

Supplement 1. List of genes affected by pregnancy in the intercaruncular endometrium on d 17 of the cycle or pregnancy. Genes were selected based on an absolute expression value > 40 and P-value <0.01. Fold effect and regulation columns consider the effects of pregnancy using the cyclic endometrium as the reference. (i.e. Down regulation means the pregnant endometrium has a lower gene expression than cyclic endometrium)

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
similar to C1qR(p)	<i>LOC53969</i> 0	539690	---	5.44E-09	0.19	Down
oxytocin receptor	<i>OXTR</i>	281371	0007165 // signal transduction // inferred from electronic annotation /// 0007186 // G-protein coupled receptor protein signaling pathway // inferred from electronic annotation /// 0045777 // positive regulation of blood pressure // inferred from electron	0.00027	0.20	Down
polymeric immunoglobulin receptor	<i>PIGR</i>	281401	---	4.75E-07	0.20	Down
Similar to collagen, type XIV, alpha 1	<i>LOC78149</i> 3	781493	---	3.59E-08	0.21	Down
immunoglobulin superfamily, member 10	<i>IGSF10</i>	537487	---	3.26E-08	0.23	Down
glutamate receptor, ionotropic, kainate 1	<i>GRIK1</i>	533760	0006810 // transport // inferred from electronic annotation /// 0006811 // ion transport // inferred from electronic annotation	4.16E-05	0.23	Down
SH3 domain binding glutamic acid-rich protein	<i>SH3BGR</i>	617797	---	1.92E-08	0.24	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
plasmalemma vesicle associated protein	<i>PLVAP</i>	524990	---	3.84E-07	0.25	Down
sodium channel, nonvoltage-gated 1 alpha	<i>SCNN1A</i>	282348	0006810 // transport // inferred from electronic annotation /// 0006811 // ion transport // inferred from electronic annotation /// 0006814 // sodium ion transport // inferred from electronic annotation	1.17E-06	0.25	Down
immunoglobulin superfamily containing leucine-rich repeat	<i>ISLR</i>	515018	---	1.16E-06	0.26	Down
leucine rich repeat and fibronectin type III domain containing 5	<i>LRFN5</i>	539366	---	0.000357	0.27	Down
glycosyltransferase 8 domain containing 2	<i>GLT8D2</i>	523294	0016051 // carbohydrate biosynthetic process // inferred from electronic annotation	4.07E-08	0.27	Down
endothelin 3	<i>EDN3</i>	513753	0019229 // regulation of vasoconstriction // inferred from electronic annotation	7.11E-05	0.28	Down
Carbonic anhydrase VIII	<i>CA8</i>	515918	0006730 // one-carbon compound metabolic process // inferred from electronic annotation	2.33E-07	0.30	Down
carbonic anhydrase VIII	<i>CA8</i>	515918	0006730 // one-carbon compound metabolic process // inferred from electronic annotation	7.66E-08	0.31	Down
proline/arginine-rich end leucine-rich	<i>PRELP</i>	282000	---	2.12E-08	0.31	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
repeat protein						
H19, imprinted maternally expressed untranslated mRNA	<i>H19</i>	100126192	---	0.00275	0.31	Down
solute carrier family 16, member 2 (monocarboxylic acid transporter 8)	<i>SLC16A2</i>	535872	0006810 // transport // inferred from electronic annotation	5.02E-09	0.32	Down
sphingosine kinase 2	<i>SPHK2</i>	533103	0007205 // activation of protein kinase C activity // inferred from electronic annotation	2.38E-13	0.32	Down
protein phosphatase 1, regulatory (inhibitor) subunit 16B	<i>PPP1R16B</i>	282091	---	1.50E-09	0.32	Down
matrix-remodelling associated 8	<i>MXRA8</i>	522392	---	3.21E-10	0.32	Down
fibroblast activation protein, alpha	<i>FAP</i>	508882	0006508 // proteolysis // inferred from electronic annotation	2.21E-09	0.33	Down
glycosylphosphatidylinositol anchored high density lipoprotein binding protein 1	<i>GPIHBP1</i>	512826	---	3.00E-07	0.33	Down
myostatin	<i>MSTN</i>	281187	0007179 // transforming growth factor beta receptor signaling pathway // inferred from electronic annotation /// 0040007 // growth // inferred from electronic annotation /// 0045941 // positive regulation of transcription // inferred from electronic annot	7.89E-06	0.33	Down
SRY (sex determining region Y)-box 18	<i>SOX18</i>	519439	0006355 // regulation of transcription, DNA-dependent // inferred from	5.32E-07	0.33	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			electronic annotation			
Similar to MPIF-1	<i>LOC508666</i>	508666	---	5.87E-07	0.34	Down
Tetraspanin 2	<i>TSPAN2</i>	539001	---	2.76E-05	0.34	Down
hypothetical protein LOC100125878	<i>LOC100125878</i>	100125878	---	8.19E-08	0.34	Down
RAC/CDC42 exchange factor	<i>GEFT</i>	506075	0035023 // regulation of Rho protein signal transduction // inferred from electronic annotation	9.61E-07	0.35	Down
transforming growth factor, beta 2	<i>TGFB2</i>	534069	0000902 // cell morphogenesis // inferred from electronic annotation /// 0001501 // skeletal development // inferred from electronic annotation /// 0001568 // blood vessel development // inferred from electronic annotation /// 0001654 // eye development /	8.76E-05	0.36	Down
LIM and cysteine-rich domains 1	<i>LMCD1</i>	540474	0000122 // negative regulation of transcription from RNA polymerase II promoter // inferred from electronic annotation	1.09E-07	0.36	Down
Chromosome 14 open reading frame 37 ortholog	<i>C10H14orf37</i>	508562	---	0.000116	0.36	Down
metallophosphoesterase domain containing 2	<i>MPPED2</i>	540914	---	7.99E-07	0.36	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
CD300 molecule-like family member g	<i>CD300LG</i>	615388	0006955 // immune response // inferred from electronic annotation	3.68E-05	0.36	Down
fatty acid binding protein 7, brain	<i>FABP7</i>	777787	0006810 // transport // inferred from electronic annotation	7.99E-06	0.36	Down
platelet/endothelial cell adhesion molecule (CD31 antigen)	<i>PECAM1</i>	282303	0007155 // cell adhesion // inferred from electronic annotation	9.44E-08	0.37	Down
potassium large conductance calcium-activated channel, subfamily M, alpha member 1	<i>KCNMA1</i>	282573	0006810 // transport // inferred from electronic annotation /// 0006811 // ion transport // inferred from electronic annotation /// 0006813 // potassium ion transport // inferred from electronic annotation /// 0008152 // metabolic process // inferred from	0.00036	0.37	Down
urocanase domain containing 1	<i>UROCI</i>	528246	0006548 // histidine catabolic process // inferred from electronic annotation	3.19E-11	0.37	Down
cAMP responsive element binding protein 3-like 4	<i>CREB3L4</i>	529566	0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation	3.60E-06	0.37	Down
calponin 1, basic, smooth muscle	<i>CNN1</i>	534583	0031032 // actomyosin structure organization and biogenesis // inferred from electronic annotation	1.16E-06	0.37	Down
corticotropin releasing hormone binding protein	<i>CRHBP</i>	540087	---	0.000229	0.37	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
cadherin 13, H-cadherin (heart)	<i>CDH13</i>	512302	0001938 // positive regulation of endothelial cell proliferation // inferred from electronic annotation /// 0001954 // positive regulation of cell-matrix adhesion // inferred from electronic annotation /// 0002040 // sprouting angiogenesis // inferred fro	7.91E-06	0.37	Down
integrin, alpha 7	<i>ITGA7</i>	506953	---	0.001001	0.37	Down
leucine rich repeat containing 17	<i>LRRC17</i>	777690	---	1.34E-08	0.38	Down
hemicentin 1	<i>HMCN1</i>	521326	---	1.05E-07	0.38	Down
cartilage associated protein	<i>CRTAP</i>	540924	---	1.29E-08	0.38	Down
V-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog	<i>KIT</i>	280832	0006468 // protein amino acid phosphorylation // inferred from electronic annotation /// 0007169 // transmembrane receptor protein tyrosine kinase signaling pathway // inferred from electronic annotation /// 0007243 // protein kinase cascade // inferred f	0.001176	0.39	Down
reticulocalbin 3, EF-hand calcium binding domain	<i>RCN3</i>	522073	---	1.02E-05	0.39	Down
collagen, type XII, alpha 1	<i>COL12A1</i>	359712	0006817 // phosphate transport // inferred from electronic annotation /// 0007155 // cell adhesion // inferred from electronic annotation	9.29E-06	0.39	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
Transmembrane protease, serine 2	<i>TMPRSS2</i>	511037	0006508 // proteolysis // inferred from electronic annotation	0.003658	0.39	Down
similar to nonclathrin coat protein zeta-COP	<i>LOC616222</i>	616222	---	5.01E-09	0.40	Down
sideroflexin 3	<i>SFXN3</i>	511755	0006812 // cation transport // inferred from electronic annotation	8.22E-09	0.40	Down
butyrylcholinesterase	<i>BCHE</i>	534616	---	3.38E-07	0.41	Down
versican	<i>VCAN</i>	282662	0007155 // cell adhesion // inferred from electronic annotation /// 0007507 // heart development // inferred from electronic annotation	0.003346	0.41	Down
coiled-coil domain containing 80	<i>CCDC80</i>	515235	---	5.28E-08	0.41	Down
junctophilin 4	<i>JPH4</i>	781073	---	5.27E-05	0.41	Down
potassium large conductance calcium-activated channel, subfamily M, alpha member 1	<i>KCNMA1</i>	282573	0006810 // transport // inferred from electronic annotation /// 0006811 // ion transport // inferred from electronic annotation /// 0006813 // potassium ion transport // inferred from electronic annotation /// 0008152 // metabolic process // inferred from	1.08E-06	0.41	Down
similar to CMP-N-acetylneuraminic acid hydroxylase	<i>LOC537017</i>	537017	---	0.000737	0.41	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
Nephronectin	<i>NPNT</i>	513362	---	5.10E-09	0.41	Down
zinc finger protein 521	<i>ZNF521</i>	538792	0045449 // regulation of transcription // inferred from electronic annotation	6.47E-08	0.41	Down
reticulocalbin 3, EF-hand calcium binding domain	<i>RCN3</i>	522073	---	8.85E-09	0.41	Down
LAMA-like protein 1	<i>LOC317710</i>	317710	0016042 // lipid catabolic process // inferred from electronic annotation	1.65E-06	0.41	Down
hypothetical LOC515128	<i>LOC515128</i>	515128	---	5.07E-07	0.42	Down
C20orf142-like	<i>LOC518159</i>	518159	---	4.18E-08	0.42	Down
nephroblastoma overexpressed	<i>NOV</i>	505727	0001558 // regulation of cell growth // inferred from electronic annotation	0.009023	0.42	Down
sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A	<i>SEMA5A</i>	506636	---	0.001504	0.42	Down
fibulin 5	<i>FBLN5</i>	535185	0007155 // cell adhesion // inferred from electronic annotation /// 0007596 // blood coagulation // inferred from electronic annotation	8.60E-07	0.42	Down
Similar to KIAA1568 protein	<i>LOC781194</i>	781194	---	3.65E-06	0.42	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
microtubule-associated protein 1B	<i>MAP1B</i>	514739	0006457 // protein folding // inferred from electronic annotation	0.00506	0.43	Down
similar to nonclathrin coat protein zeta-COP	<i>LOC616222</i>	616222	---	1.40E-09	0.43	Down
guanidinoacetate N-methyltransferase	<i>GAMT</i>	515270	---	1.95E-12	0.43	Down
nitric oxide synthase 1 (neuronal) adaptor protein	<i>NOS1AP</i>	783439	---	5.49E-07	0.43	Down
aquaporin 1 (Colton blood group)	<i>AQP1</i>	282653	0006810 // transport // inferred from electronic annotation	0.00163	0.43	Down
GTF2I repeat domain containing 1	<i>GTF2IRD1</i>	507792	---	9.41E-06	0.43	Down
hypothetical LOC535165	<i>LOC535165</i>	535165	---	5.63E-07	0.43	Down
membrane metallo-endopeptidase	<i>MME</i>	536741	---	0.000832	0.44	Down
myocilin, trabecular meshwork inducible glucocorticoid response	<i>MYOC</i>	281342	---	8.12E-07	0.44	Down
FK506 binding protein 10, 65 kDa	<i>FKBP10</i>	535310	0006457 // protein folding // inferred from electronic annotation	7.88E-06	0.44	Down
speckle-type POZ protein	<i>SPOP</i>	530618	0006512 // ubiquitin cycle // inferred from electronic annotation	5.79E-07	0.44	Down
similar to transmembrane and tetratricopeptide repeat containing 2	<i>LOC781126</i>	781126	---	2.13E-06	0.44	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
sarcoglycan, epsilon	<i>Sgce</i>	407209	---	7.59E-07	0.44	Down
protein tyrosine phosphatase, receptor type, D	<i>PTPRD</i>	532751	---	2.19E-07	0.44	Down
G protein-coupled receptor 153	<i>GPR153</i>	518906	---	4.57E-07	0.44	Down
transmembrane protein 88	<i>TMEM88</i>	507172	---	1.34E-08	0.45	Down
Hypothetical protein LOC784675	<i>KIAA1462</i>	784675	---	1.18E-05	0.45	Down
hydrogen voltage-gated channel 1	<i>HVCNI</i>	616570	---	1.99E-08	0.45	Down
protein phosphatase 2 (formerly 2A), regulatory subunit B, beta isoform	<i>PPP2R2B</i>	509290	0007165 // signal transduction // inferred from electronic annotation	1.37E-07	0.45	Down
WAP four-disulfide core domain 1	<i>WFDC1</i>	505366	---	4.28E-06	0.45	Down
TIMP metalloproteinase inhibitor 4	<i>TIMP4</i>	317694	---	0.00045	0.46	Down
Collagen, type XI, alpha 1	<i>COL11A1</i>	287013	0006817 // phosphate transport // inferred from electronic annotation /// 0007155 // cell adhesion // inferred from electronic annotation	0.00684	0.46	Down
myotubularin related protein 9	<i>MTMR9</i>	521746	0046839 // phospholipid dephosphorylation // inferred from electronic annotation	3.04E-07	0.46	Down
lysozyme (renal amyloidosis)	<i>LYZ</i>	777776	0008152 // metabolic process // inferred from electronic annotation /// 0016998 // cell wall catabolic process	0.004467	0.46	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			// inferred from electronic annotation /// 0019835 // cytolysis // inferred from electronic annotation /// 0042742 // defense response to bacter			
carboxypeptidase E	<i>CPE</i>	280753	0006508 // proteolysis // inferred from electronic annotation /// 0030070 // insulin processing // inferred from electronic annotation	1.39E-05	0.46	Down
similar to polydom	<i>LOC78128 2</i>	781282	0007155 // cell adhesion // inferred from electronic annotation	0.002868	0.46	Down
plexin domain containing 2	<i>PLXDC2</i>	515731	0007275 // multicellular organismal development // inferred from electronic annotation	0.001097	0.47	Down
Usher syndrome 1C binding protein 1	<i>USHBP1</i>	768083	---	1.93E-07	0.47	Down
protein tyrosine phosphatase, receptor type, D	<i>PTPRD</i>	532751	---	1.57E-08	0.47	Down
membrane metallo-endopeptidase	<i>MME</i>	536741	---	0.002086	0.47	Down
spleen trypsin inhibitor	<i>LOC40410 3</i>	404103	---	0.00752	0.47	Down
polo-like kinase 2 (Drosophila)	<i>PLK2</i>	539449	0006468 // protein amino acid phosphorylation // inferred from electronic annotation	1.72E-09	0.47	Down
Kruppel-like factor 11	<i>KLF11</i>	616730	---	0.000104	0.47	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
Calcium channel, voltage-dependent, T type, alpha 1G subunit	<i>CACNA1G</i>	282411	0006811 // ion transport // inferred from electronic annotation /// 0006816 // calcium ion transport // inferred from electronic annotation	4.11E-05	0.47	Down
tripartite motif-containing 2	<i>TRIM2</i>	538617	---	0.001435	0.48	Down
insulin-like growth factor 1 (somatomedin C)	<i>IGF1</i>	281239	---	0.002449	0.48	Down
Cyclin-dependent kinase inhibitor 1C (p57, Kip2)	<i>CDKN1C</i>	510972	0007050 // cell cycle arrest // inferred from electronic annotation	8.06E-08	0.48	Down
phosphoglucomutase 5	<i>PGM5</i>	785045	0005975 // carbohydrate metabolic process // inferred from electronic annotation /// 0006508 // proteolysis // inferred from electronic annotation	1.10E-07	0.48	Down
CD59 molecule, complement regulatory protein	<i>CD59</i>	505574	---	7.46E-05	0.48	Down
UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase-like 1	<i>GALNTL1</i>	526331	---	3.06E-06	0.48	Down
S-adenosylhomocysteine hydrolase-like 2	<i>AHCYL2</i>	532836	0006730 // one-carbon compound metabolic process // inferred from electronic annotation /// 0008152 // metabolic process // inferred from electronic annotation	1.38E-05	0.48	Down
Collagen, type V, alpha 3	<i>COL5A3</i>	507881	0007155 // cell adhesion // inferred	1.25E-05	0.49	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			from electronic annotation			
Neurotrophic tyrosine kinase, receptor, type 2	<i>NTRK2</i>	505824	---	0.003821	0.49	Down
Chromobox homolog 6	<i>CBX6</i>	513830	0006333 // chromatin assembly or disassembly // inferred from electronic annotation	2.41E-09	0.49	Down
collagen, type IV, alpha 5 (Alport syndrome)	<i>COL4A5</i>	511602	0006817 // phosphate transport // inferred from electronic annotation	2.20E-06	0.49	Down
interleukin 33	<i>IL33</i>	507054	---	0.001472	0.49	Down
neuroligin 3	<i>NLGN3</i>	511251	0007155 // cell adhesion // inferred from electronic annotation	3.91E-07	0.49	Down
collagen, type IV, alpha 4	<i>COL4A4</i>	407107	0006817 // phosphate transport // inferred from electronic annotation /// 0007155 // cell adhesion // inferred from electronic annotation	0.001911	0.49	Down
nestin	<i>NES</i>	522383	0006886 // intracellular protein transport // inferred from electronic annotation /// 0006888 // ER to Golgi vesicle-mediated transport // inferred from electronic annotation	5.02E-06	0.49	Down
phosphofructokinase, muscle	<i>PFKM</i>	506544	0006096 // glycolysis // inferred from electronic annotation	7.35E-08	0.49	Down
secretion regulating guanine nucleotide	<i>SERGEF</i>	534377	0050709 // negative regulation of protein secretion // inferred from	6.44E-09	0.49	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
exchange factor			electronic annotation			
similar to SMAP-2b	<i>MGC14887</i> <i>1</i>	615490	---	0.000412	0.49	Down
wingless-type MMTV integration site family, member 2B	<i>WNT2B</i>	445420	0007223 // Wnt receptor signaling pathway, calcium modulating pathway // inferred from electronic annotation /// 0007275 // multicellular organismal development // inferred from electronic annotation /// 0016055 // Wnt receptor signaling pathway // inferr	0.002584	0.49	Down
surfactant associated protein G	<i>SFTPG</i>	616978	---	0.000106	0.49	Down
S-adenosylhomocysteine hydrolase-like 2	<i>AHCYL2</i>	532836	0006730 // one-carbon compound metabolic process // inferred from electronic annotation /// 0008152 // metabolic process // inferred from electronic annotation	0.000111	0.49	Down
hydroxysteroid (11-beta) dehydrogenase 1-like	<i>HSD11B1L</i>	404546	0008152 // metabolic process // inferred from electronic annotation	2.30E-05	0.49	Down
phospholipase C-like 2	<i>PLCL2</i>	510408	0006629 // lipid metabolic process // inferred from electronic annotation /// 0007242 // intracellular signaling cascade // inferred from electronic annotation	2.60E-06	0.49	Down
sal-like 2 (Drosophila)	<i>SALL2</i>	527574	---	1.71E-06	0.49	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
hairy and enhancer of split 1, (Drosophila)	<i>HES1</i>	539547	0000122 // negative regulation of transcription from RNA polymerase II promoter // inferred from electronic annotation /// 0001889 // liver development // inferred from electronic annotation /// 0006350 // transcription // inferred from electronic annotat	1.10E-06	0.49	Down
histone H4-like	<i>LOC617875</i>	617875	0006334 // nucleosome assembly // inferred from electronic annotation	5.00E-10	0.50	Down
D component of complement (adipsin)	<i>DF</i>	505647	0006508 // proteolysis // inferred from electronic annotation /// 0006955 // immune response // inferred from electronic annotation /// 0006957 // complement activation, alternative pathway // inferred from electronic annotation /// 0045087 // innate immu	0.000305	0.50	Down
ADAM-like, decysin 1	<i>ADAMDEC1</i>	505890	0006508 // proteolysis // inferred from electronic annotation	0.002581	0.50	Down
similar to type VII collagen	<i>LOC507133</i>	507133	0006817 // phosphate transport // inferred from electronic annotation	1.89E-05	0.50	Down
Cysteinyl-tRNA synthetase 2, mitochondrial (putative)	<i>CARS2</i>	506598	0006412 // translation // inferred from electronic annotation /// 0006418 // tRNA aminoacylation for protein translation // inferred from electronic annotation /// 0006423 // cysteinyl-tRNA aminoacylation // inferred from	0.001262	0.50	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			electronic annotation			
WNT1 inducible signaling pathway protein 2	<i>WISP2</i>	534658	0001558 // regulation of cell growth // inferred from electronic annotation	1.99E-05	0.50	Down
actin, alpha 2, smooth muscle, aorta	<i>ACTA2</i>	515610	0030240 // muscle thin filament assembly // inferred from sequence or structural similarity /// 0048741 // skeletal muscle fiber development // inferred from sequence or structural similarity	0.003231	0.50	Down
hypothetical LOC615685	<i>LOC615685</i>	615685	---	3.37E-09	0.50	Down
MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase	<i>MFNG</i>	505267	---	5.18E-09	0.50	Down
hypothetical LOC615685	<i>LOC615685</i>	615685	---	2.62E-07	0.50	Down
keratin 10 (epidermolytic hyperkeratosis; keratosis palmaris et plantaris)	<i>KRT10</i>	281888	---	1.89E-07	0.50	Down
hypothetical protein LOC783163	<i>LOC783163</i>	783163	---	3.36E-08	0.50	Down
pleckstrin homology-like domain, family B, member 2	<i>PHLDB2</i>	509784	---	0.000279	0.50	Down
Ctr9, Paf1/RNA polymerase II complex component, homolog (<i>S. cerevisiae</i>)	<i>CTR9</i>	534265	---	4.36E-07	0.51	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
chromobox homolog 6	<i>CBX6</i>	513830	0006333 // chromatin assembly or disassembly // inferred from electronic annotation	2.46E-09	0.51	Down
hypothetical LOC538778	<i>LOC538778</i>	538778	---	0.005279	0.51	Down
Carbohydrate (N-acetylgalactosamine 4-0) sulfotransferase 9	<i>CHST9</i>	525909	---	1.83E-06	0.51	Down
tenascin XB	<i>TNXB</i>	282654	0007155 // cell adhesion // inferred from direct assay /// 0007165 // signal transduction // inferred from electronic annotation /// 0030036 // actin cytoskeleton organization and biogenesis // inferred from mutant phenotype /// 0030198 // extracellular m	2.15E-05	0.51	Down
bone morphogenetic protein 2	<i>BMP2</i>	615037	0040007 // growth // inferred from electronic annotation	2.31E-07	0.51	Down
microfibrillar-associated protein 4	<i>MFAP4</i>	286766	0007155 // cell adhesion // inferred from electronic annotation /// 0007165 // signal transduction // inferred from electronic annotation	8.07E-05	0.51	Down
dispatched homolog 1 (Drosophila)	<i>DISP1</i>	534637	---	3.30E-05	0.51	Down
CXXC finger 5	<i>CXXC5</i>	538485	---	1.94E-08	0.51	Down
breast carcinoma amplified sequence 4	<i>BCAS4</i>	617710	---	2.48E-08	0.51	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
chromosome 12 open reading frame 57 ortholog	<i>C5H12ORF57</i>	511545	---	5.84E-09	0.51	Down
hypothetical LOC511765	<i>MGC137169</i>	511765	---	5.23E-06	0.52	Down
CAP-GLY domain containing linker protein 3	<i>CLIP3</i>	522965	---	1.76E-06	0.52	Down
muscle RAS oncogene homolog	<i>MRAS</i>	540803	0007264 // small GTPase mediated signal transduction // inferred from electronic annotation	2.05E-10	0.52	Down
pyridoxal (pyridoxine, vitamin B6) phosphatase	<i>PDXP</i>	506308	0008152 // metabolic process // inferred from electronic annotation	2.03E-06	0.52	Down
fasciculation and elongation protein zeta 1 (zygin I)	<i>FEZ1</i>	511751	---	7.57E-06	0.52	Down
secretogranin V (7B2 protein)	<i>SCG5</i>	508224	0007218 // neuropeptide signaling pathway // inferred from electronic annotation	1.64E-05	0.52	Down
thymocyte selection-associated high mobility group box	<i>TOX</i>	525888	0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation	7.99E-05	0.52	Down
melanoma antigen family D, 4-like	<i>LOC100125231</i>	100125231	---	3.98E-07	0.52	Down
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase-like	<i>LOC614717</i>	614717	0006486 // protein amino acid glycosylation // inferred from	1.48E-07	0.52	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			electronic annotation			
claudin 10	<i>CLDN10</i>	506545	---	0.002208	0.52	Down
Dihydropyrimidinase-like 3	<i>DPYSL3</i>	509796	---	4.26E-10	0.52	Down
ionized calcium binding adapter molecule 2	<i>C9orf58</i>	617493	---	5.45E-06	0.52	Down
odd-skipped related 2 (Drosophila)	<i>OSR2</i>	508692	0008284 // positive regulation of cell proliferation // inferred from electronic annotation /// 0048704 // embryonic skeletal morphogenesis // inferred from electronic annotation	0.00552	0.52	Down
cadherin 2, type 1, N-cadherin (neuronal)	<i>CDH2</i>	281062	0007155 // cell adhesion // inferred from electronic annotation /// 0007156 // homophilic cell adhesion // inferred from electronic annotation /// 0016339 // calcium-dependent cell-cell adhesion // inferred from electronic annotation /// 0016477 // cell m	8.38E-05	0.52	Down
roundabout homolog 4, magic roundabout (Drosophila)	<i>ROBO4</i>	783785	---	0.000124	0.53	Down
hypothetical protein LOC788205	<i>LOC788205</i>	788205	---	0.000712	0.53	Down
Hypothetical protein LOC781544	<i>LOC781544</i>	781544	---	4.27E-08	0.53	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
FXYP domain containing ion transport regulator 1 (phospholemman)	<i>FXYP1</i>	616139	0006810 // transport // inferred from electronic annotation /// 0006811 // ion transport // inferred from electronic annotation	1.15E-09	0.53	Down
Intestinal cell (MAK-like) kinase	<i>ICK</i>	506286	0006468 // protein amino acid phosphorylation // inferred from electronic annotation	0.000562	0.53	Down
leprecan-like 1	<i>LEPREL1</i>	511799	0019538 // protein metabolic process // inferred from electronic annotation	0.005077	0.53	Down
odd-skipped related 2 (Drosophila)	<i>OSR2</i>	508692	0008284 // positive regulation of cell proliferation // inferred from electronic annotation /// 0048704 // embryonic skeletal morphogenesis // inferred from electronic annotation	3.51E-06	0.53	Down
importin 11	<i>IPO11</i>	538236	0000059 // protein import into nucleus, docking // inferred from electronic annotation /// 0006886 // intracellular protein transport // inferred from electronic annotation	3.58E-06	0.53	Down
NFKB inhibitor interacting Ras-like 1	<i>NKIRAS1</i>	522875	0007264 // small GTPase mediated signal transduction // inferred from electronic annotation /// 0015031 // protein transport // inferred from electronic annotation	2.33E-06	0.53	Down
phosphoinositide-3-kinase, regulatory subunit 2 (beta)	<i>PIK3R2</i>	282308	0007165 // signal transduction // inferred from electronic annotation ///	1.49E-07	0.53	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			0019987 // negative regulation of anti-apoptosis // inferred from sequence or structural similarity			
Paternally expressed 10	<i>PEG10</i>	618138	---	0.00223	0.53	Down
olfactomedin-like 3	<i>OLFML3</i>	505318	---	1.70E-07	0.53	Down
von Willebrand factor A domain containing 1	<i>VWAI</i>	505917	---	2.78E-06	0.53	Down
heat shock transcription factor 2 binding protein	<i>HSF2BP</i>	617142	0006950 // response to stress // inferred from electronic annotation	6.14E-05	0.53	Down
lymphocyte-specific protein tyrosine kinase	<i>LCK</i>	508890	0006468 // protein amino acid phosphorylation // inferred from electronic annotation /// 0006882 // cellular zinc ion homeostasis // inferred from sequence or structural similarity /// 0006917 // induction of apoptosis // inferred from sequence or structu	0.000289	0.53	Down
murine retrovirus integration site 1 homolog	<i>MRVII</i>	281918	---	4.49E-05	0.53	Down
methionine sulfoxide reductase B3	<i>MSRB3</i>	617849	---	3.54E-07	0.53	Down
1-aminocyclopropane-1-carboxylate synthase homolog (Arabidopsis)(non-functional)	<i>ACCS</i>	505649	0009058 // biosynthetic process // inferred from electronic annotation	1.91E-05	0.53	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
LIM domain binding 2	<i>LDB2</i>	617976	0007275 // multicellular organismal development // inferred from electronic annotation	4.79E-07	0.53	Down
solute carrier family 41, member 3	<i>SLC41A3</i>	524085	0006812 // cation transport // inferred from electronic annotation	2.05E-06	0.53	Down
family with sequence similarity 92, member A1	<i>FAM92A1</i>	614070	---	1.59E-08	0.53	Down
nidogen 1	<i>NID1</i>	534319	0007160 // cell-matrix adhesion // inferred from electronic annotation /// 0008218 // bioluminescence // inferred from electronic annotation /// 0018298 // protein-chromophore linkage // inferred from electronic annotation	5.99E-05	0.53	Down
solute carrier family 22, member 17	<i>SLC22A17</i>	539848	0006810 // transport // inferred from electronic annotation	3.87E-05	0.53	Down
Polymerase (RNA) II (DNA directed) polypeptide A, 220kDa	<i>POLR2A</i>	282312	0006350 // transcription // inferred from electronic annotation	5.96E-05	0.54	Down
jagged 2	<i>JAG2</i>	517405	---	1.61E-05	0.54	Down
filamin A, alpha (actin binding protein 280)	<i>FLNA</i>	281165	---	2.29E-07	0.54	Down
hypothetical protein LOC781852	<i>LOC781852</i>	781852	---	8.37E-07	0.54	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
potassium channel tetramerisation domain containing 15	<i>KCTD15</i>	512578	0006813 // potassium ion transport // inferred from electronic annotation	4.33E-08	0.54	Down
ankylosis, progressive homolog (mouse)	<i>ANKH</i>	511800	0006817 // phosphate transport // inferred from electronic annotation	1.94E-05	0.54	Down
zinc finger protein 358	<i>ZNF358</i>	505837	---	1.32E-06	0.54	Down
CXXC finger 5	<i>CXXC5</i>	538485	---	1.52E-09	0.54	Down
hypothetical LOC614402	<i>LOC614402</i>	614402	---	0.009461	0.54	Down
Polymorphic microsatellite locus (AFZ1)	---	---	---	9.70E-08	0.54	Down
similar to FLJ00128 protein	<i>LOC527362</i>	527362	0035023 // regulation of Rho protein signal transduction // inferred from electronic annotation	8.74E-06	0.54	Down
histamine N-methyltransferase	<i>HNMT</i>	613413	---	1.94E-06	0.54	Down
GTP binding protein overexpressed in skeletal muscle	<i>GEM</i>	538437	0007264 // small GTPase mediated signal transduction // inferred from electronic annotation	1.21E-05	0.54	Down
sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A	<i>SEMA5A</i>	506636	---	3.62E-06	0.54	Down
similar to high-risk human papilloma viruses E6 oncoproteins targeted protein	<i>LOC534839</i>	534839	---	3.63E-06	0.54	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
E6TP1 alpha; putative GAP protein alpha						
similar to CMP-N-acetylneuraminic acid hydroxylase	<i>LOC537017</i>	537017	---	0.000105	0.54	Down
D site of albumin promoter (albumin D-box) binding protein	<i>DBP</i>	503577	0006350 // transcription // inferred from electronic annotation /// 0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation /// 0048511 // rhythmic process // inferred from electronic annotation	3.47E-08	0.54	Down
retinol binding protein 1, cellular	<i>RBP1</i>	537379	0006810 // transport // inferred from electronic annotation /// 0042572 // retinol metabolic process // inferred from sequence or structural similarity	1.08E-06	0.55	Down
carbonic anhydrase XI	<i>CA11</i>	326334	0006730 // one-carbon compound metabolic process // inferred from electronic annotation	0.000983	0.55	Down
glutathione S-transferase M1	<i>GSTM1</i>	327709	0008152 // metabolic process // inferred from electronic annotation	7.11E-05	0.55	Down
Kruppel-like factor 11	<i>KLF11</i>	616730	---	7.74E-08	0.55	Down
MAS-related GPR, member F	<i>MRGPRF</i>	615886	0007186 // G-protein coupled receptor protein signaling pathway // inferred from electronic annotation	0.001106	0.55	Down
hypothetical LOC616610	<i>LOC61661</i>	616610	0006508 // proteolysis // inferred from electronic annotation /// 0006629 //	1.63E-08	0.55	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
	<i>0</i>		lipid metabolic process // inferred from electronic annotation /// 0008152 // metabolic process // inferred from electronic annotation			
septin 4	<i>SEPT4</i>	538801	0007049 // cell cycle // inferred from electronic annotation	1.12E-06	0.55	Down
Laminin, alpha 4	<i>LAMA4</i>	529670	0030155 // regulation of cell adhesion // inferred from electronic annotation /// 0030334 // regulation of cell migration // inferred from electronic annotation /// 0045995 // regulation of embryonic development // inferred from electronic annotation	2.94E-05	0.55	Down
similar to KIAA1623 protein	<i>LOC528201</i>	528201	---	1.91E-07	0.55	Down
Aldehyde dehydrogenase 1 family, member A2	<i>ALDH1A2</i>	535075	---	0.009624	0.55	Down
similar to SMAP-2b	<i>MGC148871</i>	615490	---	4.00E-07	0.55	Down
filamin C, gamma (actin binding protein 280)	<i>FLNC</i>	528415	---	1.69E-05	0.55	Down
dimethylarginine dimethylaminohydrolase 1	<i>DDAH1</i>	537391	0006809 // nitric oxide biosynthetic process // inferred from direct assay /// 0017014 // protein amino acid nitrosylation // inferred from direct	5.36E-07	0.55	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			assay			
Tripartite motif-containing 45	<i>TRIM45</i>	539091	---	0.001513	0.55	Down
membrane-bound transcription factor peptidase, site 1	<i>MBTPS1</i>	511682	0006508 // proteolysis // inferred from electronic annotation	4.62E-15	0.55	Down
Down syndrome critical region protein 3	<i>DSCR3</i>	507647	0007034 // vacuolar transport // inferred from electronic annotation	1.45E-07	0.55	Down
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 3	<i>SMARCD3</i>	777769	---	2.37E-05	0.55	Down
adhesion molecule with Ig-like domain 1	<i>AMIGO1</i>	524284	---	8.27E-05	0.55	Down
Similar to Hlcs	<i>LOC53424</i> 7	534247	0006464 // protein modification process // inferred from electronic annotation	4.23E-08	0.55	Down
similar to KIAA0793 protein	<i>LOC51463</i> 7	514637	---	0.0001	0.55	Down
ectonucleotide pyrophosphatase/phosphodiesterase 2 (autotaxin)	<i>ENPP2</i>	532663	0006935 // chemotaxis // inferred from electronic annotation /// 0008152 // metabolic process // inferred from electronic annotation /// 0016042 // lipid catabolic process // inferred from electronic annotation	2.31E-10	0.55	Down
PHD finger protein 10	<i>PHF10</i>	507648	---	2.71E-11	0.55	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
ephrin-A5	<i>EFNA5</i>	616742	---	0.000187	0.55	Down
alcohol dehydrogenase, iron containing, 1	<i>ADHFE1</i>	507711	0008152 // metabolic process // inferred from electronic annotation /// 0015993 // molecular hydrogen transport // inferred from sequence or structural similarity	6.59E-07	0.56	Down
mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli)	<i>MSH2</i>	533115	0001701 // in utero embryonic development // inferred from electronic annotation /// 0002204 // somatic recombination of immunoglobulin genes during immune response // inferred from electronic annotation /// 0006119 // oxidative phosphorylation // inferre	1.13E-08	0.56	Down
leukotriene B4 12-hydroxydehydrogenase	<i>LTB4DH</i>	513177	0008152 // metabolic process // inferred from electronic annotation	0.00404	0.56	Down
lymphocyte-specific protein tyrosine kinase	<i>LCK</i>	508890	0006468 // protein amino acid phosphorylation // inferred from electronic annotation /// 0006882 // cellular zinc ion homeostasis // inferred from sequence or structural similarity /// 0006917 // induction of apoptosis // inferred from sequence or structu	0.000648	0.56	Down
myosin light chain kinase	<i>MYLK</i>	338037	0006468 // protein amino acid phosphorylation // inferred from electronic annotation	2.75E-05	0.56	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
similar to SLC2A4 regulator	<i>LOC511523</i>	511523	---	2.78E-08	0.56	Down
ephrin-A5	<i>EFNA5</i>	616742	---	0.001107	0.56	Down
collagen, type IV, alpha 5 (Alport syndrome)	<i>COL4A5</i>	511602	0006817 // phosphate transport // inferred from electronic annotation	2.06E-05	0.56	Down
chromodomain helicase DNA binding protein 3 // centrobin, centrosomal BRCA2 interacting protein	<i>CHD3</i> /// <i>CNTROB</i>	532673 /// 539106	0006333 // chromatin assembly or disassembly // inferred from electronic annotation /// 0042309 // homoiothermy // inferred from electronic annotation /// 0045449 // regulation of transcription // inferred from electronic annotation /// 0050826 // respons	5.83E-09	0.56	Down
Estrogen receptor 1 alpha (ESR1) mRNA, partial sequence	<i>ESR1</i>	---	---	5.34E-11	0.56	Down
regulator of calcineurin 2	<i>RCAN2</i>	525636	0019722 // calcium-mediated signaling // inferred from electronic annotation	0.000703	0.56	Down
acyl-Coenzyme A oxidase 2, branched chain	<i>ACOX2</i>	514969	0006631 // fatty acid metabolic process // inferred from electronic annotation /// 0006635 // fatty acid beta-oxidation // inferred from electronic annotation /// 0008152 // metabolic process // inferred from electronic annotation /// 0055114 // oxidation	2.24E-06	0.56	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
similar to DBC2	<i>LOC782546</i>	782546	0007264 // small GTPase mediated signal transduction // inferred from electronic annotation /// 0007275 // multicellular organismal development // inferred from electronic annotation /// 0015031 // protein transport // inferred from electronic annotation	6.35E-06	0.56	Down
EH-domain containing 2	<i>EHD2</i>	538348	---	8.53E-08	0.56	Down
cell adhesion molecule 3	<i>CADM3</i>	531178	---	0.005869	0.56	Down
arylsulfatase family, member K	<i>ARSK</i>	533618	0008152 // metabolic process // inferred from electronic annotation	1.61E-07	0.56	Down
SIX homeobox 5	<i>SIX5</i>	513676	---	0.000164	0.56	Down
Kinetochore associated 1	<i>KNTC1</i>	506353	0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation	0.000171	0.56	Down
transcription elongation factor A (SII), 3	<i>TCEA3</i>	533803	0006350 // transcription // inferred from electronic annotation /// 0006354 // RNA elongation // inferred from electronic annotation /// 0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation /// 0006357 // regulation	0.000151	0.57	Down
thymidylate synthetase	<i>TYMS</i>	507631	0006231 // dTMP biosynthetic process // inferred from electronic	1.37E-07	0.57	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			annotation /// 0009165 // nucleotide biosynthetic process // inferred from electronic annotation			
hypothetical protein LOC533126	<i>LOC533126</i>	533126	---	7.62E-05	0.57	Down
pleckstrin homology-like domain, family B, member 2	<i>PHLDB2</i>	509784	---	8.81E-05	0.57	Down
transcription factor-like 5 (basic helix-loop-helix)	<i>TCFL5</i>	513750	0045449 // regulation of transcription // inferred from electronic annotation	5.12E-06	0.57	Down
Coiled-coil-helix-coiled-coil-helix domain containing 6	<i>CHCHD6</i>	615934	---	4.93E-05	0.57	Down
ADP-ribosylation factor-like 3	<i>ARL3</i>	540040	0007186 // G-protein coupled receptor protein signaling pathway // inferred from electronic annotation /// 0007264 // small GTPase mediated signal transduction // inferred from electronic annotation	2.00E-09	0.57	Down
dynamamin 1	<i>DNM1</i>	508794	0006897 // endocytosis // inferred from electronic annotation	1.22E-06	0.57	Down
Similar to copine III-like related protein	<i>LOC782388</i>	782388	---	8.94E-08	0.57	Down
CDNA clone IMAGE:8067330	---	---	---	1.79E-07	0.57	Down
Wilms tumor 1 interacting protein	<i>WTIP</i>	505059	---	2.27E-06	0.57	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
Musculoskeletal, embryonic nuclear protein 1	<i>MUSTN1</i>	616088	---	1.09E-06	0.57	Down
similar to LOC113230 protein	<i>LOC539805</i>	539805	---	0.000277	0.57	Down
POZ (BTB) and AT hook containing zinc finger 1	<i>PATZ1</i>	532416	---	3.35E-08	0.57	Down
zinc finger protein 532	<i>ZNF532</i>	533847	---	1.40E-06	0.57	Down
ankyrin repeat domain 50	<i>ANKRD50</i>	527956	---	1.05E-09	0.57	Down
two pore segment channel 1	<i>TPCN1</i>	510830	---	1.94E-05	0.57	Down
heat shock 22kDa protein 8	<i>HSPB8</i>	539524	0006950 // response to stress // inferred from electronic annotation	0.003792	0.57	Down
similar to B0432.9	<i>LOC505636</i>	505636	---	1.22E-06	0.57	Down
nucleosome assembly protein 1-like 5	<i>NAPIL5</i>	508508	0006334 // nucleosome assembly // inferred from electronic annotation	1.46E-09	0.57	Down
osteoglycin	<i>OGN</i>	280884	---	0.000721	0.57	Down
sialic acid binding Ig-like lectin 10	<i>SIGLEC10</i>	504258	---	2.62E-05	0.57	Down
CD44 molecule (Indian blood group)	<i>CD44</i>	281057	0007155 // cell adhesion // inferred from electronic annotation	0.000112	0.57	Down
transmembrane protein 132A	<i>TMEM132</i>	540137	---	2.77E-09	0.58	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
	A					
family with sequence similarity 62 (C2 domain containing), member A	<i>FAM62A</i>	520669	---	1.31E-09	0.58	Down
heat shock 70kD protein 12B	<i>HSPA12B</i>	515590	---	6.26E-09	0.58	Down
cyclin-dependent kinase 5	<i>CDK5</i>	281066	0006468 // protein amino acid phosphorylation // inferred from electronic annotation /// 0007049 // cell cycle // inferred from electronic annotation /// 0007160 // cell-matrix adhesion // inferred from electronic annotation /// 0007160 // cell-matrix adh	4.86E-07	0.58	Down
proline-rich cyclin A1-interacting protein	<i>PROCA1</i>	510175	---	4.54E-07	0.58	Down
heat shock protein, alpha-crystallin-related, B6	<i>HSPB6</i>	534551	0006950 // response to stress // inferred from electronic annotation	0.000752	0.58	Down
cyclin-dependent kinase 2-interacting protein	<i>CINP</i>	613767	0006260 // DNA replication // inferred from electronic annotation /// 0007049 // cell cycle // inferred from electronic annotation /// 0051301 // cell division // inferred from electronic annotation	0.002413	0.58	Down
acidic (leucine-rich) nuclear phosphoprotein 32 family, member A	<i>ANP32A</i>	538427	0006350 // transcription // inferred from electronic annotation /// 0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation /// 0006913 //	4.76E-10	0.58	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			nucleocytoplasmic transport // inferred from sequence or structural similarity			
musculoskeletal, embryonic nuclear protein 1	<i>MUSTN1</i>	616088	---	2.11E-07	0.58	Down
ephrin-A5	<i>EFNA5</i>	616742	---	3.77E-06	0.58	Down
Matrix-remodelling associated 7	<i>MXRA7</i>	617087	---	6.87E-11	0.58	Down
Chromosome 9 open reading frame 6 ortholog	<i>C8H9orf6</i>	507081	---	1.54E-06	0.58	Down
vascular endothelial growth factor A	<i>VEGFA</i>	281572	0001525 // angiogenesis // inferred from electronic annotation /// 0007275 // multicellular organismal development // inferred from electronic annotation /// 0008283 // cell proliferation // inferred from electronic annotation /// 0030154 // cell differen	3.44E-06	0.58	Down
Coiled-coil and C2 domain containing 2A	<i>CC2D2A</i>	517240	---	0.000784	0.58	Down
Similar to myotonic dystrophy kinase 5	<i>LOC513675</i>	513675	---	0.00139	0.58	Down
serum deprivation response (phosphatidylserine binding protein)	<i>SDPR</i>	532333	---	0.000173	0.58	Down
EP300 interacting inhibitor of	<i>EID1</i>	506056	---	9.38E-07	0.58	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
differentiation 1						
CDC42 effector protein (Rho GTPase binding) 1	<i>CDC42EP1</i>	511099	0008360 // regulation of cell shape // inferred from electronic annotation	1.00E-06	0.58	Down
Similar to CMP-N-acetylneuraminic acid hydroxylase	<i>LOC537017</i>	537017	---	2.71E-05	0.58	Down
cathepsin F	<i>CTSF</i>	509715	0006508 // proteolysis // inferred from electronic annotation	1.59E-09	0.58	Down
Similar to LOC496253 protein	<i>LOC784007</i>	784007	---	0.001077	0.58	Down
Notch homolog 4 (Drosophila)	<i>NOTCH4</i>	537814	---	4.79E-08	0.58	Down
collagen, type I, alpha 1	<i>COL1A1</i>	282187	0006817 // phosphate transport // inferred from electronic annotation	0.000125	0.58	Down
annexin A11	<i>ANXA11</i>	282142	---	4.99E-07	0.58	Down
parathyroid hormone receptor 1	<i>PTHR1</i>	507783	0001501 // skeletal development // inferred from electronic annotation /// 0001503 // ossification // inferred from electronic annotation /// 0002062 // chondrocyte differentiation // inferred from electronic annotation /// 0002076 // osteoblast developme	3.27E-06	0.58	Down
similar to neuregulin 2	<i>LOC783452</i>	783452	---	0.00205	0.58	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
Coiled-coil domain containing 8	<i>CCDC8</i>	616838	---	5.72E-09	0.58	Down
sterile alpha motif domain containing 1	<i>SAMD1</i>	785246	---	5.12E-07	0.58	Down
hypothetical LOC509875	<i>LOC509875</i>	509875	---	0.003552	0.58	Down
zinc finger protein 362	<i>ZNF362</i>	508065	---	7.95E-09	0.59	Down
Carbohydrate (N-acetylglucosamine 6-O) sulfotransferase 7	<i>CHST7</i>	540357	---	2.73E-06	0.59	Down
ankyrin repeat domain 23	<i>ANKRD23</i>	525365	---	8.65E-06	0.59	Down
collagen, type I, alpha 1	<i>COL1A1</i>	282187	0006817 // phosphate transport // inferred from electronic annotation	1.65E-05	0.59	Down
Ribosomal protein S8	<i>RPS8</i>	404140	---	0.000136	0.59	Down
melanoma inhibitory activity	<i>MIA</i>	280857	0007160 // cell-matrix adhesion // inferred from electronic annotation /// 0030198 // extracellular matrix organization and biogenesis // inferred from electronic annotation	1.21E-05	0.59	Down
angiopoietin-like 2	<i>ANGPTL2</i>	512019	---	3.93E-06	0.59	Down
jagged 1 (Alagille syndrome)	<i>JAG1</i>	783681	---	6.84E-08	0.59	Down
Collagen, type XXVII, alpha 1	<i>COL27A1</i>	513668	0006817 // phosphate transport // inferred from electronic annotation /// 0007155 // cell adhesion // inferred	0.000169	0.59	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			from electronic annotation			
ST3 beta-galactoside alpha-2,3-sialyltransferase 6	<i>ST3GAL6</i>	444860	0006486 // protein amino acid glycosylation // inferred from electronic annotation	0.000266	0.59	Down
sarcoglycan, epsilon	<i>Sgce</i>	407209	---	1.50E-06	0.59	Down
Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 1	<i>CITED1</i>	282182	0045449 // regulation of transcription // inferred from electronic annotation	1.97E-05	0.59	Down
phosphomannomutase 1	<i>PMM1</i>	537070	0008152 // metabolic process // inferred from electronic annotation /// 0019307 // mannose biosynthetic process // inferred from electronic annotation	1.96E-09	0.59	Down
ATP-binding cassette, sub-family A (ABC1), member 5	<i>ABCA5</i>	510497	---	1.04E-06	0.59	Down
Hypoxia-inducible factor prolyl 4-hydroxylase	<i>PH-4</i>	538626	0019538 // protein metabolic process // inferred from electronic annotation	4.19E-06	0.59	Down
carnitine palmitoyltransferase 1C	<i>CPT1C</i>	513710	---	1.52E-06	0.59	Down
dystonin	<i>DST</i>	535297	0007050 // cell cycle arrest // inferred from electronic annotation	5.04E-08	0.59	Down
AHNAK nucleoprotein 2	<i>AHNAK2</i>	527701	---	6.67E-08	0.59	Down
Similar to POTE8A	<i>LOC78697</i> 7	786977	---	7.82E-06	0.59	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
Phosphatidylinositol-4-phosphate 5-kinase, type I, beta	<i>PIP5K1B</i>	537654	0046488 // phosphatidylinositol metabolic process // inferred from electronic annotation	0.006005	0.59	Down
carbonic anhydrase VB, mitochondrial	<i>CA5B</i>	514494	0006730 // one-carbon compound metabolic process // inferred from electronic annotation	0.000146	0.59	Down
iroquois homeobox 3	<i>IRX3</i>	540417	0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation /// 0045449 // regulation of transcription // inferred from electronic annotation	0.000367	0.59	Down
casein kinase 1, epsilon	<i>CSNK1E</i>	768234	0006468 // protein amino acid phosphorylation // inferred from electronic annotation /// 0016055 // Wnt receptor signaling pathway // inferred from electronic annotation	2.93E-05	0.59	Down
CD302 molecule	<i>CD302</i>	100126272	---	2.67E-07	0.59	Down
neurotrophic tyrosine kinase, receptor, type 2	<i>NTRK2</i>	505824	---	0.000133	0.59	Down
DNL-type zinc finger	<i>DNLZ</i>	514124	0045449 // regulation of transcription // inferred from electronic annotation	1.74E-09	0.59	Down
LIM domain binding 1	<i>LDB1</i>	526472	0007275 // multicellular organismal development // inferred from electronic annotation	5.62E-07	0.60	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
Hypothetical protein LOC784675	<i>KIAA1462</i>	784675	---	3.57E-07	0.60	Down
hypothetical LOC515954	<i>LOC515954</i>	515954	---	3.27E-09	0.60	Down
hypothetical LOC538778	<i>LOC538778</i>	538778	---	6.10E-05	0.60	Down
adenylate cyclase 4	<i>ADCY4</i>	788151	0006412 // translation // inferred from electronic annotation /// 0007242 // intracellular signaling cascade // inferred from electronic annotation /// 0009190 // cyclic nucleotide biosynthetic process // inferred from electronic annotation	5.08E-05	0.60	Down
protein phosphatase 1, regulatory (inhibitor) subunit 1B (dopamine and cAMP regulated phosphoprotein, DARPP-32)	<i>PPP1R1B</i>	282459	0006350 // transcription // inferred from electronic annotation /// 0007165 // signal transduction // inferred from electronic annotation /// 0007621 // negative regulation of female receptivity // inferred from electronic annotation	2.79E-05	0.60	Down
KN motif and ankyrin repeat domains 1	<i>KANK1</i>	534869	---	0.001115	0.60	Down
collagen, type XIII, alpha 1	<i>COL13A1</i>	613849	0006817 // phosphate transport // inferred from electronic annotation	0.00418	0.60	Down
hypothetical LOC514296	<i>LOC514296</i>	514296	---	3.93E-05	0.60	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
aminoacylase 1 /// similar to aminoacylase-1	<i>ACY1</i> /// <i>LOC79060</i> 9	768058 /// 790609	0006508 // proteolysis // inferred from electronic annotation /// 0006520 // amino acid metabolic process // inferred from electronic annotation	2.20E-07	0.60	Down
similar to sulfatase 1	<i>LOC53516</i> 6	535166	---	0.000536	0.60	Down
Hypothetical protein LOC787439	<i>LOC78743</i> 9	787439	---	0.000783	0.60	Down
cyclin D1	<i>CCND1</i>	524530	0000320 // re-entry into mitotic cell cycle // inferred from electronic annotation /// 0001934 // positive regulation of protein amino acid phosphorylation // inferred from electronic annotation /// 0006468 // protein amino acid phosphorylation // inferre	0.001024	0.60	Down
transforming growth factor beta 1 induced transcript 1	<i>TGFB1I1</i>	515834	0016055 // Wnt receptor signaling pathway // inferred from electronic annotation /// 0030154 // cell differentiation // inferred from electronic annotation	6.56E-05	0.60	Down
pleckstrin homology domain containing, family G (with RhoGef domain) member 2	<i>PLEKHG2</i>	504530	0035023 // regulation of Rho protein signal transduction // inferred from electronic annotation	1.71E-05	0.60	Down
snail homolog 2 (Drosophila)	<i>SNAI2</i>	520631	0006350 // transcription // inferred from electronic annotation ///	2.45E-05	0.60	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation /// 0007275 // multicellular organismal development // inferred from electronic annotation ///			
Makorin, ring finger protein, 1	<i>MKRNI</i>	514986	---	1.26E-09	0.60	Down
prostaglandin D2 synthase 21kDa (brain)	<i>PTGDS</i>	286858	0001516 // prostaglandin biosynthetic process // inferred from sequence or structural similarity /// 0001516 // prostaglandin biosynthetic process // inferred from electronic annotation /// 0006629 // lipid metabolic process // inferred from electronic an	2.22E-07	0.60	Down
Ras-related GTP binding D	<i>RRAGD</i>	541106	---	6.13E-05	0.60	Down
dihydropyrimidinase-like 2	<i>DPYSL2</i>	533746	0007275 // multicellular organismal development // inferred from electronic annotation /// 0007399 // nervous system development // inferred from electronic annotation /// 0030154 // cell differentiation // inferred from electronic annotation	2.49E-05	0.60	Down
trafficking protein, kinesin binding 1	<i>TRAK1</i>	531649	---	1.67E-06	0.60	Down
claudin 5 (transmembrane protein deleted in velocardiofacial syndrome)	<i>CLDN5</i>	617453	---	0.007199	0.60	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
membrane-associated ring finger (C3HC4) 9	<i>MAR9</i>	540871	---	4.32E-05	0.60	Down
similar to SNHG8 protein	<i>LOC782900</i>	782900	---	2.19E-07	0.60	Down
nuclear factor I/A	<i>NFIA</i>	615371	0006260 // DNA replication // inferred from electronic annotation /// 0006350 // transcription // inferred from electronic annotation /// 0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation	6.25E-09	0.61	Down
Hypothetical protein LOC510660	<i>LOC510660</i>	510660	---	0.004804	0.61	Down
homeobox B7	<i>HOXB7</i>	281820	0006350 // transcription // inferred from electronic annotation /// 0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation /// 0007275 // multicellular organismal development // inferred from electronic annotation ///	0.002263	0.61	Down
hypothetical LOC523257	<i>LOC523257</i>	523257	---	3.63E-06	0.61	Down
synaptogyrin 3	<i>SYNGR3</i>	618415	---	0.000865	0.61	Down
transcription elongation factor A (SII), 2	<i>TCEA2</i>	507729	0006350 // transcription // inferred	1.40E-06	0.61	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			from electronic annotation /// 0006354 // RNA elongation // inferred from electronic annotation /// 0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation /// 0006357 // regulation			
Neurotrophic tyrosine kinase, receptor, type 2	<i>NTRK2</i>	505824	---	1.02E-06	0.61	Down
similar to High-mobility group box 3	<i>LOC53240</i> 9	532409	---	4.21E-05	0.61	Down
similar to Chromosome 17 open reading frame 75	<i>LOC50603</i> 2	506032	---	2.18E-05	0.61	Down
CWF19-like 1, cell cycle control (S. pombe)	<i>CWF19L1</i>	506212	---	4.88E-07	0.61	Down
coiled-coil domain containing 23	<i>CCDC23</i>	614073	---	1.35E-09	0.61	Down
similar to mineralocorticoid receptor	<i>LOC61383</i> 3	613833	0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation	6.19E-05	0.61	Down
Neurotrophic tyrosine kinase, receptor, type 2	<i>NTRK2</i>	505824	---	2.64E-05	0.61	Down
melanoma cell adhesion molecule	<i>MCAM</i>	281301	---	0.003342	0.61	Down
Solute carrier family 7, member 6	<i>SLC7A6OS</i>	512543	---	0.000453	0.61	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
opposite strand						
myosin light chain kinase	<i>MYLK</i>	338037	0006468 // protein amino acid phosphorylation // inferred from electronic annotation	9.32E-05	0.61	Down
adenylate kinase 1	<i>AK1</i>	280715	0006139 // nucleobase, nucleoside, nucleotide and nucleic acid metabolic process // inferred from electronic annotation /// 0046034 // ATP metabolic process // inferred from electronic annotation	4.88E-07	0.61	Down
LIM domain binding 1	<i>LDB1</i>	526472	0007275 // multicellular organismal development // inferred from electronic annotation	4.18E-08	0.61	Down
similar to dynein cytoplasmic heavy chain 2	<i>LOC512287</i>	512287	0007018 // microtubule-based movement // inferred from electronic annotation	0.000145	0.61	Down
anthrax toxin receptor 2	<i>ANTXR2</i>	510080	---	0.000839	0.61	Down
sal-like 2 (Drosophila)	<i>SALL2</i>	527574	---	0.000289	0.61	Down
dimethylglycine dehydrogenase	<i>DMGDH</i>	504453	---	0.000184	0.61	Down
importin 11	<i>IPO11</i>	538236	---	1.67E-06	0.61	Down
Kruppel-like factor 11	<i>KLF11</i>	616730	---	0.000294	0.61	Down
serpin peptidase inhibitor, clade A (alpha-	<i>SERPINA5</i>	338050	0007283 // spermatogenesis //	0.007589	0.62	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
1 antiproteinase, antitrypsin), member 5			inferred from electronic annotation			
solute carrier family 6 (neurotransmitter transporter, creatine), member 8	<i>SLC6A8</i>	282367	0006810 // transport // inferred from electronic annotation /// 0006811 // ion transport // inferred from electronic annotation /// 0006814 // sodium ion transport // inferred from electronic annotation /// 0006836 // neurotransmitter transport // inferre	2.92E-06	0.62	Down
potassium large conductance calcium-activated channel, subfamily M, beta member 4	<i>KCNMB4</i>	520448	0006813 // potassium ion transport // inferred from electronic annotation	0.002327	0.62	Down
similar to SLIT3	<i>LOC615883</i>	615883	0007186 // G-protein coupled receptor protein signaling pathway // inferred from electronic annotation	0.000389	0.62	Down
cytochrome P450, family 2, subfamily U, polypeptide 1	<i>CYP2U1</i>	535227	0055114 // oxidation reduction // inferred from electronic annotation	2.65E-07	0.62	Down
hypothetical protein LOC790454	<i>LOC790454</i>	790454	---	0.000419	0.62	Down
G protein-coupled receptor 116	<i>GPR116</i>	532674	0007218 // neuropeptide signaling pathway // inferred from electronic annotation /// 0007601 // visual perception // inferred from electronic annotation	3.05E-05	0.62	Down
CXXC finger 5	<i>CXXC5</i>	538485	---	1.23E-05	0.62	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
phosphoinositide-3-kinase interacting protein 1	<i>PIK3IP1</i>	512082	---	1.32E-05	0.62	Down
similar to protocadherin gamma B6 /// protocadherin gamma subfamily A, 8 /// protocadherin gamma subfamily B, 4 /// protocadherin gamma subfamily C, 3	<i>LOC51084</i> <i>9</i> /// <i>PCDHGA8</i> /// <i>PCDHGB4</i> /// <i>PCDHGC3</i>	1001253 01 /// 510849 /// 521340 /// 532241	0007155 // cell adhesion // inferred from electronic annotation /// 0007156 // homophilic cell adhesion // inferred from electronic annotation	5.69E-08	0.62	Down
PRA1 domain family, member 2	<i>PRAF2</i>	508703	0006810 // transport // inferred from electronic annotation /// 0015031 // protein transport // inferred from electronic annotation	1.00E-08	0.62	Down
Zinc finger protein 608	<i>ZNF608</i>	509992	---	5.58E-06	0.62	Down
similar to MEGF8	<i>LOC61568</i> 8	615688	---	6.44E-08	0.62	Down
endothelin receptor type A	<i>EDNRA</i>	281749	0001569 // patterning of blood vessels // inferred from electronic annotation /// 0001666 // response to hypoxia // inferred from electronic annotation /// 0001701 // in utero embryonic development // inferred from electronic annotation /// 0007165 // sig	0.000912	0.62	Down
tribbles homolog 2 (Drosophila)	<i>TRIB2</i>	352960	0006468 // protein amino acid phosphorylation // inferred from	0.000535	0.62	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			sequence or structural similarity /// 0006468 // protein amino acid phosphorylation // inferred from electronic annotation /// 0043405 // regulation of MAP kinase activity // inferred from seq			
procollagen-lysine, 2-oxoglutarate 5- dioxygenase 2	<i>PLOD2</i>	533642	0019538 // protein metabolic process // inferred from electronic annotation	5.99E-05	0.62	Down
tropomyosin 2 (beta)	<i>TPM2</i>	497015	---	0.000128	0.62	Down
RAB34, member RAS oncogene family	<i>RAB34</i>	282028	0007264 // small GTPase mediated signal transduction // inferred from electronic annotation	1.10E-08	0.62	Down
syntaxin 10	<i>STX10</i>	525379	0006886 // intracellular protein transport // inferred from electronic annotation /// 0048193 // Golgi vesicle transport // inferred from electronic annotation	0.000158	0.62	Down
FYN oncogene related to SRC, FGR, YES	<i>FYN</i>	527263	0006468 // protein amino acid phosphorylation // inferred from electronic annotation /// 0007275 // multicellular organismal development // inferred from electronic annotation	3.02E-06	0.62	Down
hypothetical LOC504970	<i>LOC504970</i>	504970	---	0.009259	0.62	Down
TGF beta-inducible nuclear protein 1 (L-	<i>TINP1</i>	522309	0006364 // rRNA processing // inferred from electronic annotation ///	3.73E-07	0.63	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
name related LNR42)			0042254 // ribosome biogenesis and assembly // inferred from electronic annotation			
myozenin 1	<i>MYOZ1</i>	281939	---	0.000712	0.63	Down
similar to RAD21-like 1 (S. pombe)	<i>LOC512408</i>	512408	---	1.81E-07	0.63	Down
hypothetical protein FLJ14213	<i>FLJ14213</i>	505048	---	0.005893	0.63	Down
Inositol polyphosphate-5-phosphatase, 40kDa	<i>INPP5A</i>	615232	---	3.98E-08	0.63	Down
damage-specific DNA binding protein 2, 48kDa	<i>DDB2</i>	519357	---	3.84E-07	0.63	Down
tubulin tyrosine ligase-like family, member 3	<i>TTL3</i>	531866	0006464 // protein modification process // inferred from electronic annotation /// 0030041 // actin filament polymerization // inferred from electronic annotation	2.36E-07	0.63	Down
transient receptor potential cation channel, subfamily V, member 2	<i>TRPV2</i>	507664	0006810 // transport // inferred from electronic annotation /// 0006811 // ion transport // inferred from electronic annotation	0.001838	0.63	Down
ligand dependent nuclear receptor corepressor	<i>LCOR</i>	507668	---	2.49E-07	0.63	Down
odd-skipped related 2 (Drosophila)	<i>OSR2</i>	508692	0008284 // positive regulation of cell proliferation // inferred from	9.21E-08	0.63	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			electronic annotation /// 0048704 // embryonic skeletal morphogenesis // inferred from electronic annotation			
Rho GTPase activating protein 24	<i>ARHGAP24</i>	539902	0007165 // signal transduction // inferred from electronic annotation	0.00511	0.63	Down
tetraspanin 6	<i>TSPAN6</i>	514741	---	7.24E-08	0.63	Down
acidic (leucine-rich) nuclear phosphoprotein 32 family, member A	<i>ANP32A</i>	538427	0006350 // transcription // inferred from electronic annotation /// 0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation /// 0006913 // nucleocytoplasmic transport // inferred from sequence or structural similarity	3.71E-09	0.63	Down
StAR-related lipid transfer (START) domain containing 10	<i>STARD10</i>	514624	---	0.007221	0.63	Down
dual specificity phosphatase 7	<i>DUSP7</i>	785016	0006470 // protein amino acid dephosphorylation // inferred from electronic annotation /// 0016311 // dephosphorylation // inferred from electronic annotation	1.21E-05	0.63	Down
kelch-like 8 (Drosophila)	<i>KLHL8</i>	532960	---	0.000186	0.63	Down
uveal autoantigen with coiled-coil domains and ankyrin repeats	<i>UACA</i>	281559	0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation /// 0008630 // DNA damage response, signal	4.15E-08	0.63	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			transduction resulting in induction of apoptosis // inferred from electronic annotation /// 0008631 // induction of apo			
GDP-mannose 4,6-dehydratase	<i>GMDS</i>	617688	0008152 // metabolic process // inferred from electronic annotation /// 0019673 // GDP-mannose metabolic process // inferred from electronic annotation /// 0044237 // cellular metabolic process // inferred from electronic annotation	0.000953	0.63	Down
prenylcysteine oxidase 1	<i>PCYOX1</i>	100125835	0008152 // metabolic process // inferred from electronic annotation	5.95E-08	0.63	Down
TYRO3 protein tyrosine kinase	<i>TYRO3</i>	788224	0006468 // protein amino acid phosphorylation // inferred from electronic annotation	0.000108	0.63	Down
pleckstrin homology domain containing, family H (with MyTH4 domain) member 3	<i>PLEKHH3</i>	541100	0005975 // carbohydrate metabolic process // inferred from electronic annotation	1.86E-06	0.63	Down
transmembrane protein 98	<i>TMEM98</i>	513445	---	6.16E-05	0.63	Down
myeloid leukemia factor 1	<i>MLF1</i>	533379	0002318 // myeloid progenitor cell differentiation // inferred from sequence or structural similarity /// 0002318 // myeloid progenitor cell differentiation // inferred from electronic annotation /// 0006350 //	0.008448	0.63	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			transcription // inferred from sequence or s			
sulfite oxidase	<i>SUOX</i>	509837	0055114 // oxidation reduction // inferred from electronic annotation	1.22E-09	0.63	Down
limb bud and heart development homolog (mouse)	<i>LBH</i>	616148	0006350 // transcription // inferred from electronic annotation /// 0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation /// 0007275 // multicellular organismal development // inferred from electronic annotation	0.000835	0.63	Down
lysyl oxidase-like 1	<i>LOXL1</i>	281903	---	1.52E-05	0.63	Down
coiled-coil domain containing 138	<i>CCDC138</i>	507644	---	1.30E-07	0.63	Down
Notch homolog 4 (Drosophila)	<i>NOTCH4</i>	537814	---	1.06E-06	0.63	Down
serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 2	<i>SERPINE2</i>	282521	0007186 // G-protein coupled receptor protein signaling pathway // inferred from electronic annotation	1.48E-06	0.63	Down
collagen, type I, alpha 2	<i>COL1A2</i>	282188	0006817 // phosphate transport // inferred from electronic annotation	1.51E-06	0.63	Down
hypothetical protein LOC515282	<i>CXorf45</i>	515282	---	5.49E-05	0.63	Down
similar to OB-cadherin-1 /// cadherin 11, type 2, OB-cadherin (osteoblast)	<i>CDH11</i> /// <i>LOC53536</i> 3	535363 /// 785475	0007155 // cell adhesion // inferred from electronic annotation /// 0007156 // homophilic cell adhesion	3.69E-05	0.63	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
// inferred from electronic annotation						
phospholipid transfer protein	<i>PLTP</i>	505640	---	0.000303	0.63	Down
TBC1 domain family, member 24	<i>TBC1D24</i>	529002	0032313 // regulation of Rab GTPase activity // inferred from electronic annotation	6.90E-08	0.63	Down
Eukaryotic translation initiation factor 2-alpha kinase 2	<i>EIF2AK2</i>	347700	0006468 // protein amino acid phosphorylation // inferred from electronic annotation	4.52E-05	0.64	Down
similar to Pur-gamma B-form	<i>LOC512941</i>	512941	---	1.70E-06	0.64	Down
MACRO domain containing 1	<i>MACROD1</i>	613568	---	0.006848	0.64	Down
myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 3	<i>MLLT3</i>	521962	0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation	4.47E-06	0.64	Down
RAB30, member RAS oncogene family	<i>RAB30</i>	540583	0007264 // small GTPase mediated signal transduction // inferred from electronic annotation /// 0015031 // protein transport // inferred from electronic annotation	3.82E-07	0.64	Down
similar to tigger transposable element derived 5	<i>LOC540422</i>	540422	---	3.44E-07	0.64	Down
CXXC finger 5	<i>CXXC5</i>	538485	---	1.08E-06	0.64	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
syntaxin 10	<i>STX10</i>	525379	0006886 // intracellular protein transport // inferred from electronic annotation /// 0048193 // Golgi vesicle transport // inferred from electronic annotation	1.72E-08	0.64	Down
WD repeat domain 51B	<i>WDR51B</i>	525136	---	1.74E-09	0.64	Down
Heparan sulfate proteoglycan 2	<i>HSPG2</i>	444872	0007155 // cell adhesion // inferred from electronic annotation	1.08E-05	0.64	Down
fibroblast growth factor receptor 2 (bacteria-expressed kinase, keratinocyte growth factor receptor, craniofacial dysostosis 1, Crouzon syndrome, Pfeiffer syndrome, Jackson-Weiss syndrome)	<i>FGFR2</i>	404193	0006468 // protein amino acid phosphorylation // inferred from electronic annotation	0.001821	0.64	Down
armadillo repeat containing, X-linked 6	<i>ARMCX6</i>	768308	---	4.99E-05	0.64	Down
trinucleotide repeat containing 6C	<i>TNRC6C</i>	504217	---	6.95E-07	0.64	Down
guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 1	<i>GNAI1</i>	281790	0007165 // signal transduction // inferred from electronic annotation /// 0007186 // G-protein coupled receptor protein signaling pathway // inferred from electronic annotation	2.65E-07	0.64	Down
roundabout, axon guidance receptor, homolog 1 (Drosophila)	<i>ROBO1</i>	536815	---	0.001495	0.64	Down
ribonuclease H2, subunit C	<i>RNASEH2C</i>	505618	---	5.18E-07	0.64	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
cysteine and glycine-rich protein 1	<i>CSRP1</i>	615329	---	1.21E-05	0.64	Down
ELK3, ETS-domain protein (SRF accessory protein 2)	<i>ELK3</i>	541125	0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation	7.52E-05	0.64	Down
Regulator of G-protein signaling 5	<i>RGS5</i>	540509	0009968 // negative regulation of signal transduction // inferred from electronic annotation	0.00198	0.64	Down
similar to KIAA2038 protein	<i>LOC783429</i>	783429	---	0.000171	0.64	Down
hypothetical LOC517668	<i>LOC517668</i>	517668	---	1.71E-05	0.64	Down
LATS, large tumor suppressor, homolog 2 (Drosophila)	<i>LATS2</i>	508208	---	0.0047	0.64	Down
Meis homeobox 1	<i>MEIS1</i>	613877	0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation /// 0045449 // regulation of transcription // inferred from electronic annotation	2.98E-07	0.64	Down
similar to OTTHUMP00000022229	<i>LOC616324</i>	616324	---	7.06E-11	0.64	Down
cytochrome P450, family 20, subfamily A, polypeptide 1	<i>CYP20A1</i>	532945	0055114 // oxidation reduction // inferred from electronic annotation	2.56E-05	0.64	Down
endomucin	<i>EMCN</i>	616367	---	5.71E-05	0.64	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
phosphatase, orphan 2	<i>PHOSPHO2</i>	507308	0008152 // metabolic process // inferred from electronic annotation	6.98E-08	0.64	Down
Chromosome 1 open reading frame 21 ortholog	<i>H16C1ORF21</i>	781721	---	2.67E-05	0.64	Down
natriuretic peptide receptor B/guanylate cyclase B (atriuretic peptide receptor B)	<i>NPR2</i>	281357	0006182 // cGMP biosynthetic process // inferred from electronic annotation /// 0006182 // cGMP biosynthetic process // inferred from sequence or structural similarity /// 0006468 // protein amino acid phosphorylation // inferred from electronic annotation	6.28E-05	0.64	Down
TEK tyrosine kinase, endothelial (venous malformations, multiple cutaneous and mucosal)	<i>TEK</i>	280939	0006468 // protein amino acid phosphorylation // inferred from electronic annotation /// 0007160 // cell-matrix adhesion // inferred from electronic annotation /// 0016337 // cell-cell adhesion // inferred from electronic annotation /// 0030334 // regulat	0.000141	0.64	Down
monocyte to macrophage differentiation-associated	<i>MMD</i>	513155	0019835 // cytolysis // inferred from electronic annotation	1.24E-05	0.64	Down
armadillo repeat containing, X-linked 1	<i>ARMCX1</i>	504577	---	0.000288	0.64	Down
transcription factor 4	<i>TCF4</i>	534935	0045449 // regulation of transcription // inferred from electronic annotation	6.46E-06	0.64	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
C-type lectin domain family 14, member A	<i>CLEC14A</i>	509367	---	9.21E-07	0.64	Down
Small EDRK-rich factor 2	<i>SERF2</i>	527852	---	1.10E-07	0.64	Down
transmembrane protein 119	<i>TMEM119</i>	510926	---	2.27E-06	0.65	Down
mannose receptor, C type 2	<i>MRC2</i>	529049	---	1.56E-06	0.65	Down
galactose-1-phosphate uridylyltransferase	<i>GALT</i>	506997	0005975 // carbohydrate metabolic process // inferred from electronic annotation /// 0006012 // galactose metabolic process // inferred from electronic annotation	3.86E-07	0.65	Down
Doublecortin-like kinase 1	<i>DCLK1</i>	613449	0007242 // intracellular signaling cascade // inferred from electronic annotation	1.92E-05	0.65	Down
S-adenosylhomocysteine hydrolase-like 2	<i>AHCYL2</i>	532836	0006730 // one-carbon compound metabolic process // inferred from electronic annotation /// 0008152 // metabolic process // inferred from electronic annotation	1.62E-05	0.65	Down
EGF-like, fibronectin type III and laminin G domains	<i>EGFLAM</i>	534427	---	0.000104	0.65	Down
hypothetical protein LOC788023	<i>LOC788023</i>	788023	---	5.84E-07	0.65	Down
casein kinase I beta	<i>CSNK1B</i>	785423	0006468 // protein amino acid	0.000153	0.65	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			phosphorylation // inferred from electronic annotation /// 0016055 // Wnt receptor signaling pathway // inferred from electronic annotation			
Aspartate beta-hydroxylase	<i>ASPH</i>	286771	0018193 // peptidyl-amino acid modification // inferred from electronic annotation	5.27E-06	0.65	Down
TAF7 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 55kDa	<i>TAF7</i>	509327	0006350 // transcription // inferred from electronic annotation /// 0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation /// 0045449 // regulation of transcription // inferred from electronic annotation	1.51E-08	0.65	Down
junctional adhesion molecule 2	<i>JAM2</i>	538846	---	3.60E-06	0.65	Down
Tubulin, beta	<i>TUBB</i>	615087	0007017 // microtubule-based process // inferred from electronic annotation /// 0007018 // microtubule-based movement // inferred from electronic annotation /// 0051258 // protein polymerization // inferred from electronic annotation	2.48E-05	0.65	Down
coenzyme Q10 homolog A (<i>S. cerevisiae</i>)	<i>COQ10A</i>	538821	---	0.000449	0.65	Down
DAZ interacting protein 3, zinc finger	<i>DZIP3</i>	537349	---	0.00017	0.65	Down
similar to DEAD/H (Asp-Glu-Ala-	<i>LOC54031</i>	540312	---	0.000594	0.65	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
Asp/His) box polypeptide 26B	2					
outer dense fiber of sperm tails 2-like	<i>ODF2L</i>	533508	---	0.001921	0.65	Down
transmembrane protein 117	<i>TMEM117</i>	614719	---	3.15E-05	0.65	Down
chondroitin polymerizing factor	<i>CHPF</i>	540002	---	3.66E-06	0.65	Down
Coenzyme Q10 homolog A (S. cerevisiae)	<i>COQ10A</i>	538821	---	1.14E-05	0.65	Down
coiled-coil domain containing 85B	<i>CCDC85B</i>	540332	---	0.000268	0.65	Down
Low density lipoprotein receptor-related protein 4	<i>LRP4</i>	504317	---	3.65E-05	0.65	Down
RALBP1 associated Eps domain containing 2	<i>REPS2</i>	526887	---	0.000478	0.65	Down
hypothetical LOC613826	<i>LOC613826</i>	613826	---	1.52E-06	0.65	Down
MACRO domain containing 1	<i>MACROD1</i>	613568	---	0.000157	0.65	Down
insulin-like growth factor binding protein 7	<i>IGFBP7</i>	616368	0001558 // regulation of cell growth // inferred from electronic annotation	8.38E-08	0.65	Down
hypothetical protein LOC785375	<i>LOC785375</i>	785375	---	5.03E-06	0.65	Down
similar to NAC-beta splice /// NLR family, pyrin domain containing 1	<i>LOC528166</i> /// <i>NLRP1</i>	528166 /// 790698	0006952 // defense response // inferred from electronic annotation	2.91E-07	0.65	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
similar to HOXB8	<i>LOC785855</i>	785855	---	0.000808	0.65	Down
four and a half LIM domains 1	<i>FHL1</i>	509056	---	6.90E-07	0.65	Down
Calcium/calmodulin-dependent protein kinase II inhibitor 1	<i>CAMK2N1</i>	616227	---	0.000312	0.65	Down
cysteine-rich secretory protein LCCL domain containing 2 /// translocase of inner mitochondrial membrane 13 homolog (yeast)	<i>CRISPLD2</i> /// <i>TIMM13</i>	505329 /// 516325	0006626 // protein targeting to mitochondrion // inferred from electronic annotation /// 0006810 // transport // inferred from electronic annotation /// 0015031 // protein transport // inferred from electronic annotation /// 0045039 // protein import into	1.38E-06	0.65	Down
zinc finger protein 532	<i>ZNF532</i>	533847	---	8.23E-07	0.65	Down
damage-specific DNA binding protein 1, 127kDa	<i>DDB1</i>	511951	0006512 // ubiquitin cycle // inferred from electronic annotation	1.13E-06	0.65	Down
melanoma antigen family D, 1	<i>MGC128691</i>	512562	---	3.09E-07	0.65	Down
microfibrillar-associated protein 2	<i>MFAP2</i>	281912	---	0.000216	0.65	Down
spondin 2, extracellular matrix protein	<i>SPON2</i>	513844	0007155 // cell adhesion // inferred from electronic annotation /// 0007275 // multicellular organismal development // inferred from electronic annotation	0.000186	0.65	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
protein tyrosine phosphatase, receptor type, S	<i>PTPRS</i>	537480	---	2.36E-05	0.65	Down
transmembrane protein 135	<i>TMEM135</i>	523885	---	1.74E-08	0.66	Down
breast cancer metastasis-suppressor 1-like	<i>BRMS1L</i>	514432	0001558 // regulation of cell growth // inferred from electronic annotation /// 0006350 // transcription // inferred from electronic annotation /// 0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation	1.14E-05	0.66	Down
eukaryotic translation initiation factor 2C, 1	<i>EIF2C1</i>	522972	---	4.65E-10	0.66	Down
uracil-DNA glycosylase	<i>UNG</i>	511381	0006281 // DNA repair // inferred from electronic annotation /// 0006284 // base-excision repair // inferred from electronic annotation /// 0006974 // response to DNA damage stimulus // inferred from electronic annotation /// 0008152 // metabolic process	0.000251	0.66	Down
gamma-glutamyltransferase 1 /// gamma-glutamyltransferase 5	<i>GGT1</i> /// <i>GGT5</i>	615582 /// 787326	---	4.11E-05	0.66	Down
small EDRK-rich factor 2	<i>SERF2</i>	527852	---	8.63E-08	0.66	Down
tetraspanin 6	<i>TSPAN6</i>	514741	---	2.62E-08	0.66	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
hypothetical LOC617871	<i>LOC617871</i>	617871	---	0.0005	0.66	Down
spondin 1, extracellular matrix protein	<i>SPON1</i>	282866	0007155 // cell adhesion // inferred from electronic annotation /// 0007275 // multicellular organismal development // inferred from electronic annotation	0.000214	0.66	Down
DNA-damage-inducible transcript 4-like	<i>DDIT4L</i>	510906	0009968 // negative regulation of signal transduction // inferred from electronic annotation	0.00851	0.66	Down
Stabilin 1	<i>STAB1</i>	505543	0007155 // cell adhesion // inferred from electronic annotation	0.000641	0.66	Down
similar to versican V0 splice-variant 4	<i>LOC786374</i>	786374	---	0.000578	0.66	Down
Tctex1 domain containing 2	<i>TCTEX1D2</i>	504554	---	0.001556	0.66	Down
protein phosphatase 3 (formerly 2B), catalytic subunit, alpha isoform	<i>PPP3CA</i>	286852	0000082 // G1/S transition of mitotic cell cycle // inferred from electronic annotation /// 0006606 // protein import into nucleus // inferred from electronic annotation /// 0006816 // calcium ion transport // inferred from electronic annotation /// 00069	1.76E-10	0.66	Down
kelch-like 10 (Drosophila)	<i>KLHL10</i>	541263	---	1.26E-05	0.66	Down
secreted frizzled-related protein 2	<i>SFRP2</i>	510821	0007275 // multicellular organismal	0.000376	0.66	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			development // inferred from electronic annotation /// 0016055 // Wnt receptor signaling pathway // inferred from electronic annotation			
anthrax toxin receptor 2	<i>ANTXR2</i>	510080	---	0.006699	0.66	Down
hypothetical LOC614402	<i>LOC614402</i>	614402	---	0.000185	0.66	Down
DTW domain containing 1	<i>DTWD1</i>	540840	---	9.56E-09	0.66	Down
Development and differentiation enhancing factor-like 1	<i>DDEFL1</i>	523797	0005975 // carbohydrate metabolic process // inferred from electronic annotation /// 0019752 // carboxylic acid metabolic process // inferred from electronic annotation /// 0032312 // regulation of ARF GTPase activity // inferred from electronic annotation	7.15E-07	0.66	Down
matrix metalloproteinase 11 (stromelysin 3)	<i>MMP11</i>	539109	0006508 // proteolysis // inferred from electronic annotation	0.00037	0.66	Down
chaperone, ABC1 activity of bc1 complex homolog (S. pombe)	<i>CABC1</i>	536925	---	1.32E-06	0.66	Down
ephrin-A2	<i>EFNA2</i>	614453	---	0.000273	0.66	Down
PDZ and LIM domain 4	<i>PDLIM4</i>	515410	---	9.91E-11	0.66	Down
GRP1 (general receptor for phosphoinositides 1)-associated scaffold	<i>GRASP</i>	507181	---	0.000192	0.66	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
protein						
fumarylacetoacetate hydrolase (fumarylacetoacetase)	<i>FAH</i>	508724	0006559 // L-phenylalanine catabolic process // inferred from electronic annotation /// 0006572 // tyrosine catabolic process // inferred from electronic annotation /// 0008152 // metabolic process // inferred from electronic annotation /// 0009072 // aro	0.003537	0.66	Down
EGF-like-domain, multiple 7	<i>EGFL7</i>	613671	---	0.000111	0.66	Down
Membrane-associated ring finger (C3HC4) 6	<i>MAR6</i>	540371	---	4.81E-10	0.66	Down
SUMO1/sentrin specific peptidase 6	<i>SENP6</i>	533853	---	8.82E-05	0.66	Down
collagen, type III, alpha 1 (Ehlers-Danlos syndrome type IV, autosomal dominant)	<i>COL3A1</i>	510833	0006817 // phosphate transport // inferred from electronic annotation /// 0007186 // G-protein coupled receptor protein signaling pathway // inferred from electronic annotation	6.87E-08	0.66	Down
Melanoma associated antigen (mutated) 1	<i>MUM1</i>	513471	---	4.57E-06	0.66	Down
Hypothetical protein LOC782307	<i>LOC782307</i>	782307	---	8.49E-06	0.66	Down
UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 1	<i>GALNT1</i>	282241	0006493 // protein amino acid O-linked glycosylation // inferred from electronic annotation	0.002422	0.66	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
(GalNAc-T1)						
cytoplasmic linker associated protein 2	<i>CLASP2</i>	531418	---	0.000453	0.66	Down
beta-site APP-cleaving enzyme 1	<i>BACE1</i>	614333	0006508 // proteolysis // inferred from electronic annotation	0.006438	0.66	Down
tubulin tyrosine ligase-like family, member 3	<i>TTL3</i>	531866	0006464 // protein modification process // inferred from electronic annotation	2.25E-07	0.66	Down
sirtuin (silent mating type information regulation 2 homolog) 3 (<i>S. cerevisiae</i>)	<i>SIRT3</i>	614027	0006342 // chromatin silencing // inferred from electronic annotation /// 0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation /// 0006476 // protein amino acid deacetylation // inferred from electronic annotation	8.93E-06	0.66	Down
receptor (G protein-coupled) activity modifying protein 2	<i>RAMP2</i>	504230	0006886 // intracellular protein transport // inferred from electronic annotation /// 0008277 // regulation of G-protein coupled receptor protein signaling pathway // inferred from electronic annotation	4.22E-06	0.66	Down
hypothetical LOC533774	<i>LOC533774</i>	533774	---	7.58E-08	0.66	Down
prostaglandin E receptor 4 (subtype EP4)	<i>PTGER4</i>	282331	0007165 // signal transduction // inferred from electronic annotation /// 0007186 // G-protein coupled receptor protein signaling pathway //	0.004571	0.66	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
inferred from electronic annotation						
metastasis suppressor 1 /// similar to Metastasis suppressor protein 1 (Missing in metastasis protein) (Metastasis suppressor YGL-1)	<i>LOC78849</i> <i>9</i> /// <i>MTSS1</i>	523498 /// 788499	---	7.65E-07	0.66	Down
microtubule-associated protein 1A	<i>MAP1A</i>	515593	---	0.00084	0.66	Down
solute carrier family 16, member 3 (monocarboxylic acid transporter 4)	<i>SLC16A3</i>	510085	---	0.008446	0.66	Down
similar to OB-cadherin-1 /// cadherin 11, type 2, OB-cadherin (osteoblast)	<i>CDH11</i> /// <i>LOC53536</i> <i>3</i>	535363 /// 785475	0007155 // cell adhesion // inferred from electronic annotation /// 0007156 // homophilic cell adhesion // inferred from electronic annotation	0.000103	0.66	Down
McKusick-Kaufman syndrome	<i>MKKS</i>	614288	0006457 // protein folding // inferred from electronic annotation	5.53E-05	0.66	Down
platelet endothelial aggregation receptor 1	<i>PEAR1</i>	787112	---	0.001594	0.66	Down
galactose-1-phosphate uridylyltransferase	<i>GALT</i>	506997	0005975 // carbohydrate metabolic process // inferred from electronic annotation /// 0006012 // galactose metabolic process // inferred from electronic annotation	2.75E-07	0.66	Down
serpin peptidase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 1	<i>SERPINF1</i>	281386	0016525 // negative regulation of angiogenesis // inferred from electronic annotation /// 0050769 // positive regulation of neurogenesis // inferred from sequence or structural	2.40E-05	0.66	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			similarity /// 0050769 // positive regulation of neurogenesis // inferred from			
family with sequence similarity 109, member B	<i>FAM109B</i>	506148	---	0.000241	0.66	Down
hypothetical LOC529053	<i>LOC529053</i>	529053	---	3.37E-05	0.67	Down
matrix-remodelling associated 7	<i>MXRA7</i>	617087	---	2.92E-05	0.67	Down
junctional adhesion molecule 2	<i>JAM2</i>	538846	---	0.000222	0.67	Down
similar to BCL-6 corepressor	<i>LOC541088</i> <i>LOC784529</i>	541088 784529	---	0.000758	0.67	Down
cyclin-dependent kinase inhibitor 2C (p18, inhibits CDK4)	<i>CDKN2C</i>	505691	---	0.000214	0.67	Down
Hypothetical protein LOC784805	<i>LOC784805</i>	784805	---	3.08E-06	0.67	Down
abhydrolase domain containing 2	<i>ABHD2</i>	508717	0009611 // response to wounding // inferred from sequence or structural similarity /// 0030336 // negative regulation of cell migration // inferred from sequence or structural similarity	2.24E-05	2.00	Up
DnaJ (Hsp40) homolog, subfamily A,	<i>DNAJA1</i>	528862	0006457 // protein folding // inferred	1.33E-06	2.00	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
member 1			from electronic annotation			
atlastin 3	<i>ATL3</i>	515124	0006955 // immune response // inferred from electronic annotation	1.81E-08	2.00	Up
aldehyde dehydrogenase 5 family, member A1 (succinate-semialdehyde dehydrogenase)	<i>ALDH5A1</i>	532724	0008152 // metabolic process // inferred from electronic annotation	0.007179	2.01	Up
Similar to LFA-3	<i>LOC782186</i>	782186	---	3.27E-05	2.01	Up
interferon regulatory factor 8	<i>IRF8</i>	614909	0006350 // transcription // inferred from electronic annotation /// 0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation	1.47E-06	2.01	Up
chemokine (C-X-C motif) ligand 2	<i>CXCL2</i>	281212	0006954 // inflammatory response // inferred from electronic annotation /// 0006955 // immune response // inferred from electronic annotation	0.008841	2.02	Up
Solute carrier family 25, member 30	<i>SLC25A30</i>	507021	0006810 // transport // inferred from electronic annotation /// 0006839 // mitochondrial transport // inferred from electronic annotation	1.29E-09	2.02	Up
3'(2'), 5'-bisphosphate nucleotidase 1	<i>BPNT1</i>	521254	---	6.94E-10	2.02	Up
Transmembrane protein 53	<i>TMEM53</i>	540738	---	2.31E-06	2.02	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
DnaJ (Hsp40) homolog, subfamily C, member 1	<i>DNAJC1</i>	510387	---	2.19E-11	2.02	Up
valosin containing protein (p97)/p47 complex interacting protein 1	<i>VCPIP1</i>	539643	---	5.00E-11	2.02	Up
protein kinase C, delta	<i>PRKCD</i>	505708	0006468 // protein amino acid phosphorylation // inferred from electronic annotation /// 0007242 // intracellular signaling cascade // inferred from electronic annotation	2.84E-05	2.02	Up
Similar to RAD21-like 1 (S. pombe)	<i>LOC512408</i>	512408	---	0.000922	2.03	Up
deoxyribonuclease II, lysosomal	<i>DNASE2</i>	282218	0006259 // DNA metabolic process // inferred from electronic annotation /// 0006308 // DNA catabolic process // inferred from electronic annotation /// 0006915 // apoptosis // inferred from electronic annotation /// 0007275 // multicellular organismal dev	1.88E-07	2.04	Up
Vestigial like 1 (Drosophila)	<i>VGLL1</i>	613549	0045449 // regulation of transcription // inferred from electronic annotation	0.006553	2.05	Up
Ras association (RalGDS/AF-6) domain family member 1	<i>RASSF1</i>	510276	0007165 // signal transduction // inferred from electronic annotation /// 0007242 // intracellular signaling cascade // inferred from electronic annotation	2.54E-10	2.06	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
cadherin 1, type 1, E-cadherin (epithelial)	<i>CDH1</i>	282637	0007155 // cell adhesion // inferred from electronic annotation /// 0007156 // homophilic cell adhesion // inferred from electronic annotation /// 0016337 // cell-cell adhesion // inferred from electronic annotation /// 0019538 // protein metabolic proces	0.004911	2.06	Up
serpin peptidase inhibitor, clade G (C1 inhibitor), member 1, (angioedema, hereditary)	<i>SERPING1</i>	281035	0007596 // blood coagulation // inferred from electronic annotation	8.30E-06	2.07	Up
adenylate kinase 2	<i>AK2</i>	280716	0006139 // nucleobase, nucleoside, nucleotide and nucleic acid metabolic process // inferred from electronic annotation	1.82E-06	2.08	Up
similar to eyes absent 3	<i>LOC514364</i>	514364	0007275 // multicellular organismal development // inferred from electronic annotation /// 0008152 // metabolic process // inferred from electronic annotation	1.07E-05	2.08	Up
interferon regulatory factor 6	<i>IRF6</i>	614253	0006350 // transcription // inferred from electronic annotation /// 0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation	7.59E-07	2.08	Up
similar to squamous cell-specific protein	<i>LOC786490</i>	786490	---	1.23E-06	2.09	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
complement factor properdin	<i>CFP</i>	539605	---	7.74E-06	2.09	Up
Nicotinamide phosphoribosyltransferase	<i>NAMPT</i>	520472	---	1.58E-07	2.09	Up
eukaryotic translation termination factor 1	<i>ETF1</i>	541077	0006412 // translation // inferred from electronic annotation /// 0006415 // translational termination // inferred from electronic annotation	4.93E-07	2.10	Up
brain abundant, membrane attached signal protein 1	<i>BASP1</i>	286842	---	8.74E-07	2.10	Up
Tripartite motif-containing 25	<i>TRIM25</i>	510923	---	0.000205	2.10	Up
arrestin, beta 1	<i>ARRB1</i>	281637	0007165 // signal transduction // inferred from electronic annotation /// 0007600 // sensory perception // inferred from electronic annotation /// 0050896 // response to stimulus // inferred from electronic annotation	3.09E-07	2.10	Up
MIT, microtubule interacting and transport, domain containing 1	<i>MITD1</i>	504291	---	1.97E-07	2.10	Up
Hypothetical LOC511953	<i>LOC511953</i>	511953	---	3.54E-06	2.10	Up
ubiquitin D	<i>UBD</i>	504548	0006464 // protein modification process // inferred from electronic annotation	0.008696	2.11	Up
Hypothetical LOC533333	<i>MGC13910</i>	533333	---	3.33E-06	2.11	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
	9					
FYVE, RhoGEF and PH domain containing 2	<i>FGD2</i>	512593	0035023 // regulation of Rho protein signal transduction // inferred from electronic annotation	1.67E-06	2.11	Up
protein phosphatase 2 (formerly 2A), regulatory subunit B", gamma	<i>PPP2R3C</i>	533147	---	1.47E-08	2.12	Up
serine/threonine kinase 17a	<i>STK17A</i>	513665	0006468 // protein amino acid phosphorylation // inferred from electronic annotation	3.43E-05	2.12	Up
fibromodulin	<i>FMOD</i>	281168	---	6.43E-07	2.12	Up
asparagine-linked glycosylation 14 homolog	<i>ALG14</i>	506537	---	3.69E-06	2.13	Up
apoptosis-inducing factor, mitochondrion-associated, 1	<i>AIFM1</i>	535714	0045454 // cell redox homeostasis // inferred from electronic annotation	5.20E-11	2.13	Up
interferon regulatory factor 6	<i>IRF6</i>	614253	0006350 // transcription // inferred from electronic annotation /// 0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation	3.12E-06	2.13	Up
DIM1 dimethyladenosine transferase 1-like (<i>S. cerevisiae</i>)	<i>DIMT1L</i>	509725	0000154 // rRNA modification // inferred from electronic annotation /// 0006364 // rRNA processing // inferred from electronic annotation	5.85E-07	2.13	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
growth arrest and DNA-damage-inducible, beta	<i>GADD45B</i>	618405	0000186 // activation of MAPKK activity // inferred from electronic annotation /// 0006469 // negative regulation of protein kinase activity // inferred from electronic annotation /// 0006915 // apoptosis // inferred from electronic annotation /// 0007275	3.31E-09	2.14	Up
ATP-binding cassette, sub-family C (CFTR/MRP), member 3	<i>ABCC3</i>	533151	0006810 // transport // inferred from electronic annotation	4.62E-09	2.14	Up
sestrin 2	<i>SESN2</i>	509863	0007050 // cell cycle arrest // inferred from electronic annotation	4.76E-09	2.14	Up
tripartite motif-containing 38	<i>TRIM38</i>	531022	0016567 // protein ubiquitination // inferred from electronic annotation	1.68E-12	2.14	Up
Caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, convertase)	<i>CASP1</i>	514214	0006508 // proteolysis // inferred from electronic annotation /// 0006915 // apoptosis // inferred from electronic annotation /// 0042981 // regulation of apoptosis // inferred from electronic annotation	8.26E-06	2.15	Up
signal-regulatory protein alpha /// similar to MyD-1 antigen	<i>LOC782991</i> /// <i>SIRPA</i>	327666 /// 782991	---	5.37E-06	2.15	Up
chromosome 3 open reading frame 38 ortholog	<i>CIH3ORF38</i>	511707	0006508 // proteolysis // inferred from electronic annotation	1.22E-12	2.15	Up
DEAD (Asp-Glu-Ala-As) box polypeptide	<i>DDX19B</i>	517438	---	6.31E-08	2.16	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
19B						
interferon induced transmembrane protein 3 (1-8U)	<i>IFITM3</i>	282255	0009607 // response to biotic stimulus // inferred from electronic annotation	5.62E-11	2.16	Up
major histocompatibility complex, class II, DM beta-chain, expressed	<i>BOLA-DMB</i>	282491	0002504 // antigen processing and presentation of peptide or polysaccharide antigen via MHC class II // inferred from electronic annotation /// 0006955 // immune response // inferred from electronic annotation /// 0019882 // antigen processing and present	1.72E-08	2.17	Up
transmembrane protein 79	<i>TMEM79</i>	513599	---	3.46E-06	2.17	Up
nuclear receptor subfamily 4, group A, member 1	<i>NR4A1</i>	528390	0006350 // transcription // inferred from electronic annotation /// 0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation	0.000153	2.18	Up
karyopherin alpha 2 (RAG cohort 1, importin alpha 1)	<i>KPNA2</i>	513592	0006606 // protein import into nucleus // inferred from electronic annotation /// 0006886 // intracellular protein transport // inferred from electronic annotation	8.54E-08	2.18	Up
hematopoietic cell-specific Lyn substrate 1	<i>HCLS1</i>	508445	0008284 // positive regulation of cell proliferation // inferred from sequence or structural similarity /// 0009725 // response to hormone stimulus //	0.00023	2.19	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			inferred from sequence or structural similarity /// 0030218 // erythrocyte differentiation // inferred f			
hexosaminidase B (beta polypeptide)	<i>HEXB</i>	618571	0005975 // carbohydrate metabolic process // inferred from electronic annotation	2.31E-05	2.20	Up
adipose differentiation-related protein	<i>ADFP</i>	280981	---	1.36E-06	2.20	Up
C-type lectin domain family 2, member D	<i>CLEC2D</i>	617565	---	1.53E-05	2.20	Up
sestrin 2	<i>SESN2</i>	509863	0007050 // cell cycle arrest // inferred from electronic annotation	2.95E-12	2.21	Up
Synaptotagmin-like 3	<i>SYTL3</i>	506884	---	0.003314	2.21	Up
StAR-related lipid transfer (START) domain containing 5	<i>STARD5</i>	512369	0006810 // transport // inferred from electronic annotation /// 0006869 // lipid transport // inferred from electronic annotation	2.46E-09	2.21	Up
megakaryocyte-associated tyrosine kinase	<i>MATK</i>	504668	0006468 // protein amino acid phosphorylation // inferred from electronic annotation	0.000441	2.21	Up
ADP-ribosylation factor 3	<i>ARF3</i>	510994	0006810 // transport // inferred from electronic annotation /// 0007264 // small GTPase mediated signal transduction // inferred from electronic annotation /// 0015031 // protein transport // inferred from electronic annotation /// 0016192 //	3.08E-11	2.21	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
vesicle-medi						
hematopoietic cell-specific Lyn substrate 1	<i>HCLS1</i>	508445	0008284 // positive regulation of cell proliferation // inferred from sequence or structural similarity /// 0009725 // response to hormone stimulus // inferred from sequence or structural similarity /// 0030218 // erythrocyte differentiation // inferred f	0.000384	2.21	Up
proteasome (prosome, macropain) subunit, beta type, 9 (large multifunctional peptidase 2)	<i>PSMB9</i>	510593	0006511 // ubiquitin-dependent protein catabolic process // inferred from electronic annotation /// 0006955 // immune response // inferred from electronic annotation	6.14E-10	2.22	Up
Collagen, type XVIII, alpha 1	<i>COL18A1</i>	508076	0006817 // phosphate transport // inferred from electronic annotation /// 0007155 // cell adhesion // inferred from electronic annotation	3.68E-08	2.22	Up
plakophilin 1 (ectodermal dysplasia/skin fragility syndrome)	<i>PKP1</i>	281405	0007155 // cell adhesion // inferred from electronic annotation	3.94E-05	2.22	Up
methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2-like	<i>MTHFD2L</i>	536269	0008152 // metabolic process // inferred from electronic annotation /// 0009396 // folic acid and derivative biosynthetic process // inferred from electronic annotation	2.21E-06	2.23	Up
RanBP-type and C3HC4-type zinc finger containing 1	<i>RBCK1</i>	504400	0006464 // protein modification process // inferred from electronic	3.22E-10	2.24	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			annotation			
claudin 16	<i>CLDN16</i>	282184	0006810 // transport // inferred from electronic annotation /// 0006811 // ion transport // inferred from electronic annotation /// 0016338 // calcium-independent cell-cell adhesion // inferred from sequence or structural similarity	0.000197	2.24	Up
dihydrolipoamide S-acetyltransferase	<i>DLAT</i>	512723	---	1.15E-06	2.24	Up
carbonic anhydrase IV	<i>CA4</i>	280741	0006730 // one-carbon compound metabolic process // inferred from electronic annotation	0.000182	2.24	Up
Similar to interleukin 32	<i>LOC50580</i> <i>0</i>	505800	---	8.95E-05	2.24	Up
Boc homolog (mouse)	<i>BOC</i>	512018	---	6.99E-08	2.24	Up
ecotropic viral integration site 2B	<i>EVI2B</i>	617442	---	6.70E-06	2.25	Up
prolactin regulatory element binding	<i>PREB</i>	525256	---	1.70E-09	2.26	Up
ATPase family, AAA domain containing 1	<i>ATAD1</i>	506045	---	1.51E-16	2.26	Up
2',3'-cyclic nucleotide 3' phosphodiesterase	<i>CNP</i>	280752	0007409 // axonogenesis // inferred from electronic annotation /// 0008344 // adult locomotory behavior // inferred from electronic annotation /// 0009214 // cyclic nucleotide	9.59E-13	2.27	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			catabolic process // inferred from electronic annotation /// 0016070 // RNA met			
SAR1 gene homolog A (<i>S. cerevisiae</i>)	<i>SARIA</i>	517171	0006810 // transport // inferred from electronic annotation /// 0006886 // intracellular protein transport // inferred from electronic annotation /// 0007264 // small GTPase mediated signal transduction // inferred from electronic annotation /// 0015031 /	9.63E-08	2.29	Up
interleukin 18 binding protein	<i>IL18BP</i>	617470	---	2.13E-06	2.29	Up
chromosome 10 open reading frame 10 ortholog	<i>C28H10OR F10</i>	613715	---	4.25E-05	2.30	Up
small G protein signaling modulator 3	<i>SGSM3</i>	767820	0007049 // cell cycle // inferred from electronic annotation /// 0007050 // cell cycle arrest // inferred from electronic annotation /// 0032313 // regulation of Rab GTPase activity // inferred from electronic annotation /// 0032483 // regulation of Rab p	9.62E-07	2.30	Up
similar to WD repeat domain, phosphoinositide interacting 1	<i>MGC15996 4</i>	528410	---	0.000246	2.30	Up
hypothetical LOC539087	<i>MGC13441 9</i>	539087	---	1.14E-08	2.30	Up
protease, serine, 8	<i>PRSS8</i>	613506	0006508 // proteolysis // inferred from	4.47E-07	2.30	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			electronic annotation			
serine/threonine kinase 38 like	<i>STK38L</i>	514787	0006468 // protein amino acid phosphorylation // inferred from electronic annotation	1.59E-11	2.30	Up
Mov10, Moloney leukemia virus 10, homolog (mouse)	<i>MOV10</i>	523206	---	5.53E-12	2.31	Up
solute carrier family 2 (facilitated glucose transporter), member 1	<i>SLC2A1</i>	282356	0006810 // transport // inferred from electronic annotation /// 0008643 // carbohydrate transport // inferred from electronic annotation /// 0015758 // glucose transport // inferred from sequence or structural similarity /// 0046323 // glucose import // t	2.26E-10	2.31	Up
dipeptidyl-peptidase 3	<i>DPP3</i>	510200	0006508 // proteolysis // inferred from electronic annotation	8.57E-11	2.31	Up
tumor necrosis factor, alpha-induced protein 6	<i>TNFAIP6</i>	493710	0007155 // cell adhesion // inferred from electronic annotation	3.05E-10	2.32	Up
phospholipase A1 member A	<i>PLA1A</i>	515900	0006629 // lipid metabolic process // inferred from electronic annotation /// 0016042 // lipid catabolic process // inferred from electronic annotation	4.18E-06	2.33	Up
RAS and EF-hand domain containing	<i>RASEF</i>	513223	0007264 // small GTPase mediated signal transduction // inferred from electronic annotation /// 0015031 // protein transport // inferred from	8.47E-05	2.33	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			electronic annotation			
membrane-spanning 4-domains, subfamily A, member 8B	<i>MS4A8B</i>	415111	0007165 // signal transduction // inferred from electronic annotation	1.35E-10	2.33	Up
claudin 4	<i>CLDN4</i>	414921	0016338 // calcium-independent cell-cell adhesion // inferred from sequence or structural similarity	1.72E-07	2.33	Up
hypothetical protein LOC522909	<i>LOC522909</i>	522909	---	1.52E-06	2.33	Up
CDKN2A interacting protein	<i>CDKN2AIP</i>	513265	---	2.37E-11	2.34	Up
interferon regulatory factor 3	<i>IRF3</i>	516979	0006350 // transcription // inferred from electronic annotation /// 0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation /// 0009615 // response to virus // inferred from electronic annotation /// 0031663 // lipopol	3.64E-11	2.34	Up
selenoprotein T	<i>SELT</i>	783831	0045454 // cell redox homeostasis // inferred from electronic annotation	3.46E-08	2.34	Up
cysteine rich transmembrane BMP regulator 1 (chordin-like)	<i>CRIM1</i>	506264	0001558 // regulation of cell growth // inferred from electronic annotation /// 0007155 // cell adhesion // inferred from electronic annotation /// 0007339 // binding of sperm to zona pellucida // inferred from electronic	2.62E-05	2.35	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			annotation			
MORC family CW-type zinc finger 3	<i>MORC3</i>	513807	---	2.21E-12	2.35	Up
tubulointerstitial nephritis antigen-like 1	<i>TINAGLI</i>	509642	0006508 // proteolysis // inferred from electronic annotation /// 0006810 // transport // inferred from electronic annotation	1.82E-05	2.36	Up
hypothetical LOC539299	<i>LOC539299</i>	539299	---	3.41E-12	2.36	Up
similar to HEPH	<i>LOC510736</i>	510736	---	2.31E-07	2.36	Up
DKFZP564O0823 protein	<i>DKFZP56400823</i>	518368	---	0.007523	2.36	Up
carnitine acetyltransferase	<i>CRAT</i>	512902	---	1.01E-08	2.36	Up
allograft inflammatory factor 1	<i>AIF1</i>	280989	0051017 // actin filament bundle formation // inferred from electronic annotation	5.05E-09	2.36	Up
syndecan 2	<i>SDC2</i>	615785	---	2.68E-05	2.37	Up
ring finger protein 19B	<i>RNF19B</i>	509774	---	1.51E-09	2.37	Up
mitochondrial tumor suppressor 1	<i>MTUS1</i>	515016	0007049 // cell cycle // inferred from electronic annotation	1.76E-05	2.37	Up
similar to FLJ11171 protein	<i>LOC78191</i>	781914	---	6.49E-07	2.38	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
	4					
HIG1 domain family, member 1A	<i>HIGD1A</i>	768057	---	3.21E-10	2.38	Up
similar to C-type lectin domain family 2, member h	<i>LOC504309</i>	504309	---	2.14E-12	2.38	Up
annexin A1	<i>ANXA1</i>	327662	0007049 // cell cycle // inferred from electronic annotation /// 0007165 // signal transduction // inferred from electronic annotation /// 0018149 // peptide cross-linking // inferred from electronic annotation /// 0030216 // keratinocyte differentiation	3.97E-15	2.38	Up
nuclear protein 1	<i>NUPR1</i>	614673	---	6.89E-07	2.39	Up
similar to Signal peptide peptidase-like 2A	<i>LOC530325</i>	530325	---	8.19E-12	2.39	Up
hypothetical LOC508353	<i>LOC508353</i>	508353	---	5.69E-05	2.40	Up
Mucin 13, cell surface associated	<i>MUC13</i>	511430	---	7.32E-08	2.41	Up
complement component 1, q subcomponent, A chain	<i>CIQA</i>	534961	0006817 // phosphate transport // inferred from electronic annotation /// 0006955 // immune response // inferred from electronic annotation /// 0006958 // complement activation, classical pathway // inferred from electronic annotation /// 0045087 //	7.57E-08	2.41	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			innat			
BCL2-like 1	<i>BCL2L1</i>	282152	0006915 // apoptosis // inferred from electronic annotation /// 0042981 // regulation of apoptosis // inferred from electronic annotation	4.80E-07	2.41	Up
tyrosyl-tRNA synthetase	<i>YARS</i>	281581	0006412 // translation // inferred from electronic annotation /// 0006418 // tRNA aminoacylation for protein translation // inferred from electronic annotation /// 0006437 // tyrosyl-tRNA aminoacylation // inferred from electronic annotation	1.08E-06	2.41	Up
general transcription factor IIB /// similar to general transcription factor TfiIB	<i>GTF2B</i> /// <i>LOC78665</i> 6	513231 /// 786656	0006350 // transcription // inferred from electronic annotation /// 0006352 // transcription initiation // inferred from electronic annotation /// 0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation /// 0006413 //	5.98E-12	2.42	Up
macrophage scavenger receptor 1	<i>MSR1</i>	281311	0006817 // phosphate transport // inferred from electronic annotation /// 0006897 // endocytosis // inferred from electronic annotation /// 0006898 // receptor-mediated endocytosis // inferred from electronic annotation	4.56E-07	2.42	Up
similar to C-type lectin domain family 2,	<i>LOC50430</i>	504309	---	8.26E-13	2.42	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
member h	9					
2,4-dienoyl CoA reductase 2, peroxisomal	<i>DECR2</i>	768256	0008152 // metabolic process // inferred from electronic annotation /// 0009239 // enterobactin biosynthetic process // inferred from electronic annotation	6.97E-08	2.42	Up
solute carrier family 27 (fatty acid transporter), member 5	<i>SLC27A5</i>	533016	0008152 // metabolic process // inferred from electronic annotation	2.64E-07	2.43	Up
death-associated protein 6	<i>DAXX</i>	504336	---	1.11E-10	2.44	Up
transmembrane 4 L six family member 1	<i>TM4SF1</i>	533038	---	3.91E-09	2.44	Up
Fc fragment of IgE, high affinity I, receptor for; gamma polypeptide	<i>FCER1G</i>	282226	0001798 // positive regulation of type IIa hypersensitivity // inferred from electronic annotation /// 0001805 // positive regulation of type III hypersensitivity // inferred from electronic annotation /// 0001812 // positive regulation of type I hypersen	1.64E-10	2.46	Up
glutamate receptor, ionotropic, N-methyl D-aspartate-associated protein 1 (glutamate binding)	<i>GRINA</i>	510225	---	2.28E-10	2.46	Up
acyl-CoA synthetase short-chain family member 2	<i>ACSS2</i>	506459	0008152 // metabolic process // inferred from electronic annotation	5.90E-07	2.46	Up
ubiquitin specific peptidase 25	<i>USP25</i>	524531	0006511 // ubiquitin-dependent protein catabolic process // inferred	1.89E-11	2.46	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			from electronic annotation			
PAP associated domain containing 4	<i>PAPD4</i>	533862	---	1.12E-11	2.47	Up
interleukin 20 receptor beta	<i>IL20RB</i>	534581	---	0.001878	2.48	Up
lysophospholipase I	<i>LYPLA1</i>	539992	0006629 // lipid metabolic process // inferred from electronic annotation /// 0006631 // fatty acid metabolic process // inferred from electronic annotation	1.66E-05	2.49	Up
transmembrane protein 106A	<i>TMEM106A</i>	508269	---	2.15E-09	2.49	Up
Intercellular adhesion molecule 2	<i>ICAM2</i>	506088	0016337 // cell-cell adhesion // inferred from electronic annotation	3.76E-05	2.49	Up
sterol O-acyltransferase (acyl-Coenzyme A: cholesterol acyltransferase) 1	<i>SOAT1</i>	504287	---	6.40E-07	2.50	Up
Similar to Probable phospholipid-transporting ATPase VA (P-locus fat-associated ATPase)	<i>LOC510723</i>	510723	---	2.37E-07	2.50	Up
Fc fragment of IgG, low affinity IIIa, receptor (CD16a)	<i>FCGR3A</i>	281766	---	4.17E-10	2.50	Up
phospholipase D1, phosphatidylcholine-specific	<i>PLD1</i>	514554	0007154 // cell communication // inferred from electronic annotation /// 0008152 // metabolic process // inferred from electronic annotation	4.32E-07	2.51	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
survival motor neuron	<i>SMN</i>	281492	0000245 // spliceosome assembly // inferred from electronic annotation /// 0006397 // mRNA processing // inferred from electronic annotation	4.29E-08	2.51	Up
RNA binding motif protein 43	<i>RBM43</i>	617625	---	5.77E-10	2.51	Up
Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1	<i>NFATC1</i>	511224	0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation	3.24E-07	2.52	Up
WD repeat domain 16	<i>WDR16</i>	505885	---	0.000231	2.52	Up
selectin L (lymphocyte adhesion molecule 1)	<i>SELL</i>	281485	0007155 // cell adhesion // inferred from electronic annotation /// 0007155 // cell adhesion // non-traceable author statement	1.04E-09	2.53	Up
MAD2 mitotic arrest deficient-like 2 (yeast)	<i>MAD2L2</i>	506605	0007067 // mitosis // inferred from electronic annotation	8.49E-14	2.55	Up
Transmembrane protein 127	<i>TMEM127</i>	513620	---	0.000548	2.56	Up
CD53 molecule	<i>CD53</i>	505040	---	5.13E-09	2.58	Up
regakine 1	<i>LOC504773</i>	504773	0006935 // chemotaxis // inferred from electronic annotation /// 0006954 // inflammatory response // inferred from electronic annotation /// 0006955 // immune response // inferred from electronic annotation	1.15E-06	2.58	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
optineurin	<i>OPTN</i>	534150	---	3.34E-13	2.58	Up
stefin C	<i>LOC514170</i>	514170	---	0.002248	2.60	Up
solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 5	<i>SLC25A5</i>	282479	0006810 // transport // inferred from electronic annotation	6.14E-09	2.60	Up
peroxidasin homolog (Drosophila)	<i>PXDN</i>	515860	0006979 // response to oxidative stress // inferred from electronic annotation	2.56E-06	2.60	Up
agrin	<i>AGRN</i>	525795	0007213 // acetylcholine receptor signaling, muscarinic pathway // inferred from electronic annotation /// 0008033 // tRNA processing // inferred from electronic annotation /// 0043113 // receptor clustering // inferred from electronic annotation	2.35E-13	2.61	Up
similar to Chromosome 9 open reading frame 61	<i>LOC509420</i>	509420	---	1.14E-07	2.61	Up
nucleoporin 93kDa	<i>NUP93</i>	510004	0006810 // transport // inferred from electronic annotation	3.41E-07	2.61	Up
similar to ubiquitin specific proteinase 43	<i>LOC506996</i>	506996	---	2.10E-05	2.62	Up
interferon regulatory factor 1	<i>IRF1</i>	337917	0006350 // transcription // inferred from electronic annotation ///	1.75E-06	2.62	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation /// 0007049 // cell cycle // inferred from electronic annotation /// 0045786 // negative regul			
F-box protein 33	<i>FBXO33</i>	539998	---	2.20E-11	2.63	Up
optineurin	<i>OPTN</i>	534150	---	6.18E-09	2.64	Up
F-box protein 33	<i>FBXO33</i>	539998	---	1.48E-12	2.64	Up
crystallin, mu	<i>CRYM</i>	505167	0008152 // metabolic process // inferred from electronic annotation	0.000118	2.64	Up
methionyl-tRNA synthetase 2, mitochondrial	<i>MARS2</i>	514726	0006412 // translation // inferred from electronic annotation /// 0006418 // tRNA aminoacylation for protein translation // inferred from electronic annotation /// 0006431 // methionyl-tRNA aminoacylation // inferred from electronic annotation	1.24E-07	2.65	Up
transmembrane 4 L six family member 1	<i>TM4SF1</i>	533038	---	7.42E-13	2.66	Up
Intercellular adhesion molecule 2	<i>ICAM2</i>	506088	0016337 // cell-cell adhesion // inferred from electronic annotation	2.06E-05	2.66	Up
interferon induced transmembrane protein 1 (9-27)	<i>IFITM1</i>	353510	0009607 // response to biotic stimulus // inferred from electronic annotation	6.83E-12	2.66	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
creatine kinase, mitochondrial 1 (ubiquitous)	<i>CKMT1</i>	281692	---	1.03E-06	2.68	Up
interleukin 1 receptor antagonist	<i>IL1RN</i>	281860	0006955 // immune response // inferred from electronic annotation	2.84E-09	2.70	Up
Hypothetical protein LOC509620	<i>LOC509620</i>	509620	---	1.55E-10	2.71	Up
interferon regulatory factor 5	<i>IRF5</i>	615340	0006350 // transcription // inferred from electronic annotation /// 0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation	3.26E-07	2.71	Up
optineurin	<i>OPTN</i>	534150	---	1.06E-07	2.71	Up
survival motor neuron	<i>SMN</i>	281492	0000245 // spliceosome assembly // inferred from electronic annotation /// 0006397 // mRNA processing // inferred from electronic annotation	3.20E-08	2.72	Up
ectonucleotide pyrophosphatase/phosphodiesterase 3	<i>ENPP3</i>	529405	0008152 // metabolic process // inferred from electronic annotation	0.000464	2.72	Up
MAD2 mitotic arrest deficient-like 2 (yeast)	<i>MAD2L2</i>	506605	0007067 // mitosis // inferred from electronic annotation	3.71E-12	2.72	Up
lectin, galactoside-binding, soluble, 3 binding protein	<i>LGALS3BP</i>	531137	---	9.05E-13	2.73	Up
glutathione S-transferase M4	<i>GSTM4</i>	783879	0008152 // metabolic process //	7.04E-06	2.74	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			inferred from electronic annotation			
serpin peptidase inhibitor, clade A (alpha-1 antitrypsin, antitrypsin), member 1	<i>SERPINA1</i>	280699	0009405 // pathogenesis // inferred from electronic annotation	0.000933	2.74	Up
serpin peptidase inhibitor, clade A (alpha-1 antitrypsin, antitrypsin), member 11	<i>SERPINA1</i>	538280				
argininosuccinate lyase	<i>ASL</i>	512771	0000050 // urea cycle // inferred from electronic annotation /// 0006526 // arginine biosynthetic process // inferred from electronic annotation /// 0008652 // amino acid biosynthetic process // inferred from electronic annotation /// 0042450 // arginine	6.73E-07	2.80	Up
solute carrier family 25 (mitochondrial thiamine pyrophosphate carrier), member 19	<i>SLC25A19</i>	504418	0006810 // transport // inferred from electronic annotation	4.43E-10	2.80	Up
tripartite motif-containing 25	<i>TRIM25</i>	510923	---	4.94E-10	2.81	Up
solute carrier family 27 (fatty acid transporter), member 2	<i>SLC27A2</i>	535727	0008152 // metabolic process // inferred from electronic annotation	1.29E-06	2.82	Up
tripartite motif-containing 21	<i>TRIM21</i>	359715	0016567 // protein ubiquitination // inferred from electronic annotation	1.53E-10	2.82	Up
CASP8 and FADD-like apoptosis regulator	<i>CFLAR</i>	497199	0006508 // proteolysis // inferred from electronic annotation /// 0006915 // apoptosis // inferred from electronic annotation /// 0042981 // regulation of apoptosis // inferred from electronic	0.000262	2.82	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			annotation			
oxidative stress induced growth inhibitor 1	<i>OSGIN1</i>	768073	---	8.82E-06	2.83	Up
myelin protein zero-like 1	<i>MPZL1</i>	539387	---	1.31E-07	2.83	Up
sphingomyelin phosphodiesterase, acid-like 3B	<i>SMPDL3B</i>	518699	---	8.05E-07	2.83	Up
tachykinin receptor 3	<i>TACR3</i>	404136	0007165 // signal transduction // inferred from electronic annotation /// 0007186 // G-protein coupled receptor protein signaling pathway // inferred from electronic annotation	0.000149	2.84	Up
signal transducer and activator of transcription 1, 91kDa	<i>STAT1</i>	510814	0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation /// 0007165 // signal transduction // inferred from electronic annotation /// 0045449 // regulation of transcription // inferred from electronic annotation	5.29E-14	2.84	Up
similar to glutathione peroxidase 2 /// RAB15, member RAS oncogene family	<i>LOC53308</i> <i>8</i> /// <i>RAB15</i>	533088 /// 614507	0006810 // transport // inferred from electronic annotation /// 0006886 // intracellular protein transport // inferred from electronic annotation /// 0006913 // nucleocytoplasmic transport // inferred from electronic annotation /// 0006979 // response to	3.15E-05	2.87	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
transmembrane protein 156	<i>TMEM156</i>	533681	---	2.19E-06	2.89	Up
ganglioside induced differentiation associated protein 2	<i>GDAP2</i>	508774	---	1.42E-12	2.90	Up
serine palmitoyltransferase, long chain base subunit 2	<i>SPTLC2</i>	537972	0009058 // biosynthetic process // inferred from electronic annotation	1.32E-10	2.90	Up
N-myc (and STAT) interactor	<i>NMI</i>	511280 /// 784981	---	2.29E-13	2.91	Up
RCD1 required for cell differentiation1 homolog (S. pombe)	<i>RQCD1</i>	536537	0006350 // transcription // inferred from electronic annotation /// 0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation	1.65E-08	2.92	Up
solute carrier family 5 (sodium/glucose cotransporter), member 1	<i>SLC5A1</i>	282361	0006810 // transport // inferred from electronic annotation /// 0006811 // ion transport // inferred from electronic annotation /// 0006814 // sodium ion transport // inferred from electronic annotation /// 0006970 // response to osmotic stress // inferre	3.64E-05	2.92	Up
Actin binding LIM protein family, member 3	<i>ABLIM3</i>	613794	0007010 // cytoskeleton organization and biogenesis // inferred from electronic annotation	3.51E-07	2.93	Up
complement factor B	<i>CFB</i>	514076	0006508 // proteolysis // inferred from electronic annotation /// 0006955 //	7.71E-06	2.94	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			immune response // inferred from electronic annotation /// 0006956 // complement activation // inferred from electronic annotation /// 0006957 // complement activation, alternati			
neural precursor cell expressed, developmentally down-regulated 4-like	<i>NEDD4L</i>	510003	0006464 // protein modification process // inferred from electronic annotation /// 0006512 // ubiquitin cycle // inferred from electronic annotation	4.67E-12	2.95	Up
similar to aldehyde oxidase 2	<i>LOC518393</i>	518393	0006826 // iron ion transport // inferred from electronic annotation /// 0006879 // cellular iron ion homeostasis // inferred from electronic annotation	0.000348	3.00	Up
SERTA domain containing 1	<i>SERTAD1</i>	539321	---	1.01E-11	3.01	Up
neutrophil cytosolic factor 2 (65kDa, chronic granulomatous disease, autosomal 2)	<i>NCF2</i>	281346	---	2.57E-08	3.02	Up
tryptophanyl-tRNA synthetase	<i>WARS</i>	281576	0006412 // translation // inferred from electronic annotation /// 0006418 // tRNA aminoacylation for protein translation // inferred from electronic annotation /// 0006436 // tryptophanyl-tRNA aminoacylation // inferred from electronic annotation	7.27E-11	3.03	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
myelin protein zero-like 1	<i>MPZL1</i>	539387	---	1.01E-07	3.04	Up
lysozyme 1	<i>LYZ1</i>	281287	0008152 // metabolic process // inferred from electronic annotation /// 0016998 // cell wall catabolic process // inferred from electronic annotation /// 0019835 // cytolysis // inferred from electronic annotation /// 0042742 // defense response to bacter	0.002306	3.04	Up
myelin protein zero-like 1	<i>MPZL1</i>	539387	---	2.78E-09	3.05	Up
similar to putative polypeptide N-acetylgalactosaminyltransferase 2	<i>LOC505622</i>	505622	---	1.65E-05	3.06	Up
basic leucine zipper and W2 domains 2	<i>BZW2</i>	326579	0006446 // regulation of translational initiation // inferred from electronic annotation	3.35E-08	3.06	Up
hypothetical LOC616344	<i>LOC616344</i>	616344	---	4.19E-09	3.06	Up
CD40 molecule, TNF receptor superfamily member 5	<i>CD40</i>	286849	0002768 // immune response-regulating cell surface receptor signaling pathway // inferred from electronic annotation /// 0006915 // apoptosis // inferred from electronic annotation /// 0006955 // immune response // inferred from electronic annotation ///	4.73E-07	3.08	Up
phosphoenolpyruvate carboxykinase 2	<i>PCK2</i>	282856	0006094 // gluconeogenesis //	1.49E-08	3.08	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
(mitochondrial)			inferred from electronic annotation			
lymphocyte antigen 6 complex, locus E	<i>LY6E</i>	510977	---	1.02E-12	3.09	Up
solute carrier family 12 (sodium/potassium/chloride transporters), member 2	<i>SLC12A2</i>	286845	0006810 // transport // inferred from electronic annotation /// 0006811 // ion transport // inferred from electronic annotation /// 0006814 // sodium ion transport // inferred from electronic annotation /// 0006821 // chloride transport // inferred from e	8.53E-07	3.09	Up
histone cluster 1, H1c	<i>HIST1H1C</i>	513971	0006334 // nucleosome assembly // inferred from electronic annotation	1.82E-06	3.10	Up
aminolevulinate, delta-, synthase 1	<i>ALAS1</i>	534286	0009058 // biosynthetic process // inferred from electronic annotation /// 0033014 // tetrapyrrole biosynthetic process // inferred from electronic annotation	1.01E-10	3.12	Up
EH-domain containing 4	<i>EHD4</i>	505206	---	5.58E-10	3.12	Up
ATPase family, AAA domain containing 1	<i>ATAD1</i>	506045	---	1.54E-07	3.12	Up
ganglioside induced differentiation associated protein 2	<i>GDAP2</i>	508774	---	2.11E-15	3.13	Up
Bcl2-like 14 (apoptosis facilitator)	<i>BCL2L14</i>	508365	0006915 // apoptosis // inferred from electronic annotation /// 0042981 // regulation of apoptosis // inferred	7.97E-07	3.14	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			from electronic annotation			
synaptogyrin 1	<i>SYNGR1</i>	534995	---	6.92E-05	3.16	Up
Protease, serine, 22	<i>PRSS22</i>	510394	0006508 // proteolysis // inferred from electronic annotation	4.65E-05	3.16	Up
similar to LFA-3	<i>LOC782186</i>	782186	---	2.25E-06	3.17	Up
serine incorporator 2	<i>SERINC2</i>	513593	---	4.72E-10	3.19	Up
crystallin, mu	<i>CRYM</i>	505167	0008152 // metabolic process // inferred from electronic annotation	3.98E-05	3.21	Up
apoptosis-associated tyrosine kinase	<i>AATK</i>	511515	0006468 // protein amino acid phosphorylation // inferred from electronic annotation	1.63E-06	3.22	Up
coiled-coil domain containing 136	<i>CCDC136</i>	615922	---	1.30E-09	3.25	Up
5'-nucleotidase, cytosolic III	<i>NT5C3</i>	511858	---	3.38E-10	3.27	Up
N-myc (and STAT) interactor	<i>NMI</i>	511280	---	1.71E-13	3.29	Up
Oncostatin M receptor	<i>OSMR</i>	514720	---	3.27E-07	3.29	Up
hypothetical LOC616344	<i>LOC616344</i>	616344	---	2.97E-11	3.30	Up
Hypothetical LOC514701	<i>LOC514701</i>	514701	---	1.29E-07	3.33	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)	<i>TAP1</i>	524959	0006810 // transport // inferred from electronic annotation	2.11E-12	3.34	Up
StAR-related lipid transfer (START) domain containing 5	<i>STARD5</i>	512369	0006810 // transport // inferred from electronic annotation /// 0006869 // lipid transport // inferred from electronic annotation	4.70E-08	3.35	Up
lectin, galactoside-binding, soluble, 3 binding protein	<i>LGALS3BP</i>	531137	---	6.28E-08	3.37	Up
interferon induced transmembrane protein 1 (9-27)	<i>IFITM1</i>	353510	0009607 // response to biotic stimulus // inferred from electronic annotation	2.56E-12	3.38	Up
ribonuclease, RNase A family, k6	<i>RNASE6</i>	282341	---	3.23E-12	3.39	Up
neurochondrin	<i>NCDN</i>	505994	---	1.26E-05	3.41	Up
Proteasome (prosome, macropain) inhibitor subunit 1 (PI31)	<i>PSMF1</i>	617807	---	4.07E-17	3.41	Up
solute carrier family 12 (sodium/potassium/chloride transporters), member 2	<i>SLC12A2</i>	286845	0006810 // transport // inferred from electronic annotation /// 0006811 // ion transport // inferred from electronic annotation /// 0006814 // sodium ion transport // inferred from electronic annotation /// 0006821 // chloride transport // inferred from e	9.58E-09	3.42	Up
ubiquitin-conjugating enzyme E2L 6	<i>UBE2L6</i>	509471	0006512 // ubiquitin cycle // inferred from electronic annotation /// 0043687 // post-translational protein	7.80E-13	3.44	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			modification // inferred from electronic annotation /// 0051246 // regulation of protein metabolic process // inferred from electronic annotation			
ATPase family, AAA domain containing 1	<i>ATAD1</i>	506045	---	3.47E-10	3.45	Up
EH-domain containing 4	<i>EHD4</i>	505206	---	1.87E-06	3.51	Up
2',3'-cyclic nucleotide 3' phosphodiesterase	<i>CNP</i>	280752	0007409 // axonogenesis // inferred from electronic annotation /// 0008344 // adult locomotory behavior // inferred from electronic annotation /// 0009214 // cyclic nucleotide catabolic process // inferred from electronic annotation /// 0016070 // RNA met	3.36E-06	3.54	Up
CD69 molecule	<i>CD69</i>	281058	---	1.33E-09	3.55	Up
similar to NKp80 NK receptor	<i>LOC618591</i>	618591	---	3.11E-06	3.57	Up
tumor-associated calcium signal transducer 2	<i>TACSTD2</i>	539853	---	4.61E-09	3.57	Up
Major histocompatibility complex, class I	<i>LOC512672</i>	512672	0006955 // immune response // inferred from electronic annotation /// 0019882 // antigen processing and presentation // inferred from	1.12E-09	3.57	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			electronic annotation			
PYD and CARD domain containing	<i>PYCARD</i>	282846	0006508 // proteolysis // inferred from electronic annotation /// 0006915 // apoptosis // inferred from electronic annotation /// 0007049 // cell cycle // inferred from electronic annotation /// 0042981 // regulation of apoptosis // inferred from electron	1.20E-08	3.58	Up
suppressor of cytokine signaling 1	<i>SOCS1</i>	518795	---	4.33E-09	3.62	Up
interferon-induced protein 35	<i>IFI35</i>	510697	---	2.86E-15	3.63	Up
ubiquitin-conjugating enzyme E2L 6	<i>UBE2L6</i>	509471	0006512 // ubiquitin cycle // inferred from electronic annotation /// 0043687 // post-translational protein modification // inferred from electronic annotation /// 0051246 // regulation of protein metabolic process // inferred from electronic annotation	2.03E-11	3.63	Up
hypothetical LOC510382	<i>LOC510382</i>	510382	---	0.000834	3.68	Up
transmembrane protein 45B	<i>TMEM45B</i>	510305 /// 784875	---	1.22E-07	3.68	Up
chemokine (C-C motif) ligand 2 /// chemokine (C-C motif) ligand 11	<i>CCL11</i> /// <i>CCL2</i>	281043 ///	0006935 // chemotaxis // inferred from electronic annotation /// 0006954 // inflammatory response //	2.33E-06	3.69	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
		404072	inferred from electronic annotation /// 0006955 // immune response // inferred from electronic annotation			
glutathione synthetase	<i>GSS</i>	525059	0006750 // glutathione biosynthetic process // inferred from electronic annotation	4.69E-06	3.69	Up
tryptophanyl-tRNA synthetase	<i>WARS</i>	281576	0006412 // translation // inferred from electronic annotation /// 0006418 // tRNA aminoacylation for protein translation // inferred from electronic annotation /// 0006436 // tryptophanyl-tRNA aminoacylation // inferred from electronic annotation	4.43E-11	3.71	Up
complement component 1, q subcomponent, B chain	<i>CIQB</i>	617435	0006817 // phosphate transport // inferred from electronic annotation /// 0006955 // immune response // inferred from electronic annotation /// 0006958 // complement activation, classical pathway // inferred from electronic annotation /// 0045087 // innat	6.66E-12	3.72	Up
endothelial PAS domain protein 1	<i>EPASI</i>	282711	0006350 // transcription // inferred from electronic annotation /// 0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation /// 0007165 // signal transduction // inferred from electronic annotation /// 0045449 //	1.32E-06	3.72	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			regul			
Spindle assembly 6 homolog (C. elegans)	<i>SASS6</i>	504467	---	4.92E-13	3.74	Up
vestigial like 1 (Drosophila)	<i>VGLL1</i>	613549	0045449 // regulation of transcription // inferred from electronic annotation	7.56E-05	3.78	Up
SP140 nuclear body protein	<i>SP140</i>	510377	---	5.19E-13	3.79	Up
signal transducer and activator of transcription 2, 113kDa	<i>STAT2</i>	511023	---	1.05E-15	3.79	Up
lymphocyte antigen 6 complex, locus G6C	<i>LY6G6C</i>	505805	---	7.22E-07	3.81	Up
ecotropic viral integration site 2B	<i>EVI2B</i>	617442	---	1.57E-07	3.84	Up
carboxypeptidase X (M14 family), member 2	<i>CPXM2</i>	534505	---	0.000613	3.85	Up
solute carrier family 38, member 5	<i>SLC38A5</i>	512495	---	5.52E-08	3.87	Up
phosphomevalonate kinase	<i>PMVK</i>	513533	0006694 // steroid biosynthetic process // inferred from electronic annotation /// 0006695 // cholesterol biosynthetic process // inferred from electronic annotation /// 0008610 // lipid biosynthetic process // inferred from electronic annotation /// 0016	2.74E-08	3.87	Up
chemokine (C-C motif) ligand 2 /// chemokine (C-C motif) ligand 11	<i>CCL11</i> /// <i>CCL2</i>	281043 /// 404072	0006935 // chemotaxis // inferred from electronic annotation /// 0006954 // inflammatory response // inferred from electronic annotation ///	2.56E-06	3.88	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			0006955 // immune response // inferred from electronic annotation			
similar to Complement C4-A precursor (Acidic complement C4)	<i>LOC617696</i>	617696	0006954 // inflammatory response // inferred from electronic annotation /// 0006955 // immune response // inferred from electronic annotation /// 0006956 // complement activation // inferred from electronic annotation /// 0006958 // complement activation,	9.10E-12	3.90	Up
complement component 1, q subcomponent, C chain	<i>CIQC</i>	509968	0006817 // phosphate transport // inferred from electronic annotation	2.21E-10	3.95	Up
Dickkopf homolog 1 (<i>Xenopus laevis</i>)	<i>DKK1</i>	504445	---	6.43E-08	3.95	Up
lectin, galactoside-binding, soluble, 9 (galectin 9)	<i>LGALS9</i>	510813	---	1.09E-11	3.97	Up
Pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 4	<i>PLEKHA4</i>	510748	---	2.12E-09	3.99	Up
histocompatibility complex, class II, DQ alpha, type 1	<i>BOLA-DQAI</i>	282534	0002504 // antigen processing and presentation of peptide or polysaccharide antigen via MHC class II // inferred from electronic annotation /// 0006955 // immune response // inferred from electronic annotation /// 0019882 // antigen processing and present	0.008907	4.01	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
uroplakin 1B	<i>UPK1B</i>	282113	0030855 // epithelial cell differentiation // inferred from electronic annotation	0.008398	4.01	Up
arginase, type II	<i>ARG2</i>	518752	0000050 // urea cycle // inferred from electronic annotation /// 0006525 // arginine metabolic process // inferred from electronic annotation /// 0006527 // arginine catabolic process // inferred from electronic annotation /// 0006941 // striated muscle c	3.11E-07	4.02	Up
TRIM6-TRIM34	<i>TRIM6-TRIM34</i>	539820	---	6.03E-14	4.03	Up
tumor necrosis factor receptor superfamily, member 13B	<i>TNFRSF13B</i>	617948	---	2.21E-09	4.03	Up
damage-regulated autophagy modulator	<i>DRAM</i>	533992	---	7.60E-13	4.10	Up
oncostatin M receptor	<i>OSMR</i>	514720	---	1.21E-05	4.18	Up
cytochrome P450, family 26, subfamily A, polypeptide 1	<i>CYP26A1</i>	539047	0055114 // oxidation reduction // inferred from electronic annotation	0.002529	4.22	Up
adenosine deaminase, RNA-specific	<i>ADAR</i>	505134	0006396 // RNA processing // inferred from electronic annotation	6.89E-17	4.24	Up
regulator of G-protein signaling 16	<i>RGS16</i>	282035	0009968 // negative regulation of signal transduction // inferred from electronic annotation	2.72E-10	4.26	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
hematopoietic SH2 domain containing	<i>HSH2D</i>	510693	---	1.41E-06	4.31	Up
similar to hexokinase II	<i>LOC614107</i>	614107	0006096 // glycolysis // inferred from electronic annotation	2.43E-16	4.36	Up
similar to Sialic acid binding Ig-like lectin 5	<i>LOC512863</i>	512863	---	7.85E-06	4.42	Up
shisa homolog 5 (<i>Xenopus laevis</i>)	<i>SHISA5</i>	616861	0006915 // apoptosis // inferred from electronic annotation	1.57E-15	4.42	Up
tudor domain containing 7	<i>TDRD7</i>	506702	---	4.56E-16	4.46	Up
histocompatibility complex, class II, DQ alpha, type 1	<i>BOLA-DQA1</i>	282534	0002504 // antigen processing and presentation of peptide or polysaccharide antigen via MHC class II // inferred from electronic annotation /// 0006955 // immune response // inferred from electronic annotation /// 0019882 // antigen processing and present	0.006714	4.46	Up
Similar to guanylate binding protein 1	<i>LOC511531</i>	511531	---	1.21E-06	4.47	Up
CD86 molecule	<i>CD86</i>	414345	---	9.26E-09	4.48	Up
transmembrane protein 140	<i>TMEM140</i>	515475	---	3.88E-12	4.50	Up
caspase 4, apoptosis-related cysteine peptidase	<i>CASP4</i>	338039	0006508 // proteolysis // inferred from electronic annotation /// 0006915 // apoptosis // inferred from electronic	9.77E-14	4.53	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			annotation /// 0006917 // induction of apoptosis // traceable author statement /// 0042981 // regulation of apoptosis // inferred from elect			
ataxin 3	<i>ATXN3</i>	790880	---	1.47E-12	4.55	Up
caspase 4, apoptosis-related cysteine peptidase	<i>CASP4</i>	338039	0006508 // proteolysis // inferred from electronic annotation /// 0006915 // apoptosis // inferred from electronic annotation /// 0006917 // induction of apoptosis // traceable author statement /// 0042981 // regulation of apoptosis // inferred from elect	1.01E-15	4.61	Up
meprin A, beta	<i>MEP1B</i>	540701	0006508 // proteolysis // inferred from electronic annotation	1.94E-07	4.62	Up
similar to TLH29 protein precursor	<i>ISG12(B)</i>	617420	---	6.28E-06	4.67	Up
SP140 nuclear body protein	<i>SP140</i>	510377	---	6.41E-16	4.70	Up
tripartite motif-containing 6	<i>TRIM6</i>	616948	0016567 // protein ubiquitination // inferred from electronic annotation	1.77E-13	4.71	Up
unc-93 homolog A (C. elegans)	<i>UNC93A</i>	613535	---	2.30E-07	4.75	Up
interferon-induced protein with tetratricopeptide repeats 5	<i>IFIT5</i>	515091	---	1.78E-14	4.75	Up
CAMP responsive element modulator	<i>CREM</i>	540605	0006350 // transcription // inferred from electronic annotation /// 0006355 // regulation of transcription,	1.27E-10	4.76	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			DNA-dependent // inferred from electronic annotation			
poly (ADP-ribose) polymerase family, member 9	<i>PARP9</i>	510532	---	1.35E-16	4.78	Up
dopa decarboxylase (aromatic L-amino acid decarboxylase)	<i>DDC</i>	280762	0006519 // amino acid and derivative metabolic process // inferred from electronic annotation /// 0019752 // carboxylic acid metabolic process // inferred from electronic annotation /// 0042423 // catecholamine biosynthetic process // inferred from electr	1.55E-06	4.80	Up
crystallin, alpha B	<i>CRYAB</i>	281719	0006916 // anti-apoptosis // inferred from electronic annotation /// 0006916 // anti-apoptosis // inferred from sequence or structural similarity /// 0032387 // negative regulation of intracellular transport // inferred from electronic annotation /// 0032	4.46E-12	4.81	Up
nuclear localized factor 1	<i>NLF1</i>	529849	---	1.54E-07	4.87	Up
solute carrier family 15 (oligopeptide transporter), member 1	<i>SLC15A1</i>	521181	0006857 // oligopeptide transport // inferred from electronic annotation	1.83E-05	4.94	Up
similar to KIAA0342 protein	<i>LOC509859</i>	509859	---	1.22E-13	5.10	Up
pyrophosphatase (inorganic) 1	<i>PPAI</i>	280701	0006796 // phosphate metabolic process // inferred from electronic	1.10E-17	5.22	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			annotation			
poly (ADP-ribose) polymerase family, member 12	<i>PARP12</i>	513185	---	4.02E-15	5.23	Up
unc-45 homolog B (C. elegans)	<i>UNC45B</i>	535385	---	4.35E-09	5.23	Up
activating transcription factor 3	<i>ATF3</i>	515266	0006350 // transcription // inferred from electronic annotation /// 0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation	8.93E-10	5.29	Up
Fc fragment of IgG, high affinity Ia, receptor (CD64)	<i>FCGR1A</i>	282227	---	9.36E-14	5.32	Up
BCL2-like 12 (proline rich)	<i>BCL2L12</i>	533338	---	9.62E-13	5.36	Up
macrophage stimulating 1 receptor (c-met-related tyrosine kinase)	<i>MST1R</i>	525504	0006468 // protein amino acid phosphorylation // inferred from electronic annotation /// 0007275 // multicellular organismal development // inferred from electronic annotation	6.85E-12	5.44	Up
NLR family, CARD domain containing 5	<i>NLRC5</i>	782441	---	6.05E-10	5.47	Up
similar to Sialic acid binding Ig-like lectin 5 /// sialic acid binding Ig-like lectin 14	<i>LOC51286</i> <i>3</i> /// <i>SIGLEC14</i>	512863 /// 614923	---	2.86E-05	5.47	Up
tryptophanyl-tRNA synthetase /// similar to WARS protein	<i>LOC79004</i> <i>2</i> /// <i>WARS</i>	281576 ///	0006412 // translation // inferred from electronic annotation /// 0006418 // tRNA aminoacylation for protein	4.34E-08	5.51	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
		790042	translation // inferred from electronic annotation /// 0006436 // tryptophanyl-tRNA aminoacylation // inferred from electronic annotation			
deoxyribonuclease I-like 3	<i>DNASE1L3</i>	512512	0006308 // DNA catabolic process // inferred from electronic annotation	1.98E-07	5.55	Up
dickkopf homolog 1 (Xenopus laevis)	<i>DKK1</i>	504445	0007275 // multicellular organismal development // inferred from electronic annotation /// 0030178 // negative regulation of Wnt receptor signaling pathway // inferred from electronic annotation	7.45E-09	5.61	Up
Minichromosome maintenance complex component 10	<i>MCM10</i>	527595	---	0.000108	5.67	Up
Pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 4	<i>PLEKHA4</i>	510748	---	1.08E-09	5.73	Up
signal transducer and activator of transcription 2, 113kDa	<i>STAT2</i>	511023	---	4.20E-17	5.75	Up
hypothetical LOC512949 /// hypothetical protein LOC789693	<i>LOC512949</i> /// <i>LOC789693</i>	512949 /// 789693	---	5.28E-11	5.77	Up
BCL2-like 15	<i>BCL2L15</i>	509786	0006915 // apoptosis // inferred from electronic annotation	7.98E-11	5.81	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
similar to putative ISG12(a) protein	<i>ISG12(A)</i>	507138	0015992 // proton transport // inferred from electronic annotation	1.50E-10	5.85	Up
Rho GTPase activating protein 15	<i>ARHGAP15</i>	616246	0007165 // signal transduction // inferred from electronic annotation	9.90E-08	5.89	Up
chemokine (C-C motif) receptor 7	<i>CCR7</i>	510668	0007165 // signal transduction // inferred from electronic annotation /// 0007186 // G-protein coupled receptor protein signaling pathway // inferred from electronic annotation	1.73E-06	6.05	Up
solute carrier family 16, member 1 (monocarboxylic acid transporter 1)	<i>SLC16A1</i>	505775	0006810 // transport // inferred from electronic annotation /// 0015711 // organic anion transport // inferred from electronic annotation	3.55E-09	6.08	Up
pyridoxal (pyridoxine, vitamin B6) kinase	<i>PDXK</i>	514168	0008615 // pyridoxine biosynthetic process // inferred from electronic annotation	2.22E-07	6.15	Up
abhydrolase domain containing 1	<i>ABHD1</i>	510774	---	4.57E-14	6.22	Up
arachidonate 5-lipoxygenase-activating protein	<i>ALOX5AP</i>	613869	0006691 // leukotriene metabolic process // inferred from electronic annotation /// 0019370 // leukotriene biosynthetic process // inferred from electronic annotation	2.73E-10	6.27	Up
Forkhead box S1	<i>FOXS1</i>	540142	0006350 // transcription // inferred from electronic annotation /// 0006355 // regulation of transcription,	5.05E-17	6.36	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			DNA-dependent // inferred from electronic annotation			
guanylate binding protein 4	<i>GBP4</i>	613313	0006955 // immune response // inferred from electronic annotation	1.32E-08	6.45	Up
interferon induced with helicase C domain 1	<i>IFIH1</i>	535490	0042981 // regulation of apoptosis // inferred from electronic annotation	6.85E-13	6.56	Up
similar to OTTHUMP00000017061	<i>LOC616136</i>	616136	---	2.73E-11	6.61	Up
interferon regulatory factor 9	<i>IRF9</i>	509855	0006350 // transcription // inferred from electronic annotation /// 0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation	5.30E-14	6.63	Up
S100 calcium binding protein A12 (calgranulin C)	<i>S100A12</i>	282467	---	1.63E-08	6.67	Up
hypothetical LOC510382	<i>LOC510382</i>	510382	---	0.000939	6.74	Up
interferon, alpha-inducible protein 6	<i>IFI6</i>	512913	0001836 // release of cytochrome c from mitochondria // inferred from sequence or structural similarity /// 0006916 // anti-apoptosis // inferred from sequence or structural similarity /// 0043154 // negative regulation of caspase activity // inferred fro	8.22E-15	6.91	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
guanylate binding protein 5	<i>GBP5</i>	516949	0006955 // immune response // inferred from electronic annotation	1.63E-08	6.95	Up
hypothetical LOC506759	<i>LOC506759</i>	506759	---	4.31E-17	7.19	Up
glycosylphosphatidylinositol specific phospholipase D1	<i>GPLD1</i>	287025	0006507 // GPI anchor release // inferred from electronic annotation	4.18E-06	7.39	Up
interferon induced with helicase C domain 1	<i>IFIH1</i>	535490	0042981 // regulation of apoptosis // inferred from electronic annotation	1.01E-08	7.48	Up
similar to Interferon-induced guanylate-binding protein 1 (GTP-binding protein 1) (Guanine nucleotide-binding protein 1) (HuGBP-1)	<i>LOC512486</i>	512486	0006955 // immune response // inferred from electronic annotation	4.01E-11	7.58	Up
polyribonucleotide nucleotidyltransferase 1	<i>PNPT1</i>	508877	0005975 // carbohydrate metabolic process // inferred from electronic annotation /// 0006396 // RNA processing // inferred from electronic annotation /// 0006402 // mRNA catabolic process // inferred from electronic annotation	2.12E-19	7.71	Up
Guanylate binding protein 5	<i>GBP5</i>	516949	0006955 // immune response // inferred from electronic annotation	3.91E-08	7.73	Up
protein associated with topoisomerase II homolog 1 (yeast)	<i>PATL1</i>	537453	---	4.43E-11	7.74	Up
hypothetical protein LOC783855	<i>MGC14317</i>	783855	---	1.20E-10	7.79	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
	0					
eukaryotic translation initiation factor 2-alpha kinase 2	<i>EIF2AK2</i>	347700	0006468 // protein amino acid phosphorylation // inferred from electronic annotation	1.44E-09	7.84	Up
shisa homolog 2 (<i>Xenopus laevis</i>)	<i>SHISA2</i>	617336	0007275 // multicellular organismal development // inferred from electronic annotation	7.54E-06	7.89	Up
zinc finger, NFX1-type containing 1	<i>ZNFX1</i>	539807	---	1.21E-15	8.03	Up
tumor necrosis factor (ligand) superfamily, member 13b	<i>TNFSF13B</i>	504507	0006955 // immune response // inferred from electronic annotation	3.04E-11	8.20	Up
hypothetical protein LOC787376	<i>LOC787376</i>	787376	---	9.63E-15	8.28	Up
pentraxin-related gene, rapidly induced by IL-1 beta	<i>PTX3</i>	541148	---	1.44E-09	8.32	Up
placenta-specific 8	<i>PLAC8</i>	767910	---	5.55E-14	8.53	Up
trophoblast Kunitz domain protein 1	<i>TKDPI</i>	404076	---	0.00918	8.60	Up
tumor necrosis factor (ligand) superfamily, member 13b	<i>TNFSF13B</i>	504507	0006955 // immune response // inferred from electronic annotation	3.06E-13	8.61	Up
transmembrane protein 140	<i>TMEM140</i>	515475	---	1.61E-10	8.65	Up
poly (ADP-ribose) polymerase family, member 14	<i>PARP14</i>	540789	---	4.02E-15	8.76	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
myxovirus (influenza virus) resistance 1, interferon-inducible protein p78 (mouse)	<i>MX1</i>	280872	0009615 // response to virus // inferred from electronic annotation	1.77E-11	9.04	Up
hypothetical LOC524159	<i>LOC524159</i>	524159	---	1.58E-14	9.06	Up
abhydrolase domain containing 1	<i>ABHD1</i>	510774	---	3.52E-10	9.25	Up
XIAP associated factor 1	<i>XAF1</i>	509740	0006915 // apoptosis // inferred from electronic annotation /// 0007049 // cell cycle // inferred from electronic annotation /// 0045786 // negative regulation of cell cycle // inferred from electronic annotation	7.70E-16	9.51	Up
poly (ADP-ribose) polymerase family, member 12	<i>PARP12</i>	513185	---	5.50E-15	9.58	Up
receptor (chemosensory) transporter protein 4	<i>RTP4</i>	532442	---	1.41E-12	9.75	Up
Similar to hook1 protein	<i>LOC785042</i>	785042	0000226 // microtubule cytoskeleton organization and biogenesis // inferred from electronic annotation	2.68E-13	9.84	Up
uterine milk protein precursor	<i>LOC286871</i>	286871	0007565 // female pregnancy // inferred from electronic annotation	7.19E-07	10.11	Up
pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 4	<i>PLEKHA4</i>	510748	---	2.89E-16	10.29	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
Poly (ADP-ribose) polymerase family, member 12	<i>PARP12</i>	513185	---	3.87E-11	10.31	Up
shisa homolog 3 (<i>Xenopus laevis</i>)	<i>SHISA3</i>	781091	---	2.62E-08	10.39	Up
mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase, isozyme A	<i>MGAT4A</i>	282276	0005975 // carbohydrate metabolic process // inferred from electronic annotation	4.77E-11	10.68	Up
RNA helicase LGP2	<i>LGP2</i>	508378	---	4.61E-14	10.72	Up
transmembrane protein 40	<i>TMEM40</i>	505490	---	6.29E-06	11.01	Up
ring finger protein 213	<i>RNF213</i>	509283	---	1.64E-11	11.14	Up
keratin 17	<i>KRT17</i>	281889	---	3.50E-09	11.27	Up
arachidonate 12-lipoxygenase	<i>ALOX12</i>	407169	0006691 // leukotriene metabolic process // inferred from electronic annotation /// 0006916 // anti-apoptosis // inferred from sequence or structural similarity /// 0008284 // positive regulation of cell proliferation // inferred from sequence or structur	8.58E-12	11.35	Up
trophoblast protein-1 /// similar to interferon tau	<i>LOC618974</i> /// <i>LOC782273</i> /// <i>TP-1</i>	317698 /// 618974 /// 782273	0006952 // defense response // inferred from electronic annotation /// 0007565 // female pregnancy // inferred from electronic annotation /// 0009615 // response to virus // inferred from electronic annotation	0.003234	11.35	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
chemokine (C-X-C motif) ligand 10	<i>CXCL10</i>	615107	0006935 // chemotaxis // inferred from electronic annotation /// 0006954 // inflammatory response // inferred from electronic annotation /// 0006955 // immune response // inferred from electronic annotation	3.05E-10	11.55	Up
Hypothetical protein LOC781418	<i>LOC781418</i>	781418	---	6.76E-15	11.96	Up
zinc finger, NFX1-type containing 1	<i>ZNFX1</i>	539807	0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation	1.94E-13	12.22	Up
interferon induced transmembrane protein 5	<i>IFITM5</i>	526461	0009607 // response to biotic stimulus // inferred from electronic annotation	3.90E-13	13.25	Up
uterine milk protein precursor	<i>LOC286871</i>	286871	0007565 // female pregnancy // inferred from electronic annotation	2.29E-07	13.33	Up
guanylate binding protein 5	<i>GBP5</i>	516949	0006955 // immune response // inferred from electronic annotation	3.52E-10	13.35	Up
receptor (chemosensory) transporter protein 4	<i>RTP4</i>	532442	---	1.08E-11	13.40	Up
three prime repair exonuclease 1	<i>TREX1</i>	282099	0006281 // DNA repair // inferred from electronic annotation /// 0006974 // response to DNA damage stimulus // inferred from electronic annotation	1.65E-13	13.63	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
complement component 2	<i>C2</i>	515440	0006508 // proteolysis // inferred from electronic annotation /// 0006955 // immune response // inferred from electronic annotation /// 0006956 // complement activation // inferred from electronic annotation /// 0006958 // complement activation, classical	4.73E-11	13.79	Up
similar to CG33196-PB /// similar to Extracellular proteinase inhibitor	<i>LOC515676</i> /// <i>LOC787253</i>	515676 /// 787253	---	2.72E-06	13.80	Up
poly (ADP-ribose) polymerase family, member 12	<i>PARP12</i>	513185	---	5.04E-10	13.83	Up
major histocompatibility complex, class II, DQ alpha 2	<i>BOLA-DQA2</i>	282535	0002504 // antigen processing and presentation of peptide or polysaccharide antigen via MHC class II // inferred from electronic annotation /// 0006955 // immune response // inferred from electronic annotation /// 0019882 // antigen processing and present	0.008125	13.86	Up
DEAD (Asp-Glu-Ala-Asp) box polypeptide 58	<i>DDX58</i>	504760	---	2.27E-14	13.89	Up
ring finger protein 213	<i>RNF213</i>	509283	---	1.19E-11	13.94	Up
ubiquitin-like modifier activating enzyme	<i>UBA7</i>	497204	0006464 // protein modification	1.41E-13	13.96	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
7			process // inferred from electronic annotation /// 0006512 // ubiquitin cycle // inferred from electronic annotation /// 0008152 // metabolic process // inferred from electronic annotation			
placenta-specific 8	<i>PLAC8</i>	509228	---	3.36E-09	13.98	Up
receptor (chemosensory) transporter protein 4	<i>RTP4</i>	532442	---	2.59E-11	14.23	Up
2',5'-oligoadenylate synthetase 1, 40/46kDa	<i>OASI</i>	347699	0006955 // immune response // inferred from electronic annotation	3.03E-13	14.75	Up
crystallin, gamma S	<i>CRYGS</i>	281724	0002009 // morphogenesis of an epithelium // inferred from electronic annotation /// 0002088 // lens development in camera-type eye // inferred from electronic annotation	2.07E-08	14.80	Up
mixed lineage kinase domain-like	<i>MLKL</i>	790225	0006468 // protein amino acid phosphorylation // inferred from electronic annotation	8.44E-12	15.36	Up
interferon regulatory factor 7	<i>IRF7</i>	100125591	0006350 // transcription // inferred from electronic annotation /// 0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation /// 0006810 // transport // inferred from electronic annotation	6.74E-14	15.46	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
fructose-1,6-bisphosphatase 1	<i>FBP1</i>	513483	0005975 // carbohydrate metabolic process // inferred from electronic annotation /// 0006094 // gluconeogenesis // inferred from electronic annotation	5.64E-06	15.56	Up
Guanylate binding protein 5	<i>GBP5</i>	516949	0006955 // immune response // inferred from electronic annotation	1.92E-09	17.20	Up
T-cell immunoglobulin and mucin domain containing 4	<i>TIMD4</i>	507549	---	9.89E-13	17.59	Up
fibroblast growth factor-binding protein (FGF-BP) /// similar to fibroblast growth factor-binding protein	<i>LOC281812</i> /// <i>LOC783341</i> <i>1</i>	281812 /// 783341	---	7.52E-08	17.83	Up
indoleamine-pyrrole 2,3 dioxygenase	<i>INDO</i>	506281	---	1.80E-12	19.73	Up
ubiquitin specific peptidase 18	<i>USP18</i>	515202	0006511 // ubiquitin-dependent protein catabolic process // inferred from electronic annotation	1.64E-14	20.07	Up
Interferon-induced protein 44	<i>IFI44</i>	508348	---	1.49E-12	20.38	Up
sterile alpha motif domain containing 9	<i>SAMD9</i>	514205	---	5.36E-14	24.15	Up
ubiquitin specific peptidase 18	<i>USP18</i>	515202	0006511 // ubiquitin-dependent protein catabolic process // inferred from electronic annotation	1.62E-13	24.66	Up
interferon-induced protein 44	<i>IFI44</i>	508348	---	1.76E-12	25.03	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
fatty acid binding protein 3, muscle and heart (mammary-derived growth inhibitor)	<i>FABP3</i>	281758	0006656 // phosphatidylcholine biosynthetic process // inferred from electronic annotation /// 0006810 // transport // inferred from electronic annotation	3.16E-11	27.47	Up
Similar to lipopolysaccharide binding protein	<i>LOC51497</i> 8	514978	---	1.80E-20	27.62	Up
chemokine (C-C motif) ligand 8	<i>CCL8</i>	281044 /// 788169	0006935 // chemotaxis // inferred from electronic annotation /// 0006954 // inflammatory response // inferred from electronic annotation /// 0006955 // immune response // inferred from electronic annotation	3.38E-12	28.05	Up
sialic acid binding Ig-like lectin 1, sialoadhesin	<i>SIGLEC1</i>	539759	---	4.56E-20	30.09	Up
similar to lipopolysaccharide binding protein	<i>LOC51497</i> 8	514978	---	7.10E-19	31.25	Up
radical S-adenosyl methionine domain containing 2	<i>RSAD2</i>	506415	0009615 // response to virus // inferred from electronic annotation /// 0051607 // defense response to virus // inferred from sequence or structural similarity	1.59E-10	31.91	Up
interferon-induced protein 44 /// hypothetical protein LOC790424	<i>IFI44</i> /// <i>LOC79042</i> 4	508348 /// 790424	---	1.69E-12	33.15	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
ISG15 ubiquitin-like modifier	<i>ISG15</i>	281871	0006464 // protein modification process // inferred from electronic annotation /// 0006512 // ubiquitin cycle // inferred from electronic annotation /// 0009615 // response to virus // inferred from electronic annotation /// 0019941 // modification-depend	2.32E-11	33.54	Up
Similar to Interferon-induced protein 44-like	<i>LOC508347</i>	508347	---	5.60E-14	34.05	Up
interferon regulatory factor 7	<i>IRF7</i>	100125591	0006350 // transcription // inferred from electronic annotation /// 0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation /// 0006810 // transport // inferred from electronic annotation	2.37E-11	34.49	Up
peroxidasin homolog (Drosophila)	<i>PXDN</i>	515860	0006468 // protein amino acid phosphorylation // inferred from electronic annotation /// 0006979 // response to oxidative stress // inferred from electronic annotation /// 0007155 // cell adhesion // inferred from electronic annotation	9.44E-14	44.13	Up
Chromosome 11 open reading frame 34 ortholog	<i>H15C11ORF34</i>	505518	---	5.96E-13	44.63	Up
Similar to Bone marrow stromal cell	<i>LOC50740</i>	507402	---	2.79E-11	44.82	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
antigen 2	2					
interferon-induced protein 44	<i>IFI44</i>	508348	---	4.55E-11	50.01	Up
indoleamine-pyrrole 2,3 dioxygenase	<i>INDO</i>	506281	---	7.89E-12	64.46	Up
Similar to Bone marrow stromal cell antigen 2	<i>LOC50740</i> 2	507402	---	1.39E-10	69.36	Up
ubiquitin specific peptidase 18	<i>USP18</i>	515202	0006511 // ubiquitin-dependent protein catabolic process // inferred from electronic annotation	9.18E-12	79.24	Up
interferon-induced protein with tetratricopeptide repeats 2	<i>IFIT2</i>	527528	---	9.72E-13	84.14	Up
Ubiquitin specific peptidase 18	<i>USP18</i>	515202	0006511 // ubiquitin-dependent protein catabolic process // inferred from electronic annotation	2.07E-11	94.13	Up
interferon stimulated exonuclease gene 20kDa	<i>ISG20</i>	506604	---	2.35E-15	140.99	Up
myxovirus (influenza virus) resistance 2 (mouse)	<i>MX2</i>	280873	0009615 // response to virus // inferred from electronic annotation	5.45E-13	224.96	Up
C-type lectin domain family 4, member F	<i>CLEC4F</i>	511001	---	5.65E-23	404.60	Up
chromosome 11 open reading frame 34 ortholog	<i>C15H11OR</i> <i>F34</i>	505518	---	3.74E-15	417.90	Up