

Table S1. Full list of differentially transcribed genes. F0 vs. F12 generation of *Daphnia magna* are compared: a) clean medium (Clean/Control) (73 up-regulated and 62 down-regulated genes), and b) carbendazim (CBZ) (119 up-regulated and 87 down-regulated genes). Up-regulation was considered whenever the fold change was higher than 1.5, whereas down-regulation was considered whenever the fold change was below -1.5. The arrows refer to up- (↑) or down-regulated (↓) genes.

a) F0 vs. F12 Clean medium

Gene ID	Gene description [species]	Clean (Fold change)
AAV34845	ribosomal protein L34 [<i>Bombyx mori</i> (domestic silkworm)]	↑ 16.29
EAA07972	MMSA_ANOGA AGAP002499-PA [<i>Anopheles gambiae</i> str. PEST]	↑ 13.23
XP_392882	calcyphosin-like protein-like [<i>Apis mellifera</i> (honey bee)]	↑ 12.78
AAF86906	triose phosphate/phosphate translocator precursor [<i>Mesembryanthemum crystallinum</i>]	↑ 12.51
AAQ22478	PlexB Plexin B [<i>Drosophila melanogaster</i> (fruit fly)]	↑ 11.79
NP_652184	oxidase. Probable cytochrome c oxidase subunit 7A, mitochondrial [<i>Drosophila melanogaster</i>]	↑ 11.62
AAV91371	hypothetical protein 3 [<i>Lonomia obliqua</i>]	↑ 11.45
CAE56378	Hypothetical protein CBG24057 [<i>Caenorhabditis briggsae</i>]	↑ 10.48
XP_700569	PREDICTED: similar to alpha-2-macroglobulin receptor [<i>Danio rerio</i>]	↑ 10.43
XP_393411	ubiquitin-conjugating enzyme E2 variant 2-like [<i>Apis mellifera</i> (honey bee)]	↑ 9.78
XP_797717	Golgi SNAP receptor complex member 1 [<i>Strongylocentrotus purpuratus</i> (purple sea urchin)]	↑ 9.72
AAV63979	cathepsin L1 precursor [<i>Artemia parthenogenetica</i>]	↑ 9.63
XP_605435	PREDICTED: similar to exophilin 5 [<i>Bos taurus</i>]	↑ 9.62
XP_392758	S-phase kinase-associated protein 1 [<i>Apis mellifera</i> (honey bee)]	↑ 9.54
AAC05908	cytochrome oxidase subunit II [<i>Pieris rapae</i>]	↑ 9.14
EAR94332	hypothetical protein THERM_00049470 [<i>Tetrahymena thermophila</i>]	↑ 9.11
EAT38914	AAEL009235-PA [<i>Aedes aegypti</i> (yellow fever mosquito)]	↑ 9.02
XP_968978	PREDICTED: similar to intracellular membrane-associated calcium-independent phospholipase A2 gamma [<i>Tribolium castaneum</i>]	↑ 9.01
XP_001072503	PREDICTED: similar to putative MAPK activating protein PM20,PM21 isoform 1 [<i>Rattus norvegicus</i>]	↑ 8.75
DAA04586	TPA: TPA_inf: RTN3-A2 [<i>Oncorhynchus mykiss</i>]	↑ 8.19
XP_757724	G-protein coupled receptor [<i>Ustilago maydis</i>]	↑ 7.92
AAI16802	melanoma antigen family B, 18 [<i>Mus musculus</i> (house mouse)]	↑ 7.89
ZP_01120123	hypothetical protein RB2501_07115 [<i>Robiginitalea biformata</i>]	↑ 7.81
NP_571006	solute carrier family 39 (zinc transporter), member 7 [<i>Danio rerio</i>]	↑ 7.81
XP_623241	growth hormone-inducible transmembrane protein-like [<i>Apis mellifera</i> (honey bee)]	↑ 7.78
BAB21109	elongation factor 1 delta [<i>Bombyx mori</i> (domestic silkworm)]	↑ 7.72
AAM44044	ferritin 2 [<i>Apriona germari</i>]	↑ 7.64
XP_967422	DNA replication licensing factor Mcm7 [<i>Tribolium castaneum</i> (red flour beetle)]	↑ 7.32
ABD19264	cytochrome b [<i>Daphnia pulex</i>]	↑ 7.32
AAL27467	TRL10 [human herpesvirus 5]	↑ 7.02
XP_534308	immunoglobulin receptor superfamily, protein phosphatase, immunoglobulin superfamily cell adhesion molecule [<i>Canis familiaris</i>]	↑ 6.98
CAG08737	unnamed protein product [<i>Tetraodon nigroviridis</i>]	↑ 6.66
XP_756287	family/subfamily: TRNA-DIHYDROURIDINE(16/17) SYNTHASE [NAD(P)(+)]-LIKE (PTHR11082:SF5) [<i>Ustilago maydis</i>]	↑ 6.64
CAF89999	unnamed protein product [<i>Tetraodon nigroviridis</i>]	↑ 6.53
AAC28351	cytochrome P450 [<i>Homarus americanus</i>]	↑ 6.40
NP_648180	CG13675-PA [<i>Drosophila melanogaster</i>]	↑ 6.31
AAS93718	CG30022 [<i>Drosophila melanogaster</i> (fruit fly)]	↑ 6.17
BAD32189	Nup160 nucleoporin 160 [<i>Mus musculus</i> (house mouse)]	↑ 6.13
XP_455853	hypothetical protein [<i>Kluyveromyces lactis</i>]	↑ 5.93
NP_503838	G-protein coupled receptor. [<i>Caenorhabditis elegans</i>]	↑ 5.77
CAJ19121	vitellogenin receptor [<i>Blattella germanica</i>]	↑ 5.54
ZP_01117305	Zebrafish DNA sequence from clone CH211-69O18 in linkage group 16, complete sequence	↑ 5.53

XP_394275	nucleolar GTP-binding 1-like protein [<i>Apis mellifera</i> (honey bee)]	↑ 5.35
EAA08205	AGAP002490-PA [<i>Anopheles gambiae</i>]	↑ 5.28
CAG01996	unnamed protein product [<i>Tetraodon nigroviridis</i>]	↑ 5.23
Gene ID	Gene description [species]	Clean (Fold change)
AAH18737	brain protein I3 [<i>Homo sapiens</i> (human)]	↑ 5.09
AAH62838	hydroxysteroid dehydrogenase like 2 [<i>Danio rerio</i> (zebrafish)]	↑ 5.03
CAG01937	unnamed protein product [<i>Tetraodon nigroviridis</i>]	↑ 5.02
XP_973337	homocysteine-responsive endoplasmic reticulum-resident ubiquitin-like domain member 2 protein [<i>Tribolium castaneum</i> (red flour beetle)]	↑ 4.85
EAA05974	ribosomal protein S3a [<i>Tribolium castaneum</i> (red flour beetle)]	↑ 4.72
CAG05006	unnamed protein product [<i>Tetraodon nigroviridis</i>]	↑ 4.70
XP_966633	histone deacetylase Rpd3 [<i>Tribolium castaneum</i> (red flour beetle)].	↑ 4.54
CAJ02875	hypothetical protein [<i>Leishmania major</i>]	↑ 4.40
AAM09808	Sec31p [<i>Yarrowia lipolytica</i>]	↑ 4.10
ZP_01231398	hypothetical protein CdifQ_02001672 [<i>Clostridium difficile</i>]	↑ 4.06
XP_360078	predicted protein [<i>Magnaporthe grisea</i>]	↑ 3.97
XP_953782	TA16735 hypothetical protein [<i>Theileria annulata</i>]	↑ 3.89
XP_827581	hypothetical protein [<i>Trypanosoma brucei brucei</i>]	↑ 3.82
ABA25160	transposase [<i>Anabaena variabilis</i>]	↑ 3.47
YP_511438	FAD dependent oxidoreductase [<i>Jannaschia</i> sp.]	↑ 3.47
EAR85282	phospholipid-translocating P-type ATPase, flippase family protein [<i>Tetrahymena thermophila</i>]	↑ 3.35
XP_973543	polypeptide N-acetylgalactosaminyltransferase 5 [<i>Tribolium castaneum</i> (red flour beetle)]	↑ 3.21
XP_623167	PREDICTED: similar to ENSANGP00000026584 [<i>Apis mellifera</i>]	↑ 3.16
XP_972276	dolichyl pyrophosphate Man9GlcNAc2 alpha-1,3-glucosyltransferase [<i>Tribolium castaneum</i> (red flour beetle)]	↑ 3.15
EAT43025	AAEL005513-PA [<i>Aedes aegypti</i> (yellow fever mosquito)]	↑ 2.97
CAF23258	hypothetical protein [<i>Candidatus Protochlamydia amoebophila</i>]	↑ 2.90
AAX55746	low mass masquerade-like protein [<i>Pacifastacus leniusculus</i>]	↑ 2.62
EAA04645	AGAP007365-PA [<i>Anopheles gambiae</i>]	↑ 2.61
XP_855127	PREDICTED: hypothetical protein XP_850034 [<i>Canis familiaris</i>]	↑ 2.51
YP_547797	hypothetical protein [<i>Polaromonas</i> sp.]	↑ 2.26
AAM12270	GH12942p [<i>Drosophila melanogaster</i>]	↑ 1.93
EAL28826	Dpse\GA19957 [<i>Drosophila pseudoobscura pseudoobscura</i>]	↑ 1.85
XP_393169	beta-catenin-like protein 1-like [<i>Apis mellifera</i> (honey bee)]	↑ 1.76

Gene ID	Gene description [species]	Clean (Fold change)
AAH77956	dymeclin [<i>Xenopus laevis</i> (African clawed frog)]	↓ -1.97
XP_001071588	PREDICTED: similar to keratin associated protein 10-10 isoform 1 [<i>Rattus norvegicus</i>]	↓ -2.04
XP_688421	PREDICTED: similar to peroxisomal biogenesis factor 14 [<i>Danio rerio</i>]	↓ -2.24
AAZ75599	CRISP-ENH2 [<i>Enhydra polylepis</i>]	↓ -2.41
AAK52091	Cth cystathionine gamma-lyase [<i>Rattus norvegicus</i> (Norway rat)]	↓ -2.48
XP_813347	UDP-glucuronosyl and UDP-glucosyl transferase [<i>Trypanosoma cruzi</i>]	↓ -2.53
XP_644052	thioredoxin peroxidase [<i>Dictyostelium discoideum</i> AX4]	↓ -2.57
EAA04524	AGAP007120-PA [<i>Anopheles gambiae</i> str. PEST]	↓ -2.60
NP_200066	family/subfamily: Dentin sialophosphoprotein-related protein [<i>Arabidopsis thaliana</i>]	↓ -2.67
XP_640534	GMP synthetase [<i>Dictyostelium discoideum</i>]	↓ -2.91
CAE73165	Hypothetical protein CBG20561 [<i>Caenorhabditis briggsae</i>]	↓ -3.05
XP_799186	similar to Angiotensin-converting enzyme, testis-specific isoform precursor (ACE-T) (Dipeptidyl carboxypeptidase I) (Kininase II) [<i>Strongylocentrotus purpuratus</i> (purple sea urchin)]	↓ -3.16
XP_746198	hypothetical protein [<i>Plasmodium chabaudi chabaudi</i>]	↓ -3.17
CAC95124	TIR/NBS/LRR protein [<i>Populus deltoides</i>]	↓ -3.37
Q8WPJ2	FSU_1166 pseudo [<i>Fibrobacter succinogenes</i>]	↓ -3.41
ABD33303	hypothetical protein MtrDRAFT_AC158502g12v1 [<i>Medicago truncatula</i>]	↓ -3.76
AAL05973	peroxinectin [<i>Penaeus monodon</i>]	↓ -3.88
EAS35804	CIMG_Q01158 hypothetical protein [<i>Coccidioides immitis</i> RS]	↓ -4.36
XP_971851	PREDICTED: similar to NADH-ubiquinone oxidoreductase 42 kDa subunit,	↓ -4.53

	mitochondrial precursor (Complex I-42KD) (CI-42KD) [<i>Tribolium castaneum</i>]	
AAU18227	hypothetical protein [<i>Bacillus cereus</i>]	↓ -4.92
ABG63070	50S ribosomal protein L2 [<i>Chelativorans</i> sp.]	↓ -4.50
XP_765680	hypothetical protein TP01_0153 [<i>Theileria parva</i>]	↓ -6.88
XP_785823	PREDICTED: similar to dispatched homolog 1 [<i>Strongylocentrotus purpuratus</i>]	↓ -8.52
BAB95816	truncated hypothetical protein, similar to integrase [<i>Staphylococcus aureus</i>]	↓ -11.03
Gene ID	Gene description [species]	Clean (Fold change)
EAT48380	AAEL000585-PA [<i>Aedes aegypti</i> (yellow fever mosquito)]	↓ -15.29
XP_392710	vam6/Vps39-like protein-like [<i>Apis mellifera</i> (honey bee)]	↓ -21.04
AAT61403	prolyl oligopeptidase [<i>Bacillus thuringiensis</i>]	↓ -2187.35
CAG04404	unnamed protein product [<i>Tetraodon nigroviridis</i>]	↓ -5409.11
AAZ45366	Daro_0609 peptidase M23B [<i>Dechloromonas aromatica</i>]	↓ -9110.36
NP_922637	Os10g0550300 [<i>Oryza sativa Japonica Group</i>]	↓ -10936.32
AAH90827	protease, serine, 60.2 [<i>Danio rerio</i> (zebrafish)]	↓ -15512.09
XP_465194	putative speckle-type POZ protein [<i>Oryza sativa</i> (japonica cultivar-group)]	↓ -16218.71
CAJ28140	CD9 antigen [<i>Dasyatis akajei</i>]	↓ -18236.02
NP_014128	non-motor actin binding protein [<i>Saccharomyces cerevisiae</i>]	↓ -21296.16
BAE56654	unnamed protein product [<i>Aspergillus oryzae</i>]	↓ -24885.83
AAH74846	transmembrane protease, serine 3 [<i>Homo sapiens</i> (human)]	↓ -25489.30
AA54998	IP06749p [<i>Drosophila melanogaster</i>]	↓ -27711.51
P36308	Outer capsid protein VP4 (Hemagglutinin) [<i>Caenorhabditis elegans</i>]	↓ -28918.30
XP_624252	histone-lysine N-methyltransferase trr [<i>Apis mellifera</i> (honey bee)]	↓ -31266.20
CAG76660	ECA_RS18580 hypothetical protein [<i>Pectobacterium atrosepticum</i>]	↓ -33727.01
AAS53787	AGOS_AFR416C AFR416Cp [<i>Ashbya gossypii</i>]	↓ -37790.57
CAD51508	PFE0715w asparagine-tRNA ligase, putative [<i>Plasmodium falciparum</i> 3D7]	↓ -39926.89
ZP_00637578	hypothetical protein SfriDRAFT_3544 [<i>Shewanella frigidimarina</i>]	↓ -45161.62
AAM74161	Pax-6 protein [<i>Euprymna scolopes</i>]	↓ -46398.67
AAW88416	Serpentine receptor, class bc (class b-like) protein 36 [<i>Caenorhabditis elegans</i>]	↓ -53891.71
ABG52939	Tery_3906 hypothetical protein [<i>Trichodesmium erythraeum</i> IMS101]	↓ -60067.61
EAL26781	Dpse\GA20714 [<i>Drosophila pseudoobscura pseudoobscura</i>]	↓ -66170.96
EAR91277	transmembrane protein, putative [<i>Tetrahymena thermophila</i> SB210]	↓ -74204.27
NP_008814	NADH dehydrogenase subunit 6 [<i>Mustelus manazo</i> (starspotted smooth-hound)]	↓ -79749.44
XP_736601	hypothetical protein [<i>Plasmodium chabaudi chabaudi</i>]	↓ -82206.53
AAZ69264	MBAR_RS01565 hypothetical protein [<i>Methanosarcina barkeri</i>]	↓ -85847.78
ABG52453	Tery_3351 peptidase M23B [<i>Trichodesmium erythraeum</i>]	↓ -87307.18
XP_665805	hypothetical protein [<i>Cryptosporidium hominis</i>]	↓ -88792.28
AAH88813	lectin, galactoside-binding, soluble, 9B [<i>Xenopus (Silurana) tropicalis</i> (western clawed frog)]	↓ -114447.56
AAT64428	pMGA 1.4 [<i>Mycoplasma gallisepticum</i>] haemagglutinin homologue	↓ -114453.63
EAT40951	AAEL007376-PA [<i>Aedes aegypti</i> (yellow fever mosquito)]	↓ -119236.95
YP_476405	CYB_0141 hypothetical protein [<i>Synechococcus</i> sp. JA-2-3B'a(2-13)]	↓ -129500.50
CAA17132	putative protein [<i>Arabidopsis thaliana</i>]	↓ -137110.85
CAD67790	double stranded RNA-activated protein kinase 1 [<i>Tetraodon nigroviridis</i>]	↓ -147548.17
ZP_00370063	conserved hypothetical protein [<i>Campylobacter upsaliensis</i>]	↓ -151124.91
XP_827078	hypothetical protein [<i>Trypanosoma brucei brucei</i>]	↓ -171478.98
BAD94515	peroxisome proliferator-activated receptor gamma [<i>Oncorhynchus keta</i>]	↓ -194969.42

b) F0 vs. F12 carbendazim

Gene ID	Gene description [species]	CBZ (fold change)
XP_700169	PREDICTED: similar to conserved hypothetical protein [<i>Danio rerio</i>]	↑ 83178.68
ZP_01011697	outer membrane lipoprotein Blc [<i>Rhodobacterales bacterium</i>]	↑ 75647.24
XP_500810	SEC16, ISOFORM F; hypothetical protein [<i>Yarrowia lipolytica</i>]	↑ 65357.29
AAM51523	Hypothetical protein C28G1.6 [<i>Caenorhabditis elegans</i>]	↑ 38447.13
XP_765680	hypothetical protein TP01_0153 [<i>Theileria parva</i>]	↑ 16642.07
AAQ75727	NADH dehydrogenase I [<i>Errhonus variabilis</i>]	↑ 13302.91
XP_784306	PREDICTED: similar to placental protein 11 related [<i>Strongylocentrotus purpuratus</i>]	↑ 6822.25
AAN73266	polyprotein [Tick-borne encephalitis virus]	↑ 5696.41

AAH81106	MGC83377 protein [<i>Xenopus laevis</i>]; solute carrier family 5 (sodium/glucose cotransporter), member 2	↑14.93
CAD43195	disrupted in schizophrenia 1 protein [<i>Danio rerio</i>]	↑ 10.50
EAL25204	GA13016-PA [<i>Drosophila pseudoobscura</i>]	↑ 9.75
XP_829305	tyrosine phosphatase [<i>Trypanosoma brucei</i>]	↑ 8.79
AAK41879	Conserved hypothetical protein [<i>Sulfolobus solfataricus</i>]	↑ 8.10
ZP_00120785	COG2378: Predicted transcriptional regulator [<i>Bifidobacterium longum</i>]	↑ 7.77
XP_874527	PREDICTED: similar to keratin associated protein 10-7 [<i>Bos taurus</i>]	↑ 7.52
EAT35209	4-aminobutyrate aminotransferase [<i>Aedes aegypti</i>]	↑ 7.41
Gene ID	Gene description [species]	CBZ (fold change)
EAL28674	GA15521-PA [<i>Drosophila pseudoobscura</i>]	↑ 7.30
XP_971017	PREDICTED: zinc transporter ZIP11 isoform X2 [<i>Tribolium castaneum</i>]	↑ 7.15
XP_973490	PREDICTED: similar to CG2918-PA [<i>Tribolium castaneum</i>]; hypoxia up-regulated protein 1	↑ 7.07
NP_039078	Ankyrin repeat gene family protein [<i>Fowlpox virus</i>]	↑ 6.68
EAA10981	ENSANGP00000011510 [<i>Anopheles gambiae</i>]	↑ 6.51
CAA73128	Irp3 protein [<i>Yersinia enterocolitica</i>]	↑ 6.43
XP_974201	39S ribosomal protein L44, mitochondrial	↑ 6.20
AAV34884	ribosomal protein S27 [<i>Bombyx mori</i>]	↑ 6.12
XP_500452	hypothetical protein [<i>Yarrowia lipolytica</i>]	↑ 6.08
XP_421566	PREDICTED: similar to MAWD binding protein (Unknown protein 32 from 2D-page of liver tissue) [<i>Gallus gallus</i>]	↑ 5.74
EAT34816	glycine cleavage system h protein [<i>Aedes aegypti</i>]	↑ 5.60
AAC27659	tryptophan oxygenase [<i>Anopheles gambiae</i>]	↑ 5.22
XP_975769	cytochrome b-c1 complex subunit 2, mitochondrial [<i>Tribolium castaneum</i>]	↑ 5.13
ABF94587	Cystatin, putative [<i>Oryza sativa</i> (japonica cultivar-group)]	↑ 4.92
XP_974675	zinc transporter ZIP1 [<i>Tribolium castaneum</i>]	↑ 4.82
XP_361380	hypothetical protein MG03854.4 [<i>Magnaporthe grisea</i> 70-15]	↑ 4.74
AAT74669	cysteine-rich secreted protein 3 [<i>Mesocostoides vogae</i>]	↑ 4.64
XP_969056	ubiquitin carboxyl-terminal hydrolase 14 [<i>Tribolium castaneum</i> (red flour beetle)]	↑ 4.73
XP_966449	PREDICTED: similar to CG10092-PA [<i>Tribolium castaneum</i>]	↑ 4.72
EAT36570	alcohol dehydrogenase [<i>Aedes aegypti</i>]	↑ 4.72
EAR99683	Pre-mRNA cleavage complex II protein Clp1, putative; hypothetical protein THERM_00590200 [<i>Tetrahymena thermophila</i> SB210]	↑ 4.71
XP_001102209	PREDICTED: similar to Methylmalonyl-CoA epimerase, mitochondrial precursor (DL-methylmalonyl-CoA racemase) isoform 1 [<i>Macaca mulatta</i>]	↑ 4.68
AAZ14281	proteophosphoglycan 5 [<i>Leishmania</i> major strain Friedlin]	↑ 4.67
XP_809835	subtilisin-like serine peptidase [<i>Trypanosoma cruzi</i> strain CL Brener]	↑ 4.62
ABA02335	NADH dehydrogenase subunit 2 [<i>Daphnia magna</i>]	↑ 4.59
XP_797537	PREDICTED: similar to membrane protein mKirre [<i>Strongylocentrotus purpuratus</i>]	↑ 4.57
XP_967940	PREDICTED: similar to sideroflexin 2 [<i>Tribolium castaneum</i>]	↑ 4.57
ABF51294	NADPH-specific isocitrate dehydrogenase	↑ 4.51
YP_473323	ORF135 peptide [Hyphantria cunea nucleopolyhedrovirus]	↑ 4.51
EAS03884	Viral A-type inclusion protein repeat containing protein [<i>Tetrahymena thermophila</i>]	↑ 4.43
CAG31427	annexin A11	↑ 4.39
AAH90678	hypothetical protein [<i>Danio rerio</i>]	↑ 4.36
XP_646129	putative Nek family protein kinase [<i>Dictyostelium discoideum</i>]	↑ 4.31
XP_393344	PREDICTED: similar to hypothetical protein 18 [<i>Apis mellifera</i>]	↑ 4.27
CAC44629	deafness dystonia protein [<i>Takifugu rubripes</i>]	↑ 4.18
AAH95821	Snx9l protein; monooxygenase, DBH-like 1, like [<i>Danio rerio</i> (zebrafish)]	↑ 4.17
EAS36540	DNA polymerase epsilon catalytic subunit A [<i>Coccidioides immitis</i>]	↑ 4.10
AAR37644	molybdopterin-guanine dinucleotide biosynthesis protein [uncultured bacterium 439]	↑ 4.07
AAR04057	sulfatase FP1b [<i>Danio rerio</i>]	↑ 4.05
AAX24666	SJCHGC03634 protein [<i>Schistosoma japonicum</i>]	↑ 4.04
XP_392990	PREDICTED: similar to CG8385-PB, isoform B [<i>Apis mellifera</i>]	↑ 4.04
XP_397355	transmembrane protein 64-like [<i>Apis mellifera</i>]	↑ 3.99
AAS94231	legumain-like protease precursor [<i>Ixodes ricinus</i>]	↑ 3.97
BAC98829	F-box WD40 protein [<i>Labidochromis caeruleus</i>]	↑ 3.89
XP_791484	PREDICTED: similar to beta-1,4-mannosyltransferase, partial [<i>Strongylocentrotus purpuratus</i>]	↑ 3.84
XP_966285	DNA polymerase epsilon catalytic subunit A [<i>Plasmodium falciparum</i>]	↑ 3.83

BAB74771	alr3072 [<i>Nostoc</i> sp. PCC 7120]	↑ 3.81
XP_967132	PREDICTED: similar to CG6016-PB, isoform B isoform 1 [<i>Tribolium castaneum</i>]	↑ 3.81
XP_502986	hypothetical protein [<i>Yarrowia lipolytica</i>]	↑ 3.79
EAT45353	conserved hypothetical protein [<i>Aedes aegypti</i>]	↑ 3.78
ABA94886	Leucine Rich Repeat family protein, expressed [<i>Oryza sativa</i> (japonica cultivar-group)]	↑ 3.76
XP_001075301	PREDICTED: similar to CG13731-PA [<i>Rattus norvegicus</i>]	↑ 3.75
AAH77956	dymedlin [<i>Xenopus laevis</i> (African clawed frog)]	↑ 3.71
XP_623472	PREDICTED: similar to ENSANGP00000024947 [<i>Apis mellifera</i>]	↑ 3.68
XP_975592	programmed cell death protein 6 [<i>Tribolium castaneum</i> (red flour beetle)]; PREDICTED: similar to CG40410-PA.3 [<i>Tribolium castaneum</i>]	↑ 3.67
XP_829735	hypothetical protein Tb11.01.8530 [<i>Trypanosoma brucei</i> TREU927]	↑ 3.63
Gene ID	Gene description [species]	CBZ (fold change)
XP_541754	guanyl-nucleotide exchange factor [<i>Canis familiaris</i>]	↑ 3.58
XP_393519	PREDICTED: similar to fatty acid-biding protein [<i>Apis mellifera</i>]	↑ 3.56
XP_971885	PREDICTED: similar to CG9762-PA [<i>Tribolium castaneum</i>]	↑ 3.56
EAL34060	GA18149-PA [<i>Drosophila pseudoobscura</i>]	↑ 3.50
ZP_01103786	conserved hypothetical protein [gamma proteobacterium KT 71]	↑ 3.47
XP_541851	PREDICTED: similar to Stabilin-1 precursor (FEEL-1 protein) (MS-1 antigen) [<i>Canis familiaris</i>]	↑ 3.45
XP_393525	PREDICTED: similar to GA20008-PA [<i>Apis mellifera</i>]	↑ 3.44
AAH24612	basic transcription factor 3-like 4 [<i>Mus musculus</i> (house mouse)]	↑ 3.43
EAT40746	conserved hypothetical protein [<i>Aedes aegypti</i>]	↑ 3.37
XP_623417	PREDICTED: similar to ENSANGP00000021084 [<i>Apis mellifera</i>]	↑ 3.35
AAK25797	delta-9 desaturase 3 [<i>Acheta domesticus</i>]	↑ 3.31
CAJ17256	ribosomal protein L10Ae [<i>Biphyllus lunatus</i>]	↑ 3.25
AAH42230	Ribosomal protein S1a protein [<i>Xenopus laevis</i>]	↑ 3.23
ZP_01376161	hypothetical protein Ccur5_01001129 [<i>Campylobacter curvus</i> 525.92]	↑ 3.16
XP_001076360	PREDICTED: similar to retinoblastoma binding protein 6 isoform 1 isoform 2 [<i>Rattus norvegicus</i>]	↑ 3.16
XP_971417	ATP synthase mitochondrial F1 complex assembly factor 1 [<i>Tribolium castaneum</i> (red flour beetle)]	↑ 3.10
CAG00408	unnamed protein product [<i>Tetraodon nigroviridis</i>]	↑ 3.05
ZP_01029146	hypothetical protein Badol_01000893 [<i>Bifidobacterium adolescentis</i>]	↑ 2.99
XP_691505	PREDICTED: similar to obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF [<i>Danio rerio</i>]	↑ 2.98
CAE68115	Hypothetical protein CBG13758 [<i>Caenorhabditis briggsae</i>]	↑ 2.85
EAA05425	ENSANGP00000012700 [<i>Anopheles gambiae</i> str. PEST]	↑ 2.81
EAT44525	Niemann-Pick Type C-2, putative [<i>Aedes aegypti</i>]	↑ 2.79
AAS55566	MST84DC [<i>Drosophila simulans</i>]	↑ 2.78
NP_079004	succinyl-CoA:glutarate-CoA transferase [<i>Homo sapiens</i> (human)]	↑ 2.66
CAI86921	conserved protein of unknown function ; putative membrane protein [<i>Pseudoalteromonas haloplanktis</i> TAC125]	↑ 2.65
AAH44037	Cg8286-prov protein [<i>Xenopus laevis</i>]	↑ 2.65
YP_258141	hypothetical protein PFL_1010 [<i>Pseudomonas fluorescens</i> Pf-5]	↑ 2.62
XP_549134	PREDICTED: similar to sushi-repeat-containing protein, X-linked 2 [<i>Canis familiaris</i>]	↑ 2.58
AAQ23388	Rab7 [<i>Aiptasia pulchella</i>]	↑ 2.56
EAA12881	AGAP007952-PA [<i>Anopheles gambiae</i> str. PEST]	↑ 2.55
BAB05837	BH2118 [<i>Bacillus halodurans</i> C-125]	↑ 2.53
XP_636901	RING zinc finger-containing protein [<i>Dictyostelium discoideum</i> AX4]	↑ 2.53
ZP_00131989	COG3106: Predicted ATPase [<i>Haemophilus somnus</i> 2336]	↑ 2.44
EAT48619	serine/threonine-protein kinase vrk [<i>Aedes aegypti</i>]	↑ 2.40
CAC95124	TIR/NBS/LRR protein [<i>Populus deltoides</i>]	↑ 2.38
XP_699475	PREDICTED: similar to Sympk protein [<i>Danio rerio</i>]	↑ 2.31
XP_980893	PREDICTED: hypothetical protein LOC442837 [<i>Mus musculus</i>]	↑ 2.27
XP_511735	PREDICTED: similar to hypothetical protein FLJ22175 [<i>Pan troglodytes</i>]	↑ 2.19
EAA00702	AGAP011988-PA [<i>Anopheles gambiae</i> str. PEST]	↑ 2.15
XP_625439	insulinase like peptidase [<i>Cryptosporidium parvum</i> Iowa II]	↑ 2.12
AAD50987	prothymosin a14 [<i>Homo sapiens</i>]	↑ 2.10
XP_973265	ribosome biogenesis protein BOP1 homolog [<i>Tribolium castaneum</i> (red flour beetle)]	↑ 2.08
EAA13751	AGAP010769-PA	↑ 1.94

NP_649657	Zinc-finger protein [<i>Drosophila melanogaster</i> (fruit fly)]	↑ 1.75
EAS00551	hypothetical protein TTHERM_00409040 [<i>Tetrahymena thermophila</i> SB210]	↑ 1.73
XP_710938	Potential fungal zinc cluster transcription factor [<i>Candida albicans</i>]	↑ 1.73
XP_686827	PREDICTED: similar to Bmp1 protein [<i>Danio rerio</i>]	↑ 1.56

Gene ID	Gene description [species]	CBZ (Fold change)
NP_872312	melanoma antigen family B10 [<i>Homo sapiens</i> (human)]	↓ -1.57
XP_971465	PREDICTED: similar to Tubulin tyrosine ligase-like protein 2 (Testis-specific protein NYD-TSPG) [<i>Tribolium castaneum</i>]	↓ -1.63
AAN36896	conserved Plasmodium protein, unknown function [<i>Plasmodium falciparum</i> 3D7]	↓ -1.71
BAE73006	hypothetical protein [<i>Macaca fascicularis</i>]	↓ -1.71
EAT47168	serine protease [<i>Aedes aegypti</i>]	↓ -1.89
Gene ID	Gene description [species]	CBZ (Fold change)
NP_001026467	serine/arginine-rich splicing factor 11 [<i>Gallus gallus</i> (chicken)]	↓ -1.89
NP_523475	Salivary gland secretion 1 CG3047-PA [<i>Drosophila melanogaster</i>]	↓ -1.96
XP_678020	Triops cancriformis mitochondrial DNA, complete genome [<i>Plasmodium berghei</i>]	↓ -2.04
EAR83186	WD domain, G-beta repeat protein [<i>Tetrahymena thermophila</i> SB210]	↓ -2.20
CAE61304	Hypothetical protein CBG05137 [<i>Caenorhabditis briggsae</i>]	↓ -2.23
XP_991669	PREDICTED: similar to pericardin CG5700-PB [<i>Mus musculus</i>]	↓ -2.70
AAO12215	trypsin [<i>Aplysina fistularis</i>]	↓ -3.13
ZP_01223527	4-carboxy-2-hydroxymuconate-6-semialdehyde dehydrogenase [marine gamma proteobacterium HTCC2207]	↓ -3.16
EAS02587	AMP-binding enzyme family protein [<i>Tetrahymena thermophila</i> SB210]	↓ -3.43
BAD63461	phage-related protein [<i>Bacillus clausii</i> KSM-K16]	↓ -3.48
CAA20431	GTPase regulator (predicted) [<i>Schizosaccharomyces pombe</i> 972h-]	↓ -3.70
ZP_01034049	His/Glu/Gln/Arg/opine family ABC transporter, permease protein [<i>Roseovarius</i> sp. 217]	↓ -3.71
ZP_01133737	lipase, putative [<i>Pseudoalteromonas tunicata</i> D2]	↓ -3.80
AAH85561	Hypothetical protein [<i>Danio rerio</i>]	↓ -3.84
XP_969486	PREDICTED: similar to Jagged-1 precursor (Jagged1) [<i>Tribolium castaneum</i>]	↓ -4.03
NP_611397	CG15111-PA, isoform A [<i>Drosophila melanogaster</i>]	↓ -4.09
XP_971073	AP-1 complex subunit sigma-2 [<i>Tribolium castaneum</i> (red flour beetle)]	↓ -4.12
XP_970811	vesicle transport protein SEC20 [<i>Tribolium castaneum</i> (red flour beetle)]	↓ -4.17
XP_624856	BTB/POZ domain-containing protein KCTD5-like [<i>Apis mellifera</i> (honey bee)]	↓ -4.18
XP_380554	Hypothetical protein FG00378.1 [<i>Gibberella zeae</i> PH-1]	↓ -4.21
XP_392015	PREDICTED: similar to CG31116-PC, isoform C [<i>Apis mellifera</i>]	↓ -4.22
XP_426719	PREDICTED: similar to seven in absentia homolog 2; seven in absentia [<i>Drosophila</i>]	↓ -4.46
ZP_01304133	xylosidase/arabinosidase [<i>Sphingomonas</i> sp. SKA58]	↓ -4.54
XP_523482	PREDICTED: hypothetical protein [<i>Pan troglodytes</i>]	↓ -4.56
AAD55141	di-domain hemoglobin precursor [<i>Daphnia pulex</i>]	↓ -4.61
XP_623750	myotrophin-like [<i>Apis mellifera</i> (honey bee)]	↓ -4.85
XP_397115	PREDICTED: similar to ENSANGP00000014264 [<i>Apis mellifera</i>]	↓ -4.98
EAL17999	hypothetical protein [<i>Cryptococcus neoformans</i> var. <i>neoformans</i> B-3501A]	↓ -4.98
BAE38837	Zranb2 zinc finger, RAN-binding domain containing 2 [<i>Mus musculus</i> (house mouse)]	↓ -5.08
XP_995118	PREDICTED: hypothetical protein [<i>Mus musculus</i>]	↓ -5.14
AAO27090	CTP synthase [<i>Buchnera aphidicola</i> str. Bp (Baizongia pistaciae)]	↓ -5.20
EAA09458	AGAP005124-PA [<i>Anopheles gambiae</i> str. <i>PEST</i>]	↓ -5.25
XP_394551	NEDD8-conjugating enzyme UBE2F-like [<i>Apis mellifera</i> (honey bee)]	↓ -5.26
XP_549046	PREDICTED: similar to hephaestin isoform a [<i>Canis familiaris</i>]	↓ -5.26
EAT46404	conserved hypothetical protein [<i>Aedes aegypti</i>]	↓ -5.36
XP_966534	ethanolamine-phosphate cytidyltransferase [<i>Tribolium castaneum</i> (red flour beetle)]	↓ -5.37
EAT43058	AAEL005474-PA [<i>Aedes aegypti</i> (yellow fever mosquito)]	↓ -5.40
NP_650751	CG7718 [<i>Drosophila melanogaster</i>]	↓ -5.42
AAS48991	UL112/113 [<i>Human herpesvirus</i> 5]	↓ -5.47
BAB21109	Ef-1d elongation factor 1 delta [<i>Bombyx mori</i> (domestic silkworm)]	↓ -5.51
EAL26005	Dpse\GA14100 [<i>Drosophila pseudoobscura pseudoobscura</i>]	↓ -5.60
EAT38914	AAEL009235-PA [<i>Aedes aegypti</i> (yellow fever mosquito)]	↓ -5.64

CAA84321	Hypothetical protein F45H7.1 [<i>Caenorhabditis elegans</i>]	↓ -5.66
XP_455853	unnamed protein product [<i>Kluyveromyces lactis</i>]	↓ -5.88
ABB06938	FAD dependent oxidoreductase [<i>Burkholderia</i> sp. 383]	↓ -6.10
CAH90002	EIF4A2 eukaryotic translation initiation factor 4A2 [<i>Pongo abelii</i> (Sumatran orangutan)]	↓ -6.21
CAK11279	novel protein similar to vertebrate topoisomerase (DNA) II beta 180kDa (TOP2B) [<i>Danio rerio</i>]	↓ -6.54
XP_682935	Uncharacterized protein. Subfamily: SOLUTE CARRIER FAMILY 35 MEMBER F1 (PTHR14233:SF10) [<i>Danio rerio</i>]	↓ -6.55
XP_796182	PREDICTED: similar to SHQ1 homolog [<i>Strongylocentrotus purpuratus</i>]	↓ -6.22
ABF51368	H ⁺ transporting ATP synthase O subunit [<i>Bombyx mori</i> (domestic silkworm)]	↓ -6.64
XP_785816	PREDICTED: similar to muscle Y-box protein YB2 [<i>Strongylocentrotus purpuratus</i>]	↓ -6.66
EAS03921	HMG box protein [<i>Tetrahymena thermophila</i> SB210]	↓ -6.68
XP_967013	PREDICTED: similar to CG9160-PA, isoform A [<i>Tribolium castaneum</i>]	↓ -6.77
ZP_01065094	hypothetical protein MED222_15549 [<i>Vibrio</i> sp. MED222]	↓ -6.84
XP_001072503	PREDICTED: similar to putative MAPK activating protein PM20,PM21 isoform 1 [<i>Rattus norvegicus</i>]	↓ -6.92
Gene ID	Gene description [species]	CBZ (Fold change)
CAG09120	unnamed protein product [<i>Tetraodon nigroviridis</i>]	↓ -7.05
YP_258814	cytochrome c-type biogenesis protein Cych [<i>Pseudomonas fluorescens</i> Pf-5]	↓ -7.13
XP_973533	malate dehydrogenase, mitochondrial [<i>Tribolium castaneum</i> (red flour beetle)]	↓ -7.14
AAH76191	thoc7 THO complex 7 [<i>Danio rerio</i> (zebrafish)]	↓ -7.15
CAF94261	unnamed protein product [<i>Tetraodon nigroviridis</i>]	↓ -7.20
CAG05207	unnamed protein product [<i>Tetraodon nigroviridis</i>]	↓ -7.30
XP_976221	PREDICTED: similar to CG4944-PB, isoform B isoform 2 [<i>Tribolium castaneum</i>]	↓ -7.33
XP_968064	40S ribosomal protein S3a [<i>Tribolium castaneum</i> (red flour beetle)]	↓ -7.36
NP_077791	lipoic acid synthetase [<i>Mus musculus</i>]	↓ -7.49
AAV31414	26S protease regulatory subunit-like protein [<i>Toxoptera citricida</i>]	↓ -7.65
AAX28551	SJCHGC05463 protein [<i>Schistosoma japonicum</i>]	↓ -7.66
EAA08286	ENSANGP00000017110 [<i>Anopheles gambiae</i> str. PEST]	↓ -7.73
CAB60138	putative polyprotein [Wheat yellow mosaic virus]	↓ -8.05
AAN37244	conserved Plasmodium protein, unknown function [<i>Plasmodium falciparum</i> 3D7]	↓ -8.09
CAF92521	unnamed protein product [<i>Tetraodon nigroviridis</i>]	↓ -8.50
XP_974308	metaxin-2-like [<i>Tribolium castaneum</i> (red flour beetle)]	↓ -8.57
XP_624608	renin receptor-like [<i>Apis mellifera</i> (honey bee)]	↓ -8.83
YP_052887	ribosomal protein S7 [<i>Saprolegnia ferax</i>]	↓ -8.85
AAV60144	oocyte maturation factor Mos [<i>Anas poecilorhyncha</i>]	↓ -8.87
XP_623241	growth hormone-inducible transmembrane protein-like [<i>Apis mellifera</i> (honey bee)]	↓ -9.53
AAK27862	Hypothetical protein Y37E3.4 [<i>Caenorhabditis elegans</i>]	↓ -9.96
ZP_01120123	hypothetical protein RB2501_07115 [Robiginitalea bifurcata HTCC2501]	↓ -12.89
XP_973543	polypeptide N-acetylgalactosaminyltransferase 5	↓ -14.60
XP_855304	PREDICTED: similar to cyclin K [<i>Canis familiaris</i>]	↓ -6377.84
YP_581584	histidine kinase [<i>Psychrobacter cryohalolentis</i> K5]	↓ -17088.07
EAM56123	conserved hypothetical protein [<i>Solibacter usitatus</i> Ellin]	↓ -49456.71
XP_729076	hypothetical protein PY01338 [<i>Plasmodium yoelii</i> yoelii]	↓ -58892.73