i>LARP7</i>	La Ribonucleoprotein Domain Family Member 7	-2.308
<i>LETM2</i>	Leucine Zipper And EF-Hand Containing Transmembrane Protein 2	-1.915
<i>LHX8</i>	LIM Homeobox 8	-2.027
		-2.188
<i>LIN28B</i>	Lin-28 Homolog B	-1.902
<i>LMNB1</i>	Lamin B1	-1.913
<i>LUC7L3</i>	LUC7 Like 3 Pre-Mrna Splicing Factor	-2.610
<i>MAP1LC3A</i>	Microtubule Associated Protein 1 Light Chain 3 Alpha	-2.133
<i>MCPH1</i>	Microcephalin 1	-2.206
<i>METAP1</i>	Methionyl Aminopeptidase 1	-1.778
<i>MPHOSPH8</i>	M-Phase Phosphoprotein 8	-1.755
		-1.786
		-1.906
		-1.921
<i>MTIF3</i>	Mitochondrial Translational Initiation Factor 3	-1.753
<i>MYO6</i>	Myosin VI	-1.869
<i>NAA25</i>	N(Alpha)-Acetyltransferase 25, Natb Auxiliary Subunit	-1.929
<i>NCL</i>	Nucleolin	-2.277
		-2.625
<i>NOP14</i>	NOP14 Nucleolar Protein	-2.018
<i>NRARP</i>	NOTCH Regulated Ankyrin Repeat Protein	-2.057
<i>NRG1</i>	Neuregulin 1	-2.185
<i>NSRP1</i>	Nuclear Speckle Splicing Regulatory Protein 1	-2.176
<i>ORAI2</i>	ORAI Calcium Release-Activated Calcium Modulator 2	-1.882
<i>OS9</i>	OS9, Endoplasmic Reticulum Lectin	-1.812
<i>OTOG</i>	Otogelin	-2.032
<i>PHF20</i>	PHD Finger Protein 20	-1.877
<i>PLA2G4A</i>	Phospholipase A2 Group IVA	-1.899
<i>PPIG</i>	Peptidylprolyl Isomerase G	-1.790

<i>PPP3CA</i>	Protein Phosphatase 3 Catalytic Subunit Alpha	-2.035 -2.053
<i>PRDM2</i>	PR/SET Domain 2	-1.812
<i>PRPF4B</i>	Pre-mRNA Processing Factor 4B	-1.934
<i>PRR12</i>	Proline Rich 12	-2.103 -2.111
<i>PSAT1</i>	Phosphoserine Aminotransferase 1	-2.453
<i>RAB27A</i>	RAB27A, Member RAS Oncogene Family	-2.071
<i>RABEP1</i>	Rabaptin, RAB Gtpase Binding Effector Protein 1	-1.866 -2.323
<i>RAD23B</i>	RAD23 Homolog B, Nucleotide Excision Repair Protein	-1.935
<i>RBM25</i>	RNA Binding Motif Protein 25	-2.220
<i>RBM28</i>	RNA Binding Motif Protein 28	-1.781
<i>RDX</i>	Radixin	-1.934
<i>REST</i>	RE1 Silencing Transcription Factor	-1.795
<i>RFK</i>	Riboflavin Kinase	-1.829
<i>RNF220</i>	Ring Finger Protein 220	-1.929
<i>RNF40</i>	Ring Finger Protein 40	-1.903
<i>RSF1</i>	Remodeling And Spacing Factor 1	-1.838 -2.099 -1.944
<i>RTF1</i>	RTF1 Homolog, Paf1/RNA Polymerase II Complex Component	-2.017
<i>SEMA4B</i>	Semaphorin 4B	-2.087
<i>SLC7A6OS</i>	Solute Carrier Family 7 Member 6 Opposite Strand	-1.840
<i>SMARCD1</i>	SWI/SNF-Related, Matrix-Associated Actin-Dependent Regulator Of Chromatin, Subfamily A, Containing DEAD/H Box 1	-1.854
<i>SMUG1</i>	Single-Strand-Selective Monofunctional Uracil-DNA Glycosylase 1	-1.949
<i>SNX2</i>	Sorting Nexin 2	-1.937
<i>SP3</i>	Sp3 Transcription Factor	-1.871
<i>SPECC1</i>	Sperm Antigen With Calponin Homology And Coiled-Coil Domains 1	-2.042
<i>SPTBN2</i>	Spectrin Beta, Non-Erythrocytic 2	-2.118
<i>SRPK2</i>	SRSF Protein Kinase 2	-1.895 -1.979
<i>STK3</i>	Serine/Threonine Kinase 3	-1.813
<i>STRIP1</i>	Striatin Interacting Protein 1	-1.797
<i>SUN1</i>	Sad1 And UNC84 Domain Containing 1	-1.836
<i>SUPT6H</i>	SPT6 Homolog, Histone Chaperone	-2.116 -2.147
<i>SYNCRIP</i>	Synaptotagmin Binding Cytoplasmic RNA Interacting Protein	-1.789
<i>TBCCD1</i>	TBCC Domain Containing 1	-1.769
<i>THOC2</i>	THO Complex 2	-1.779 -1.799
<i>TRAPPC2</i>	Trafficking Protein Particle Complex 2	-1.775
<i>TRIM29</i>	Tripartite Motif Containing 29	-2.354
<i>TRIT1</i>	tRNA Isopentenyltransferase 1	-2.084
<i>TRMT10C</i>	tRNA Methyltransferase 10C, Mitochondrial Rnase P Subunit	-2.079 -1.957
<i>UBP1</i>	Upstream Binding Protein 1	-1.900
<i>UFL1</i>	UFM1 Specific Ligase 1	-2.037
<i>UHRF1</i>	Ubiquitin Like With PHD And Ring Finger Domains 1	-2.005
<i>USO1</i>	USO1 Vesicle Transport Factor	-2.294
<i>USP36</i>	Ubiquitin Specific Peptidase 36	-1.913

<i>VCAN</i>	Versican	-1.781
<i>XPO1</i>	Exportin 1	-2.202
<i>XRN2</i>	5'-3' Exoribonuclease 2	-1.756
<i>ZDHHC1</i>	Zinc Finger DHHC-Type Containing 1	-1.851
<i>ZFP106</i>	Zinc Finger Protein 106	-1.816
<i>ZNF292</i>	Zinc Finger Protein 292	-1.823
<i>ZNF462</i>	Zinc Finger Protein 462	-1.912
<i>ZNF516</i>	Zinc Finger Protein 516	-1.868
<b>INCREASED</b>		
<i>ACCS</i>	1-Aminocyclopropane-1-Carboxylate Synthase Homolog	1.835
<i>ACIN1</i>	Apoptotic Chromatin Condensation Inducer 1	2.397 1.793 1.777
<i>ACVR1B</i>	Activin A Receptor Type 1b	1.867
<i>ADAM9</i>	ADAM Metallopeptidase Domain 9	1.764
<i>AK1</i>	Adenylate Kinase 1	2.412 1.763
<i>ALAD</i>	Aminolevulinatase Dehydratase	2.125
<i>ALDH3B1</i>	Aldehyde Dehydrogenase 3 Family Member B1	1.911
<i>ALDOA</i>	Aldolase, Fructose-Bisphosphate A	2.009
<i>ALDOB</i>	Aldolase, Fructose-Bisphosphate B	2.383 1.836
<i>AMOTL1</i>	Angiomotin Like 1	1.910
<i>ANGPTL7</i>	Angiopoietin Like 7	5.013 2.043
<i>AP1S1</i>	Adaptor Related Protein Complex 1 Sigma 1 Subunit	1.789
<i>APOBEC2</i>	Apolipoprotein B mRNA Editing Enzyme Catalytic Subunit 2	2.229
<i>APOH</i>	Apolipoprotein H	2.544
<i>APOM</i>	Apolipoprotein M	1.944
<i>ARHGEF19</i>	Rho Guanine Nucleotide Exchange Factor 19	1.925
<i>ARID3A</i>	AT-Rich Interaction Domain 3A	2.411 1.986 1.800
<i>ARIH2</i>	Ariadne RBR E3 Ubiquitin Protein Ligase 2	1.956
<i>ARRDC1</i>	Arrestin Domain Containing 1	2.308
<i>ATP6AP1</i>	ATPase H+ Transporting Accessory Protein 1	1.796
<i>ATP6V0D2</i>	ATPase H+ Transporting V0 Subunit D2	1.852
<i>ATP6V1B1</i>	ATPase H+ Transporting V1 Subunit B1	2.086
<i>ATP6V1G3</i>	ATPase H+ Transporting V1 Subunit G3	1.949
<i>ATXN2</i>	Ataxin 2	2.280
<i>BAG6</i>	BCL2 Associated Athanogene 6	1.783
<i>BCL9</i>	B Cell CLL/Lymphoma 9	2.405 1.812
<i>BHLHE40</i>	Basic Helix-Loop-Helix Family Member E40	2.154
<i>BICRA</i>	BRD4 interacting chromatin remodeling complex associated protein	1.870
<i>BIN1</i>	Bridging Integrator 1	1.991 1.942
<i>BMP2</i>	Bone Morphogenetic Protein 2	2.232 2.220
<i>BRD4</i>	Bromodomain Containing 4	1.997
<i>C2ORF76</i>	Chromosome 2 Open Reading Frame 76	1.766
<i>C7</i>	Complement C7	1.763
<i>C8B</i>	Complement C8 Beta Chain	1.868
<i>CA12</i>	Carbonic Anhydrase 12	2.136

<i>CACNA1S</i>	Calcium Voltage-Gated Channel Subunit Alpha1 S	2.160
<i>CACNB1</i>	Calcium Voltage-Gated Channel Auxiliary Subunit Beta 1	2.293 1.870
<i>CAPNS1</i>	Calpain Small Subunit 1	2.546
<i>CAPRN1</i>	Cell Cycle Associated Protein 1	1.991 1.814
<i>CASQ1</i>	Calsequestrin 1	1.846
<i>CAV2</i>	Caveolin 2	2.093 1.947
<i>CAVIN1</i>	Caveolae Associated Protein 1	1.921
<i>CCNF</i>	Cyclin F	2.216
<i>CD44</i>	CD44 Molecule (Indian Blood Group)	2.129
<i>CDIP1</i>	Cell Death Inducing P53 Target 1	1.783
<i>CDX2</i>	Caudal Type Homeobox 2	2.467
<i>CEBPA</i>	CCAAT/Enhancer Binding Protein Alpha	2.189
<i>CEBPD</i>	CCAAT/Enhancer Binding Protein Delta	1.918
<i>CHRNA1</i>	Cholinergic Receptor Nicotinic Alpha 1 Subunit	1.980
<i>CHRND</i>	Cholinergic Receptor Nicotinic Delta Subunit	1.785
<i>CHRNG</i>	Cholinergic Receptor Nicotinic Gamma Subunit	2.348
<i>CKMT1B</i>	Creatine Kinase, Mitochondrial 1B	2.004
<i>CNOT4</i>	CCR4-NOT Transcription Complex Subunit 4	2.005
<i>COBL</i>	Cordon-Bleu WH2 Repeat Protein	2.160
<i>COL11A1</i>	Collagen Type XI Alpha 1 Chain	1.956
<i>COL1A1</i>	Collagen Type I Alpha 1 Chain	2.206 1.999
<i>COL1A2</i>	Collagen Type I Alpha 2 Chain	1.776
<i>COL28A1</i>	Collagen Type XXVIII Alpha 1 Chain	1.984
<i>COL2A1</i>	Collagen Type II Alpha 1 Chain	2.239
<i>COL5A1</i>	Collagen Type V Alpha 1 Chain	2.211
<i>COL9A1</i>	Collagen Type IX Alpha 1 Chain	2.468 2.329
<i>COL9A2</i>	Collagen Type IX Alpha 2 Chain	1.769
<i>COL9A3</i>	Collagen Type IX Alpha 3 Chain	1.750
<i>CPSF1</i>	Cleavage And Polyadenylation Specific Factor 1	2.009
<i>CRABP2</i>	Cellular Retinoic Acid Binding Protein 2	1.824
<i>CRP</i>	C-Reactive Protein	2.050
<i>CSNK2A1</i>	Casein Kinase 2 Alpha 1	2.583 2.009 1.988
<i>CTR9</i>	CTR9 Homolog, Paf1/RNA Polymerase II Complex Component	1.769
<i>DBN1</i>	Drebrin 1	2.027
<i>DBNL</i>	Drebrin Like	1.792
<i>DDT</i>	D-Dopachrome Tautomerase	2.075
<i>DGKA</i>	Diacylglycerol Kinase Alpha	1.792
<i>DHRS3</i>	Dehydrogenase/Reductase 3	2.533
<i>DNAJC5</i>	Dnaj Heat Shock Protein Family (Hsp40) Member C5	1.945
<i>DOK1</i>	Docking Protein 1	2.037
<i>EFNA1</i>	Ephrin A1	2.266
<i>EFNB1</i>	Ephrin B1	1.919
<i>EIF4E3</i>	Eukaryotic Translation Initiation Factor 4E Family Member 3	2.149
<i>ELOB</i>	Elongin B	2.582 2.506
<i>ENO3</i>	Enolase 3	2.316
<i>ENTPD2</i>	Ectonucleoside Triphosphate Diphosphohydrolase 2	1.883
<i>F11R</i>	F11 Receptor	1.771

<i>F2</i>	Coagulation Factor II, Thrombin	1.805
<i>FAM32A</i>	Family With Sequence Similarity 32 Member A	1.938
<i>FBLIM1</i>	Filamin Binding LIM Protein 1	1.988
<i>FBXL22</i>	F-box and leucine rich repeat protein 22	1.766
<i>FETUB</i>	Fetuin B	2.179
<i>FGA</i>	Fibrinogen Alpha Chain	2.245
<i>FLNC</i>	Filamin C	1.969
<i>FOS</i>	Fos Proto-Oncogene, AP-1 Transcription Factor Subunit	1.789
<i>FOXD1</i>	Forkhead Box D1	2.488
<i>FSTL1</i>	Follistatin Like 1	1.864
<i>G6PC</i>	Glucose 6-Phosphatases, Catalytic	2.296
<i>GAMT</i>	Guanidinoacetate N-Methyltransferase	2.055 1.987
<i>GATA2</i>	GATA Binding Protein 2	2.278 1.846
<i>GATA5</i>	GATA Binding Protein 5	2.044
<i>GEMIN2</i>	Gem Nuclear Organelle Associated Protein 2	1.805
<i>GJA3</i>	Gap Junction Protein Alpha 3	2.408
<i>GJB2</i>	Gap Junction Protein Beta 2	2.349
<i>GJB6</i>	Gap Junction Protein Beta 6	1.942
<i>GPN1</i>	GPN-Loop Gtpase 1	2.204
<i>GPSM1</i>	G Protein Signaling Modulator 1	1.954
<i>GRAMD1C</i>	GRAM Domain Containing 1C	2.383
<i>HABP2</i>	Hyaluronan Binding Protein 2	2.536
<i>HAL</i>	Histidine Ammonia-Lyase	1.817
<i>HCFC1</i>	Host Cell Factor C1	2.042
<i>HDLBP</i>	High Density Lipoprotein Binding Protein	2.457
<i>HECTD1</i>	HECT Domain E3 Ubiquitin Protein Ligase 1	2.577
<i>HHATL</i>	Hedgehog Acyltransferase Like	2.233
<i>HIPK2</i>	Homeodomain Interacting Protein Kinase 2	1.769
<i>HIPK3</i>	Homeodomain Interacting Protein Kinase 3	2.468
<i>HNF4A</i>	Hepatocyte Nuclear Factor 4 Alpha	2.430
<i>HOXA11</i>	Homeobox A11	1.781
<i>HOXA7</i>	Homeobox A7	2.221
<i>HOXB2</i>	Homeobox B2	2.564
<i>HOXB3</i>	Homeobox B3	2.196
<i>HOXB4</i>	Homeobox B4	2.286
<i>HOXB8</i>	Homeobox B8	2.429
<i>HOXC8</i>	Homeobox C8	1.868
<i>HOXD11</i>	Homeobox D11	2.297
<i>HP1BP3</i>	Heterochromatin Protein 1 Binding Protein 3	2.468
<i>HSPA8</i>	Heat Shock Protein Family A (Hsp70) Member 8	2.311
<i>HSP90AB1</i>	Heat Shock Protein 90 Alpha Family Class B Member 1	2.077
<i>ID2</i>	Inhibitor Of DNA Binding 2	1.762
<i>IGFBP1</i>	Insulin Like Growth Factor Binding Protein 1	2.628
<i>ILK</i>	Integrin Linked Kinase	2.476
<i>IQGAP3</i>	IQ Motif Containing Gtpase Activating Protein 3	2.067
<i>IRX1</i>	Iroquois Homeobox 1	1.757
<i>IRX3</i>	Iroquois Homeobox 3	2.028
<i>ITGA7</i>	Integrin Subunit Alpha 7	1.797
<i>JUNB</i>	Junb Proto-Oncogene, AP-1 Transcription Factor Subunit	1.798
<i>KLHL41</i>	Kelch Like Family Member 41	2.226
<i>KDM5C</i>	Lysine Demethylase 5C	2.295
<i>KHSRP</i>	KH-Type Splicing Regulatory Protein	1.757

<i>KLC1</i>	Kinesin Light Chain 1	1.956
<i>KLF2</i>	Kruppel Like Factor 2	1.884
<i>KLK10</i>	Kallikrein Related Peptidase 10	1.803
<i>KRT16</i>	Keratin 16	2.362
<i>LAMA2</i>	Laminin Subunit Alpha 2	2.159
<i>LDHA</i>	Lactate Dehydrogenase A	2.445
<i>LGALS9C</i>	Galectin 9C	2.444 2.431
<i>LMOD3</i>	Leiomodin 3	2.253
<i>MAFB</i>	MAF Bzip Transcription Factor B	2.177 1.848
<i>MARCH3</i>	Membrane Associated Ring-CH-Type Finger 3	1.768
<i>MARK2</i>	Microtubule Affinity Regulating Kinase 2	1.886
<i>MARK4</i>	Microtubule Affinity Regulating Kinase 4	2.048
<i>MAT2A</i>	Methionine Adenosyltransferase 2A	2.331
<i>MATN4</i>	Matrilin 4	2.010
<i>MEIS3</i>	Meis Homeobox 3	1.797
<i>MIA3</i>	MIA Family Member 3, ER Export Factor	2.299
<i>MOSPD3</i>	Motile Sperm Domain Containing 3	1.794
<i>MPRIP</i>	Myosin Phosphatase Rho Interacting Protein	1.856
<i>MSGN1</i>	Mesogenin 1	2.320
<i>MTA2</i>	Metastasis Associated 1 Family Member 2	2.213
<i>MUC1</i>	Mucin 1, Cell Surface Associated	2.164
<i>MUC2</i>	Mucin 2, Oligomeric Mucus/Gel-Forming	1.943
<i>MVP</i>	Major Vault Protein	1.970
<i>MXI1</i>	MAX Interactor 1, Dimerization Protein	1.998
<i>MYF5</i>	Myogenic Factor 5	1.854
<i>MYH10</i>	Myosin Heavy Chain 10	2.374
<i>MYH3</i>	Myosin Heavy Chain 3	1.814
<i>MYO1E</i>	Myosin IE	2.100
<i>MYOC</i>	Myocilin	2.270
<i>MYOD1</i>	Myogenic Differentiation 1	2.114
<i>MYOT</i>	Myotilin	1.863
<i>MYOZ2</i>	Myozenin 2	2.157
<i>NAV2</i>	Neuron Navigator 2	2.374
<i>NEFM</i>	Neurofilament Medium	1.880
<i>NEXN</i>	Nexilin F-Actin Binding Protein	2.605
<i>NR4A1</i>	Nuclear Receptor Subfamily 4 Group A Member 1	1.983 1.935
<i>NT5C3A</i>	5'-Nucleotidase, Cytosolic IIIA	2.231
<i>ODAM</i>	Odontogenic, Ameloblast Associated	2.189
<i>OGDH</i>	Oxoglutarate Dehydrogenase	2.271
<i>OTUB1</i>	OTU Deubiquitinase, Ubiquitin Aldehyde Binding 1	1.825
<i>PAN3</i>	PAN3 Poly(A) Specific Ribonuclease Subunit	1.838
<i>PAX7</i>	Paired Box 7	2.107
<i>PBRM1</i>	Polybromo 1	1.808
<i>PCK1</i>	Phosphoenolpyruvate Carboxykinase 1	2.415
<i>PCOLCE</i>	Procollagen C-Endopeptidase Enhancer	1.891
<i>PCP4L1</i>	Purkinje Cell Protein 4 Like 1	1.760
<i>PDLIM7</i>	PDZ And LIM Domain 7	2.406
<i>PFN1</i>	Profilin 1	1.830
<i>PI4KB</i>	Phosphatidylinositol 4-Kinase Beta	2.040
<i>PITX1</i>	Paired Like Homeodomain 1	1.982
<i>PLCL2</i>	Phospholipase C Like 2	1.910

<i>PLEC</i>	Plectin	1.910
<i>PMM2</i>	Phosphomannomutase 2	2.219
<i>PMPCA</i>	Peptidase, Mitochondrial Processing Alpha Subunit	2.078
<i>PNPLA7</i>	Patatin Like Phospholipase Domain Containing 7	2.329
<i>PPARG</i>	Peroxisome Proliferator Activated Receptor Gamma	2.031
<i>PPDPF</i>	Pancreatic Progenitor Cell Differentiation And Proliferation Factor	1.951 1.861 1.764
<i>PPIP5K2</i>	Diphosphoinositol Pentakisphosphate Kinase 2	2.365
<i>PPP1R3C</i>	Protein Phosphatase 1 Regulatory Subunit 3C	1.920
<i>PPP2CA</i>	Protein Phosphatase 2 Catalytic Subunit Alpha	1.752
<i>PRKAG3</i>	Protein Kinase AMP-Activated Non-Catalytic Subunit Gamma 3	2.264
<i>PRKAR1A</i>	Protein Kinase Camp-Dependent Type I Regulatory Subunit Alpha	2.358
<i>PRRC2A</i>	Proline Rich Coiled-Coil 2A	2.007
<i>PRRC2B</i>	Proline Rich Coiled-Coil 2B	2.629 1.766
<i>PRTN3</i>	Proteinase 3	2.164
<i>PTGES3L</i>	Prostaglandin E Synthase 3 Like	1.850
<i>PTK2</i>	Protein Tyrosine Kinase 2	1.933
<i>PTPN1</i>	Protein Tyrosine Phosphatase, Non-Receptor Type 1	2.050
<i>PUS3</i>	Pseudouridylate Synthase 3	2.044
<i>PYGO2</i>	Pygopus Family PHD Finger 2	2.199
<i>QTRT2</i>	Queuine Trna-Ribosyltransferase Accessory Subunit 2	2.063
<i>R3HDM2</i>	R3H Domain Containing 2	2.254
<i>RAB10</i>	RAB10, Member RAS Oncogene Family	2.092
<i>RAB14</i>	RAB14, Member RAS Oncogene Family	2.454
<i>RAB1A</i>	RAB1A, Member RAS Oncogene Family	2.078
<i>RAB2A</i>	RAB2A, Member RAS Oncogene Family	1.868
<i>RAB40C</i>	RAB40C, Member RAS Oncogene Family	1.954
<i>RAP1GAP</i>	RAP1 Gtpase Activating Protein	1.827
<i>RAPSN</i>	Receptor Associated Protein Of The Synapse	1.834
<i>RBFOX3</i>	RNA Binding Fox-1 Homolog 3	1.861
<i>RBPMS</i>	RNA Binding Protein With Multiple Splicing	1.847
<i>RBPMS2</i>	RNA Binding Protein With Multiple Splicing 2	2.039
<i>RCSD1</i>	RCSD Domain Containing 1	1.895
<i>RDH11</i>	Retinol Dehydrogenase 11 (All-Trans/9-Cis/11-Cis)	1.939
<i>RFESD</i>	Rieske Fe-S Domain Containing	2.189
<i>RHOG</i>	Ras Homolog Family Member G	1.754
<i>RIPPLY3</i>	Ripply Transcriptional Repressor 3	1.763
<i>SCN2A</i>	Sodium Voltage-Gated Channel Alpha Subunit 2	1.962
<i>SCN3A</i>	Sodium Voltage-Gated Channel Alpha Subunit 3	1.897
<i>SDS</i>	Serine Dehydratase	2.156
<i>SEC14L1</i>	SEC14 Like Lipid Binding 1	1.956
<i>SELENOP</i>	Selenoprotein P	2.580
<i>SEN3</i>	SUMO1/Sentrin/SMT3 Specific Peptidase 3	2.224 2.096
<i>SEPP1</i>	Selenoprotein P	2.580
<i>SERPIND1</i>	Serpin Family D Member 1	1.799
<i>SETDB1</i>	SET Domain Bifurcated 1	2.121 2.078
<i>SGCB</i>	Sarcoglycan Beta	2.636
<i>SH3BGR</i>	SH3 Domain Binding Glutamate Rich Protein	2.590
<i>SHC1</i>	SHC Adaptor Protein 1	2.159



<i>SIK1</i>	Salt Inducible Kinase 1	2.081
<i>SIX1</i>	SIX Homeobox 1	2.351
<i>SLC16A3</i>	Solute Carrier Family 16 Member 3	1.815
<i>SLC26A6</i>	Solute Carrier Family 26 Member 6	2.413
<i>SMC3</i>	Structural Maintenance Of Chromosomes 3	2.244
<i>SMURF1</i>	SMAD Specific E3 Ubiquitin Protein Ligase 1	1.824
<i>SOD3</i>	Superoxide Dismutase 3	2.046
<i>SOX10</i>	SRY-Box 10	1.881
<i>SP3</i>	Sp3 Transcription Factor	2.582
<i>SRF</i>	Serum Response Factor	1.948
<i>SSBP1</i>	Single Stranded DNA Binding Protein 1	2.156
<i>STAT5A</i>	Signal Transducer And Activator Of Transcription 5A	1.959
<i>SYNPO2L</i>	Synaptopodin 2 Like	2.326
<i>SYPL2</i>	Synaptophysin Like 2	2.069
<i>TACR1</i>	Tachykinin Receptor 1	2.165
<i>TAL1</i>	TAL Bhlh Transcription Factor 1, Erythroid Differentiation Factor	2.210
<i>THBS4</i>	Thrombospondin 4	2.598
<i>THOC6</i>	THO Complex 6	2.413
<i>TJAP1</i>	Tight Junction Associated Protein 1	1.855 1.751
<i>TLX3</i>	T Cell Leukemia Homeobox 3	2.583
<i>TMEM163</i>	Transmembrane Protein 163	1.757
<i>TMEM72</i>	Transmembrane Protein 72	1.785
<i>TOP2B</i>	DNA Topoisomerase II Beta	1.882
<i>TRAK1</i>	Trafficking Kinesin Protein 1	2.113 2.038
<i>TRAPPC10</i>	Trafficking Protein Particle Complex 10	2.088
<i>TRAPPC9</i>	Trafficking Protein Particle Complex 9	1.821
<i>TRIM55</i>	Tripartite Motif Containing 55	2.627
<i>TRIM66</i>	Tripartite Motif Containing 66	1.763
<i>TSPAN18</i>	Tetraspanin 18	2.170
<i>TUBA8</i>	Tubulin Alpha 8	1.925
<i>TXLNB</i>	Taxilin Beta	2.135
<i>UBA1</i>	Ubiquitin Like Modifier Activating Enzyme 1	1.991
<i>UBAP2L</i>	Ubiquitin Associated Protein 2 Like	2.037
<i>UBE2R2</i>	Ubiquitin Conjugating Enzyme E2 R2	1.786
<i>UBE2V1</i>	Ubiquitin Conjugating Enzyme E2 V1	1.787
<i>UBQLN1</i>	Ubiquilin 1	2.288
<i>UBQLN4</i>	Ubiquilin 4	2.044
<i>UBR5</i>	Ubiquitin Protein Ligase E3 Component N-Recognin 5	2.022
<i>UCMA</i>	Upper Zone Of Growth Plate And Cartilage Matrix Associated	1.756
<i>UPK1B</i>	Uroplakin 1B	1.934
<i>VAMP2</i>	Vesicle Associated Membrane Protein 2	2.585
<i>LDLR</i>	Very Low Density Lipoprotein Receptor	1.799
<i>WASHC1</i>	WASH Complex Subunit 1	1.772
<i>WBP2</i>	WW Domain Binding Protein 2	1.891
<i>WDR54</i>	WD Repeat Domain 54	1.952
<i>WEE1</i>	WEE1 G2 Checkpoint Kinase	2.349
<i>XIRP1</i>	Xin Actin Binding Repeat Containing 1	1.770
<i>XPO1</i>	Exportin 1	1.953
<i>ZNF652</i>	Zinc Finger Protein 652	1.791
<i>ZNF653</i>	Zinc Finger Protein 653	1.795
<i>ZNF703</i>	Zinc Finger Protein 703	2.087

ZYX	Zyxin	2.103 1.891
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B.

<b>HGNC</b>	<b>Gene Name</b>	<b>Log<sub>2</sub> Fold Change</b>
<b>DECREASED</b>		
<i>ADAMTS13</i>	Adam Metallopeptidase With Thrombospondin Type 1 Motif 13	-0.499
<i>ADGRG2</i>	Adhesion G Protein-Coupled Receptor G2	-0.573
<i>AKAP12</i>	A-Kinase Anchoring Protein 12	-0.502 -0.618
<i>ALDH1A2</i>	Aldehyde Dehydrogenase 1 Family Member A2	-0.413 -0.493
<i>ALX1</i>	Alx Homeobox 1	-0.431 -0.586
<i>ALX4</i>	Alx Homeobox 4	-0.733 -0.926
<i>ATP13A4</i>	Atpase 13A4	-0.516
<i>BGN</i>	Biglycan	-0.675
<i>BMP2</i>	Bone Morphogenetic Protein 2	-0.456
<i>BMP5</i>	Bone Morphogenetic Protein 5	-0.696
<i>CLEC11A</i>	C-Type Lectin Domain Containing 11a	-0.625
<i>CLU</i>	Clusterin	-0.447
<i>COCH</i>	Cochlin	-0.950
<i>COL9A1</i>	Collagen Type IX Alpha 1 Chain	-0.465 -0.583
<i>COL9A2</i>	Collagen Type IX Alpha 2 Chain	-0.345
<i>COL9A3</i>	Collagen Type IX Alpha 3 Chain	-0.374
<i>COLEC12</i>	Collectin Subfamily Member 12	-0.420 -0.423
<i>CORIN</i>	Corin, Serine Peptidase	-0.460
<i>CPN1</i>	Carboxypeptidase N Subunit 1	-0.537
<i>CPXM1</i>	Carboxypeptidase X, M14 Family Member 1	-0.429
<i>CRABP2</i>	Cellular Retinoic Acid Binding Protein 2	-0.485 -0.939
<i>CYP26A1</i>	Cytochrome P450 Family 26 Subfamily A Member 1	-0.690 -1.637
<i>CYP26B1</i>	Cytochrome P450 Family 26 Subfamily B Member 1	-0.697
<i>CYP26C1</i>	Cytochrome P450 Family 26 Subfamily C Member 1	-0.440
<i>DHRS3</i>	Dehydrogenase/Reductase 3	-0.734 -1.052
<i>DMBX1</i>	Diencephalon/Mesencephalon Homeobox 1	-0.648
<i>DNAJC12</i>	Dnaj Heat Shock Protein Family (Hsp40) Member C12	-0.659
<i>EDNRB</i>	Endothelin Receptor Type B	-0.474
<i>EMILIN1</i>	Elastin Microfibril Interfacer 1	-0.356
<i>EN2</i>	Engrailed Homeobox 2	-0.618
<i>ENTPD1</i>	Ectonucleoside Triphosphate Diphosphohydrolase 1	-0.497
<i>EYA2</i>	Eya Transcriptional Coactivator And Phosphatase 2	-0.475
<i>F2R</i>	Coagulation Factor Ii Thrombin Receptor	-0.465
<i>FAM151A</i>	Family With Sequence Similarity 151 Member A	-0.417

<i>FOXC1</i>	Forkhead Box C1	-0.508
<i>FOXD1</i>	Forkhead Box D1	-0.501
<i>FOXI4</i>	Forkhead Box I4	-0.563
<i>FOXP4</i>	Forkhead Box P4	-0.425
<i>GATA2</i>	GATA Binding Protein 2	-0.587 -0.815
<i>GATA3</i>	GATA Binding Protein 3	-0.476 -0.668
<i>GH1</i>	Growth Hormone 1	-0.484 -0.660
<i>GLIS3</i>	GLIS Family Zinc Finger 3	-0.536
<i>HAS2</i>	Hyaluronan Synthase 2	-0.526 -0.710
<i>HEBP2</i>	Heme Binding Protein 2	-0.485
<i>HIC1</i>	HIC ZBTB Transcriptional Repressor 1	-0.774
<i>HMGA2</i>	High Mobility Group AT-Hook 2	-0.485
<i>HOXA4</i>	Homeobox A4	-0.562
<i>HSPA12B</i>	Heat Shock Protein Family A (Hsp70) Member 12B	-0.373
<i>IL11RA</i>	Interleukin 11 Receptor Subunit Alpha	-0.407
<i>IL13RA2</i>	Interleukin 13 Receptor Subunit Alpha 2	-0.318
<i>KIAA1755</i>	KIAA1755	-0.435
<i>KRT19</i>	Keratin 19	-0.617
<i>MATN4</i>	Matrilin 4	-0.518
<i>MYADM</i>	Myeloid Associated Differentiation Marker	-0.467
<i>MYL4</i>	Myosin Light Chain 4	-0.495
<i>MYOM3</i>	Myomesin 3	-0.394
<i>NEFM</i>	Neurofilament Medium	-0.474
<i>PAH</i>	Phenylalanine Hydroxylase	-0.575
<i>PRRT3</i>	Proline Rich Transmembrane Protein 3	-0.547
<i>QDPR</i>	Quinoid Dihydropteridine Reductase	-0.446
<i>RARB</i>	Retinoic Acid Receptor Beta	-0.731
<i>RARG</i>	Retinoic Acid Receptor Gamma	-0.375
<i>RHBG</i>	Rh Family B Glycoprotein (Gene/Pseudogene)	-0.659 -0.440
<i>S100A9</i>	S100 Calcium Binding Protein A9	-0.474
<i>SEPT9</i>	Septin 9	-0.376
<i>SFRP1</i>	Secreted Frizzled Related Protein 1	-0.498 -0.697
<i>SIX2</i>	SIX Homeobox 2	-0.516 -0.805
<i>SNCG</i>	Synuclein Gamma	-0.466
<i>SSPO</i>	SCO-Spondin	-0.542
<i>SSTR2</i>	Somatostatin Receptor 2	-0.717
<i>TAL2</i>	TAL Bhlh Transcription Factor 2	-0.542
<i>TGFBI</i>	Transforming Growth Factor Beta Induced	-0.709
<i>TRABD2B</i>	TRAB Domain Containing 2B	-0.411
<i>UCMA</i>	Upper Zone Of Growth Plate And Cartilage Matrix Associated	-0.578
<i>WNT1</i>	Wnt Family Member 1	-0.347
<b>INCREASED</b>		
<i>AIFM3</i>	Apoptosis Inducing Factor, Mitochondria Associated 3	0.406
<i>ATOH7</i>	Atonal Bhlh Transcription Factor 7	0.402
<i>CAPN3</i>	Calpain 3	0.570
<i>CHODL</i>	Chondrolectin	0.538

<i>CLUL1</i>	Clusterin Like 1	0.354
<i>CRYBG1</i>	Crystallin Beta-Gamma Domain Containing 1	0.393
<i>DLX2</i>	Distal-Less Homeobox 2	0.527
<i>ERMIN</i>	Ermin	0.386
<i>FRZB</i>	Frizzled Related Protein	0.598
<i>HBD</i>	Hemoglobin Subunit Delta	0.590
<i>HEMGN</i>	Hemogen	0.452
<i>IGFBP2</i>	Insulin Like Growth Factor Binding Protein 2	0.407
<i>LHX1</i>	LIM Homeobox 1	0.414
<i>PCK2</i>	Phosphoenolpyruvate Carboxykinase 2, Mitochondrial	0.469
<i>SIM2</i>	Single-Minded Family bHLH Transcription Factor 2	0.538 0.463
<i>SLC39A8</i>	Solute Carrier Family 39 Member 8	0.542
<i>SMOC1</i>	SPARC Related Modular Calcium Binding 1	0.541
<i>VSX1</i>	Visual System Homeobox 1	0.585