

Supplement 3. List of genes affected by lactation 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 lactation using the endometrium from non-lactating cows as the reference. (i.e. Down regulation means the endometrium from a non-lactating cow has a lower gene expression than the endometrium of a lactating cow)

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
retinyl ester hydrolase type 1	<i>BREH1</i>	497207	---	0.0028379	0.43	Down
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	0.002016	0.52	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	0.0068066	0.53	Down
carbonic anhydrase XI	<i>CA11</i>	326334	0006730 // one-carbon compound metabolic process // inferred from electronic annotation	0.000727	0.53	Down
hairy/enhancer-of-split related with YRPW motif-like	<i>HEYL</i>	538609	0006350 // transcription // inferred from electronic annotation /// 0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation /// 0007219 // Notch signaling pathway // inferred from electronic	0.0007698	0.56	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			annotation /// 0007275 // m			
cell growth regulator with EF-hand domain 1	<i>CGREF1</i>	507586	---	0.0001387	0.57	Down
MAS-related GPR, member F	<i>MRGPRF</i>	615886	0007186 // G-protein coupled receptor protein signaling pathway // inferred from electronic annotation	0.0030688	0.59	Down
transmembrane protein 88	<i>TMEM88</i>	507172	---	8.55E-06	0.59	Down
remodeling and spacing factor 1	<i>RSF1</i>	541248	---	0.0091683	0.59	Down
Dickkopf homolog 1 (Xenopus laevis)	<i>DKK1</i>	504445	---	0.0065874	0.60	Down
tenomodulin	<i>TNMD</i>	532034	---	0.0004339	0.60	Down
EGF-like-domain, multiple 8	<i>EGFL8</i>	782820	---	0.000844	0.61	Down
Fc fragment of IgG, low affinity IIb, receptor (CD32)	<i>FCGR2B</i>	282229	---	0.0007528	0.61	Down
chromosome 21 open reading frame 7 ortholog	<i>CIH21ORF7</i>	540879	---	0.0009234	0.63	Down
placental growth factor	<i>PGF</i>	280894	0001525 // angiogenesis // inferred from electronic annotation /// 0001658 // ureteric bud branching // inferred from electronic annotation /// 0007275 // multicellular organismal development // inferred from	0.0008491	0.63	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			electronic annotation /// 0008283 // cell prol			
calponin 1, basic, smooth muscle	<i>CNN1</i>	534583	0031032 // actomyosin structure organization and biogenesis // inferred from electronic annotation	0.0057248	0.63	Down
tenomodulin	<i>TNMD</i>	781292	---	0.0077429	0.64	Down
proline rich 15	<i>PRR15</i>	538952	---	0.000313	0.64	Down
transmembrane protein 100	<i>TMEM100</i>	613987	---	0.0023752	0.64	Down
hypothetical LOC515053	<i>LOC515053</i>	515053	---	0.0031781	0.66	Down
major facilitator superfamily domain containing 2	<i>MFSD2</i>	512633	---	0.0053781	0.66	Down
Coiled-coil-helix-coiled-coil-helix domain containing 6	<i>CHCHD6</i>	615934	---	0.0024265	0.68	Down
hemicentin 1	<i>HMCN1</i>	521326	---	0.006747	0.69	Down
epoxide hydrolase 1, microsomal (xenobiotic)	<i>EPHX1</i>	535293	0009636 // response to toxin // inferred from electronic annotation	0.0063922	0.70	Down
FLYWCH family member 2	<i>FLYWCH2</i>	618572	---	0.0002608	0.70	Down
carbonic anhydrase VB, mitochondrial	<i>CA5B</i>	514494	0006730 // one-carbon compound metabolic process // inferred from electronic annotation	0.0054674	0.70	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
tumor necrosis factor, alpha-induced protein 6	<i>TNFAIP6</i>	493710	0007155 // cell adhesion // inferred from electronic annotation	0.0001667	0.70	Down
microcephalin 1	<i>MCPH1</i>	100125236	---	0.0013684	0.71	Down
lectin, mannose-binding 2-like	<i>LMAN2L</i>	539289	0015031 // protein transport // inferred from electronic annotation	0.00377	0.72	Down
hypothetical LOC618094	<i>LOC618094</i>	618094	---	0.0005474	0.72	Down
folate receptor 2 (fetal)	<i>FOLR2</i>	507672	---	0.0036608	0.72	Down
phosphatidylethanolamine N-methyltransferase	<i>PEMT</i>	360197	0006644 // phospholipid metabolic process // inferred from electronic annotation /// 0008654 // phospholipid biosynthetic process // inferred from electronic annotation	0.0050417	0.72	Down
dimethylglycine dehydrogenase	<i>DMGDH</i>	504453	---	0.0062243	0.72	Down
fasciculation and elongation protein zeta 1 (zygin I)	<i>FEZ1</i>	511751	---	0.0082663	0.72	Down
S100 calcium binding protein A4	<i>S100A4</i>	282343	---	0.0010621	0.72	Down
similar to B0432.9	<i>LOC505636</i>	505636	---	0.0009182	0.73	Down
similar to nonclathrin coat	<i>LOC616222</i>	616222	---	0.0012836	0.73	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
protein zeta-COP						
Fc fragment of IgG, low affinity IIIa, receptor (CD16a)	<i>FCGR3A</i>	281766	---	0.0013428	0.73	Down
BEX family member 5	<i>BEX5</i>	516056	---	0.0023283	0.73	Down
similar to RP5-860F19.3	<i>LOC506470</i>	506470	---	0.0010319	0.73	Down
chromosome 12 open reading frame 57 ortholog	<i>C5H12ORF57</i>	511545	---	0.000367	0.74	Down
sideroflexin 3	<i>SFXN3</i>	511755	0006812 // cation transport // inferred from electronic annotation	0.0068119	0.74	Down
XTP3-transactivated protein A	<i>XTP3TPA</i>	614103	---	0.0049676	0.75	Down
homeodomain interacting protein kinase 1	<i>HIPK1</i>	512233	0006468 // protein amino acid phosphorylation // inferred from electronic annotation	0.0020695	0.75	Down
CDNA clone IMAGE:8067330	---	---	---	0.0009851	0.75	Down
similar to OB-cadherin-1 /// cadherin 11, type 2, OB-cadherin (osteoblast)	<i>CDH11</i> /// <i>LOC535363</i>	535363 /// 785475	0007155 // cell adhesion // inferred from electronic annotation /// 0007156 // homophilic cell adhesion // inferred from electronic annotation	0.0041965	0.75	Down
GRP1 (general receptor for phosphoinositides 1)-	<i>GRASP</i>	507181	---	0.0060476	0.76	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
associated scaffold protein						
LATS, large tumor suppressor, homolog 2 (Drosophila)	<i>LATS2</i>	508208	0006468 // protein amino acid phosphorylation // inferred from electronic annotation /// 0008152 // metabolic process // inferred from electronic annotation	0.0031044	0.76	Down
potassium channel tetramerisation domain containing 11	<i>KCTD11</i>	539167	0001558 // regulation of cell growth // inferred from electronic annotation /// 0006813 // potassium ion transport // inferred from electronic annotation /// 0007049 // cell cycle // inferred from electronic annotation /// 0007275 // multicellular organis	0.0041659	0.76	Down
kallikrein 1	<i>KLK1</i>	493738	0006508 // proteolysis // inferred from electronic annotation	0.0066673	0.76	Down
similar to RCL	<i>LOC613560</i>	613560	---	0.0058554	0.77	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	0.0001244	0.77	Down
hypothetical protein LOC783163	<i>LOC783163</i>	783163	---	0.0057849	0.78	Down
potassium intermediate/small conductance calcium-activated channel, subfamily N, member 2	<i>KCNN2</i>	404177	0006813 // potassium ion transport // inferred from electronic annotation	0.0098628	0.78	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
tubulin, beta 6	<i>TUBB6</i>	534206	0007017 // microtubule-based process // inferred from electronic annotation /// 0007018 // microtubule-based movement // inferred from electronic annotation /// 0051258 // protein polymerization // inferred from electronic annotation	0.0012553	0.78	Down
hypothetical protein MGC128424	<i>MGC128424</i>	767924	---	0.0058502	0.78	Down
similar to tigger transposable element derived 5	<i>LOC540422</i>	540422	---	0.0008992	0.79	Down
minichromosome maintenance complex component 5	<i>MCM5</i>	506970	0006260 // DNA replication // inferred from electronic annotation /// 0006270 // DNA replication initiation // inferred from electronic annotation /// 0006350 // transcription // inferred from electronic annotation /// 0006355 // regulation of transcripti	0.0052936	0.79	Down
brain expressed X-linked 2	<i>BEX2</i>	768028	---	0.0060616	0.79	Down
hypothetical LOC535329	<i>LOC535329</i>	535329	---	0.0052257	0.79	Down
doublecortin-like kinase 1	<i>DCLK1</i>	613449	0007242 // intracellular signaling cascade // inferred from electronic annotation	0.0072226	0.79	Down
mediator complex subunit 29	<i>MED29</i>	614626	0006350 // transcription // inferred from electronic annotation /// 0006355 // regulation of transcription, DNA-dependent // inferred from electronic	0.0025694	0.79	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			annotation			
Hypothetical protein LOC538173	<i>LOC538173</i>	538173	0005975 // carbohydrate metabolic process // inferred from electronic annotation /// 0008152 // metabolic process // inferred from electronic annotation	0.0077394	0.79	Down
Zinc finger protein 45	<i>ZNF45</i>	540342	0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation	0.0035491	0.79	Down
transmembrane protein 119	<i>TMEM119</i>	510926	---	0.0031039	0.80	Down
ATP-binding cassette, sub- family D (ALD), member 1	<i>ABCD1</i>	515178	0006810 // transport // inferred from electronic annotation	0.0071784	0.80	Down
tumor suppressing subtransferable candidate 4	<i>TSSC4</i>	509559	---	0.0043477	0.80	Down
mitochondrial ribosomal protein L48	<i>MRPL48</i>	615873	0006412 // translation // inferred from electronic annotation	0.0026401	0.81	Down
Family with sequence similarity 33, member A	<i>FAM33A</i>	615847	0007049 // cell cycle // inferred from electronic annotation /// 0007067 // mitosis // inferred from electronic annotation /// 0051301 // cell division // inferred from electronic annotation	0.0013308	0.81	Down
brain protein 44-like	<i>BRP44L</i>	767977	---	0.0044743	0.81	Down
similar to NAC-beta splice /// NLR family, pyrin domain	<i>LOC528166</i> /// <i>NLRP1</i>	528166 /// 790698	0006952 // defense response // inferred from electronic annotation	0.0013802	0.81	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
containing 1						
lectin, galactoside-binding, soluble, 1 (galectin 1)	<i>LGALS1</i>	326598	0043123 // positive regulation of I-kappaB kinase/NF-kappaB cascade // inferred from electronic annotation /// 0045445 // myoblast differentiation // inferred from electronic annotation	0.0009417	0.81	Down
Hypothetical LOC538666	<i>MGC139309</i>	538666	---	0.0037929	0.81	Down
Islet cell autoantigen 1, 69kDa	<i>ICA1</i>	535346	---	0.0055213	0.81	Down
Progestin and adipoQ receptor family member III	<i>PAQR3</i>	534876	---	0.0005713	0.82	Down
BCL2-associated athanogene 3	<i>BAG3</i>	782633	0006915 // apoptosis // inferred from electronic annotation	3.15E-05	0.82	Down
transglutaminase 2 (C polypeptide, protein-glutamine-gamma-glutamyltransferase)	<i>TGM2</i>	281528	0018149 // peptide cross-linking // inferred from electronic annotation	0.0084226	0.82	Down
DNL-type zinc finger	<i>DNLZ</i>	514124	0045449 // regulation of transcription // inferred from electronic annotation	0.0009163	0.82	Down
mediator complex subunit 11	<i>MED11</i>	511672	0006350 // transcription // inferred from electronic annotation /// 0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation	0.0062011	0.82	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
glyoxylate reductase/hydroxypyruvate reductase	<i>GRHPR</i>	504764	0008152 // metabolic process // inferred from electronic annotation	0.0071698	0.82	Down
KIAA0922-like	<i>LOC505156</i>	505156	---	0.0032555	0.82	Down
CDC28 protein kinase regulatory subunit 1B	<i>CKS1B</i>	615827	0007049 // cell cycle // inferred from electronic annotation /// 0051301 // cell division // inferred from electronic annotation	0.0055198	0.82	Down
chromosome 6 open reading frame 129 ortholog	<i>C23H6orf129</i>	507353	---	0.001545	0.82	Down
catechol-O-methyltransferase domain containing 1	<i>COMTD1</i>	514949	---	0.0090101	0.82	Down
nicolin 1	<i>NICN1</i>	614730	---	0.005362	0.82	Down
chromatin accessibility complex 1	<i>CHRAC1</i>	510942	---	0.0001791	0.83	Down
chromosome 6 open reading frame 145 ortholog /// hypothetical protein LOC782137	<i>C23H6orf145</i> /// <i>LOC782137</i>	613986 /// 782137	0007154 // cell communication // inferred from electronic annotation	0.0094924	0.83	Down
ribonuclease H2, subunit C	<i>RNASEH2C</i>	505618	---	0.0071696	0.83	Down
hydroxymethylbilane synthase	<i>HMBS</i>	515614	0006779 // porphyrin biosynthetic process // inferred from electronic annotation /// 0006783 // heme biosynthetic process //	0.0040218	0.83	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			inferred from electronic annotation /// 0033014 // tetrapyrrole biosynthetic process // inferred from electronic annotation			
mitochondrial ribosomal protein S26	<i>MRPS26</i>	516004	---	0.0031196	0.83	Down
hypothetical protein LOC613274	<i>LOC613274</i>	613274	---	0.0027544	0.83	Down
nucleosome assembly protein 1-like 5	<i>NAPIL5</i>	508508	0006334 // nucleosome assembly // inferred from electronic annotation	0.003815	0.84	Down
tetraspanin 6	<i>TSPAN6</i>	514741	---	0.0061109	0.84	Down
hypothetical LOC515954	<i>LOC515954</i>	515954	---	0.0036999	0.84	Down
coiled-coil domain containing 124	<i>CCDC124</i>	510778	---	0.0039946	0.84	Down
DnaJ (Hsp40) homolog, subfamily C, member 19	<i>DNAJC19</i>	513918	0006810 // transport // inferred from electronic annotation /// 0007601 // visual perception // inferred from electronic annotation /// 0015031 // protein transport // inferred from electronic annotation /// 0048806 // genitalia development // inferred fr	0.0033814	0.84	Down
four and a half LIM domains 3	<i>FHL3</i>	504795	---	0.0099134	0.84	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
peroxisomal biogenesis factor 11 gamma	<i>PEX11G</i>	506518	0016559 // peroxisome fission // inferred from electronic annotation	0.004637	0.84	Down
Zinc finger protein 22 (KOX 15)	<i>ZNF22</i>	768051	0006350 // transcription // inferred from electronic annotation /// 0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation	0.0065009	0.85	Down
nudix (nucleoside diphosphate linked moiety X)-type motif 22	<i>NUDT22</i>	533578	---	0.0054617	0.85	Down
calmodulin /// calmodulin 3 (phosphorylase kinase, delta)	<i>CALM3</i> /// <i>LOC407095</i>	407095 /// 520277	0007049 // cell cycle // inferred from electronic annotation /// 0043388 // positive regulation of DNA binding // inferred from electronic annotation	0.0067576	0.85	Down
MARVEL domain containing 1	<i>MARVELD1</i>	616867	---	0.0027277	0.85	Down
hypothetical LOC537248	<i>LOC537248</i>	537248	---	0.006393	0.85	Down
tumor suppressor candidate 1	<i>TUSC1</i>	539580	---	0.0079432	0.85	Down
hexamethylene bis-acetamide inducible 2	<i>HEXIM2</i>	614679	0006350 // transcription // inferred from electronic annotation /// 0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation	0.0092405	0.85	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
hypothetical protein LOC788974	<i>LOC788974</i>	788974	---	0.0085347	0.85	Down
family with sequence similarity 32, member A	<i>FAM32A</i>	508634	---	0.0077942	0.85	Down
COMM domain containing 4	<i>COMMD4</i>	616960	---	0.0066121	0.85	Down
potassium channel tetramerisation domain containing 10	<i>KCTD10</i>	540881	0006813 // potassium ion transport // inferred from electronic annotation	0.0004138	0.85	Down
MID1 interacting protein 1 (gastrulation specific G12 homolog (zebrafish))	<i>MID1IP1</i>	615572	---	0.0003568	0.85	Down
solute carrier family 35, member A4	<i>SLC35A4</i>	539354	0008643 // carbohydrate transport // inferred from electronic annotation	0.003682	0.85	Down
hypothetical LOC522040	<i>MGC143117</i>	522040	---	0.004216	0.85	Down
solute carrier family 39 (zinc transporter), member 13	<i>SLC39A13</i>	614946	0006810 // transport // inferred from electronic annotation /// 0006811 // ion transport // inferred from electronic annotation /// 0006829 // zinc ion transport // inferred from electronic annotation /// 0030001 // metal ion transport // inferred from el	0.0004623	0.85	Down
microtubule-actin crosslinking factor 1	<i>MACF1</i>	506730	0005975 // carbohydrate metabolic process // inferred from electronic annotation /// 0007050 // cell cycle arrest // inferred from	0.009649	0.85	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			electronic annotation			
nitrilase 1	<i>NITI</i>	504199	0006807 // nitrogen compound metabolic process // inferred from electronic annotation	0.0025702	0.85	Down
similar to MAK31-like protein	<i>MGC133554</i>	538931	0016071 // mRNA metabolic process // inferred from electronic annotation	0.0007782	0.86	Down
similar to PO-GA	<i>LOC514842</i>	514842	---	0.005563	0.86	Down
cirrhosis, autosomal recessive 1A (cirhin)	<i>CIRH1A</i>	510315	---	0.0084049	0.86	Down
SIVA1, apoptosis-inducing factor	<i>SIVA1</i>	617931	0043065 // positive regulation of apoptosis // inferred from electronic annotation	0.006834	0.86	Down
amyloid beta (A4) precursor protein-binding, family B, member 1 (Fe65)	<i>APBB1</i>	505096	---	0.0097578	0.86	Down
WD repeat domain 74	<i>WDR74</i>	505875	---	0.0029228	0.86	Down
WW domain binding protein 1	<i>WBPI</i>	509188	---	0.0010626	0.86	Down
Josephin domain containing 1	<i>JOSD1</i>	510781	---	0.0023964	0.86	Down
glutathione S-transferase pi	<i>GSTP1</i>	281806	0008152 // metabolic process // inferred from electronic annotation	0.0042726	0.86	Down
nudix (nucleoside diphosphate	<i>NUDT3</i>	618855	---	0.0037449	0.86	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
linked moiety X)-type motif 3						
SEC14-like 1 (<i>S. cerevisiae</i>)	<i>SEC14L1</i>	513449	0006418 // tRNA aminoacylation for protein translation // inferred from electronic annotation /// 0006810 // transport // inferred from electronic annotation	0.0064129	0.86	Down
RAB11 family interacting protein 5 (class I)	<i>RAB11FIP5</i>	535992	0008152 // metabolic process // inferred from electronic annotation	0.0099549	0.86	Down
Chromosome 3 open reading frame 60 ortholog	<i>C22H3orf60</i>	511968	---	0.0043558	0.87	Down
BTB (POZ) domain containing 10	<i>BTBD10</i>	505888	0006813 // potassium ion transport // inferred from electronic annotation	0.0028593	0.87	Down
mediator complex subunit 18	<i>MED18</i>	540695	0006350 // transcription // inferred from electronic annotation /// 0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation	0.0019681	0.87	Down
transaldolase 1	<i>TALDO1</i>	513453	0005975 // carbohydrate metabolic process // inferred from electronic annotation /// 0006098 // pentose-phosphate shunt // inferred from electronic annotation /// 0008152 // metabolic process // inferred from electronic annotation	0.0021399	0.87	Down
transaldolase 1	<i>TALDO1</i>	513453	0005975 // carbohydrate metabolic process // inferred from electronic annotation ///	0.0021399	0.87	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			0006098 // pentose-phosphate shunt // inferred from electronic annotation /// 0008152 // metabolic process // inferred from electronic annotation			
nuclear protein localization 4 homolog (<i>S. cerevisiae</i>)	<i>NPLOC4</i>	508519	---	0.0084807	0.87	Down
COP9 constitutive photomorphogenic homolog subunit 6 (<i>Arabidopsis</i>)	<i>COPS6</i>	512756	---	0.0033381	0.87	Down
flotillin 1	<i>FLOT1</i>	532573	---	0.0050366	0.87	Down
elaC homolog 1 (<i>E. coli</i>)	<i>ELAC1</i>	532568	0008033 // tRNA processing // inferred from electronic annotation	0.0031362	0.87	Down
clathrin, light polypeptide B (light chain B)	<i>CLTLB</i>	281698	0006461 // protein complex assembly // inferred from electronic annotation /// 0006886 // intracellular protein transport // inferred from electronic annotation /// 0016192 // vesicle-mediated transport // inferred from electronic annotation	0.0058922	0.87	Down
eukaryotic translation initiation factor 6	<i>EIF6</i>	286811	0006412 // translation // inferred from electronic annotation /// 0042256 // mature ribosome assembly // inferred from electronic annotation	0.006876	0.87	Down
chromosome 19 open reading frame 60 ortholog	<i>C7H19orf60</i>	511085	---	0.0009588	0.87	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
ADP-ribosylation factor interacting protein 2 (arfaptin 2)	<i>ARFIP2</i>	514938	0030036 // actin cytoskeleton organization and biogenesis // inferred from electronic annotation	0.0009393	0.88	Down
NDRG family member 3	<i>NDRG3</i>	514399	---	0.0006719	0.88	Down
suppressor of Ty 4 homolog 1 (<i>S. cerevisiae</i>)	<i>SUPT4H1</i>	616425	0000122 // negative regulation of transcription from RNA polymerase II promoter // inferred from electronic annotation /// 0006350 // transcription // inferred from electronic annotation /// 0006355 // regulation of transcription, DNA-dependent // inferre	0.0094645	0.88	Down
chromosome 3 open reading frame 10 ortholog	<i>C22H3ORF10</i>	540092	---	0.007623	0.88	Down
copper metabolism (Murr1) domain containing 1	<i>COMMD1</i>	534683	---	0.0072733	0.88	Down
chromosome 16 open reading frame 75 ortholog	<i>C25H16ORF75</i>	615553	---	0.0099042	0.88	Down
family with sequence similarity 125, member A	<i>FAM125A</i>	507199	---	0.0069884	0.88	Down
small nuclear ribonucleoprotein polypeptide N	<i>SNRPN</i>	780877	0016071 // mRNA metabolic process // inferred from electronic annotation	0.0066329	0.88	Down
peptidylprolyl isomerase	<i>PPIL1</i>	508179	0006397 // mRNA processing // inferred from electronic annotation /// 0006457 //	0.0028891	0.89	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
(cyclophilin)-like 1			protein folding // inferred from electronic annotation /// 0008380 // RNA splicing // inferred from electronic annotation			
HCLS1 associated protein X-1	<i>HAX1</i>	506895	---	0.0064032	0.89	Down
myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, <i>Drosophila</i>); translocated to, 1	<i>MLLT1</i>	504458	0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation	0.0090453	0.89	Down
RGP1 retrograde golgi transport homolog (<i>S. cerevisiae</i>)	<i>RGP1</i>	539393	---	0.0014906	0.89	Down
presenilin enhancer 2 homolog (<i>C. elegans</i>)	<i>PSENE2</i>	493993	0006509 // membrane protein ectodomain proteolysis // inferred from electronic annotation /// 0007219 // Notch signaling pathway // inferred from electronic annotation /// 0016485 // protein processing // inferred from electronic annotation /// 0043085 //	0.0035875	0.89	Down
CDC42 effector protein (Rho GTPase binding) 4	<i>CDC42EP4</i>	540152	---	0.0018496	0.89	Down
hypothetical LOC506622	<i>MGC138908</i>	506622	---	0.0060929	0.89	Down
COMM domain containing 5	<i>COMMD5</i>	504807	---	0.0096013	0.89	Down
similar to	<i>LOC616324</i>	616324	---	0.0062124	0.89	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
OTTHUMP00000022229						
NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 10, 22kDa	<i>NDUFB10</i>	327701	0006810 // transport // inferred from electronic annotation /// 0055114 // oxidation reduction // inferred from electronic annotation	0.0011604	0.89	Down
nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor-like 1	<i>NFKBIL1</i>	514369	---	0.004722	0.90	Down
ribose 5-phosphate isomerase A (ribose 5-phosphate epimerase)	<i>RPIA</i>	613376	0009052 // pentose-phosphate shunt, non-oxidative branch // inferred from electronic annotation	0.0080445	0.90	Down
hypothetical protein LOC777786	<i>LOC777786</i>	777786	---	0.0078997	0.90	Down
mitochondrial NADH:ubiquinone oxidoreductase ESSS subunit	<i>ESSS</i>	404161	0006810 // transport // inferred from electronic annotation /// 0055114 // oxidation reduction // inferred from electronic annotation	0.0092196	0.90	Down
synovial sarcoma translocation gene on chromosome 18-like 2	<i>SS18L2</i>	618689	---	0.0039869	0.90	Down
transmembrane protein 185A	<i>TMEM185A</i>	526189	---	0.004727	0.90	Down
chromosome 17 open reading frame 81 ortholog	<i>C19H17ORF81</i>	512976	---	0.0021741	0.90	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
deoxynucleotidyltransferase, terminal, interacting protein 1	<i>DNTTIP1</i>	505524	---	0.0056551	0.90	Down
PDZ and LIM domain 4	<i>PDLIM4</i>	515410	---	0.0099966	0.90	Down
Hypothetical LOC507045	<i>LOC507045</i>	507045	---	0.0038383	0.91	Down
canopy 2 homolog (zebrafish)	<i>CNPY2</i>	506534	---	0.007249	0.91	Down
archaelysin family metalloproteinase 2	<i>AMZ2</i>	515126	---	0.0074735	0.91	Down
protein disulfide isomerase family A, member 2 /// Rho GDP dissociation inhibitor (GDI) gamma	<i>ARHGDIG</i> /// <i>PDIA2</i>	504356 /// 613745	0045454 // cell redox homeostasis // inferred from electronic annotation	0.0073757	0.91	Down
neural precursor cell expressed, developmentally down-regulated 8	<i>NEDD8</i>	286796	0000723 // telomere maintenance // inferred from electronic annotation /// 0006357 // regulation of transcription from RNA polymerase II promoter // inferred from sequence or structural similarity /// 0006464 // protein modification process // inferred fr	0.0075676	0.91	Down
exosome component 1	<i>EXOSC1</i>	506018	---	0.0092675	0.91	Down
cerebrum and skeletal muscle specific transcript 1	<i>LOC618598</i>	618598	---	0.0065798	0.91	Down
RNA binding motif protein	<i>RBM15B</i>	508868	0045449 // regulation of transcription //	0.0004059	0.91	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
15B			inferred from electronic annotation			
ATPase, H ⁺ transporting, lysosomal 14kDa, V1 subunit F	<i>ATP6V1F</i>	282405	0006810 // transport // inferred from electronic annotation /// 0006811 // ion transport // inferred from electronic annotation /// 0015986 // ATP synthesis coupled proton transport // inferred from electronic annotation /// 0015992 // proton transport //	0.0098168	0.91	Down
emerin (Emery-Dreifuss muscular dystrophy)	<i>EMD</i>	399681	---	0.0092171	0.91	Down
DnaJ (Hsp40) homolog, subfamily C, member 8	<i>DNAJC8</i>	614259	---	0.0074882	0.91	Down
TRM112-like	<i>TRM112L</i>	507833	---	0.0050655	0.92	Down
small nuclear RNA activating complex, polypeptide 2, 45kDa	<i>SNAPC2</i>	516078	---	0.0008313	0.92	Down
lactate dehydrogenase B	<i>LDHB</i>	281275	0005975 // carbohydrate metabolic process // inferred from electronic annotation /// 0006096 // glycolysis // inferred from electronic annotation /// 0008152 // metabolic process // inferred from electronic annotation /// 0019642 // anaerobic glycolysis /	0.0014626	0.92	Down
similar to leucine-rich-domain inter-acting protein 1; LeR	<i>LOC515042</i>	515042	0006355 // regulation of transcription, DNA-dependent // inferred from electronic	0.0083649	0.94	Down

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
inter-acting protein 1; LEAP1			annotation			
similar to Serine/arginine repetitive matrix protein 2	<i>LOC534002</i>	534002	---	0.0067539	1.09	Up
adaptor-related protein complex 3, delta 1 subunit	<i>AP3D1</i>	281023	0006461 // protein complex assembly // inferred from electronic annotation /// 0006810 // transport // inferred from electronic annotation /// 0006886 // intracellular protein transport // inferred from electronic annotation /// 0015031 // protein transpo	0.0067291	1.09	Up
suppression of tumorigenicity 13 (colon carcinoma) (Hsp70 interacting protein)	<i>ST13</i>	510494	0006950 // response to stress // inferred from electronic annotation	0.0003793	1.09	Up
similar to LBP-1a=transcription factor binding to initiation site of HIV-1 {alternatively spliced}	<i>LOC785419</i>	785419	---	0.0069641	1.09	Up
ariadne homolog, ubiquitin-conjugating enzyme E2 binding protein, 1 (Drosophila)	<i>ARIH1</i>	508410	0006512 // ubiquitin cycle // inferred from electronic annotation	0.0037756	1.09	Up
pumilio homolog 2 (Drosophila)	<i>PUM2</i>	540170	---	0.0035776	1.09	Up
ubiquitin specific peptidase like 1	<i>USPL1</i>	788351	0006418 // tRNA aminoacylation for protein translation // inferred from	0.0060813	1.10	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			electronic annotation			
zinc finger, FYVE domain containing 26	<i>ZFYVE26</i>	514402	---	0.0038088	1.10	Up
lipin 3	<i>LPIN3</i>	521637	---	0.0064708	1.10	Up
eukaryotic translation initiation factor 4E nuclear import factor 1	<i>EIF4ENIF1</i>	514108	---	0.0046419	1.10	Up
R3H domain containing 2	<i>R3HDM2</i>	613499	---	0.0067453	1.11	Up
NEDD4 binding protein 2-like 2	<i>N4BP2L2</i>	541201	---	0.0005451	1.11	Up
similar to KIAA0753	<i>LOC512933</i>	512933	---	0.0065387	1.12	Up
fragile X mental retardation, autosomal homolog 1	<i>FXR1</i>	536793	0007275 // multicellular organismal development // inferred from electronic annotation /// 0007519 // skeletal muscle development // inferred from electronic annotation /// 0030154 // cell differentiation // inferred from electronic annotation	0.003359	1.13	Up
Outer dense fiber of sperm tails 2	<i>ODF2</i>	539043	0007275 // multicellular organismal development // inferred from electronic annotation /// 0007283 // spermatogenesis // inferred from electronic annotation /// 0030154 // cell differentiation // inferred from electronic annotation	0.0045919	1.13	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
ATPase, Ca ⁺⁺ transporting, cardiac muscle, slow twitch 2	<i>ATP2A2</i>	540568	0006810 // transport // inferred from electronic annotation /// 0006812 // cation transport // inferred from electronic annotation /// 0008152 // metabolic process // inferred from electronic annotation	0.0059845	1.13	Up
heat shock 70kDa protein 4	<i>HSPA4</i>	536558	---	0.0056599	1.14	Up
protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 2	<i>PCMTD2</i>	505807	0006464 // protein modification process // inferred from electronic annotation	0.0013967	1.14	Up
Bardet-Biedl syndrome 4	<i>BBS4</i>	532120	0051297 // centrosome organization and biogenesis // inferred from sequence or structural similarity	0.0039836	1.15	Up
transmembrane protein 167	<i>TMEM167</i>	613669	---	0.0081252	1.15	Up
Fc fragment of IgG, receptor, transporter, alpha	<i>FCGRT</i>	338062	0006955 // immune response // inferred from electronic annotation /// 0019882 // antigen processing and presentation // inferred from electronic annotation	0.0099525	1.16	Up
Rho guanine nucleotide exchange factor (GEF) 11	<i>ARHGEF11</i>	511220	0007242 // intracellular signaling cascade // inferred from electronic annotation /// 0035023 // regulation of Rho protein signal transduction // inferred from electronic annotation	0.0063696	1.16	Up
DnaJ (Hsp40) homolog,	<i>DNAJB6</i>	282215	0006457 // protein folding // inferred from	0.0044137	1.17	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
subfamily B, member 6			electronic annotation			
Alstrom syndrome 1	<i>ALMS1</i>	533055	---	0.003775	1.17	Up
eukaryotic translation initiation factor 2C, 3	<i>EIF2C3</i>	406231	---	0.0076284	1.17	Up
SH3 domain containing, Ysc84-like 1 (<i>S. cerevisiae</i>)	<i>SH3YLI</i>	534337	---	0.006273	1.17	Up
Similar to Nesprin-2 (Nuclear envelope spectrin repeat protein 2) (Syne-2) (Synaptic nuclear envelope protein 2) (Nucleus and actin connecting element protein) (Protein NUANCE)	<i>LOC540504</i>	540504	---	0.0074571	1.18	Up
A kinase (PRKA) anchor protein (yotiao) 9	<i>AKAP9</i>	520784	0008152 // metabolic process // inferred from electronic annotation	0.0029126	1.18	Up
centrosome and spindle pole associated protein 1	<i>CSPP1</i>	524180	---	0.0060966	1.19	Up
kinase insert domain receptor (a type III receptor tyrosine kinase)	<i>KDR</i>	407170	0006468 // protein amino acid phosphorylation // inferred from electronic annotation /// 0007169 // transmembrane receptor protein tyrosine kinase signaling pathway // inferred from electronic annotation	0.0084445	1.19	Up
similar to carboxypeptidase D	<i>LOC532189</i>	532189	---	0.0002176	1.19	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
Bardet-Biedl syndrome 5	<i>BBS5</i>	528191	---	0.008851	1.19	Up
pericentriolar material 1	<i>PCM1</i>	525337	---	0.0071336	1.19	Up
NEDD4 binding protein 2-like 1	<i>N4BP2L1</i>	616069	---	0.0050615	1.20	Up
GRAM domain containing 1C	<i>GRAMD1C</i>	505581	---	0.0033702	1.20	Up
ganglioside induced differentiation associated protein 2	<i>GDAP2</i>	508774	---	0.0038183	1.20	Up
transmembrane 4 L six family member 1	<i>TM4SF1</i>	533038	---	0.0091551	1.21	Up
eukaryotic translation initiation factor 2C, 2 /// similar to EIF2C2 protein	<i>EIF2C2</i> /// <i>LOC618754</i>	404130 /// 618754	0006412 // translation // inferred from electronic annotation /// 0031047 // gene silencing by RNA // inferred from electronic annotation	0.002324	1.22	Up
eukaryotic translation initiation factor 2C, 2 /// similar to EIF2C2 protein	<i>EIF2C2</i> /// <i>LOC618754</i>	404130 /// 618754	0006412 // translation // inferred from electronic annotation /// 0031047 // gene silencing by RNA // inferred from electronic annotation	0.002324	1.22	Up
Mediator complex subunit 25	<i>MED25</i>	533865	0006350 // transcription // inferred from electronic annotation /// 0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation	0.0085425	1.22	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
WNK lysine deficient protein kinase 1	<i>WNK1</i>	506433	---	0.0001584	1.22	Up
similar to Signal peptide peptidase-like 2A	<i>LOC530325</i>	530325	---	0.006624	1.22	Up
solute carrier family 1 (neutral amino acid transporter), member 5	<i>SLCIA5</i>	282355	0006810 // transport // inferred from electronic annotation /// 0006835 // dicarboxylic acid transport // inferred from electronic annotation	0.0084736	1.22	Up
human immunodeficiency virus type I enhancer binding protein 1	<i>HIVEP1</i>	529115	---	0.0084901	1.22	Up
Zinc finger, DHHC-type containing 23	<i>ZDHHC23</i>	512177	---	0.006518	1.22	Up
zinc finger protein 192	<i>ZNF192</i>	511794	0006350 // transcription // inferred from electronic annotation /// 0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation	0.0078616	1.23	Up
Rabaptin, RAB GTPase binding effector protein 2	<i>RABEP2</i>	511736	---	0.0023603	1.23	Up
nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta	<i>NFKBIZ</i>	282713	0006350 // transcription // inferred from electronic annotation /// 0006355 // regulation of transcription, DNA-dependent // inferred from electronic	0.0035535	1.23	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			annotation			
neuroplastin	<i>NPTN</i>	540039	---	0.0035179	1.24	Up
similar to SEC14 and spectrin domains 1 /// SEC14 and spectrin domains 1	<i>LOC512176</i> /// <i>SESTD1</i>	512176 /// 789054	---	0.0075638	1.24	Up
dihydrofolate reductase	<i>DHFR</i>	508809	0006545 // glycine biosynthetic process // inferred from electronic annotation /// 0006730 // one-carbon compound metabolic process // inferred from electronic annotation /// 0009165 // nucleotide biosynthetic process // inferred from electronic annotation	0.0084086	1.25	Up
eukaryotic translation initiation factor 2-alpha kinase 3	<i>EIF2AK3</i>	535820	0006468 // protein amino acid phosphorylation // inferred from electronic annotation	0.0025297	1.25	Up
Poly(A) polymerase gamma	<i>PAPOLG</i>	529071	0006350 // transcription // inferred from electronic annotation /// 0031123 // RNA 3'-end processing // inferred from electronic annotation /// 0043631 // RNA polyadenylation // inferred from electronic annotation	0.0017401	1.26	Up
suppressor of cytokine signaling 2	<i>SOCS2</i>	338437	0001558 // regulation of cell growth // inferred from electronic annotation /// 0006512 // ubiquitin cycle // inferred from electronic annotation /// 0007242 // intracellular signaling cascade // inferred	0.0043459	1.26	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
			from electronic annotation /// 0009968 // negative			
Similar to sperm associated antigen 1	<i>LOC530104</i>	530104	---	0.0031703	1.26	Up
kinesin family member 27	<i>KIF27</i>	536335	---	0.0064639	1.27	Up
Rho-guanine nucleotide exchange factor	<i>LOC616969</i>	616969	0007242 // intracellular signaling cascade // inferred from electronic annotation /// 0035023 // regulation of Rho protein signal transduction // inferred from electronic annotation	0.0082533	1.27	Up
Ubiquitin fusion degradation 1 like	<i>UFD1L</i>	507124	0006511 // ubiquitin-dependent protein catabolic process // inferred from electronic annotation	0.0042013	1.28	Up
Transmembrane BAX inhibitor motif containing 4	<i>TMBIM4</i>	513242	---	0.0010393	1.28	Up
serine/threonine protein kinase MST4	<i>MST4</i>	539445	0006468 // protein amino acid phosphorylation // inferred from electronic annotation	0.0030619	1.30	Up
eukaryotic translation initiation factor 4E family member 3	<i>EIF4E3</i>	616906	0006412 // translation // inferred from electronic annotation /// 0006413 // translational initiation // inferred from electronic annotation	0.0098587	1.32	Up
similar to carnitine O-palmitoyltransferase	<i>LOC506812</i>	506812	---	0.0017725	1.34	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
SLAIN motif family, member 2	<i>SLAIN2</i>	534203	---	0.0067929	1.36	Up
angiopoietin-like 4	<i>ANGPTL4</i>	509963	0001525 // angiogenesis // inferred from electronic annotation /// 0007165 // signal transduction // inferred from electronic annotation /// 0007275 // multicellular organismal development // inferred from electronic annotation /// 0030154 // cell differe	0.0090494	1.37	Up
PAN3 polyA specific ribonuclease subunit homolog (<i>S. cerevisiae</i>)	<i>PAN3</i>	519743	0006468 // protein amino acid phosphorylation // inferred from electronic annotation	0.0042416	1.38	Up
Rho guanine nucleotide exchange factor (GEF) 3	<i>ARHGEF3</i>	782247	0007242 // intracellular signaling cascade // inferred from electronic annotation /// 0035023 // regulation of Rho protein signal transduction // inferred from electronic annotation	0.0001497	1.41	Up
sperm specific antigen 2	<i>SSFA2</i>	538826	---	0.0051964	1.42	Up
RAS guanyl releasing protein 1 (calcium and DAG-regulated)	<i>RASGRP1</i>	533125	0051056 // regulation of small GTPase mediated signal transduction // inferred from electronic annotation	0.0063476	1.43	Up
breast carcinoma amplified sequence 1	<i>BCAS1</i>	504895	---	0.0063474	1.45	Up
malate dehydrogenase 1B,	<i>MDH1B</i>	527943	0005975 // carbohydrate metabolic process // inferred from electronic annotation ///	0.0067785	1.46	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
NAD (soluble)			0006099 // tricarboxylic acid cycle // inferred from electronic annotation /// 0006108 // malate metabolic process // inferred from electronic annotation /// 0008152 // m			
hypothetical protein LOC784592	<i>LOC784592</i>	784592	---	0.0022122	1.48	Up
hydroxysteroid dehydrogenase like 2	<i>HSDL2</i>	404131	0008152 // metabolic process // inferred from electronic annotation	0.0006974	1.49	Up
pyruvate dehydrogenase kinase, isozyme 4	<i>PK4</i>	507367	0007165 // signal transduction // inferred from electronic annotation /// 0018106 // peptidyl-histidine phosphorylation // inferred from electronic annotation	0.0033818	1.51	Up
aquaporin 4	<i>AQP4</i>	281008	0006810 // transport // inferred from electronic annotation	0.0065753	1.56	Up
tubulointerstitial nephritis antigen-like 1	<i>TINAGL1</i>	509642	0006508 // proteolysis // inferred from electronic annotation /// 0006810 // transport // inferred from electronic annotation	0.009497	1.56	Up
renal tumor antigen	<i>RAGE</i>	616277	0006468 // protein amino acid phosphorylation // inferred from electronic annotation	0.0097608	1.63	Up
IQ motif containing with AAA domain	<i>IQCA</i>	618101	---	0.0074774	1.63	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
SIX homeobox 1	<i>SIX1</i>	511371	0006355 // regulation of transcription, DNA-dependent // inferred from electronic annotation /// 0045449 // regulation of transcription // inferred from electronic annotation	0.0004177	1.75	Up
coiled-coil domain containing 39	<i>CCDC39</i>	534432	---	0.0038289	1.79	Up
similar to axonemal dynein heavy chain DNAH5	<i>LOC783755</i>	783755	---	0.0077247	1.82	Up
IQ motif containing with AAA domain /// similar to IQ motif containing with AAA domain	<i>IQCA</i> /// <i>LOC787378</i>	618116 /// 787378	---	0.0083615	1.85	Up
WD repeat domain 16	<i>WDR16</i>	505885	---	0.0077216	1.85	Up
roporin 1-like	<i>ROPNIL</i>	515565	0007165 // signal transduction // inferred from electronic annotation	0.0080679	1.85	Up
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	0.0012126	2.04	Up
T-cell receptor delta chain	<i>TRD@</i>	404176	---	0.0006777	2.07	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
similar to hydrocephalus inducing /// hydrocephalus inducing homolog (mouse)	<i>HYDIN</i> /// <i>LOC504406</i>	504406 /// 532419	---	0.0021916	2.13	Up
T-cell receptor delta chain	<i>TRD@</i>	404176	---	0.000896	2.48	Up
potassium channel regulator	<i>KCNRG</i>	404166	0006813 // potassium ion transport // inferred from electronic annotation	0.0063194	2.72	Up
immunoglobulin light chain, lambda gene cluster /// immunoglobulin lambda-like polypeptide 1	<i>IGL@</i> /// <i>IPLL1</i>	505478 /// 789205	---	0.0018442	4.33	Up
immunoglobulin heavy constant gamma 1	<i>IGHG1</i>	281850	---	0.0015763	4.54	Up
immunoglobulin heavy constant gamma 1	<i>IGHG1</i>	281850	---	0.0004982	5.07	Up
IgG2a heavy chain constant region	<i>IgCgamma</i>	404109	---	0.000702	5.28	Up
immunoglobulin heavy constant gamma 1	<i>IGHG1</i>	281850	---	0.0002951	7.83	Up
Glutathione-S-transferase (GST) specific immunoglobulin light chain variable region (partial), anti-GST IgVL1	***	---	---	0.0027767	8.20	Up

Gene Title	Gene Symbol	Entrez Gene	Putative Function	P-value	Fold Effect	Regulation
Ig kappa chain	<i>IGK</i>	506890	---	0.0006477	9.68	Up
immunoglobulin light chain VJ region	<i>LOC404062</i>	404062	---	0.0003958	12.49	Up