

# LIST OF GENES DIFFERENTIALLY EXPRESSED IN THE MICROARRAY DATASETS

## AD.1 *A. fumigatus* ATCC46645 transcript profile during initiation of murine infection

Locus	T0 vs T4	T0 vs T8	T0 vs T16	Comm_Name
<b>Afu1g00810</b>	1.09	2.08		Asp f7-like allergen, putative
<b>Afu1g01300</b>	0.42	1.9	3.91	GPI anchored protein, putative
<b>Afu1g01310</b>	0.37	1.49	3.42	carboxylesterase, putative
<b>Afu1g01370</b>	1.84	2.53	2.45	glutathione S-transferase, putative
<b>Afu1g01490</b>	2.76	1.92	2.6	NACHT domain protein
<b>Afu1g01530</b>	0.3	2	3.09	GrpB domain protein
<b>Afu1g01540</b>	2.06	4.7	4.91	Endonuclease/Exonuclease/phosphatase family family
<b>Afu1g01550</b>	1.52	3.54	4.09	high affinity zinc ion transporter, putative
<b>Afu1g01640</b>	1.79	2.11	1.44	kinesin family protein
<b>Afu1g01680</b>	3	3.22	3.41	branched-chain amino acid aminotransferase
<b>Afu1g01690</b>	2.38	4.26	4.54	cytochrome P450 alkane hydroxylase, putative
<b>Afu1g01740</b>	2.98	2.36	1.64	t-complex protein 1, beta subunit, putative
<b>Afu1g01790</b>	1.61	2.32	1.98	hypothetical protein
<b>Afu1g01940</b>	1.95	2.07	1.86	hypothetical protein
<b>Afu1g02070</b>	3.29	3.05	2.64	cytochrome c1, heme protein precursor
<b>Afu1g02340</b>	0.53	1.1	2.16	hypothetical protein
<b>Afu1g02540</b>	2.4	3.09	3.38	EF hand domain protein
<b>Afu1g02550</b>	2.56	3.63	2.53	tubulin alpha-1 subunit
<b>Afu1g02860</b>	1.79	1.78	2.81	C2H2 transcription factor, putative
<b>Afu1g02880</b>	3.5	4.33	2.13	Phosphotransferase enzyme family domain protein
<b>Afu1g02890</b>	4.18	4.82	5.29	dUTPase (Dut), putative
<b>Afu1g02900</b>	2.32	2.36	2.97	pyridoxal kinase, putative
<b>Afu1g02910</b>	2.75	4.56	4.97	hypothetical protein
<b>Afu1g02930</b>	1.24	3.16	2.97	Ca <sup>2+</sup> binding protein (calmodulin), putative
<b>Afu1g03060</b>	2.38	3.12	2.2	F-actin capping protein beta subunit
<b>Afu1g03080</b>	1.94	2.43	2.97	carboxylic ester hydrolase (Ppe1), putative
<b>Afu1g03100</b>	1.98	2.71	2.23	ATP synthase delta chain, mitochondrial precursor, putative
<b>Afu1g03120</b>	2.96	3.24	2.92	hypothetical protein
<b>Afu1g03420</b>	1.37	2.16	1.1	adenylate kinase 2

<b>Afu1g03550</b>	4.09	3.94	2.73	mitochondrial dihydroxy acid dehydratase, putative
<b>Afu1g03610</b>	1.9	2.39	4.35	hypothetical protein
<b>Afu1g03630</b>	3.4	5.36	5.91	GPI anchored serine-threonine rich protein
<b>Afu1g03720</b>	2.17	2.94	2.2	UPF0136 domain protein
<b>Afu1g03890</b>	2.92	2.81	3.75	alpha/beta hydrolase, putative
<b>Afu1g04130</b>	3.3	3.61	3.15	FG-GAP repeat protein, putative
<b>Afu1g04150</b>	1.1	0.82	2.24	tartrate dehydrogenase
<b>Afu1g04280</b>	2.36	2.07	2.5	Ribosomal protein S7p/S5e, putative
<b>Afu1g04300</b>	3.99	4.1	5.14	hypothetical protein
<b>Afu1g04310</b>	1.9	2.27	1.99	hypothetical protein
<b>Afu1g04320</b>	2.13	1.91	1.93	ribosomal protein S8.e
<b>Afu1g04340</b>	1.4	1.93	2.24	SH3 and Ded_cyto domain protein, putative
<b>Afu1g04430</b>	1.23	2.06	2.41	conserved hypothetical protein
<b>Afu1g04440</b>	1.99	2.15	2.12	PrnX protein
<b>Afu1g04460</b>	1.98	1.95	2.2	lysyl-tRNA synthetase, putative
<b>Afu1g04540</b>	2.81	3.24	3.21	NADH-cytochrome b5 reductase precursor
<b>Afu1g04550</b>	2.17	2.48	3.12	HMG box protein, putative
<b>Afu1g04560</b>	3.21	3.27	4.08	urease, putative
<b>Afu1g04760</b>	1.55	2.39	1.95	conserved hypothetical protein
<b>Afu1g04900</b>	1.39	2.3	1.51	proliferating cell nuclear antigen (pcna)
<b>Afu1g05080</b>	3.09	2.7	1.14	ribosomal protein P0
<b>Afu1g05100</b>	2	1.89	2.07	GARP complex subunit Vps53, putative
<b>Afu1g05280</b>	3.23	3.66	3.44	conserved hypothetical protein
<b>Afu1g05300</b>	1.9	2.24	2.02	capsular associated protein, putative
<b>Afu1g05320</b>	2.17	2.66	2.03	disulfide isomerase, putative
<b>Afu1g05340</b>	2.07	2.36	2.11	ribosomal protein S19 (s16)
<b>Afu1g05520</b>	3.64	3.62	3.51	mandelate racemase/muconate lactonizing enzyme family protein
<b>Afu1g05580</b>	1.39	2.46	2.11	glycogenin
<b>Afu1g05630</b>	3.31	3.38	3.09	40s ribosomal protein s3
<b>Afu1g05790</b>	2.76	4.87	4.62	GPI anchored serine-rich protein
<b>Afu1g05810</b>	2.09	2.28	3.17	conserved hypothetical protein
<b>Afu1g05820</b>	2.45	2.81	2.97	conserved hypothetical protein
<b>Afu1g05870</b>	2.28	2	2.28	scs3 protein
<b>Afu1g05930</b>	3.11	3.48	3.09	serine/threonine protein kinase, putative
<b>Afu1g05940</b>	4.11	4.32	4.92	conserved hypothetical protein
<b>Afu1g05960</b>	2.89	3.81	4.07	Peptidase family M28 family
<b>Afu1g06110</b>	2.56	2.5	2.49	conserved hypothetical protein

<b>Afu1g06200</b>	2.06	2.9	1.93	Mn <sup>2+</sup> homeostasis protein (Per1), putative
<b>Afu1g06240</b>	2.1	2.56	1.71	riboflavin synthase, alpha subunit
<b>Afu1g06250</b>	2.26	2.74	0.93	CAIB/BAIF family enzyme
<b>Afu1g06330</b>	-0.04	2	1.38	conserved hypothetical protein
<b>Afu1g06680</b>	1.9	2.56	2.08	VHS domain protein
<b>Afu1g06790</b>	2.24	1.68	2.3	importin beta-3 subunit, putative
<b>Afu1g06940</b>	2.97	3.33	3.47	chorismate synthase
<b>Afu1g07080</b>	2.21	1.7	2.22	tRNA-specific adenosine-34 deaminase subunit Tad3, putative
<b>Afu1g07130</b>	2.13	2.88	1.51	dienelactone hydrolase family protein
<b>Afu1g07200</b>	2.5	2.72	1.8	mitochondrial cytochrome b2, putative
<b>Afu1g07230</b>	1.9	1.75	2.54	DSBA-like thioredoxin domain protein
<b>Afu1g07320</b>	2.2	2.07	2	chromosome segregation protein (SepB), putative
<b>Afu1g07330</b>	1.71	2.01	-0.38	dihydroxy-acid dehydratase, putative
<b>Afu1g07380</b>	2.05	1.58	1.52	NADH-dependent glutamate synthase (GLT1), putative
<b>Afu1g07400</b>	2	2.09	1.88	hypothetical protein
<b>Afu1g07430</b>	1.87	2.52	2.69	hypothetical protein
<b>Afu1g07440</b>	2.24	2.28	2.35	molecular chaperone Hsp70
<b>Afu1g07520</b>	3.14	3.44	2.25	dimeric dihydrodiol dehydrogenase, putative
<b>Afu1g07560</b>	1.56	1.65	2.4	MYB DNA-binding domain protein
<b>Afu1g07570</b>	2	2.39	2.33	hypothetical protein
<b>Afu1g08850</b>	2.14	2.42	1.9	septin
<b>Afu1g08930</b>	2.33	2.33	2.1	WD repeat protein
<b>Afu1g09010</b>	1.89	2.25	2	methionyl-tRNA synthetase
<b>Afu1g09310</b>	1.62	2.07		DUF6 domain protein, putative
<b>Afu1g09480</b>	1.66	2.31	1.75	vacuolar protein sorting 29, putative
<b>Afu1g09510</b>	2.38		2.21	GPI anchored serine-threonine rich protein
<b>Afu1g09520</b>	1.69	1.76	2.46	hypothetical protein
<b>Afu1g09600</b>	2.19	2.06	2.11	N-acetyltransferase complex ARD1 subunit, putative
<b>Afu1g09660</b>	1.92	1.92	2.19	mitochondrial 2-oxodicarboxylate carrier protein, putative
<b>Afu1g09690</b>	2.41	3.6	4.17	tRNA ligase
<b>Afu1g09760</b>	1.86	2.43	1.75	UPF0171 domain protein
<b>Afu1g09810</b>	2.32	2.92	3.13	PUA RNA binding domain protein, putative
<b>Afu1g09830</b>	2.05	1.75	1.37	Hsc70 cochaperone (SGT), putative
<b>Afu1g09960</b>	2.41	2.46	1.98	conserved hypothetical protein
<b>Afu1g10020</b>	2.32	4.87	3.48	reverse transcriptase, RNaseH
<b>Afu1g10030</b>	1.32	2.35	1.98	hypothetical protein
<b>Afu1g10100</b>	3.11	2.75	2.22	3-oxoacyl-(acyl-carrier-protein) reductase

<b>Afu1g10110</b>	2.19	2.05	1.69	TIM-barrel enzyme family protein
<b>Afu1g10120</b>	1.77	1.74	2.84	ABC transporter permease protein
<b>Afu1g10220</b>	-0.64	0.82	2.58	hypothetical protein
<b>Afu1g10350</b>	2.68	3	2.96	phosphoglycerate kinase PgkA, putative
<b>Afu1g10460</b>	1.05	2.41	2.74	hypothetical protein
<b>Afu1g10520</b>	2.97	3.11	2.97	hypothetical protein
<b>Afu1g10570</b>	2.06	2.33	2.56	glycerol-3-phosphate phosphatase (GppA), putative
<b>Afu1g10580</b>	1.49	2.11	1.69	homeobox transcription factor, putative
<b>Afu1g10590</b>	1.88	2.53	2.9	GPI anchored protein, putative
<b>Afu1g10780</b>	5.18	5.42	5.95	glycine cleavage system T protein
<b>Afu1g10790</b>	1.88	2.07	2.31	alpha-1,2-mannosidase family protein, putative
<b>Afu1g10800</b>	4.09	3.83	3.72	thioesterase family protein
<b>Afu1g10820</b>	2.75	2.7	2.74	adenylylsulfate kinase
<b>Afu1g10840</b>	2.19	2.34	2.42	hypothetical protein
<b>Afu1g10900</b>	2.01	3.13	2.95	conserved hypothetical protein
<b>Afu1g10910</b>	3.36	3.77	2.89	tubulin beta, putative
<b>Afu1g10930</b>	4.51	3.79	2.39	ammonium transporter
<b>Afu1g11010</b>	1.82	3.03	1.81	oxidoreductase, short chain dehydrogenase/reductase family superfamily
<b>Afu1g11040</b>	0.89	3.17		hypothetical protein
<b>Afu1g11250</b>	0.85	2.5	0.24	amidohydrolase, putative
<b>Afu1g11380</b>	1.7	2.19	1.77	integral membrane protein, putative
<b>Afu1g11390</b>	2.29	3.07		cytochrome P450, putative
<b>Afu1g11450</b>	0.9	2.32	1.21	myosin class II heavy chain (MHC), putative
<b>Afu1g11470</b>	2.48	2.88	2.74	endosomal cargo receptor (P24), putative
<b>Afu1g11480</b>	4.97	5.52	5.29	hypothetical protein
<b>Afu1g11530</b>	3.26	3.01	2.18	2,4-dihydroxyhept-2-ene-1,7-dioic acid aldolase
<b>Afu1g11540</b>	2.17	2.07	1.18	CORD and CS domain protein
<b>Afu1g11790</b>	1.31	2.06	0.83	PUTATIVE NUCLEOSIDE HYDROLASE PROTEIN
<b>Afu1g11800</b>	1.49	2.06	2.6	HLH transcription factor, putative
<b>Afu1g11810</b>	0.78	2.01	0.79	hypothetical protein
<b>Afu1g11820</b>	0.98	2.83		MFS transporter, putative
<b>Afu1g11990</b>	2.09	2.27	2.67	conserved hypothetical protein
<b>Afu1g12050</b>	2.38	2.81	2.42	acetyltransferase, GNAT family family
<b>Afu1g12190</b>	3.32	3.75	3.58	conserved hypothetical protein
<b>Afu1g12270</b>	0.68	0.95	2.03	hypothetical protein
<b>Afu1g12290</b>	3.93	4.46	4.54	possible NADH-ubiquinone oxidoreductase
<b>Afu1g12310</b>	2.75	2.85		GABA permease GabA

<b>Afu1g12510</b>	3.3	4.11	3.57	isoflavone reductase family protein
<b>Afu1g12620</b>	1.71	2.76	3.72	MFS toxin efflux pump (AflT), putative
<b>Afu1g12690</b>	3.51	4.29	4.28	ABC multidrug transporter Mdr4
<b>Afu1g12740</b>	2.35	3.02	3.22	hypothetical protein
<b>Afu1g12860</b>	0.93	1.95	2.08	DUF718 domain protein
<b>Afu1g12920</b>	2.6	2.66	1.38	glycogen phosphorylase 1; possible glycogen phosphorylase
<b>Afu1g13090</b>	1.79	2.13	2.61	anthranilate synthase multifunctional protein
<b>Afu1g13200</b>	1.4	1.43	2.86	conserved hypothetical protein
<b>Afu1g13230</b>	2.14	3.54	4.91	conserved hypothetical protein
<b>Afu1g13240</b>	2.36	2.76	3.82	adenosine deaminase, putative
<b>Afu1g13330</b>	3.47	3.52	2.96	Arp2/3 complex subunit (Arp2), putative
<b>Afu1g13480</b>	1.67	2.04	2.16	ubiquinol-cytochrome C reductase complex subunit UcrQ, putative
<b>Afu1g13490</b>	2.96	2.86	2.91	spermidine synthase
<b>Afu1g13500</b>	3.89	4.14	3.55	transketolase TktA
<b>Afu1g13620</b>	1.72	2.34	3.04	oligopeptide transporter, OPT family, putative
<b>Afu1g13720</b>	2.7	2.96	1.98	intracellular protein transport protein (UsoA), putative
<b>Afu1g13740</b>	3.55	3.45	3.68	pentafunctional polypeptide (AroM), putative
<b>Afu1g13780</b>	1.94	3.89	3.11	histone H4
<b>Afu1g13860</b>	0.51	1.34	2.16	conserved hypothetical protein
<b>Afu1g13930</b>	2.94	3.67	2.87	Leucine carboxyl methyltransferase superfamily
<b>Afu1g13960</b>	2.6	3.26		DUF292 domain protein
<b>Afu1g14200</b>	2.59	2.32	1.91	mitochondrial processing peptidase beta subunit, putative
<b>Afu1g14210</b>	3.09	2.72	1.41	putative nucleoside-diphosphate-sugar epimerase
<b>Afu1g14240</b>	2.31	2.12	2.86	conserved hypothetical protein
<b>Afu1g14260</b>	2.19	2.28	1.67	related to TGF beta receptor associated protein 1
<b>Afu1g14350</b>	3.71	3.54	3.38	2-deoxy-D-gluconate 3-dehydrogenase, putative
<b>Afu1g14380</b>	3.31	3.72	3.46	3-ketoacyl-acyl carrier protein reductase
<b>Afu1g14390</b>	4.9	5.75	5.88	zinc binding dehydrogenase family protein
<b>Afu1g14400</b>	2.1	2.39	1.6	glyoxylate reductase
<b>Afu1g14450</b>	0.36	2.26	1.08	exo-beta-1,3-glucanase Exg0
<b>Afu1g14520</b>	3.12	2.88	4.99	pyridine nucleotide-disulphide oxidoreductase, putative
<b>Afu1g14530</b>	3.58	3.87	2.63	general amidase-B
<b>Afu1g14540</b>	2.83	3.11	1.64	oxidoreductase, short-chain dehydrogenase/reductase family
<b>Afu1g14550</b>	5.98	6.76	6.71	Mn superoxide dismutase MnSOD
<b>Afu1g15040</b>	1.3	2.11	2.24	hypothetical protein

<b>Afu1g15050</b>	2.04	2.64	1.36	Hsp70 chaperone (Orp150), putative
<b>Afu1g15060</b>	2.09	2.15	1.28	hypothetical protein
<b>Afu1g15150</b>	1.71	2.27	1.75	alpha-amylase (amyE)
<b>Afu1g15210</b>	2.88	2.74	2.37	conserved hypothetical protein
<b>Afu1g15220</b>	1.74	2.34	2.6	conserved hypothetical protein
<b>Afu1g15240</b>	2.49	2.69	2.95	prefoldin subunit 4, putative
<b>Afu1g15280</b>	3.55	3.58	4.4	polysaccharide deacetylase family protein
<b>Afu1g15290</b>	2	2.1	1.25	hypothetical protein
<b>Afu1g15330</b>	4.48	4.95	4.94	T10O22.24
<b>Afu1g15550</b>	1.47	2.23	1.87	homeobox and C2H2 transcription factor, putative
<b>Afu1g15680</b>	2.49	3.76	3.14	C6 finger domain protein, putative
<b>Afu1g15690</b>	0.33	2.37	1.86	conserved hypothetical protein
<b>Afu1g15780</b>	2.63	2.1	2.1	3-isopropylmalate dehydrogenase
<b>Afu1g15960</b>	2.15	1.89	1.66	glutathione reductase
<b>Afu1g16190</b>	1.92	2.41	1.91	cell wall glucanase Crf1
<b>Afu1g16200</b>	0.48	2.05	1.67	hypothetical protein
<b>Afu1g16250</b>	5.68	6.62	5.96	alpha-glucosidase B
<b>Afu1g16270</b>	0.79	2.82		xylitol dehydrogenase XdhB, putative
<b>Afu1g16470</b>	2.71	2.88	3.29	metallo-beta-lactamase domain protein, putative
<b>Afu1g16480</b>	4.36	4.16	4.45	acid phosphatase, putative
<b>Afu1g16510</b>	1.51	1.86	2.34	heme/steroid binding domain protein, putative
<b>Afu1g16560</b>	0.43	3.02	3.33	MIF domain protein
<b>Afu1g16640</b>	2.67	4.01	3.72	hypothetical protein
<b>Afu1g16670</b>	1.89	2.38	0.9	hypothetical protein
<b>Afu1g16700</b>	2.49	3.46	4.17	beta galactosidase, putative
<b>Afu1g16760</b>	1.32	3.88	3.86	acetyltransferase, GNAT family family
<b>Afu1g16770</b>	1.46	3.63	3.81	amidase
<b>Afu1g16880</b>	2.01	2.36	2.27	ABC multidrug transporter, putative
<b>Afu1g17030</b>	1.37	1.6	2.34	glycosyl transferase, putative
<b>Afu1g17050</b>	1.6	2.6	1.41	hypothetical protein
<b>Afu1g17140</b>	2.49	4.51	2.22	voltage-gated K <sup>+</sup> channel beta subunit (KCNAB), putative
<b>Afu1g17150</b>	1.88	3.39	2	C6 transcription factor, putative
<b>Afu1g17160</b>	1.55	2.9	1.37	transporter, putative
<b>Afu1g17170</b>	4.99	6.79	6.42	alpha-ketoglutarate-dependent taurine dioxygenase
<b>Afu1g17180</b>	6.58	7.25	7.49	pyridine nucleotide-disulphide oxidoreductase, putative
<b>Afu1g17190</b>	4.47	5.67	5.98	long-chain-fatty-acid-CoA ligase, putative
<b>Afu1g17200</b>	4.63	5	5.55	nonribosomal peptide synthase, putative

<b>Afu1g17270</b>	1.48	2.94	3.41	ferric-chelate reductase (Fre2), putative
<b>Afu1g17390</b>	1.11	2.31	1.08	hypothetical protein
<b>Afu1g17470</b>	1.9	2.36	2.22	high affinity nitrate transporter NrtB
<b>Afu1g17480</b>	2.44	3.81	3.77	conserved hypothetical protein
<b>Afu1g17490</b>	1.91	3.35	2.42	glucokinase regulator family protein, putative
<b>Afu1g17530</b>	2.21	3.29	3.05	MFS transporter, putative
<b>Afu1g17590</b>	2.17	4.23	2.6	phosphoesterase superfamily protein
<b>Afu1g17640</b>	2.8	2.74	2.51	melanin biosynthesis transcription factor RegA
<b>Afu1g17650</b>	2.52	2.37	2.04	short chain dehydrogenase, putative
<b>Afu1g17670</b>	1.84	2.06		salicylate hydroxylase, putative
<b>Afu1g17680</b>	2.16	2.41	2.54	MFS transporter, putative
<b>Afu1g17700</b>	2.81	5.13	2.53	short chain dehydrogenase, putative
<b>Afu1g17750</b>	3.38	3.13	3.94	nicotinamide N-methyltransferase, putative
<b>Afu2g00260</b>	1.52	2.42		phenylacetaldoxime dehydratase family protein, putative
<b>Afu2g00320</b>	2.9	4.47	4.44	sterol delta 5,6-desaturase, putative
<b>Afu2g00370</b>	-0.21	1.47	2.05	conserved hypothetical protein
<b>Afu2g00500</b>	-0.05	3.11	2.92	conserved hypothetical protein
<b>Afu2g00540</b>	0.45	1.47	2.44	carboxyphosphoenolpyruvate phosphonmutase, putative
<b>Afu2g00570</b>	0.61	3.02	3.5	GNAT family acetyltransferase, putative
<b>Afu2g00590</b>	2.43	2.95	2.46	glutathione-S-transferase, putative
<b>Afu2g00640</b>	4.03	5.32	4.43	beta-N-hexosaminidase, putative
<b>Afu2g00710</b>		2.13		alpha-amylase, putative
<b>Afu2g00720</b>	2.52	3.99	4.35	aldehyde dehydrogenase, putative
<b>Afu2g00750</b>	2.35	3.06	2.44	oxidoreductase, 2OG-Fe(II) oxygenase family, putative
<b>Afu2g00760</b>	0.61	3.13	2.33	pectate lyase A
<b>Afu2g00770</b>	4.13	3.87	5.12	salicylate hydroxylase
<b>Afu2g00790</b>	1.78	2.21	3.01	hypothetical protein
<b>Afu2g00820</b>	2.65	3.93	4.21	extracellular GDSL-like lipase/acylhydrolase, putative
<b>Afu2g00870</b>	0.84	2.97		hypothetical protein
<b>Afu2g00880</b>	1.99	3.22	3.49	conserved hypothetical protein
<b>Afu2g00890</b>	1.58	2.37	3.05	hypothetical protein
<b>Afu2g01010</b>	1.83	2	1.25	myo-inositol-phosphate synthase, putative
<b>Afu2g01030</b>	2.3	3.54	3.18	1-aminocyclopropane-1-carboxylate deaminase, putative
<b>Afu2g01040</b>	3.9	4.52	3.84	formaldehyde dehydrogenase
<b>Afu2g01070</b>	3.64	4.14	3.91	GPI-anchor biosynthesis protein (Pig-F), putative
<b>Afu2g01130</b>	1.3	2.09	1.81	ubiquitin conjugating enzyme (UbcJ), putative
<b>Afu2g01240</b>	3.14	1.82	1.33	beta-D-fructofuranoside fructohydrolase

<b>Afu2g01280</b>	4.15	3.59	4.04	D-mandelate dehydrogenase, putative
<b>Afu2g01300</b>	2.35	3.47	3.47	conserved hypothetical protein
<b>Afu2g01310</b>	1.38	2.69	2.42	EF-hand domain protein
<b>Afu2g01320</b>	4.47	5.26	5.12	P-type ATPase, putative
<b>Afu2g01360</b>	2.52	2.9	2.86	nucleotide-binding GAF domain protein
<b>Afu2g01380</b>	2.07	3.81	5.14	GNAT family acetyltransferase, putative
<b>Afu2g01390</b>	1.45	1.61	2.66	S-adenosylmethionine-dependent methyltransferase, putative
<b>Afu2g01460</b>	1.53	2.09	1.86	ZIP Zinc transporter, putative
<b>Afu2g01540</b>	2.47	2.83	2.59	conserved hypothetical protein
<b>Afu2g01690</b>	1.67	2.63	1.37	conserved hypothetical protein
<b>Afu2g01710</b>	-0.43	2.12	1.88	GPI anchored protein, putative
<b>Afu2g01790</b>	1.15	2.12	1.68	conserved serine proline-rich protein
<b>Afu2g02050</b>	2.37	2.58	1.97	peptidyl-prolyl cis-trans isomerase, putative
<b>Afu2g02090</b>	2.3	2.98	2.41	methylated-DNA-protein-cysteine methyltransferase
<b>Afu2g02100</b>	2.4	2.02	1.86	dihydrolipoamide dehydrogenase
<b>Afu2g02140</b>	1.84	1.92	2.56	CUE domain protein, putative
<b>Afu2g02490</b>	1.71	2.5	2.54	hypothetical protein
<b>Afu2g02500</b>	1.27	2.49	2.81	conserved hypothetical protein
<b>Afu2g02590</b>	2.15	2.09	0.78	aspartyl-tRNA synthetase
<b>Afu2g02810</b>	2.57	1.87	1.1	alcohol dehydrogenase, zinc-containing, putative
<b>Afu2g03150</b>	0	0.41	2.63	kinesin family protein
<b>Afu2g03330</b>	2.64	3.28	3.53	phytanoyl-CoA dioxygenase family protein
<b>Afu2g03510</b>	1.3	2.2	1.11	pheromone processing carboxypeptidase (Sxa2), putative
<b>Afu2g03570</b>	2.3	2.41	2.43	transposase
<b>Afu2g03600</b>	1.76	2.1		NUDIX family hydrolase, putative
<b>Afu2g03730</b>	1.89	3.25	1.85	Ctr copper transporter family protein
<b>Afu2g03770</b>	2.01	2.12	1.24	isochorismatase family hydrolase, putative
<b>Afu2g03830</b>	3.3	4.68	4.88	allergen Asp F4
<b>Afu2g03840</b>	3.03	3.33	2.52	mitochondrial import receptor subunit (Tom37), putative
<b>Afu2g03870</b>	2.44	2.91	2.63	FKBP-type peptidyl-prolyl isomerase, putative
<b>Afu2g03880</b>	2.38	2.96	2.82	heme binding protein, putative
<b>Afu2g03990</b>	2.01	2.48	2.39	hypothetical protein
<b>Afu2g04060</b>	2.05	1.88	0.96	NADH:flavin oxidoreductase/NADH oxidase family protein
<b>Afu2g04220</b>	0.34	2.18	0.35	homogentisate 1,2-dioxygenase (HmgA), putative
<b>Afu2g04280</b>	1.86	1.19	2.21	asparaginase, putative
<b>Afu2g04300</b>	3.57	3.76	4.54	lipase/esterase, putative

<b>Afu2g04310</b>	2.2	1.99	2.45	argininosuccinate synthase
<b>Afu2g04370</b>	1.67	2.01	2.51	glutamate carboxypeptidase
<b>Afu2g04390</b>	2.55	2.68	2.34	cytomegalovirus gH-receptor family protein, putative
<b>Afu2g04490</b>	3.49	4.17	4.55	D-3-phosphoglycerate dehydrogenase
<b>Afu2g04520</b>	2.6	2.91	3.16	Fe-containing alcohol dehydrogenase, putative
<b>Afu2g04540</b>	2.39	3.42	2.85	hypothetical protein
<b>Afu2g04560</b>	2.4	1.85	1.22	oxidoreductase, short-chain dehydrogenase/reductase family
<b>Afu2g04570</b>	4.63	4.75	4.86	BNR/Asp-box repeat domain protein
<b>Afu2g04590</b>	3.98	3.64	3.35	alcohol dehydrogenase, putative
<b>Afu2g04600</b>	2.8	3.06	2.39	C6 transcription factor, putative
<b>Afu2g04610</b>	1.82	1.8	2.29	DUF967 domain protein
<b>Afu2g04620</b>	2.3	1.96	2.03	ER Hsp70 chaperone BiP, putative
<b>Afu2g04700</b>	2.16	1.75	1.32	RNA binding effector protein (Scp160), putative
<b>Afu2g04710</b>	2.27	2.75	2.45	cytochrome b5, putative
<b>Afu2g04980</b>	1.63	2.52	2.41	tyrosine decarboxylase, putative
<b>Afu2g05080</b>	2.56	2.86	2.96	hypothetical protein
<b>Afu2g05150</b>	2.81	5.54	6.01	cell wall galactomannoprotein Mp2
<b>Afu2g05180</b>	1.91	1.8	2.98	NF-X1 finger and helicase domain protein, putative
<b>Afu2g05190</b>	1.91	1.49	2.53	monosaccharide transporter
<b>Afu2g05220</b>	1.4	2.41		conserved hypothetical protein
<b>Afu2g05260</b>	1.61	2.11	1.83	salicylate hydroxylase
<b>Afu2g05310</b>	2.28	2.43	2.46	C6 transcription factor, putative
<b>Afu2g05320</b>	2.42	2.18	1.97	ion transporter
<b>Afu2g05340</b>	2.6	2.92	3.15	1,3-beta-glucanosyltransferase, putative
<b>Afu2g05360</b>	3.37	2.23	2.2	C6 transcription factor, putative
<b>Afu2g05400</b>	1.99	3.25	3.32	sugar hydrolase, putative
<b>Afu2g05590</b>	3.39	3.65	3.2	ubiquitin C-terminal hydrolase L3
<b>Afu2g05650</b>	2.25	2.49	2.5	cytoplasmic asparaginyl-tRNA synthetase, putative
<b>Afu2g05720</b>	1.03	1.94	2.24	conserved hypothetical protein
<b>Afu2g05750</b>	1.41	2.66	1.91	agmatinase, putative
<b>Afu2g05800</b>	4.64	5.43	5.23	IdgA domain protein
<b>Afu2g05810</b>	3.43	3.26	3.76	dienelactone hydrolase
<b>Afu2g05820</b>	3.62	3.88	3.72	Riboflavin kinase, putative
<b>Afu2g05860</b>	1.4	1.17	2	calcium/manganese P-type ATPase, putative
<b>Afu2g05890</b>	1.26	2	1.28	conserved hypothetical protein
<b>Afu2g06150</b>	2.45	2.62	1.44	disulfide isomerase, putative
<b>Afu2g07440</b>	1.59	2.66	2.27	thioesterase family protein

<b>Afu2g07680</b>	4.13	4.69	5.01	L-ornithine N5-oxygenase SidA
<b>Afu2g07750</b>	2.84	3.9	4.69	haloacid dehalogenase, type II
<b>Afu2g07780</b>	3.18	3.52	3.73	acyl-CoA synthetase, putative
<b>Afu2g07810</b>	3.96	4.17	4.41	cytosolic hydroxymethyltransferase, putative
<b>Afu2g07840</b>	1.86	3.57	2.83	competence/damage-inducible protein CinA, putative
<b>Afu2g07910</b>	2.84	3.59	3.82	myo-inositol transporter
<b>Afu2g07940</b>	2.34	3.04	3.27	NADPH-cytochrome P450 reductase (CprA), putative
<b>Afu2g07970</b>	1.95	2.06	2.17	ribosomal protein L19
<b>Afu2g08050</b>	1.51	2.32	1.13	short chain dehydrogenase/reductase family protein
<b>Afu2g08090</b>	0.47	1.78	2.8	hypothetical protein
<b>Afu2g08180</b>	0.49	2.39	1.63	flotillin domain protein
<b>Afu2g08260</b>	1.41	1.98	2.54	FMN binding oxidoreductase, putative
<b>Afu2g08300</b>	3.58	3.34	1.98	DnaJ domain protein, putative
<b>Afu2g08430</b>	1.71	2.35	2.13	acetyltransferase, CysE/LacA/LpxA/NodL family
<b>Afu2g08460</b>	1.94	1.19	2.24	pseudouridylate synthase
<b>Afu2g08470</b>	0.31	2.47	1.23	GTP binding protein (Bud4), putative
<b>Afu2g08550</b>	1.95	2.86	1.93	peptidyl-prolyl cis/trans isomerase
<b>Afu2g08790</b>	1.73	2.15	2.31	zinc carboxypeptidase, putative
<b>Afu2g08800</b>	2.36	3.56	3.13	amino acid permease (Dip5), putative
<b>Afu2g08880</b>	1.66	2.01	1.28	hypothetical protein
<b>Afu2g08890</b>	2.01	1.63	1.38	dihydrofolate reductase
<b>Afu2g09030</b>	2.45	4.64	4.24	secreted dipeptidyl peptidase
<b>Afu2g09060</b>	3.3	4.15	4.27	DNA replication licensing factor Mcm4, putative
<b>Afu2g09070</b>	2.38	3.69	3.86	DUF221 domain protein, putative
<b>Afu2g09290</b>	2.03	1.37	1	antigenic mitochondrial protein HSP60, putative
<b>Afu2g09450</b>	2.56	4.05	3.26	carboxylic acid transport protein
<b>Afu2g09560</b>	2.05	1.91	2.21	Mgm101 protein
<b>Afu2g09620</b>	1.74	2	2.07	phytanoyl-CoA dioxygenase family protein
<b>Afu2g09650</b>	1.67	1.48	2.14	aspartate transaminase, putative
<b>Afu2g09670</b>	3.36	3.69	4.08	SNARE protein (Ufe1), putative
<b>Afu2g09680</b>	1.59	1.84	2.33	PB1 domain protein, putative
<b>Afu2g09780</b>	2.66	2.95	3.22	hypothetical protein
<b>Afu2g09790</b>	2.64	3.04	2.17	glucose-6-phosphate isomerase
<b>Afu2g09810</b>	2.82	2.85	2.35	mandelate racemase/muconate lactonizing enzyme family protein
<b>Afu2g09840</b>	2.82	2.71	2.78	folic acid synthesis protein
<b>Afu2g09850</b>	3.43	4.47	3	oxidoreductase, 2-nitropropane dioxygenase family, putative

<b>Afu2g10140</b>	1.6	2.45	2.46	DNA replication licensing factor Mcm7, putative
<b>Afu2g10150</b>	2.61	3.05	2.64	peroxisome biosynthesis protein (PAS1/Peroxin-1), putative
<b>Afu2g10190</b>	0.94	2.04	1.86	hypothetical protein
<b>Afu2g10220</b>	2.68	3.62	1.48	glycerol dehydrogenase, putative
<b>Afu2g10230</b>	1.05	1.4	2.15	myo-inositol oxygenase
<b>Afu2g10280</b>	1.63	2	0.55	ketoreductase
<b>Afu2g10560</b>	0.95	0.9	2.31	amino acid permease
<b>Afu2g10650</b>	3	3.32	2.79	enoyl-CoA hydratase
<b>Afu2g10660</b>	1.8	2.02	1.28	mannitol-1-phosphate dehydrogenase
<b>Afu2g10730</b>	3.2	4.31	4.22	DNA polymerase alpha catalytic subunit, putative
<b>Afu2g10910</b>	1.59	2.91	2.33	maltose permease
<b>Afu2g10920</b>	1.95	2.86	1.53	enoyl-CoA hydratase/isomerase family protein
<b>Afu2g10950</b>	2.79	3.53	3.84	hypothetical protein
<b>Afu2g11010</b>	3.93	4.22	4.16	dihydroorotate reductase PyrE, putative
<b>Afu2g11060</b>	2.24	3.09	2.4	Acyl CoA binding protein family
<b>Afu2g11490</b>	2.15	2.13	3.28	acetylglutamate synthase
<b>Afu2g11520</b>	3.09	3.01	2.8	MFS monosaccharide transporter, putative
<b>Afu2g11540</b>	2.1	2.23	1.48	ketoreductase, putative
<b>Afu2g11600</b>	2.97	3.71	2.61	oxidoreductase, putative
<b>Afu2g11860</b>	1.18	2.02	2.61	hypothetical protein
<b>Afu2g11970</b>	2.4	2.49	3.52	phospholipase A2 (PlaA), putative
<b>Afu2g11990</b>	1.78	1.28	2.63	phosphoinositide phosphatase Pten/Tep1, putative
<b>Afu2g12020</b>	1.71	2.33	1.9	U6 snRNA-associated Sm-like protein LSM4, putative
<b>Afu2g12080</b>	2.08	2.55	2.06	mitochondrial phosphate transporter, putative
<b>Afu2g12400</b>	2.17	1.93	1.78	ATP synthase oligomycin sensitivity conferral protein, putative
<b>Afu2g12600</b>	0.69	3.27	3.32	hypothetical protein
<b>Afu2g12680</b>	-0.46	3.6	2.7	conserved hypothetical protein
<b>Afu2g12740</b>	1.98	2.35	2.1	methyltransferase, putative
<b>Afu2g12760</b>	2.57	2.91	3.38	conserved hypothetical protein
<b>Afu2g12790</b>	2.84	3.77	3.78	monocarboxylate transporter-like protein
<b>Afu2g12900</b>	2.24	2.19	1.61	Ni ion binding urease accessory protein UreG, putative
<b>Afu2g12940</b>	1.81	1.9	2.23	conserved hypothetical protein
<b>Afu2g12980</b>	2.7	3.17	3.27	protein transport protein (SEC31), putative
<b>Afu2g13010</b>	2.34	2.48	2.68	cytochrome c oxidase polypeptide vib
<b>Afu2g13160</b>	2.03	3.12	4.86	hypothetical protein
<b>Afu2g13170</b>	2.76	3.03	3.35	hypothetical protein

<b>Afu2g13250</b>	2.07	1.46	1.24	bifunctional tryptophan synthase TRPB
<b>Afu2g13270</b>	1.18	3.81	2.88	alcohol dehydrogenase, putative
<b>Afu2g13290</b>	2.69	3.93	3.64	GYF domain protein
<b>Afu2g13450</b>	2.36	3.21	2.52	dynactin, putative
<b>Afu2g13460</b>	0.52	1.22	2.07	alpha-amylase, putative
<b>Afu2g13580</b>	2.09	2.51	2.15	conserved hypothetical protein
<b>Afu2g13620</b>	2.16	1.72	1.69	thiamine pyrophosphate enzyme, putative
<b>Afu2g13650</b>	1.53	2.06		hypothetical protein
<b>Afu2g13740</b>	2.29	2.58	2.21	conserved hypothetical protein
<b>Afu2g13800</b>	2.63	3.04	3.44	malate dehydrogenase
<b>Afu2g13880</b>	1.35	2.01	2.69	SH3 domain protein
<b>Afu2g13890</b>	1.28	1.88	2.03	annexin ANXC3.2
<b>Afu2g13900</b>	0.99	2.13	1.05	multidrug resistance protein MDR
<b>Afu2g14020</b>	0.41	0.41	2.34	ATP transporter, putative
<b>Afu2g14180</b>	2.78	1.82	2.08	conserved hypothetical protein
<b>Afu2g14220</b>	2.54	2.22	2.71	conserved hypothetical protein
<b>Afu2g14230</b>	0.98	2.48		MFS transporter, putative
<b>Afu2g14270</b>	2.61	3.13	2.45	actin-binding protein, putative
<b>Afu2g14390</b>	2.82	4.49	3.7	methyltransferase, putative
<b>Afu2g14420</b>	1.2	3.71	1.89	cutinase, putative
<b>Afu2g14450</b>	1.28	2.18	2.8	hypothetical protein
<b>Afu2g14490</b>	1.51	4.51	4.85	endoglucanase, putative
<b>Afu2g14510</b>	1.89	1.97	2.27	hypothetical protein
<b>Afu2g14600</b>	2.73	2.73	1.53	ab-hydrolase associated lipase family
<b>Afu2g14610</b>	2.02	3.13	2.09	Oxalate decarboxylase
<b>Afu2g14740</b>	0.54	3.32	1.58	DUF821 domain protein
<b>Afu2g14790</b>	2.09	3.07	4.19	hypothetical protein
<b>Afu2g14850</b>	3.22	3.81	4.34	enoyl-CoA hydratase/isomerase family protein
<b>Afu2g14920</b>	3.59	4.59	4.24	protein kinase, putative
<b>Afu2g14930</b>	2.51	2.78	2.06	alanine racemase
<b>Afu2g14970</b>	2.72	2.82	2	Gamma-butyrobetaine hydroxylase subfamily, putative
<b>Afu2g14990</b>	2.1	3.31	2.86	tubulin alpha-2 subunit
<b>Afu2g15490</b>	2.54	3.18	2.96	TPR domain protein
<b>Afu2g15510</b>	2.11	3.09	2.9	conserved hypothetical protein
<b>Afu2g15550</b>	3.02	2.38		molybdenum cofactor biosynthesis protein Gephyrin, putative
<b>Afu2g15840</b>	1.77	2.04	2.3	HET-C domain protein
<b>Afu2g15850</b>	1.69	2.84	2.26	phytanoyl-CoA dioxygenase family protein

<b>Afu2g15930</b>	1.8	2.31	1.82	alcohol dehydrogenase, zinc-containing
<b>Afu2g15950</b>	1.26	3.61		aspartic endopeptidase, putative
<b>Afu2g16060</b>	1.38	2.07		conserved hypothetical protein
<b>Afu2g16170</b>	2.17	2.02	1.72	DNA-directed RNA polymerase III RPC4, putative
<b>Afu2g16200</b>	3.45	3.98	4.08	uracil phosphoribosyltransferase
<b>Afu2g16330</b>	0.94	2.5	1.58	glucokinase, putative
<b>Afu2g16360</b>	3.26	3.05	3.67	DRAP deaminase (Rib2), putative
<b>Afu2g16380</b>	2.19	2.19	2.05	conserved hypothetical protein
<b>Afu2g16490</b>	1.78	2.32	1.69	rhomboid family membrane protein
<b>Afu2g16510</b>	1.97	2.29	3.31	hypothetical protein
<b>Afu2g16520</b>	1.61	3.35	2.43	phospholipase D (PLD), putative
<b>Afu2g16630</b>	1.3	1.46	2.38	acyl-CoA dehydrogenase
<b>Afu2g17010</b>	3.17	3.19	3.01	NA
<b>Afu2g17200</b>	1.87	1.96	2.38	hypothetical protein
<b>Afu2g17280</b>	0.89	2.66	2.32	hypothetical protein
<b>Afu2g17300</b>	1.19	3.88	2.98	glutathione S-transferase
<b>Afu2g17320</b>	3.49	4.93	3.92	conserved hypothetical protein
<b>Afu2g17330</b>	0.95	2.87	1.97	serine peptidase, family S28, putative
<b>Afu2g17400</b>	1.8	2.7	1.92	C-3 sterol dehydrogenase/C-4 decarboxylase
<b>Afu2g17450</b>	0.58	2.63	1.94	3-hydroxyanthranilate 3,4-dioxygenase
<b>Afu2g17460</b>	1.53	2.68	2.17	aldehyde dehydrogenase, putative
<b>Afu2g17600</b>	1.53	2.16		polyketide synthetase PksP
<b>Afu2g17610</b>	1.47	2.44	2.23	sulfatase domain protein
<b>Afu2g17620</b>	0.9	2.58	1.12	cellobiose dehydrogenase
<b>Afu2g17640</b>	0.06	2.11	2.33	hypothetical protein
<b>Afu2g17650</b>	-0.34	2.06	3.08	DUF907 domain protein
<b>Afu2g17660</b>	2.15	3.04	2.22	C4-dicarboxylate transporter/malic acid transport protein, putative
<b>Afu2g18050</b>	0.56	1.47	2.22	FAD binding oxidoreductase, putative
<b>Afu3g00180</b>	0.24	2.9	-0.1	short chain dehydrogenase, putative
<b>Afu3g00320</b>	-0.02	3.75	1.84	endo-1,4-beta-xylanase (XlnA), putative
<b>Afu3g00350</b>	2.22	3.1	2.26	hypothetical protein
<b>Afu3g00380</b>	1.2	0.69	2.6	beta-galactosidase, putative
<b>Afu3g00420</b>	1.15	2.54	2.34	acetyl xylan esterase (Axe1), putative
<b>Afu3g00520</b>	-0.3	2.9	0.97	SIR2 family histone deacetylase, putative
<b>Afu3g00560</b>	-0.4	1.27	2.37	conserved hypothetical protein
<b>Afu3g00650</b>	1.53	3.06		aminopeptidase Y, putative
<b>Afu3g00660</b>	2	2.33		conserved hypothetical protein

<b>Afu3g00680</b>	3.1	3.38	2.18	copper amine oxidase
<b>Afu3g00720</b>	-0.15	1.59	3.1	DUF500 and UBA/TS-N domain protein
<b>Afu3g00730</b>	-0.2	1.86	3.01	conserved hypothetical protein
<b>Afu3g00740</b>	3.03	2.84	3.04	2-dehydropantoate 2-reductase, putative
<b>Afu3g00750</b>	3.19	3.64	3.96	short-chain dehydrogenase/reductase, putative
<b>Afu3g00760</b>	0.98	2.54	2.08	GNAT family N-acetyltransferase, putative
<b>Afu3g00840</b>	1.94	2.23	1.39	FAD-dependent oxygenase, putative
<b>Afu3g00880</b>	1.92	2.79	2.58	extracellular conserved serine-rich protein
<b>Afu3g00900</b>	5.1	5.73	6.07	alpha-amylase AmyA
<b>Afu3g00960</b>	3.77	4.9	4.73	conserved hypothetical protein
<b>Afu3g00990</b>	1.66	2.07		flavin-binding monooxygenase, putative
<b>Afu3g01180</b>	0.44	2.38	2.19	sarcosine oxidase, putative
<b>Afu3g01220</b>	0.81	2.25	2.49	aspartic-type endopeptidase, putative
<b>Afu3g01230</b>	0.95	3.95	2.37	sugar transporter-like protein
<b>Afu3g01240</b>	1.5	2.77	4.53	hypothetical protein
<b>Afu3g01280</b>	1.17	3.91	3.5	alpha/beta hydrolase, putative
<b>Afu3g01320</b>	2.91	3.83	2.92	homocysteine S-methyltransferase, putative
<b>Afu3g01330</b>	1.69	2.58	1.52	class II aldolase/adducin domain protein
<b>Afu3g01340</b>	1.53	2.47	1.7	DUF636 domain protein
<b>Afu3g01370</b>	4.43	5.55	6.08	MFS transporter, putative
<b>Afu3g01410</b>	0.64	2.17	2.08	polyketide synthase, putative
<b>Afu3g01430</b>	1	1.98	2.32	benzodiazepine receptor family protein
<b>Afu3g01480</b>	1.72	2.3	2.54	conserved hypothetical protein
<b>Afu3g01490</b>	1.53	2.45	2.25	alcohol dehydrogenase, putative
<b>Afu3g01500</b>	0.7	3.23	2.29	integral membrane protein
<b>Afu3g01530</b>	2.45	5.53	5.6	phosphatidylglycerol specific phospholipase, putative
<b>Afu3g01580</b>	2.72	3.87	4.7	GMC oxidoreductase, putative
<b>Afu3g01610</b>	2.93	4.46	4.9	hypothetical protein
<b>Afu3g01620</b>	0.81	2.07	1.27	Ankyrin and HET domain protein
<b>Afu3g01660</b>	1.37	3.88	3.44	putative hydrolase
<b>Afu3g01670</b>	1.32	3.77	1.31	MFS hexose transporter, putative
<b>Afu3g01700</b>	0.88	2.52	0.78	maltose permease
<b>Afu3g01810</b>	2.07	2.05	1.08	F-box domain protein
<b>Afu3g01850</b>	2.55	3.06	3.28	porphyromonas-type peptidyl-arginine deiminase superfamily
<b>Afu3g01860</b>	0.33	2	1.91	hypothetical protein
<b>Afu3g02220</b>	1.54	2.46	1.51	DUF427 domain protein
<b>Afu3g02250</b>	1.52	3.66	4.48	conserved hypothetical protein

<b>Afu3g02260</b>	2.36	3.19	3.51	hypothetical protein
<b>Afu3g02270</b>	2.46	3.59	1.33	mycelial catalase Cat1
<b>Afu3g02280</b>	4.6	4.78	4.45	alpha,alpha-trehalose glucohydrolase, putative
<b>Afu3g02360</b>	2.53	3.14	2.03	FAD dependent oxidoreductase superfamily
<b>Afu3g02830</b>	1.01	1.75	2.2	ankyrin repeat protein
<b>Afu3g02940</b>	6.08	6.55	6.01	allergen, putative
<b>Afu3g03000</b>	3.45	4.19	5.3	phosphatidylethanolamine-binding protein, putative
<b>Afu3g03010</b>	5.87	6.67	7.2	phosphate-repressible phosphate permease
<b>Afu3g03020</b>	3.64	3.96	3.66	phosphoglucomutase, putative
<b>Afu3g03140</b>	0.84	2.38	1.1	HET domain protein
<b>Afu3g03280</b>	1.46	2.6	3.86	FAD binding monooxygenase, putative
<b>Afu3g03370</b>	1.7	2.23	2.99	cell surface protein, putative
<b>Afu3g03390</b>	5.37	5.8	5.76	siderophore biosynthesis lipase/esterase, putative
<b>Afu3g03400</b>	4.82	5.95	6.06	siderophore biosynthesis acetylase AceI, putative
<b>Afu3g03410</b>	6.66	7.19	7.13	enoyl-CoA hydratase/isomerase family protein
<b>Afu3g03420</b>	5.71	6.25	7.32	hypothetical protein
<b>Afu3g03430</b>	5.35	5.94	6.67	ABC multidrug transporter SitT, putative
<b>Afu3g03440</b>	6.22	7.18	7.57	MFS family siderophore transporter, putative
<b>Afu3g03450</b>	2.3	3.08	3.39	cytochrome P450 pisatin demethylase, putative
<b>Afu3g03600</b>	1.4	2.57	3.09	carboxyl esterase A
<b>Afu3g03640</b>	2.07	5.53	4.67	siderochrome-iron transporter (MirB), putative
<b>Afu3g03660</b>	1.93	3.65	0.7	esterase superfamily protein
<b>Afu3g03670</b>	2.78	5.24	4.8	ABC multidrug transporter, putative
<b>Afu3g03700</b>	5.29	5.74	5.68	Sugar transporter subfamily
<b>Afu3g03720</b>	0.79	2.5	0.83	hypothetical protein
<b>Afu3g03810</b>	3.18	2.1	2.45	hypothetical protein
<b>Afu3g03820</b>	5.39	4.61	5.29	MFS transporter, putative
<b>Afu3g03830</b>	3.16	2.18	2.26	hypothetical protein
<b>Afu3g03850</b>	2.77	2.85	1.81	hypothetical protein
<b>Afu3g03860</b>	5.65	5.4	4.84	3-hydroxyacyl-CoA dehydrogenase, putative
<b>Afu3g05650</b>	2.21	2.23	2.29	alpha,alpha-trehalose-phosphate synthase subunit TPS2, putative
<b>Afu3g05730</b>	2.2	2.64	1.01	nicotinate-nucleotide pyrophosphorylase
<b>Afu3g05740</b>	2.14	2.55	2.13	aldose 1-epimerase, putative
<b>Afu3g05880</b>	3.89	3.85	4.9	oxysterol binding protein (Osh3), putative
<b>Afu3g06520</b>	2.71	3.15	3.89	hypothetical protein
<b>Afu3g07020</b>	1.53	2.94	3.34	annexin ANXC4
<b>Afu3g07140</b>	4.52	4.71	5.06	developmental regulator FluG

<b>Afu3g07150</b>	4.63	5.49	5.43	succinate-semialdehyde dehydrogenase, putative
<b>Afu3g07220</b>	2.04	1.32	1.78	conserved hypothetical protein
<b>Afu3g07310</b>	3	4.05	4.36	conserved hypothetical protein
<b>Afu3g07610</b>	1.31	2.48	1.61	hypothetical protein
<b>Afu3g07620</b>	2.78	2.8	3.6	ABC1 domain protein
<b>Afu3g07640</b>	2.51	2.07	2.23	plasma membrane H <sup>+</sup> -ATPase
<b>Afu3g07740</b>	2.84	2.93	3.2	hypothetical protein
<b>Afu3g07790</b>	3.03	2.77	2.79	argininosuccinate lyase
<b>Afu3g07810</b>	2.24	1.85	1.91	succinate dehydrogenase, flavoprotein subunit
<b>Afu3g07850</b>	3.2	3.46	4.41	dipeptidyl aminopeptidase Ste13
<b>Afu3g07860</b>	1.72	1.87	2.01	glycosyl transferase, putative
<b>Afu3g07870</b>	4.61	5.52	5.69	extracellular serine-rich protein
<b>Afu3g07890</b>	3.06	4.58	3.85	endo alpha-1,4 polygalactosaminidase, putative
<b>Afu3g07900</b>	1.1	2.85	2.12	conserved hypothetical protein
<b>Afu3g07910</b>	5.05	6.29	6.15	UDP-glucose 4-epimerase, putative
<b>Afu3g07980</b>	1.86	1.62	2.33	conserved hypothetical protein
<b>Afu3g08070</b>	1.4	1.74	2.85	GMC oxidoreductase, putative
<b>Afu3g08110</b>	0.4	3.91	3.33	cell wall protein, putative
<b>Afu3g08130</b>	1.71	2.99	2.09	hypothetical protein
<b>Afu3g08140</b>	2.43	2.35	1.12	fumarylacetoacetate hydrolase family protein
<b>Afu3g08150</b>	2.94	2.99	3.32	hypothetical protein
<b>Afu3g08200</b>	2.38	2.92	2.42	alpha-mannosidase
<b>Afu3g08270</b>	2.34	2.51	2.17	pyruvate dehydrogenase complex dihydrolipoamide acetyltransferase component, putative
<b>Afu3g08290</b>	2.88	2.91	1.22	aspartyl aminopeptidase
<b>Afu3g08310</b>	2.38	2.56	1.91	4-nitrophenylphosphatase
<b>Afu3g08380</b>	2.09	2.15	1.16	inorganic diphosphatase, putative
<b>Afu3g08490</b>	1.52	2.37	2.79	ThiJ/PfpI family protein
<b>Afu3g08610</b>	2.11	2.85	2.43	DUF124 domain protein
<b>Afu3g08660</b>	2.62	1.79	1.91	isocitrate dehydrogenase, NADP-dependent
<b>Afu3g08780</b>	2.33	2.27	2.54	Msn5 protein, putative
<b>Afu3g08850</b>	1.98	2.17	2.2	FAD dependent sulfhydryl oxidase Erv1, putative
<b>Afu3g08870</b>	2.02	2.58	3.42	conserved hypothetical protein
<b>Afu3g08950</b>	1.7	2	1.97	hypothetical protein
<b>Afu3g08980</b>	2.3	2.24	1.89	threonine synthase
<b>Afu3g09140</b>	2.8	4.17	4.67	endo 1,5-alpha-arabinase
<b>Afu3g09150</b>	2.96	4.48	4.6	oxidoreductase, short chain dehydrogenase/reductase family

<b>Afu3g09220</b>	2.95	3.14	2.66	fatty acid hydroxylase, putative
<b>Afu3g09240</b>	2.26	2.17	1.91	CAIB/BAIF family enzyme
<b>Afu3g09280</b>	2.75	2.86	3.41	eukaryotic translation initiation factor 3 subunit EifCk, putative
<b>Afu3g09560</b>	2.05	2.79	2.33	DNA polymerase epsilon, catalytic subunit A/POL2, putative
<b>Afu3g09630</b>	2.83	2.94	2.9	asparaginyl-tRNA synthetase
<b>Afu3g09680</b>	1.32	2.04		ABC transporter, putative
<b>Afu3g09690</b>	1.96	1.49	2.18	extracellular thaumatin domain protein, putative
<b>Afu3g09700</b>	2.97	2.51	2.88	Sec23/Sec24 family protein
<b>Afu3g09710</b>	1.85	2.38	1.6	amino acid permease
<b>Afu3g09720</b>	1.98	2.21	1.75	cleavage and polyadenylation specificity factor, putative
<b>Afu3g09740</b>	2.11	2.13	2.17	integral plasma membrane protein, putative
<b>Afu3g09850</b>	2.86	3.55	3.81	DNA mismatch repair protein Msh2, putative
<b>Afu3g09890</b>	1.47	2.11	1.88	hypothetical membrane protein, putative
<b>Afu3g10300</b>	2.65	2.32	1.54	galactokinase
<b>Afu3g10330</b>	2.54	2.54	3.42	hypothetical protein
<b>Afu3g10360</b>	1.59	2.08	1.7	vacuolar sorting protein 35
<b>Afu3g10390</b>	2.91	3.11	3.12	conserved hypothetical protein
<b>Afu3g10680</b>	2.32	3.39	3.71	conserved hypothetical protein
<b>Afu3g10700</b>	2.06	1.96	0.9	Arp2/3 complex subunit Arc16, putative
<b>Afu3g10710</b>	2.08	1.96	2.01	conserved hypothetical protein
<b>Afu3g10720</b>	2.09	2.05	2.46	dynactin Arp1 p62 subunit RO2
<b>Afu3g10830</b>	2.14	2.21	2.11	glutathione S-transferase family protein
<b>Afu3g10850</b>	1.93	1.72	2.27	DUF821 domain protein
<b>Afu3g10890</b>	2.69	2.83	3.65	ATP dependent RNA helicase (Dbp8), putative
<b>Afu3g10910</b>	3.37	3.65	3.71	glutaminase A
<b>Afu3g10920</b>	2.62	2.26	1.57	telomere and ribosome associated protein Stm1, putative
<b>Afu3g10980</b>	1.63	1.74	2.31	VanZ domain protein, putative
<b>Afu3g11280</b>	2.22	2.76	2.05	class V chitinase, putative
<b>Afu3g11480</b>	4.33	4.53	3.91	mitochondrial methylglutaconyl-CoA hydratase (Auh), putative
<b>Afu3g11490</b>	3.19	2.94	2.58	GABA permease, putative
<b>Afu3g11510</b>	2.49	3.29	1.91	O-acetyltransferase, putative
<b>Afu3g11640</b>	4.04	4.3	2.85	homoserine dehydrogenase
<b>Afu3g11650</b>	3	4.38	5.37	hypothetical protein
<b>Afu3g11770</b>	2.68	3.22	2.05	hypothetical protein

<b>Afu3g11780</b>	2.84	3.51	2.89	beta-N-acetylglucosaminidase, putative
<b>Afu3g11820</b>	2.43	2.44	2.81	mitochondrial oligoribonuclease, putative
<b>Afu3g11900</b>	3.09	4.29	3.08	oxidoreductase, zinc-binding
<b>Afu3g11920</b>	1.45	3.06	0.62	dihydrodipicolinate synthetase family protein
<b>Afu3g11930</b>	1.63	2.14	1.91	NAD binding Rossmann fold oxidoreductase, putative
<b>Afu3g11980</b>	1.52	1.22	2.69	oxidoreductase, 2OG-Fe(II) oxygenase family family
<b>Afu3g12070</b>	1.53	1.35	2.04	conserved hypothetical protein
<b>Afu3g12090</b>	1.5	1.92	3.44	hypothetical protein
<b>Afu3g12170</b>	1.19	2.41	1.36	MFS sugar transporter, putative
<b>Afu3g12250</b>	0.91	2.42	0.85	protein-tyrosine phosphatase, putative
<b>Afu3g12460</b>	2.02	2.84	2.3	conserved hypothetical protein
<b>Afu3g12600</b>	0.99	2.91	2.59	beta-glucosidase 1
<b>Afu3g12620</b>	1.19	3.34	3.07	acyl-CoA:6-aminopenicillanic-acid-acyltransferase, putative
<b>Afu3g12740</b>	2.06	2.35	1.58	copper resistance-associated P-type ATPase, putative
<b>Afu3g12770</b>	2.72	2.59	1.91	putative nucleoside-diphosphate-sugar epimerase
<b>Afu3g12790</b>	3.28	4.1	3.74	conserved glutamic acid-rich protein
<b>Afu3g12800</b>	2.09	2.38	1.53	conserved hypothetical protein
<b>Afu3g12840</b>	2.92	3.54	3.07	Signal peptidase I
<b>Afu3g12860</b>	1.93	2.02	1.71	hypothetical protein
<b>Afu3g12900</b>	3.22	2.45	2	monocarboxylate transporter (Mch4), putative
<b>Afu3g13110</b>	0.55	2.44	2.59	extracellular serine-threonine rich protein
<b>Afu3g13120</b>	3.55	3.63	1.74	porphobilinogen deaminase
<b>Afu3g13140</b>	1.82	1.92	2.68	7alpha-cephem-methoxylase P8 chain, putative
<b>Afu3g13320</b>	2.83	2.28	0.77	40S ribosomal protein S0, putative
<b>Afu3g13410</b>	1.89	2.1	0.86	hypothetical protein
<b>Afu3g13660</b>	0.66	2.43		Ctr copper transporter family protein
<b>Afu3g13700</b>	-0.07	2.08	0.21	transferase family protein
<b>Afu3g13980</b>	1.97	2.34	2.11	glucose transporter
<b>Afu3g14030</b>	4.05	4.52	5.11	alkaline phosphatase
<b>Afu3g14170</b>	2.01	3.06	1.91	high-affinity hexose transporter
<b>Afu3g14260</b>	1.6	2.01	3.57	mismatched base pair and cruciform DNA recognition protein, putative
<b>Afu3g14320</b>	2.52	2.35	1.71	Golgi transport protein Sly1, putative
<b>Afu3g14380</b>	1.76	2.64	2.15	endosomal sorting complex protein TSG101, putative
<b>Afu3g14460</b>	2.41	2.29	2.63	Rad51 family DNA repair protein, putative
<b>Afu3g14470</b>	3.2	3.12	3.25	Pyridoxal-phosphate dependent enzyme, putative
<b>Afu3g14500</b>	1.39	2.09	1.78	isochorismatase family protein family

<b>Afu3g14510</b>	1.09	3.02	1.77	rhamnogalacturonan acetyesterase, putative
<b>Afu3g14520</b>	2.2	2.19	0.9	enoyl-CoA hydratase/isomerase family protein
<b>Afu3g14570</b>	2.47	3.94	3.43	histidine acid phosphatase, putative
<b>Afu3g14590</b>	2.16	3.17	2.81	copper amine oxidase
<b>Afu3g14600</b>	2.33	2.86	2.32	fungal specific transcription factor, putative
<b>Afu3g14650</b>	3.08	3.66	3.99	hypothetical protein
<b>Afu3g14660</b>	2.5	3.12	2.5	hypothetical protein
<b>Afu3g14670</b>	1.08	1.48	2.87	MFS transporter, putative
<b>Afu3g14680</b>	2.82	5.89	4.8	lysophospholipase Plb3
<b>Afu3g14920</b>	0.99	3.24	1.64	LaeA-like methyltransferase, putative
<b>Afu3g15210</b>	0.38	4.15	1.6	endo-1,4-beta-xylanase, putative
<b>Afu3g15340</b>	2.09	1.95	3.2	hypothetical protein
<b>Afu4g00150</b>	2.41	2.73	1.83	MFS maltose transporter, putative
<b>Afu4g00370</b>	2.51	2.53	2.4	general amidase, putative
<b>Afu4g00390</b>	1.24	4.5	3.62	glycosyl hydrolase, putative
<b>Afu4g00460</b>	1	2.15	0.52	chlorohydrolase family protein, putative
<b>Afu4g00610</b>	0.93	4.62	4.22	aryl-alcohol dehydrogenase, putative
<b>Afu4g00620</b>	1.93	2.32	0.76	glycosyl hydrolase, putative
<b>Afu4g00660</b>	3.13	3.3	4.54	sensor histidine kinase/response regulator, putative
<b>Afu4g00670</b>	2.71	2.19	2.86	nucleoside-diphosphate-sugar epimerases, putative
<b>Afu4g00700</b>	1.36	2.73	2.04	oxidoreductase, zinc-binding
<b>Afu4g00750</b>	2.31		2.9	hypothetical protein
<b>Afu4g00760</b>	1.15	2.98	2.86	hypothetical protein
<b>Afu4g00800</b>	4.56	4.43	4.96	MFS monosaccharide transporter, putative
<b>Afu4g00830</b>	1.72	1.78	3.37	MFS peptide transporter, putative
<b>Afu4g00930</b>	2.13	2.66	3.14	CorA family metal ion transporter, putative
<b>Afu4g00990</b>	1.48	2.47		MFS quinate transporter, putative
<b>Afu4g01000</b>	1.85	2.28	1.86	MFS transporter, putative
<b>Afu4g01060</b>	2.5	2.83	3.7	hypothetical protein
<b>Afu4g01070</b>	0.61	2.53	1.47	acid phosphatase, putative
<b>Afu4g01140</b>	4.87	4.48	5.4	MFS multidrug transporter, putative
<b>Afu4g01160</b>	0.28	2.85	2.05	von Willebrand domain protein
<b>Afu4g01290</b>	0.63	4.08	2.2	endo-chitosanase, pseudogene
<b>Afu4g01350</b>	0.88	2.79	0.89	hypothetical protein
<b>Afu4g01550</b>	2.41	3.87	3.56	aldehyde dehydrogenase, putative
<b>Afu4g01580</b>	0.74	2.68		ankyrin repeat protein
<b>Afu4g05940</b>	2.13	2.51	2.25	phosphoethanolamine
<b>Afu4g05970</b>	2.07	2.36	2.39	para-hydroxybenzoate-polyprenyltransferase precursor

<b>Afu4g06420</b>	2.59	2.18	3.31	fungal specific transcription factor, putative
<b>Afu4g06460</b>	3.79	4.77	4.61	pentafunctional AROM polypeptide, putative
<b>Afu4g06600</b>	3.25	3.14	3.83	hypothetical protein
<b>Afu4g06620</b>	2.47	1.59	1.37	Glutamate/Leucine/Phenylalanine/Valine dehydrogenase, putative
<b>Afu4g06640</b>	3.15	5.22	5.69	acid sphingomyelinase
<b>Afu4g06670</b>	2.66	3.46	3.21	allergen Asp F7
<b>Afu4g06690</b>	1.89	2.28	2.76	ribonucleotide reductase large subunit (Rnr1), putative
<b>Afu4g06750</b>	1.17	2.07	1.95	protein kinase, putative
<b>Afu4g06800</b>	2.28	2.56	2.47	DNA-3-methyladenine glycosylase, putative
<b>Afu4g06850</b>	1.73	1.48	2.17	coenzyme a synthetase
<b>Afu4g06860</b>	4.09	4.92	5.45	conserved hypothetical protein
<b>Afu4g06910</b>	3.28	3.63	2.78	outer mitochondrial membrane protein porin
<b>Afu4g07130</b>	2.67	2.45	2.3	diphosphomevalonate decarboxylase
<b>Afu4g07150</b>	1.58	2.07	2.2	cytochrome-c oxydase chain VIIC-like protein
<b>Afu4g07310</b>	1.96	2.51	2.46	conserved hypothetical protein
<b>Afu4g07320</b>	1.82	2.16	2.95	conserved hypothetical protein
<b>Afu4g07350</b>	1.64	1.96	2.03	conserved hypothetical protein
<b>Afu4g07710</b>	2.36	2.83	3.6	pyruvate carboxylase, putative
<b>Afu4g07790</b>	1.29	2.16	1.63	hypothetical protein
<b>Afu4g07810</b>	1.23	1.93	2.57	L-serine dehydratase, putative
<b>Afu4g07940</b>	2.49	2.86	2.23	oxidoreductase, 2-nitropropane dioxygenase family, putative
<b>Afu4g08020</b>	2.9	3.17	3.4	hypothetical protein
<b>Afu4g08170</b>	2.63	2.52	2.28	succinate-semialdehyde dehydrogenase, putative
<b>Afu4g08580</b>	2.56	2.96	1.87	antioxidant protein LsfA
<b>Afu4g08600</b>	3.28	3.57	2.76	aldehyde dehydrogenase, putative
<b>Afu4g08610</b>	2.79	3.58	2.57	regucalcin homolog [imported]
<b>Afu4g08630</b>	1.42	1.85	2.77	phytase
<b>Afu4g08680</b>	2.02	2.09	2.68	hypothetical protein
<b>Afu4g08690</b>	2.08	2.12	2.69	dihydrodipicolinate synthetase family protein
<b>Afu4g08710</b>	3.2	4.11	2.55	short chain dehydrogenase, putative
<b>Afu4g08730</b>	0.43	2.28	1.16	conserved hypothetical protein
<b>Afu4g08840</b>	1.3	3.97	2.7	RING finger domain protein, putative
<b>Afu4g08880</b>	1.53	2.47	1.04	possible apospory-associated protein c
<b>Afu4g09130</b>	0.74	1.36	2.13	mannosyltransferase, putative
<b>Afu4g09180</b>	2.17	1.35	1.43	SET domain protein
<b>Afu4g09200</b>	2.05	2.05		hypothetical protein

<b>Afu4g09210</b>	2.01	2.64	2.79	phosphate transporter
<b>Afu4g09220</b>	1.72	2.27	1.32	hypothetical protein
<b>Afu4g09300</b>	1.38	4.08	4.04	hypothetical protein
<b>Afu4g09310</b>	0.95	4.24	3.35	hypothetical protein
<b>Afu4g09320</b>	5.2	5.25	6.29	antigenic dipeptidyl-peptidase Dpp4
<b>Afu4g09330</b>	2.62	3.99	3.2	conserved hypothetical protein
<b>Afu4g09340</b>	3.35	4.26	3.86	hypothetical protein
<b>Afu4g09350</b>	2.92	2.78	2.13	hypothetical protein
<b>Afu4g09360</b>	2.98	2.69	2.03	ATP synthase proteolipid P2, putative
<b>Afu4g09440</b>	2.94	3.45	3.41	sodium P-type ATPase, putative
<b>Afu4g09450</b>	2.66	3.53	3.65	hypothetical protein
<b>Afu4g09560</b>	3.35	4.07	4.52	ZIP Zinc transporter, putative
<b>Afu4g09580</b>	4.45	6.36	6.99	major allergen Asp F2
<b>Afu4g09920</b>	1.83	1.8	4.38	conserved hypothetical protein
<b>Afu4g10150</b>	4.7	5.91	4.27	alpha-glucosidase
<b>Afu4g10160</b>	1.71	3.64		C6 transcription factor (AmyR), putative
<b>Afu4g10230</b>	2.62	3.42	3.67	conserved hypothetical protein
<b>Afu4g10370</b>	3	2.92	3.09	3-demethylubiquinone-9 3-methyltransferase
<b>Afu4g10410</b>	2.87	3.19	2.93	aspartate aminotransferase, putative
<b>Afu4g10610</b>	1.62	2.72	2.5	hypothetical protein
<b>Afu4g10950</b>	2.45	2.63	2.37	3-ketoacyl-coA thiolase peroxisomal A precursor
<b>Afu4g11050</b>	2.2	1.63	0.88	NADH-ubiquinone oxidoreductase, subunit F, putative
<b>Afu4g11100</b>	3.46	3.47	3.4	conserved hypothetical protein
<b>Afu4g11160</b>	2.77	2.99	3.29	cell division control protein 31
<b>Afu4g11240</b>	2.26	1.95	2.55	alpha-aminoadipate reductase large subunit, putative
<b>Afu4g11320</b>	0.61	1.92	2.68	hypothetical protein
<b>Afu4g11330</b>	2.22	1.63	2.16	Aha1 domain family
<b>Afu4g11400</b>	4.12	4.29	4.23	cell surface receptor/MFS transporter (FLVCR), putative
<b>Afu4g11470</b>	2.9	3.12	3.61	conserved hypothetical protein
<b>Afu4g11500</b>	2.82	2.59	2.6	3-ketosteroid reductase
<b>Afu4g11550</b>	3.13	2.23	0.89	hypothetical protein
<b>Afu4g11590</b>	2.43	2.44	2.41	hypothetical protein
<b>Afu4g11620</b>	3.65	4.13	3.27	conserved hypothetical protein
<b>Afu4g11680</b>	2.13	2.06	2.19	conserved hypothetical protein
<b>Afu4g11740</b>	1.22	2.25	1.04	hypothetical protein
<b>Afu4g11750</b>	2.6	3.11	2.75	hypothetical protein
<b>Afu4g11800</b>	0.69	3.98	2.41	alkaline serine protease Alp1
<b>Afu4g11910</b>	2.08	1.56	1.27	N-terminal acetyltransferase catalytic subunit (NAT1),

			putative
<b>Afu4g12000</b>	1.96	2.2	1.51 phosphatidylinositol phospholipase C
<b>Afu4g12150</b>	2.97	3.5	3.44 HIT domain protein
<b>Afu4g12210</b>	0.61	2.16	1.35 DNA replication helicase (Dna2), putative
<b>Afu4g12240</b>	1.58	1.84	2.05 putitive nitrilase homolog
<b>Afu4g12320</b>	1.68	2.02	toxin biosynthesis protein, putative
<b>Afu4g12370</b>	1.22	3.46	3.35 hypothetical protein
<b>Afu4g12510</b>	0.71	0.89	2.71 hypothetical protein
<b>Afu4g12540</b>	2.14	2.33	1.9 hypothetical protein
<b>Afu4g12620</b>	1.92	2.22	2.99 copper-transporting ATPase, putative
<b>Afu4g12670</b>	2.25	2.78	2.33 DNA repair protein rad1, putative
<b>Afu4g12740</b>	2.32	2.53	3.12 tRNA (adenine-N(1)-)-methyltransferase
<b>Afu4g12840</b>	2.42	2.83	1.89 class II aldolase/adducin domain protein
<b>Afu4g12850</b>	2.82	2.69	2.71 calnexin
<b>Afu4g12880</b>	2.75	3.55	2.89 hypothetical protein
<b>Afu4g12900</b>	2.81	3.18	2.92 alpha-1,6-mannosyltransferase subunit (Ecm39), putative
<b>Afu4g12920</b>	2	1.15	1.59 histidyl-tRNA synthetase, mitochondrial precursor
<b>Afu4g12930</b>	2.42	2.2	2.1 ubiquinone biosynthesis monooxygenase (Coq6), putative
<b>Afu4g12980</b>	0.95	1.72	2.12 conserved hypothetical protein
<b>Afu4g12990</b>	2.01	1.82	1.62 thioredoxin reductase
<b>Afu4g13000</b>	1.82	2.51	1.71 flavin-containing amine oxidase, putative
<b>Afu4g13090</b>	2.19	3.56	3.38 MFS transporter, putative
<b>Afu4g13110</b>	1.47	1.89	3.02 hypothetical protein
<b>Afu4g13250</b>	2.92	2.96	4.15 Calponin homology (CH) domain protein
<b>Afu4g13260</b>	2.07	3.61	3.79 hypothetical protein
<b>Afu4g13420</b>	2.14	1.71	2.59 hypothetical protein
<b>Afu4g13580</b>	3.11	4.07	3.38 gamma-glutamyltranspeptidase
<b>Afu4g13880</b>	2.72	2.57	1.8 ankyrin repeat protein
<b>Afu4g13900</b>	3.7	3.39	2.54 MFS transporter, putative
<b>Afu4g13950</b>	1.14	3.3	2.31 GNAT family acetyltransferase, putative
<b>Afu4g13990</b>	0	2.33	3.31 hypothetical protein
<b>Afu4g14000</b>	0.56	3.51	0.87 tripeptidyl peptidase A
<b>Afu4g14010</b>	2.27	3.19	3.45 oxidoreductase, short chain dehydrogenase/reductase family superfamily
<b>Afu4g14070</b>	0.5	4.82	5.77 glycosyl transferase, putative
<b>Afu4g14090</b>	1.95	4.19	5.35 UDP-glucose 4-epimerase
<b>Afu4g14110</b>	1.4	2.88	1.55 hypothetical protein
<b>Afu4g14120</b>	1.22	2.89	1.82 cutinase, putative

<b>Afu4g14130</b>	1.41	2.35	0.81	ABC multidrug transporter, putative
<b>Afu4g14180</b>	-0.58	1.43	2.3	hypothetical protein
<b>Afu4g14190</b>	1.34	2.3	2.99	hypothetical protein
<b>Afu4g14230</b>	1.09	2.5	3.26	MFS transporter, putative
<b>Afu4g14240</b>	1.11	1.97	2.25	O-methyltransferase
<b>Afu4g14420</b>	2.91	4.48	4.14	secreted glycosyl hydrolase, putative
<b>Afu4g14670</b>	2.3	1.91		MFS quinate transporter, putative
<b>Afu4g14730</b>	0.44	3.26	4.06	GNAT family acetyltransferase, putative
<b>Afu5g00390</b>	3.07	3.37	2.4	hypothetical protein
<b>Afu5g00480</b>	2.89	3.04	2.9	fructan beta-fructosidase, putative
<b>Afu5g00590</b>	2.02	3.24	2.17	hypothetical protein
<b>Afu5g00640</b>	0.9	2.14	0.36	peroxisomal dehydratase, putative
<b>Afu5g00670</b>	2.18	3.15	3.14	glycosyl hydrolase family 35, putative
<b>Afu5g00680</b>	2.04	2.83	2.58	CRAL/TRIO domain protein
<b>Afu5g00710</b>	0.51	2.74	2	GABA permease, putative
<b>Afu5g00720</b>	0.82	2.77	1.5	acetyltransferase, GNAT family family
<b>Afu5g01030</b>	0.33	4.08	4.96	glyceraldehyde 3-phosphate dehydrogenase (Ccg-7), putative
<b>Afu5g01200</b>	-0.39	2.85	0.55	carboxypeptidase S1, putative
<b>Afu5g01230</b>	0.7	2.6	-0.14	RTA1 domain protein, putative
<b>Afu5g01360</b>	0.95	2.28	1.96	cytochrome P450, putative
<b>Afu5g01370</b>	1.02	2.61	1.18	conserved hypothetical protein
<b>Afu5g01380</b>	2.22	1.31	1.23	conserved hypothetical protein
<b>Afu5g01440</b>	2.31	3.08	3.01	allergen, putative
<b>Afu5g01450</b>	2.8	2.27	1.85	NADH-dependent flavin oxidoreductase, putative
<b>Afu5g01620</b>	-1.15	2.29	2.36	extracellular proline-rich protein
<b>Afu5g01630</b>	2.2	3.15	2.06	major facilitator superfamily
<b>Afu5g01680</b>	1.28	1.99	2.24	MFS transporter, putative
<b>Afu5g01690</b>	1.26	2.3	1.09	conserved hypothetical protein
<b>Afu5g01710</b>	2.86	2.14	3.34	cytochrome P450 phenylacetate 2-hydroxylase, putative
<b>Afu5g01730</b>	2.38	2.59	3.52	MYB DNA-binding domain protein
<b>Afu5g01770</b>	2.43	3.18	2.39	conserved hypothetical protein
<b>Afu5g01820</b>	1.66	2.11	1.85	DUF221 domain protein, putative
<b>Afu5g01880</b>	2.21	2.67	2.63	conserved hypothetical protein
<b>Afu5g01910</b>	2.12	2.58	2.45	aldo-keto reductase (AKR), putative
<b>Afu5g01990</b>	-0.59	2.41	1.73	BYS1 domain protein, putative
<b>Afu5g02000</b>	1.2	2.29	-0.67	co-factor independent proline racemase, putative
<b>Afu5g02020</b>	2.08	4.13		aldehyde reductase (GliO), putative

<b>Afu5g02080</b>	2.45	3.23	2.12	NADH-ubiquinone oxidoreductase
<b>Afu5g02250</b>	1.08	1.19	3	conserved hypothetical protein
<b>Afu5g02310</b>	2.84	2.96	3.03	alpha/beta hydrolase, putative
<b>Afu5g02350</b>	3.88	3.94	3.54	hydrolase, carbon-nitrogen family, putative
<b>Afu5g02460</b>	2.18	2.03	2.32	conserved hypothetical protein
<b>Afu5g02490</b>	2.04	1.64	1.05	zinc-binding oxidoreductase, putative
<b>Afu5g02500</b>	1.14	1.39	2.42	hypothetical protein
<b>Afu5g02550</b>	1.89	2.22	2.54	conserved hypothetical protein
<b>Afu5g02590</b>	1.76	2.34	2.26	20S cyclosome subunit (Cut9/Cdc16), putative
<b>Afu5g02750</b>	2.44	2.99	2.48	cytochrome c oxidase subunit Va, putative
<b>Afu5g02820</b>	1.76	2.46	2.37	hypothetical protein
<b>Afu5g02850</b>	2.49	3.23	2.38	conserved hypothetical protein
<b>Afu5g02930</b>	3.79	3.5	4.22	lysophospholipase, putative
<b>Afu5g02940</b>	4.19	3.14	3.67	choline transport protein Ctr, putative
<b>Afu5g02960</b>	3.07	3.5	3.56	hypothetical protein
<b>Afu5g02990</b>	1.98	1.94	2.13	aromatic amino acid aminotransferase, putative
<b>Afu5g03010</b>	0.86	2.91	2.51	conserved hypothetical protein
<b>Afu5g03020</b>	3.47	2.94	2.03	60s ribosomal protein l2
<b>Afu5g03110</b>	2.58	3.69	2.72	conserved hypothetical protein
<b>Afu5g03380</b>	2.72	2.57	1.42	flavin dependent monooxygenase, putative
<b>Afu5g03490</b>	2.25	2.61	2.01	nucleoside diphosphate kinase
<b>Afu5g03540</b>	1.67	2.32	2.62	pyridine nucleotide-disulphide oxidoreductase, class II, putative
<b>Afu5g03550</b>	1.92	2.37	2.02	plasma membrane H(+)ATPase, putative
<b>Afu5g03750</b>	1.38	3.27	2.94	WW domain protein
<b>Afu5g03760</b>	3.48	4.74	4.36	class III chitinase ChiA1
<b>Afu5g03960</b>	0.75	1.38	2.04	class V chitinase Chi100
<b>Afu5g04210</b>	2.7	1.65	1.37	ubiquinol-cytochrome C reductase complex core protein 2, putative
<b>Afu5g04230</b>	2.57	2.04	1.97	citrate synthase, eukaryotic
<b>Afu5g04250</b>	2.42	2.3	1.5	homocysteine synthase, putative
<b>Afu5g06490</b>		2.07		hypothetical protein
<b>Afu5g06500</b>	2.95	3.32	2.86	acyl-CoA dehydrogenase family protein
<b>Afu5g06550</b>	1.7	2.04	2.22	filamentation protein (Rhf1), putative
<b>Afu5g06560</b>	1.91	2.11	2.31	conserved hypothetical protein
<b>Afu5g06570</b>	1.83	2.06	2.01	hypothetical protein
<b>Afu5g06610</b>	2.07	2.26	2.52	glutathione synthetase
<b>Afu5g06680</b>	0.98	2.68	2.38	4-aminobutyrate aminotransferase

<b>Afu5g06710</b>	2.15	1.8	2.03	DUF89 domain protein
<b>Afu5g06780</b>	2.08	1.64	2.21	carbamoyl-phosphate synthase, small subunit
<b>Afu5g06820</b>	0.68	2.01	2.2	hypothetical protein
<b>Afu5g06910</b>	4.1	5.31	5.58	DUF636 domain protein
<b>Afu5g06960</b>	2.49	2.65	2.45	conserved hypothetical protein
<b>Afu5g06990</b>	1.89	2.26		catecholamine-O-methyltransferase, putative
<b>Afu5g07140</b>	2.17	2.55	2.9	translation elongation factor G2, putative
<b>Afu5g07180</b>	2.53	2.87	3.03	conserved proline-glycine rich protein
<b>Afu5g07190</b>	2.86	4.08	3.73	beta-glucosidase
<b>Afu5g07300</b>	1.69	2.23	1.49	electron transfer flavoprotein, beta subunit [imported]
<b>Afu5g07330</b>	1.97	3.65	1.69	carboxypeptidase S1, putative
<b>Afu5g07360</b>	1.15	1.56	2.39	peroxisomal copper amine oxidase
<b>Afu5g07400</b>	2.12	2.81	1.25	phenylacetyl-CoA ligase PclA, putative
<b>Afu5g07500</b>	2.02	1.73	1.51	beta-lactamase
<b>Afu5g07560</b>	2.29	2.37	1.69	capsular associated protein, putative
<b>Afu5g07580</b>	1.15	2.73		methylmalonyl-CoA decarboxylase, alpha subunit, putative
<b>Afu5g07610</b>	2.34	3.5	3.07	NA
<b>Afu5g07620</b>	4.37	5.06	5.68	DUF1212 domain membrane protein
<b>Afu5g07630</b>	2.49	3.23	2.42	ubiE/COQ5 methyltransferase, putative
<b>Afu5g07640</b>	2.32	3.06	3.55	RNA 3'-terminal phosphate cyclase, putative
<b>Afu5g07660</b>	0.51	2.16	1.02	hypothetical protein
<b>Afu5g07670</b>	1.47	2.94	3.22	SH3 domain signalling protein
<b>Afu5g07690</b>	2.18	3.15	1.4	conserved hypothetical protein
<b>Afu5g07700</b>	1.54	3.28	3.34	NA
<b>Afu5g08120</b>	3.51	4.69	5.59	arginine biosynthesis bifunctional protein ArgJ
<b>Afu5g08250</b>	2.73	2.74		hypothetical protein
<b>Afu5g08620</b>	2.22	2.32	1.85	Ser/Thr protein phosphatase family
<b>Afu5g08630</b>	1.81	2.35	2.05	LCCL domain protein
<b>Afu5g08810</b>	3.23	3.38	4.82	epoxide hydrolase, putative
<b>Afu5g08830</b>	1.17	4.15	4.71	HEX1
<b>Afu5g08860</b>	1.2	1.86	2.26	hypothetical protein
<b>Afu5g08890</b>	2.12	1.82	2.62	homoaconitase LysF
<b>Afu5g08900</b>	1.5	1.81	2.03	D-arabinitol dehydrogenase ArbD, putative
<b>Afu5g08970</b>	2.34	2.35	2.25	oligosaccharyl transferase subunit (beta), putative
<b>Afu5g09070</b>	-0.38	3	0.65	hypothetical protein
<b>Afu5g09130</b>	3.77	3.44	3.6	polysaccharide deacetylase family protein
<b>Afu5g09140</b>	3.97	3.41	3.41	amidase, putative

<b>Afu5g09150</b>	2.49	2.18	1.05	oxidoreductase, short-chain dehydrogenase/reductase family
<b>Afu5g09280</b>	2.03	1.96	1.48	conserved hypothetical protein
<b>Afu5g09290</b>	2.01	2.35	2.04	NAD-dependent 15-hydroxyprostaglandin dehydrogenase
<b>Afu5g09340</b>	2.33	2.21	1.96	Phospholipase/Carboxylesterase superfamily
<b>Afu5g09400</b>	4.16	4.8	3.96	carbonyl reductase, putative
<b>Afu5g09530</b>	1.33	2.5	2.72	conserved hypothetical protein
<b>Afu5g09560</b>	2.35	2.07	2.68	ankyrin repeat protein (Yar1), putative
<b>Afu5g09600</b>	1.99	2.78	1.56	2-nitropropane dioxygenase family oxidoreductase, putative
<b>Afu5g09790</b>	2.93	3.74	2.23	beta-lactamase
<b>Afu5g09800</b>	1.9	3.61	3.4	hypothetical protein
<b>Afu5g09860</b>	2.12	2.47	1.94	esterase, putative
<b>Afu5g09940</b>	1.68	1.4	2.05	MFS transporter of unknown specificity
<b>Afu5g09960</b>	1.52	2.42	2.88	GPI anchored protein, putative
<b>Afu5g09970</b>	1.91	1.74	2.24	67 kDa myosin-cross-reactive antigen family protein
<b>Afu5g09990</b>	1.48	2.31	0.62	C6 transcription factor, putative
<b>Afu5g10010</b>	3.25	4.83	5.01	extracellular serine-threonine rich protein
<b>Afu5g10020</b>	3.82	4.39		sensor histidine kinase/response regulator, putative
<b>Afu5g10230</b>	2.08	2.71	2.38	NA
<b>Afu5g10250</b>	1.78	3.28	4.67	hypothetical protein
<b>Afu5g10280</b>	3.4	3.61	2.14	oxidoreductase, acting on the CH-OH group of donors, NAD or NADP as acceptor
<b>Afu5g10290</b>	4.86	4.71	4.04	fructose-bisphosphate aldolase, putative
<b>Afu5g10430</b>	2.55	3.1	2.01	MSF multidrug transporter, putative
<b>Afu5g10510</b>	0.86	2.19	2.1	ABC transporter, putative
<b>Afu5g10520</b>	2.09	2.57	2.44	alpha-1,2-mannosidase family protein
<b>Afu5g10550</b>	2.88	2.28	1.62	ATP synthase F1, beta subunit, putative
<b>Afu5g10560</b>	3.65	3.86	3.7	cytochrome c oxidase subunit V
<b>Afu5g10650</b>	1.77	1.72	2.3	pyridoxamine phosphate oxidase, putative
<b>Afu5g10740</b>	2.59	3.07	3.36	conserved hypothetical protein
<b>Afu5g10890</b>	1.88	2.51	2.75	DNA replication licensing factor Mcm6, putative
<b>Afu5g11210</b>	2.23	2.21	1.95	molybdopterin binding domain protein
<b>Afu5g11240</b>	2.23	1.91	0.63	oxidoreductase, short chain dehydrogenase/reductase family
<b>Afu5g11400</b>	2.92	2.82	2.45	mRNA cleavage factor complex II protein Clp1, putative
<b>Afu5g11430</b>	2.2	2.38	2.52	quinone oxidoreductase, putative
<b>Afu5g11440</b>	1.89	2.11	2.32	hypothetical protein

<b>Afu5g11610</b>	1.92	2.22	1.65	shk1 kinase-binding protein 1
<b>Afu5g11810</b>	1.59	3.28	3.78	cytoplasmic dynein heavy chain
<b>Afu5g11850</b>	4.33	4.45	4.04	mitochondrial carrier protein (Pet8), putative
<b>Afu5g12460</b>	1.59	2.28	0.38	2-amino-3-carboxymuconate-6-semialdehyde decarboxylase, putative
<b>Afu5g12480</b>	3.81	4.37	3.24	short chain dehydrogenase/reductase family
<b>Afu5g12550</b>	2.48	2.89	3.38	N-acetylglucosaminyl-phosphatidylinositol deacetylase, putative
<b>Afu5g12600</b>	1.76	2.64	2.45	DNA excision repair protein (Rad5), putative
<b>Afu5g12610</b>	1.41	1.34	2.27	conserved hypothetical protein
<b>Afu5g12690</b>	3.85	3.66	3.61	dihydroxyacetone kinase (DakA), putative
<b>Afu5g12770</b>	1.68	3.57	2.03	metallo-beta-lactamase family protein
<b>Afu5g12790</b>	3.43	3.2	4.07	mitochondrial 3-hydroxyisobutyryl-CoA hydrolase, putative
<b>Afu5g12940</b>	1.75	3.16	2.95	arylsulfatase, putative
<b>Afu5g13020</b>	1.5	1.8	2.71	DNA polymerase alpha/primase associated subunit
<b>Afu5g13030</b>	1.51	1.92	2.67	Apc13 domain protein
<b>Afu5g13060</b>	2.39	2.3	3.01	DUF1275 domain protein
<b>Afu5g13100</b>	1.26	1.47	2.13	hypothetical protein
<b>Afu5g13170</b>	1.86	2.23	1.48	MATE efflux family protein subfamily, putative
<b>Afu5g13180</b>	3.29	2.37		agmatinase, putative
<b>Afu5g13280</b>	1.22	1.21	2.18	hypothetical protein
<b>Afu5g13300</b>	1.67	3.63		aspartic endopeptidase Pep1
<b>Afu5g13460</b>	1.6	1.96	2.73	mitochondrial protein
<b>Afu5g13640</b>	1.76	2.62	3.51	thioredoxin, putative
<b>Afu5g13800</b>	2.17	2.81	3.3	transcriptional regulator, putative
<b>Afu5g13810</b>	4.14	4.83	4	transulfuration enzyme family protein, putative
<b>Afu5g13920</b>	1.85	2	1.83	p21 protein
<b>Afu5g13940</b>	1.61	2.32	2.31	FAD dependent oxidoreductase superfamily
<b>Afu5g14060</b>	0.19	2.3	0.56	Rho GTPase Rho4, putative
<b>Afu5g14230</b>	0.7	2.31	2.76	C6 transcription factor, putative
<b>Afu5g14240</b>	1.15	3.73	3.74	ThiJ/PfpI family protein
<b>Afu5g14380</b>	1.19	1.58	2.04	alpha-glucuronidase
<b>Afu5g14500</b>	1.42	2.67	2	MFS transporter, putative
<b>Afu5g14510</b>	0.55	2.54		beta-lactamase, putative
<b>Afu5g14530</b>	3.5	4.07	3.83	C6 transcription factor, putative
<b>Afu5g14550</b>	2.78	3.43	2.42	beta-galactosidase, putative
<b>Afu5g14650</b>	0.39	2.69	2.36	RING finger protein

<b>Afu5g14660</b>	-0.54	2.12	1.77	GABA permease, putative
<b>Afu5g14680</b>	4.6	5.25	6.14	hypothetical protein
<b>Afu5g14690</b>	2.85	2.82	5.53	phosphorylase, putative
<b>Afu5g14770</b>	1.86	2.13	1.39	pyrroline-5-carboxylate reductase
<b>Afu6g00140</b>	2.15	3.34	3.04	hypothetical protein
<b>Afu6g00240</b>	1.96	2.68	2.77	4-hydroxyphenylpyruvate dioxygenase, putative
<b>Afu6g00260</b>	2.74	2.66	1.26	phosphatidylserine decarboxylase family protein
<b>Afu6g00290</b>	2.24	4.88	5.67	aminotransferase, putative
<b>Afu6g00300</b>	2.85	3.86	4.31	serine palmitoyltransferase 1, putative
<b>Afu6g00430</b>	-1.75	2.24	1.05	IgE-binding protein
<b>Afu6g00470</b>	2.41	2.37	2.32	plasma membrane zinc ion transporter, putative
<b>Afu6g00510</b>	2.46	1.72	1.78	NADP-dependent alcohol dehydrogenase
<b>Afu6g00600</b>	1.81	3.33	2	hypothetical protein
<b>Afu6g00620</b>	4.03	4.74	4.29	GPI anchored hypothetical protein
<b>Afu6g00630</b>	3.55	5.13	5.04	MFS transporter, putative
<b>Afu6g00640</b>	2.59	3.51	4.18	integral membrane protein
<b>Afu6g00650</b>	2.34	3.53	2.99	hypothetical protein
<b>Afu6g00710</b>	3.17	3.52	3.64	MFS transporter, putative
<b>Afu6g00740</b>	1.02	2.15	1.12	hypothetical protein
<b>Afu6g00750</b>	2.15	3.97	2.33	pyruvate decarboxylase, putative
<b>Afu6g01820</b>	3.7	4.19	5.02	MFS transporter, putative
<b>Afu6g01830</b>	3.22	3.66	5.03	O-methyltransferase, putative
<b>Afu6g01840</b>	1.26	2.08	1.69	C6 transcription factor, putative
<b>Afu6g01850</b>	3.17	2.64	2.75	hypothetical protein
<b>Afu6g01950</b>	2.47	1.97	1.31	hypothetical protein
<b>Afu6g02030</b>	1.52	2.83	3.06	aminotransferase, putative
<b>Afu6g02090</b>	1.64	2.02	1.22	ATP synthase subunit E, putative
<b>Afu6g02260</b>	4.35	4.79	4.7	hypothetical protein
<b>Afu6g02270</b>	1.13	1.64	2.8	ribonuclease P/MRP complex subunit Pop1, putative
<b>Afu6g02280</b>	1.31	2.09	0.66	allergen Asp F3
<b>Afu6g02470</b>	3.92	3.68	4.21	fumarate hydratase, putative
<b>Afu6g02560</b>	2.03	2.09	1.52	alpha-galactosidase
<b>Afu6g02600</b>	2.24	2.34	1.56	phosphoglycerate mutase family protein
<b>Afu6g02750</b>	2.07	2.23	1.82	nascent polypeptide-associated complex (NAC) subunit, putative
<b>Afu6g02910</b>	2.97	2.31	2.99	acetylglutamate kinase, putative
<b>Afu6g02940</b>	1.89	2.32	2.31	chitin synthase activator (Chs3), putative
<b>Afu6g02960</b>	1.69	2.35	2.81	NADH-ubiquinone oxidoreductase 105 kDa subunit

<b>Afu6g03060</b>	2.72	3.43	2.33	monosaccharide transporter
<b>Afu6g03150</b>	2.7	2.61		hypothetical protein
<b>Afu6g03160</b>	2.25	3.62	3.44	NACHT domain protein
<b>Afu6g03170</b>	5.23	5.37	5.88	NA
<b>Afu6g03180</b>	3.56	3.88	4.97	hypothetical protein
<b>Afu6g03190</b>	4.7	5.36	5.55	hypothetical protein
<b>Afu6g03200</b>	4.16	4.84	5.59	solute symporter family transporter
<b>Afu6g03230</b>	0.88	2.68	2.55	cell wall glucanase, putative
<b>Afu6g03250</b>	0.46	1.49	2.45	protein kinase, putative
<b>Afu6g03320</b>	-0.1	0.72	2.12	MFS drug transporter, putative
<b>Afu6g03340</b>	0.87	2.68	1.63	hypothetical protein
<b>Afu6g03350</b>	0.39	4.32	5.34	acetyltransferase, GNAT family, putative
<b>Afu6g03400</b>	1.2	1.92	2.59	hypothetical protein
<b>Afu6g03420</b>	4.72	3.44	3.32	trehalose synthase, putative
<b>Afu6g03460</b>	1.18	2.78	1.61	hypothetical protein
<b>Afu6g03470</b>	-0.47	2.48	2.08	ABC multidrug transporter, putative
<b>Afu6g03520</b>	2.85	2.88	2.31	short-chain dehydrogenase/reductase family protein, putative
<b>Afu6g03570</b>	3.54	4.27	4.62	beta-glucosidase 3
<b>Afu6g03590</b>	3.33	3.65	3.14	methylcitrate synthase
<b>Afu6g03600</b>	2.3	2.29	3.03	integral membrane protein (Pth11), putative
<b>Afu6g03640</b>	3.48	3.87	3.27	aminotransferase, putative
<b>Afu6g03660</b>	2.24	2.38	2.45	onanono-7-onima-8-eninoihthemlysoneda
<b>Afu6g03680</b>	0.6	3.44	1.13	hypothetical protein
<b>Afu6g03730</b>	2.17	2.23	1.09	prpd protein
<b>Afu6g03770</b>	2.66	2.98	3.2	oxidoreductase (Msc7), putative
<b>Afu6g03800</b>	1.05	1.33	2.78	hypothetical protein
<b>Afu6g03900</b>	2.44	1.81	2.24	F-box domain protein
<b>Afu6g03970</b>	2.82	2.64	2.54	NUV101
<b>Afu6g04020</b>	2.69	2.84	3.33	peptidyl-tRNA hydrolase domain protein
<b>Afu6g04040</b>	1.97	2.81	2.23	peroxisomal D3,D2-enoyl-CoA isomerase
<b>Afu6g04250</b>	3.46	3.62	3.8	Protein required for hyphal anastomosis
<b>Afu6g04290</b>	1.23	1.37	2.29	phosphoethanolamine N-methyltransferase, putative
<b>Afu6g04370</b>	1.77	1.4	2.2	hypothetical protein
<b>Afu6g04700</b>	3.15	3.21	3.23	imidazoleglycerol-phosphate dehydratase
<b>Afu6g04730</b>	2.32	1.95	2.56	Ade1p protein
<b>Afu6g04800</b>	2.06	2.81	2.53	lysine decarboxylase-like protein
<b>Afu6g04890</b>	0.78	2.16	1.98	CaaX prenyl proteinase Rce1

<b>Afu6g04900</b>	2.37	2.66	1.21	sucrose cleavage family protein
<b>Afu6g04920</b>	4	4.66	3.41	NAD-dependent formate dehydrogenase
<b>Afu6g05030</b>	3.52	4.55	3.99	polysaccharide deacetylase family protein
<b>Afu6g05130</b>	2.76	2.58	2.65	snRNA cap binding complex subunit (Gcr3), putative
<b>Afu6g05200</b>	1.82	2.21	1.55	Ribosomal L28e protein family
<b>Afu6g05210</b>	1.87	2.43	1.56	malate dehydrogenase, NAD-dependent
<b>Afu6g06460</b>	2.47	2.56	1.92	fumarylacetoacetate hydrolase family protein
<b>Afu6g06520</b>	2.46	2.65	1.96	WW domain protein
<b>Afu6g06690</b>	2.06	2.77	1.94	CFEM domain protein, putative
<b>Afu6g06770</b>	2.77	2.72	2.51	enolase
<b>Afu6g06870</b>	0.86	1.24	2.07	casein kinase I homolog, putative
<b>Afu6g07120</b>	1.78	2.12	2.11	nuclear movement protein
<b>Afu6g07220</b>	1.95	2.21	2	Aromatic-Rich Protein Family family
<b>Afu6g07260</b>	2.78	2.26	2.69	purine-cytosine permease, putative
<b>Afu6g07340</b>	2.26	2.76	1.4	kynurenine 3-monooxygenase
<b>Afu6g07540</b>	2.54	1.95	1.71	t-complex protein 1, epsilon subunit, putative
<b>Afu6g07560</b>	1.89	2.52	1.96	hypothetical protein
<b>Afu6g07610</b>	1.49	3.02	3.27	hypothetical protein
<b>Afu6g07620</b>	3.13	3.82	3.77	GDP-mannose pyrophosphorylase A
<b>Afu6g07640</b>	2.35	2.23	3.07	lysyl-tRNA synthetase
<b>Afu6g07770</b>	3.09	2.83	2.42	alanine aminotransferase, putative
<b>Afu6g07920</b>	2.06	2.37	2.01	acetyltransferase, GNAT family family
<b>Afu6g07950</b>	1.43	1.67	2.29	fungal specific transcription factor, putative
<b>Afu6g08000</b>	2.6	3.56	3.41	general amidase
<b>Afu6g08050</b>	2.25	2.14	1.11	6-phosphogluconate dehydrogenase, decarboxylating
<b>Afu6g08110</b>	2.37	2.53	2.85	DNA (apurinic or apyrimidinic site) lyase, endonuclease
<b>Afu6g08160</b>	3.02	3.48	4.05	MOSC domain protein
<b>Afu6g08170</b>	2.08	2.39	3.38	DNA polymerase V, putative
<b>Afu6g08370</b>	2.05	1.66	2.52	neutral sphingomyelinase
<b>Afu6g08440</b>	3.57	3.43	3.05	protoporphyrinogen oxidase, putative
<b>Afu6g08460</b>	1.13	2.19	2.68	cytochrome P450 alkane hydroxylase, putative
<b>Afu6g08470</b>	1.73	2.59	2.75	glycerol kinase, putative
<b>Afu6g08490</b>	-0.43	1.66	3.49	inorganic diphosphatase, putative
<b>Afu6g08560</b>	2.11	2.56	3.94	nonribosomal peptide synthase (NRPS), putative
<b>Afu6g08570</b>	0.57	1.15	2	DNA damage repair protein Mus42, putative
<b>Afu6g08620</b>	1.98	2.02	1.42	Golgi reassembly stacking protein, putative
<b>Afu6g08630</b>	3.94	4.62	4.35	hypothetical protein
<b>Afu6g08640</b>	3.92	4	4.12	metallopeptidase Mip1

<b>Afu6g08650</b>	2.24	3.27	3.44	hypothetical protein
<b>Afu6g08660</b>	3.19	3.51	4.02	hypotetical protein
<b>Afu6g08700</b>	2.92	4.55	4.47	beta glucosidase, putative
<b>Afu6g08710</b>	3.35	4.51	4.61	alkaline phosphatase, putative
<b>Afu6g08810</b>	1.51	2.3	1.76	NADH-ubiquinone oxidoreductase 304 kDa subunit precursor
<b>Afu6g08890</b>	1.62	1.68	2.08	thioesterase family protein
<b>Afu6g08900</b>	1.64	1.4	2.02	ATP dependent RNA helicase, putative
<b>Afu6g09050</b>	1.63	2.39	1.65	hypothetical protein
<b>Afu6g09320</b>	1.19	2.62	1.98	LysM domain protein, putative
<b>Afu6g09580</b>	2.04	2.07	2.62	hypothetical protein
<b>Afu6g09590</b>	2.8	2.66	2.33	zinc-containing alcohol dehydrogenase, putative
<b>Afu6g09600</b>	2.14	2.32	2.59	peptidase, putative
<b>Afu6g09640</b>	0.04	2.15	4.14	aminotransferase GliI
<b>Afu6g09650</b>	0.12	2.46	4.45	membrane dipeptidase GliJ
<b>Afu6g09670</b>	0.03	3.34	5.93	cytochrome P450 oxidoreductase GliC
<b>Afu6g09680</b>	0.07	4.87	6.54	O-methyltransferase GliM
<b>Afu6g09690</b>	0.35	3.91	6.38	glutathione S-transferase GliG
<b>Afu6g09700</b>	-0.21	2.18	5.46	gliotoxin biosynthesis protein GliK
<b>Afu6g09710</b>	0.78	5.53	6.82	MFS gliotoxin efflux pump GliA
<b>Afu6g09720</b>	0.07	5.62	6.37	methyltransferase GliN
<b>Afu6g09730</b>	0.81	4.96	6.35	cytochrome P450 oxidoreductase GliF
<b>Afu6g09740</b>	1.66	5.09	6.7	thioredoxin reductase GliT
<b>Afu6g09860</b>	1.61	3.61	2.4	hypothetical protein
<b>Afu6g09910</b>	2.63	3.96	3.58	glutaminase A
<b>Afu6g09970</b>	2.29	3.61	3.52	oxidoreductase, short chain dehydrogenase/reductase family
<b>Afu6g10070</b>	1.69	2.32	2.28	PEX11 domain protein
<b>Afu6g10080</b>	3.9	4.45	4.97	conserved hypothetical protein
<b>Afu6g10090</b>	4.15	4.1	4.11	D-isomer specific 2-hydroxyacid dehydrogenase family protein
<b>Afu6g10100</b>	2.08	2.55	2.94	related to monocarboxylate transporter, putative
<b>Afu6g10210</b>	1.97	2.12	2.18	guanine deaminase, putative
<b>Afu6g10220</b>	2.44	2.49	2.22	small oligopeptide transporter, OPT family
<b>Afu6g10280</b>	1.02	2.03	0.22	conserved hypothetical protein
<b>Afu6g10330</b>	1.74	2.42	1.33	GTP binding protein (SPG1), putative
<b>Afu6g10340</b>	3.55	3.95	3.72	hypothetical protein
<b>Afu6g10450</b>	1.92	2.57	1.8	hypothetical protein

<b>Afu6g10660</b>	2.92	2.64	2.34	ATP-citrat-lyase
<b>Afu6g10690</b>	2.32	2.41	2.44	cleavage and polyadenylation specificity factor subunit Fip1, putative
<b>Afu6g10760</b>	3.24	3.61	3.21	HAD superfamily hydrolase, putative
<b>Afu6g11020</b>	2.35	2.83	1.66	3-hydroxyisobutyrate dehydrogenase
<b>Afu6g11190</b>	1.91	2.21	2.46	protein kinase (VPS15), putative
<b>Afu6g11210</b>	2.78	3.31	2.84	3-oxoacyl-(acyl-carrier-protein) reductase
<b>Afu6g11330</b>	3.16	4.67	3.83	histidine acid phosphatase, putative
<b>Afu6g11340</b>	1.77		2.43	peroxisomal AMP binding enzyme, putative
<b>Afu6g11390</b>	2.14	2.64	2.74	1,3-beta-glucanosyltransferase Gel2
<b>Afu6g11420</b>	2.61	4.06	2.19	conserved hypothetical protein
<b>Afu6g11440</b>	2.1	3.01	2.94	pyridoxamine phosphate oxidase family protein
<b>Afu6g11490</b>	1.72	2.31	2.51	NUDIX domain protein
<b>Afu6g11500</b>	2.05	2.65	2.42	dipeptidase, putative
<b>Afu6g11560</b>	2.83	2.49	3.32	integral membrane protein, putative
<b>Afu6g11570</b>	3.03	2.89	3.26	alpha/beta hydrolase, putative
<b>Afu6g11620</b>	3.29	3.31	3.3	formyltetrahydrofolate deformylase
<b>Afu6g11680</b>	3.67	4.42	4.72	thiamine pyrophosphate enzyme, putative
<b>Afu6g12120</b>	0.57	2.17		BNR/Asp-box repeat domain protein
<b>Afu6g12150</b>	0.57	1.85	3.55	bZIP transcription factor (Atf7), putative
<b>Afu6g12170</b>	2.15	2.81	2.19	FKBP-type peptidyl-prolyl isomerase, putative
<b>Afu6g12180</b>	3.36	3.11	3.38	conserved hypothetical protein
<b>Afu6g12200</b>	1.13	2.19	2.95	hypothetical protein
<b>Afu6g12230</b>	3.02	3.38	3.84	conserved hypothetical protein
<b>Afu6g12240</b>	4.32	5.32	4.84	Glycerophosphoryl diester phosphodiesterase family family
<b>Afu6g12280</b>	1.87	2.27	1.42	NADH-ubiquinone oxidoreductase 213 kDa subunit
<b>Afu6g12310</b>	1.77	2.12	1.48	conserved hypothetical protein
<b>Afu6g12420</b>	0.2	2.92	2.79	SprT family metallopeptidase, putative
<b>Afu6g12470</b>	1.83	2.22	1.87	Golgi transport complex subunit Cog6, putative
<b>Afu6g12580</b>	3.02	3.07	2.61	anthranilate synthase component I
<b>Afu6g12620</b>	1.64	1.88	2.37	related to ribosomal protein MRP49
<b>Afu6g12660</b>	2.33	2.27	2.01	40s ribosomal protein
<b>Afu6g12670</b>	3.59	4.51	1.97	beta-alanine synthase, putative
<b>Afu6g12760</b>	3.46	4.24	3.5	GPI transamidase component (GAA1), putative
<b>Afu6g12910</b>	1.43	2.77	2.29	dsDNA-dependent ATPase (Rad54), putative
<b>Afu6g12960</b>	2.02	2.1	2.1	hypothetical protein
<b>Afu6g13160</b>	2.38	3.16	2.21	serine/threonine protein kinase, putative

<b>Afu6g13330</b>	1.67	1.79	2.38	conserved hypothetical protein
<b>Afu6g13380</b>	1.22	2.53	3.5	hypothetical protein
<b>Afu6g13400</b>	3.71	4.54	3.55	arsenate reductase (Arc2), putative
<b>Afu6g13450</b>	3.62	3.51	3.15	nitrilase
<b>Afu6g13460</b>	3.11	3.19	3.5	hypothetical protein
<b>Afu6g13520</b>	1.93	2.2	2.62	tryptophan synthase
<b>Afu6g13590</b>	3.37	3.43	1.99	3-isopropylmalate dehydrogenase
<b>Afu6g13660</b>	0.96	2.08	2.17	conserved hypothetical protein
<b>Afu6g13700</b>	0.7	3.05	1.28	hypothetical protein
<b>Afu6g13750</b>	5.26	6.73	6.51	ferric-chelate reductase, putative
<b>Afu6g13760</b>	3.44	4.05	3.8	alpha-1,2-mannosidase, putative subfamily
<b>Afu6g13830</b>	2.38	2.47		oxidoreductase, short chain dehydrogenase/reductase family
<b>Afu6g13840</b>	3.1	3.77	3.77	conserved hypothetical protein
<b>Afu6g13850</b>	3.11	4.05	4.51	GTPase activating protein (Evi5), putative
<b>Afu6g13860</b>	2.08	2.27	1.76	conserved hypothetical protein
<b>Afu6g14060</b>	2.59	4.6	4.67	hypothetical protein
<b>Afu6g14090</b>	1.57	2	1	CFEM domain protein, putative
<b>Afu6g14180</b>	2.09	2.51	1.53	beta-1,4-mannosyltransferase (Alg1), putative
<b>Afu6g14220</b>	1.65	2.01	2.17	kinesin family protein (KinA), putative
<b>Afu6g14300</b>	1.11	1.6	2.05	FAD binding domain protein
<b>Afu6g14310</b>	1.61	2	2.12	5'-nucleotidase, putative
<b>Afu6g14330</b>	4.08	4.5	3.95	5-oxo-L-prolinase, putative
<b>Afu6g14360</b>	1.29	1.26	2.17	cytochrome P450, putative
<b>Afu6g14390</b>	0.47	1.03	2.01	extracellular cellulose binding protein (Cip2), putative
<b>Afu6g14420</b>	1.24	4.24	3.34	disintegrin-like metalloproteinase, putative
<b>Afu6g14460</b>	0.93	2.21	0.91	2-haloalkanoic acid dehalogenase
<b>Afu6g14480</b>	0.78	2.49	3.03	alpha-1,3-mannosyltransferase, putative
<b>Afu6g14490</b>	1.97	4.52	4.02	beta-glucosidase, putative
<b>Afu6g14500</b>	3.58	6.66	6.63	MFS sugar transporter, putative
<b>Afu6g14530</b>	3.08	3.93	4.05	L-cystine transporter, putative
<b>Afu7g00380</b>	1.72	5.01	4.96	GNAT family acetyltransferase, putative
<b>Afu7g00440</b>	1.23	2.37	1.14	GABA permease, putative
<b>Afu7g00580</b>	1.06	3.56	4.37	conserved hypothetical protein
<b>Afu7g00700</b>	4.36	3.99	4.32	aldo-keto reductase (AKR13), putative
<b>Afu7g00710</b>	2.51	3.54	3.85	oxalate/formate antiporter, putative
<b>Afu7g00720</b>	3.16	2.46	2.4	hypothetical protein
<b>Afu7g00730</b>	2.85	2.49	2.69	high affinity methionine permease

<b>Afu7g00780</b>	2.62	3.3	4.4	MFS monocarboxylate transporter, putative
<b>Afu7g00800</b>	0.95	1.88	2	acid phosphatase, putative
<b>Afu7g00850</b>	2.26	4.01	4.64	acetyltransferase, GNAT family, putative
<b>Afu7g00910</b>	1.34	2.44		peptide transporter MTD1
<b>Afu7g00970</b>	0.87	2.44	3.84	GPI-anchored serine-threonine rich protein
<b>Afu7g01030</b>	1.58	1.72	2.17	Calcium-transporting ATPase 1 (PMC1), putative
<b>Afu7g01040</b>	1.21	3.85	3.44	cytidine deaminase, putative
<b>Afu7g01090</b>	4.57	4.87	5.67	proline permease
<b>Afu7g01240</b>	2.2	4.4	3.74	phytase, putative
<b>Afu7g01300</b>	2.66	3.45	3.49	mannosyltransferase (PIG-M), putative
<b>Afu7g01340</b>	1.08	2.44	1.66	RPEL repeat protein
<b>Afu7g01520</b>	2.82	2.95	3.84	BolA domain protein
<b>Afu7g01540</b>	2.23	1.75	2.21	endo-1,4-beta-glucanase
<b>Afu7g01580</b>	2.14	2.59	2.84	molybdopterin synthase small subunit CnxG
<b>Afu7g01590</b>	3.19	3	3.11	cystathionine gamma-synthase
<b>Afu7g01670</b>	2.13	2.19	3.4	MFS amino acid transporter, putative
<b>Afu7g01680</b>	2.84	3.73	4.05	hypothetical protein
<b>Afu7g01690</b>	1.97	2.7	2.13	acetamidase
<b>Afu7g01740</b>	2.95	3.47	4.74	sugar transporter, putative
<b>Afu7g01840</b>	2.54	2.65	2.97	membrane bound C2 domain protein (vp115), putative
<b>Afu7g01860</b>	3.72	3.8	4.01	heat shock protein (Sti1), putative
<b>Afu7g01980</b>	1.88	1.94	2.11	sinapyl alcohol dehydrogenase
<b>Afu7g01990</b>	0.07	2.08	1.28	conserved hypothetical protein
<b>Afu7g02010</b>	0.5	2.49	2.99	hypothetical protein
<b>Afu7g02070</b>	2	2.16	1.69	AIF-like mitochondrial oxidoreductase (Nfr1), putative
<b>Afu7g02080</b>	2	1.64	2.65	RNA polymerase I subunit Rpa43, putative
<b>Afu7g02340</b>	3.92	4.74	4.97	L-PSP endoribonuclease family protein (Hmf1), putative
<b>Afu7g02470</b>	1.57	2	1.73	mRNA processing protein (Mss51), putative
<b>Afu7g03960</b>	1.82	2.29	2.06	thioesterase family protein
<b>Afu7g03990</b>	2.6	2.35	2.34	uridylate kinase
<b>Afu7g04500</b>	3.37	3.54	3.39	ATP phosphoribosyltransferase
<b>Afu7g04570</b>	1.64	3.65	2.92	Na/K ATPase alpha 1 subunit, putative
<b>Afu7g04580</b>	3.13	3.8	4.49	TBC domain protein, putative
<b>Afu7g04690</b>	2.22	2.52	2.48	FAD dependent sulfhydryl oxidase Erv2, putative
<b>Afu7g04720</b>	2.88	3.44	3.52	alpha-1,2-mannosidase, putative
<b>Afu7g04730</b>	3.92	4.43	4.76	siderochrome-iron transporter, putative
<b>Afu7g04760</b>	3.21	3.38	4.04	gamma-glutamyltranspeptidase
<b>Afu7g04800</b>	1.16	2.24	2.17	hypothetical protein

<b>Afu7g04960</b>	0.68	2.47	2.26	N-acetyltransferase, GNAT family, putative
<b>Afu7g04970</b>	0.83	4.11	2.31	metalloreductase, putative
<b>Afu7g04980</b>	0.72	2.45	0.81	3-ketoacyl-acyl carrier protein reductase
<b>Afu7g04990</b>	2.26	4.32		dUTP diphosphatase Dut, putative
<b>Afu7g05010</b>	3.05	3.07	2.34	glyoxalase family protein
<b>Afu7g05070</b>	4.56	4.14	4.38	FAD dependent oxidoreductase, putative
<b>Afu7g05080</b>	3.01	3.41	2.38	C6 transcription factor, putative
<b>Afu7g05090</b>	3.42	3.99	2.43	glucuronyl hydrolase, putative
<b>Afu7g05100</b>	3.92	3.82	3.22	hexose transporter protein
<b>Afu7g05150</b>	3.34	5.32		hypothetical protein
<b>Afu7g05160</b>	1.35	2.53	1.09	fumarylacetoacetate hydrolase family protein
<b>Afu7g05300</b>	2.28	3.16	3.52	hypothetical protein
<b>Afu7g05450</b>	6.18	7.17	7.06	SUN domain protein (Uth1), putative
<b>Afu7g05470</b>	1.26	2.12	0.78	electron transfer flavoprotein alpha subunit, putative
<b>Afu7g05610</b>	3.68	4.68	5.11	glucanase, putative
<b>Afu7g05720</b>	2.64	2.15	2.32	pyruvate dehydrogenase complex, dihydrolipoamide acetyltransferase component, putative
<b>Afu7g05840</b>	1.67	2.74	2	amidohydrolase family protein
<b>Afu7g05950</b>	0.9	2.21	1.75	EF-hand protein
<b>Afu7g06080</b>	4.5	4.79	4.69	ubiE/COQ5 methyltransferase, putative
<b>Afu7g06090</b>	2.26	3.13	1.77	palmitoyl-CoA oxidase 1
<b>Afu7g06120</b>	1.84	2	2.34	transmembrane transporter, putative
<b>Afu7g06140</b>	2.38	6.43	5.33	beta-D-glucoside glucohydrolase
<b>Afu7g06160</b>	3.16	5.06	5.53	hypothetical protein
<b>Afu7g06360</b>	2.19	2.82	3.5	hypothetical protein
<b>Afu7g06380</b>	5.75	6.06	5.58	maltase
<b>Afu7g06390</b>	4.25	4.69	4.29	maltose permease
<b>Afu7g06490</b>	2.58	2.91	2.43	deoxyribose-phosphate aldolase
<b>Afu7g06540</b>	0.14	2.65	2.14	threonine aldolase, putative
<b>Afu7g06680</b>	0.95	2.22	1.87	AAA family ATPase, putative
<b>Afu7g06750</b>	2.56	4.38	3.96	phosphoglycerate mutase family protein, putative
<b>Afu7g06760</b>	2.72	2.69	2.54	CRAL/TRIO domain protein
<b>Afu7g06800</b>	0.57	2.66	2.3	glutamyl-tRNA(Gln) amidotransferase, subunit A
<b>Afu7g06810</b>	2.69	5.68	6.23	L-amino acid oxidase LaoA, putative
<b>Afu8g00110</b>	2.15	2.26	1.23	oxidoreductase, 2OG-Fe(II) oxygenase family, putative
<b>Afu8g00540</b>	1.29	2.67	1.25	hybrid polyketide synthase/nonribosomal peptide synthase, putative
<b>Afu8g00610</b>	0.42	4.71	2.35	cell surface protein Mas1, putative

<b>Afu8g00730</b>	2.39	2.67	2.93	transcription regulator (RTG2), putative
<b>Afu8g00760</b>	1.28	1.88	2.05	cytochrome P450, putative
<b>Afu8g00770</b>	2.5	3.87	3.91	sugar transporter family protein
<b>Afu8g00790</b>	3.79	5.16	4.88	hypothetical protein
<b>Afu8g00830</b>	0.83	2.78	2.78	conserved hypothetical protein
<b>Afu8g00840</b>	4.27	4.42	4.6	amino acid permease, putative
<b>Afu8g00850</b>	4.86	5.36	5.49	dihydroorotase, homodimeric type
<b>Afu8g00890</b>	1.49	2.47	1.33	glucose transporter
<b>Afu8g00910</b>	0.71	2.55		conserved hypothetical protein
<b>Afu8g00980</b>	1.97	3.59	4.03	hypothetical protein
<b>Afu8g01030</b>	2.16	4.13	3.11	hypothetical protein
<b>Afu8g01070</b>	1.61	2.32	2.42	Lathosterol oxidase, putative
<b>Afu8g01080</b>	0.92	2.21	1.95	hypothetical protein
<b>Afu8g01110</b>	2.41	2.24	2.02	integral membrane protein, putative
<b>Afu8g01120</b>	3.33	3.91	3.69	hypothetical protein
<b>Afu8g01130</b>	1.46	2.1		alpha-galactosidase C
<b>Afu8g01160</b>	2.33	4.3	2.09	tartrate dehydrogenase, putative
<b>Afu8g01250</b>	2.23	2.42	2.78	acetyltransferase, GNAT family family
<b>Afu8g01310</b>	1.74	2.82		metalloreductase, putative
<b>Afu8g01470</b>	0.86	2.03		flavin containing amine oxidase, putative
<b>Afu8g01580</b>	2.96	3.47	3.9	aminotransferase, classes I and II family
<b>Afu8g01670</b>	3.36	3.5	3.87	bifunctional catalase-peroxidase Cat2
<b>Afu8g01710</b>	5.44	5.63	6.64	antigenic thaumatin domain protein, putative
<b>Afu8g01730</b>	1.12	1.34	2.1	Glycosyl transferase family 8 domain containing protein
<b>Afu8g01780</b>	0.49	2.19	0.97	nitrilase, putative
<b>Afu8g01800</b>	1.97	2.31	1.6	Thiosulfate sulfurtransferase
<b>Afu8g01810</b>	1.98	2.44	1.85	conserved hypothetical protein
<b>Afu8g01840</b>	3.4	2.98	4.36	hypothetical protein
<b>Afu8g01850</b>	4.6	4.08	5.24	phosphate-repressible phosphate permease
<b>Afu8g01920</b>	1.93	3.8	3.09	hypothetical protein
<b>Afu8g02010</b>	2.53	1.49	1.71	MFS sugar transporter, putative
<b>Afu8g02030</b>	3.2	4.01	4.14	conserved hypothetical protein
<b>Afu8g02090</b>	0.75	2.16	0.49	nucleotide-sugar transporter family protein
<b>Afu8g02130</b>	0.85	2.04	1.46	1,3-beta-glucanosyltransferase, putative
<b>Afu8g02200</b>	3.47	4.47	4.44	proline permease
<b>Afu8g02440</b>	4.36	5.98	6.61	C-4 methyl sterol oxidase, putative
<b>Afu8g02450</b>	4.6	5.06	5.84	hypothetical protein
<b>Afu8g02470</b>	0.78	2.01	1.73	trihydroxytoluene oxygenase

<b>Afu8g02530</b>	1.89	2.96	1.53	extracellular lipase, putative
<b>Afu8g02550</b>	0.36	2.49	2.19	Ptr2-like MFS peptide transporter, putative
<b>Afu8g02560</b>	1.8	3.78	4.63	glyceraldehyde-3-phosphate dehydrogenase, putative
<b>Afu8g02610</b>	0.9	1.74	2.76	cytochrome P450 monooxygenase, putative
<b>Afu8g02620</b>	0.75	1.67	2.61	CobW domain protein
<b>Afu8g02670</b>	1.59	1.86	3.1	conserved hypothetical protein
<b>Afu8g04000</b>	2.17	2.03	2	acetyl-coa acetyltransferase
<b>Afu8g04200</b>	1.92	2.37	2.25	G-patch domain protein, putative
<b>Afu8g04380</b>	3.15	3.61	3.91	conserved hypothetical protein
<b>Afu8g04610</b>	1.56	2.04	2.3	DnaJ domain protein
<b>Afu8g04650</b>	1.51	2.15	1.76	3-hydroxyanthranilate 3,4-dioxygenase
<b>Afu8g04670</b>	2.06	1.86	1.92	serine/threonine protein kinase, putative
<b>Afu8g04700</b>	3.49	5.42	5.34	conserved hypothetical protein
<b>Afu8g04710</b>	3.31	5.15	5.22	xylosidase
<b>Afu8g04760</b>	2.37	2.58	2.07	ureidoglycolate hydrolase
<b>Afu8g05040</b>	3.64	4.64	4.13	dihydrodipicolinate synthetase family protein
<b>Afu8g05220</b>	1.93	2.23	2.72	acetamidase-A
<b>Afu8g05280</b>	2.69	3.59	3.2	QDE2 protein
<b>Afu8g05310</b>	0.86	2.18	1.27	DUF962 domain protein
<b>Afu8g05320</b>	2.96	2.58	1.83	mitochondrial F1 ATPase subunit alpha, putative
<b>Afu8g05440</b>	3.07	2.96	2.43	mitochondrial ATPase subunit ATP4, putative
<b>Afu8g05500</b>	2.41	2.1	0.99	COP9 signalosome subunit 4 (CsnD), putative
<b>Afu8g05530</b>	2.16	1.78	0.94	soluble fumarate reductase (Osm1), putative
<b>Afu8g05590</b>	1.77	2.03	2.66	oxidoreductase, short chain dehydrogenase/reductase family
<b>Afu8g05600</b>	2.88	4	4.69	hypothetical protein
<b>Afu8g05610</b>	4.78	5.88	6.1	cell wall glucanase (Scw11), putative
<b>Afu8g05630</b>	1.32	1.99	2.27	chitin synthase F
<b>Afu8g05650</b>	2.34	2.88	2.64	hypothetical protein
<b>Afu8g05680</b>	1.58	3.82	3.16	serine/threonine protein kinase, putative
<b>Afu8g05690</b>	3.02	3.45	3.39	acetyltransferase, GNAT family family
<b>Afu8g05800</b>	1.29	3.67	3.61	C6 finger domain protein, putative
<b>Afu8g05850</b>	3.35	3.83	3.97	FAD dependent oxidoreductase superfamily
<b>Afu8g05860</b>	2.82	3.11	3.33	aromatic amino acid and leucine permease
<b>Afu8g05970</b>	1.86	2.74	2.05	TRI7, putative
<b>Afu8g06130</b>	2.73	2.84	2.63	FluG family protein
<b>Afu8g06440</b>	2.7	3.68	2.89	fructosyl amino acid oxidase, putative
<b>Afu8g06450</b>	1.06	2.87	2.85	Rieske 2Fe-2S family protein, putative

<b>Afu8g06460</b>	2	3.56	3.92	C6 transcription factor, putative
<b>Afu8g06470</b>	4.34	5.86	6.03	N,N-dimethylglycine oxidase
<b>Afu8g06560</b>	1.72	3.52	3.4	DUF895 domain membrane protein
<b>Afu8g06700</b>	2.39	3.41	2.67	annexin ANXC3.1
<b>Afu8g06760</b>	1.26	1.72	2.63	integral membrane protein
<b>Afu8g06770</b>	3.16	3.65	2.73	conserved hypothetical protein
<b>Afu8g06830</b>	1	2.69	0.98	endoglucanase, putative
<b>Afu8g06850</b>	0.49	2.23	2.5	conserved hypothetical protein
<b>Afu8g06880</b>	1.94	3.59	3.09	pectin methylesterase, putative
<b>Afu8g06920</b>	1.83	2.4	2.78	K <sup>+</sup> /H <sup>+</sup> antiporter, putative
<b>Afu8g06960</b>	2.33	5	4.06	hypothetical protein
<b>Afu8g07030</b>	1.4	2.36	1.34	endo-1,4-beta-mannosidase, putative
<b>Afu8g07080</b>	2.09	6.39	6.34	elastinolytic metalloproteinase Mep
<b>Afu8g07090</b>	5.16	5.81	6.98	extracellular proline-serine rich protein
<b>Afu8g07130</b>	2.33	2.42	1.81	AhpC/TSA family thioredoxin peroxidase, putative
<b>Afu8g07180</b>	2.41	2.48	3.14	C6 transcription factor, putative
<b>Afu8g07190</b>	1.4	1.36	2.47	hypothetical protein
<b>Afu8g07240</b>	2.64	2.53	2.98	MFS maltose permease, putative
<b>Afu8g07320</b>	0.34	2.1		hypothetical protein
<b>Afu8g07340</b>	1.37	2.26	1.95	HET domain protein

**Table AD.1.1: List of up-regulated genes in the ATCC46645 time course.** Genes significantly up-regulated were included if showing a fold change of +2 on a log<sub>2</sub> scale at least in one of the time point datasets. T0 vs T4 = 4 hrs, T0 vs T8 hrs = 8 hrs, T0 vs T16 = 16 hrs.

ORFs	T4 vs T0	T8 vs T0	T16 vs T0	Description	Annotation
Afu2g01240	3.14	1.82	1.33	beta-D-fructofuranoside fructohydrolase	extracellular region//cytoplasm//beta-fructofuranosidase activity//sucrose catabolic process
Afu5g04210	2.7	1.65	1.37	ubiquinol-cytochrome C reductase complex core protein 2, putative	aerobic respiration//mitochondrial respiratory chain complex III//mitochondrion//ubiquinol-cytochrome-c reductase activity//"mitochondrial electron transport, ubiquinol to cytochrome c"
Afu3g08660	2.62	1.79	1.91	isocitrate dehydrogenase, NADP-dependent	mitochondrion//glutamate biosynthetic process//isocitrate metabolic process//isocitrate dehydrogenase (NADP+) activity

Afu2g02810	2.57	1.87	1.1	alcohol dehydrogenase, zinc-containing, putative	oxidoreductase activity///cellular component unknown///zinc ion binding///metabolic process///"oxidoreductase activity, acting on the CH-OH group of donors, NAD or NADP as acceptor"
Afu6g07540	2.54	1.95	1.71	t-complex protein 1, epsilon subunit, putative	chaperone activity///cytoplasm///protein folding///cytoskeleton organization///cytoskeleton
Afu8g02010	2.53	1.49	1.71	MFS sugar transporter, putative	membrane///transporter activity///transport
Afu4g06620	2.47	1.59	1.37	Glutamate/Leucine/Phenylalanine/Valine dehydrogenase, putative	cytoplasm///nucleus///glutamate biosynthetic process///glutamate dehydrogenase (NADP+) activity
Afu6g01950	2.47	1.97	1.31	hypothetical protein	
Afu6g00510	2.46	1.72	1.78	NADP-dependent alcohol dehydrogenase	alcohol metabolic process///soluble fraction///alcohol dehydrogenase (NADP+) activity
Afu2g04560	2.4	1.85	1.22	oxidoreductase, short-chain dehydrogenase/reductase family	oxidoreductase activity///lipid particle///biological process unknown
Afu4g14670	2.3	1.91		MFS quinate transporter, putative	mannose transmembrane transporter activity///hexose transport///fructose transmembrane transporter activity///plasma membrane///glucose transmembrane transporter activity
Afu3g07810	2.24	1.85	1.91	succinate dehydrogenase, flavoprotein subunit	tricarboxylic acid cycle///mitochondrial respiratory chain complex II///succinate dehydrogenase (ubiquinone) activity///"mitochondrial electron transport, succinate to ubiquinone"
Afu5g11240	2.23	1.91	0.63	oxidoreductase, short chain dehydrogenase/reductase family	L-serine metabolic process///cytoplasm///nucleus///"oxidoreductase activity, acting on the aldehyde or oxo group of donors, NAD or NADP as acceptor"
Afu5g01380	2.22	1.31	1.23	conserved hypothetical protein	
Afu4g11050	2.2	1.63	0.88	NADH-ubiquinone oxidoreductase, subunit F, putative	
Afu2g12400	2.17	1.93	1.78	ATP synthase oligomycin sensitivity conferral protein, putative	structural molecule activity///ATP synthesis coupled proton transport///"mitochondrial proton-transporting ATP synthase, stator stalk"///"hydrogen ion transporting ATP synthase activity, rotational mechanism"
Afu4g09180	2.17	1.35	1.43	SET domain protein	
Afu8g05530	2.16	1.78	0.94	soluble fumarate reductase (Osm1), putative	cytoplasm///metabolic process///fumarate reductase (NADH) activity
Afu2g04700	2.16	1.75	1.32	RNA binding effector protein (Scp160), putative	nuclear envelope-endoplasmic reticulum network///polysome///chromosome

					segregation///intracellular mRNA localization///RNA binding///endoplasmic reticulum membrane
Afu2g13620	2.16	1.72	1.69	thiamine pyrophosphate enzyme, putative	
Afu1g15960	2.15	1.89	1.66	glutathione reductase	glutathione-disulfide reductase activity///response to oxidative stress///cytoplasm///nucleus///mitochondrion
Afu1g04320	2.13	1.91	1.93	ribosomal protein S8.e	structural constituent of ribosome///translation///cytosolic small ribosomal subunit (sensu Eukaryota)
Afu4g11910	2.08	1.56	1.27	N-terminal acetyltransferase catalytic subunit (NAT1), putative	intracellular///peptide alpha-N-acetyltransferase activity///cytoplasm///protein amino acid acetylation///protein binding
Afu2g13250	2.07	1.46	1.24	bifunctional tryptophan synthase TRPB	cytoplasm///tryptophan synthase activity///nucleus///tryptophan biosynthetic process
Afu8g04670	2.06	1.86	1.92	serine/threonine protein kinase, putative	biological process unknown///protein kinase activity
Afu3g10700	2.06	1.96	0.9	Arp2/3 complex subunit Arc16, putative	Arp2/3 protein complex///structural molecule activity///mitochondrial envelope///actin binding///actin cortical patch assembly
Afu1g09830	2.05	1.75	1.37	Hsc70 cochaperone (SGT), putative	protein binding///Hsc70 protein regulator activity
Afu2g04060	2.05	1.88	0.96	NADH:flavin oxidoreductase/NADH oxidase family protein	oxidoreductase activity///NADPH dehydrogenase activity///metabolic process///coenzyme binding
Afu1g07380	2.05	1.58	1.52	NADH-dependent glutamate synthase (GLT1), putative	glutamate synthase (NADH) activity///cell///glutamate biosynthetic process
Afu5g02490	2.04	1.64	1.05	zinc-binding oxidoreductase, putative	oxidoreductase activity///zinc ion binding///metabolic process

**Table AD.1.2: 30 ORFs with the highest log<sub>2</sub> values between the up-regulated genes unique to the 4 hrs time point of the ATCC46645 time course.**

ORFs	T4 vs T0	T8 vs T0	T16 vs T0	Description	Annotation
Afu3g15210	0.38	4.15	1.6	endo-1,4-beta-xylanase, putative	hydrolase activity, acting on glycosyl bonds///polysaccharide catabolic process
Afu3g01670	1.32	3.77	1.31	MFS hexose transporter, putative	mannose transmembrane transporter activity///hexose transport///fructose transmembrane transporter activity///plasma membrane///glucose transmembrane transporter activity///galactose transmembrane transporter activity
Afu3g00320	-0.02	3.75	1.84	endo-1,4-beta-xylanase (XlnA), putative	xylan metabolic process
Afu2g14420	1.2	3.71	1.89	cutinase, putative	

Afu5g07330	1.97	3.65	1.69	carboxypeptidase S1, putative	carboxypeptidase C activity
Afu3g03660	1.93	3.65	0.7	esterase superfamily protein	hydrolase activity, acting on ester bonds
Afu4g10160	1.71	3.64		C6 transcription factor (AmyR), putative	carbohydrate metabolic process//regulation of transcription, DNA-dependent//transcription factor activity//nucleus
Afu5g13300	1.67	3.63		aspartic endopeptidase Pep1	protein catabolic process//aspartic-type endopeptidase activity//extracellular region//pathogenesis
Afu2g15950	1.26	3.61		aspartic endopeptidase, putative	protein catabolic process//aspartic-type endopeptidase activity//extracellular region
Afu4g14000	0.56	3.51	0.87	tripeptidyl peptidase A	protein catabolic process//serine-type endopeptidase activity
Afu6g03680	0.6	3.44	1.13	hypothetical protein	
Afu2g14740	0.54	3.32	1.58	DUF821 domain protein	
Afu2g03730	1.89	3.25	1.85	Ctr copper transporter family protein	copper uptake transmembrane transporter activity//copper ion import//integral to plasma membrane
Afu3g14920	0.99	3.24	1.64	LaeA-like methyltransferase, putative	
Afu1g11040	0.89	3.17		hypothetical protein	
Afu3g11920	1.45	3.06	0.62	dihydrodipicolinate synthetase family protein	catalytic activity//metabolic process
Afu3g00650	1.53	3.06		aminopeptidase Y, putative	proteolysis//aminopeptidase activity
Afu6g13700	0.7	3.05	1.28	hypothetical protein	
Afu1g11010	1.82	3.03	1.81	oxidoreductase, short chain dehydrogenase/reductase family superfamily	cytoplasm//nucleus//oxidoreductase activity, acting on the aldehyde or oxo group of donors, NAD or NADP as acceptor"
Afu3g14510	1.09	3.02	1.77	rhamnogalacturonan acetyltransferase, putative	lipase activity
Afu5g09070	-0.38	3	0.65	hypothetical protein	
Afu2g00870	0.84	2.97		hypothetical protein	
Afu8g02530	1.89	2.96	1.53	extracellular lipase, putative	
Afu1g17160	1.55	2.9	1.37	transporter, putative	membrane//transporter activity//transport
Afu3g00520	-0.3	2.9	0.97	SIR2 family histone deacetylase, putative	chromatin silencing at telomere//cytoplasm//NAD-dependent histone deacetylase activity
Afu3g00180	0.24	2.9	-0.1	short chain dehydrogenase, putative	oxidoreductase activity//cytoplasm//metabolic process
Afu4g14120	1.22	2.89	1.82	cutinase, putative	
Afu4g14110	1.4	2.88	1.55	hypothetical protein	
Afu2g17330	0.95	2.87	1.97	serine peptidase, family S28, putative	
Afu2g10920	1.95	2.86	1.53	enoyl-CoA hydratase/isomerase	endocytosis//3-hydroxyisobutyryl-CoA hydrolase

family protein	activity///mitochondrion///fatty acid beta-oxidation
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**Table AD.1.3: 30 ORFs with the highest log<sub>2</sub> values between the up-regulated genes unique to the 8 hrs time point of the ATCC46645 time course.**

ORFs	T4 vs T0	T8 vs T0	T16 vs T0	Description	Annotation
Afu4g09920	1.83	1.8	4.38	conserved hypothetical protein	
Afu1g01300	0.42	1.9	3.91	GPI anchored protein, putative	
Afu6g12150	0.57	1.85	3.55	bZIP transcription factor (Atf7), putative	transcription///transcription factor activity///nucleus
Afu6g08490	-0.43	1.66	3.49	inorganic diphosphatase, putative	phosphate metabolic process///inorganic diphosphatase activity///cytosol
Afu3g12090	1.5	1.92	3.44	hypothetical protein	
Afu1g01310	0.37	1.49	3.42	carboxylesterase, putative	
Afu4g00830	1.72	1.78	3.37	MFS peptide transporter, putative	peptide transporter activity///plasma membrane///peptide transport
Afu3g00720	-0.15	1.59	3.1	DUF500 and UBA/TS-N domain protein	cellular component unknown///biological process unknown///molecular function unknown
Afu8g02670	1.59	1.86	3.1	conserved hypothetical protein	
Afu4g13110	1.47	1.89	3.02	hypothetical protein	
Afu3g00730	-0.2	1.86	3.01	conserved hypothetical protein	
Afu5g02250	1.08	1.19	3	conserved hypothetical protein	
Afu2g05180	1.91	1.8	2.98	NF-X1 finger and helicase domain protein, putative	DNA binding///DNA helicase activity///nucleus///zinc ion binding///RNA helicase activity
Afu3g14670	1.08	1.48	2.87	MFS transporter, putative	nicotinamide mononucleotide transport///nicotinamide mononucleotide permease activity///integral to plasma membrane
Afu1g13200	1.4	1.43	2.86	conserved hypothetical protein	
Afu3g08070	1.4	1.74	2.85	GMC oxidoreductase, putative	
Afu1g10120	1.77	1.74	2.84	ABC transporter permease protein	
Afu1g02860	1.79	1.78	2.81	C2H2 transcription factor, putative	regulation of transcription, DNA-dependent///transcription factor activity///nucleus///zinc ion binding
Afu6g02270	1.13	1.64	2.8	ribonuclease P/MRP complex subunit Pop1, putative	rRNA processing///nucleolar ribonuclease P complex///ribonuclease MRP activity///tRNA processing///ribonuclease P activity///ribonuclease MRP

complex				
Afu2g08090	0.47	1.78	2.8	hypothetical protein
Afu6g03800	1.05	1.33	2.78	hypothetical protein
Afu4g08630	1.42	1.85	2.77	phytase acid phosphatase activity///polyphosphate catabolic process///cell wall-bounded periplasmic space
Afu8g02610	0.9	1.74	2.76	cytochrome P450 monooxygenase, putative oxidoreductase activity///metabolic process
Afu5g13460	1.6	1.96	2.73	mitochondrial protein mitochondrial genome maintenance///mitochondrion inheritance///mitochondrion organization///mitochondrial outer membrane///molecular function unknown
Afu5g13020	1.5	1.8	2.71	DNA polymerase alpha/primase associated subunit DNA replication initiation///lagging strand elongation///DNA replication, synthesis of RNA primer"///alpha DNA polymerase:primase complex///alpha DNA polymerase activity
Afu4g12510	0.71	0.89	2.71	hypothetical protein
Afu3g11980	1.52	1.22	2.69	oxidoreductase, 2OG-Fe(II) oxygenase family family
Afu4g11320	0.61	1.92	2.68	hypothetical protein
Afu3g13140	1.82	1.92	2.68	7alpha-cephem-methoxylase P8 chain, putative
Afu5g13030	1.51	1.92	2.67	Apc13 domain protein

**Table AD.1.4: 30 ORFs with the highest log<sub>2</sub> values between the up-regulated genes unique to the 16 hrs time point of the ATCC46645 time course.**

Locus	T0 vs T4	T0 vs T8	T0 vs T16	Common Name
<b>Afu1g00410</b>	-1.86	-3.75	-2.5	C6 transcription factor, putative
<b>Afu1g00480</b>	-2.57	-2.7	-3.23	glucosamine-6-phosphate deaminase, putative
<b>Afu1g00540</b>	-0.99	-1.46	-2.09	beta-N-acetylglucosaminidase, putative
<b>Afu1g00590</b>	-1.08	-1.7	-2.12	CPSF subunit A, putative
<b>Afu1g00910</b>	-3.45	-4.16	-2.98	conserved hypothetical protein
<b>Afu1g01210</b>	-1.59	-2.27	-1.19	hypothetical protein
<b>Afu1g01410</b>	-1.26	-2.12	-1.58	hypothetical protein
<b>Afu1g01760</b>	-1.64	-2.04	-1.41	integral membrane protein
<b>Afu1g01850</b>	-2.41	-2.66	-2.99	hypothetical protein
<b>Afu1g01950</b>	-1.96	-2.41	-2.58	hypothetical protein
<b>Afu1g01970</b>	-2.56	-3.48	-3.65	mutant VeA1 protein
<b>Afu1g02020</b>	-1.9	-2.39	-2.97	SWIB/MDM2 domain protein

<b>Afu1g02120</b>	-2.96	-2.79	-3.17	F-box domain protein
<b>Afu1g02130</b>	-2.74	-3.72	-3.1	DUF221 domain protein, putative
<b>Afu1g02200</b>	-2.51	-1.95		F-box domain protein
<b>Afu1g02210</b>	-2.22	-2.77	-2.17	60S ribosome biogenesis protein Brx1, putative
<b>Afu1g02280</b>	-2.75	-2.15	-1.57	conserved hypothetical protein
<b>Afu1g02350</b>	-1.98	-3.77	-2.78	MFS transporter, putative
<b>Afu1g02410</b>	-1.56	-1.94	-2.88	AAA family ATPase Reptin, putative
<b>Afu1g02460</b>	-1.49	-2.14	-1.78	DNA-directed RNA polymerase III 130 kd polypeptide
<b>Afu1g02590</b>	-2.45	-3.06	-2.94	RNA polymerase I specific transcription initiation factor RRN3 superfamily
<b>Afu1g02600</b>	-2.75	-3.35	-3.24	hypothetical protein
<b>Afu1g02640</b>	-2.76	-3.43	-2.99	conserved hypothetical protein
<b>Afu1g02700</b>	-1.44	-1.89	-2.26	zinc metallopeptidase, putative
<b>Afu1g02760</b>	-1.89	-2.32	-2.22	cell cycle inhibitor Nif1, putative
<b>Afu1g02770</b>	-1.61	-1.1	-2.45	hypothetical protein
<b>Afu1g02830</b>	-1	-2.25	-2.37	npl4 protein
<b>Afu1g02940</b>	-1.51	-1.55	-2.05	mitotic check point protein (Bub2), putative
<b>Afu1g03010</b>	-1.36	-2.05	-1.97	cell cycle control protein (Cwf22), putative
<b>Afu1g03030</b>	-3.08	-3.89	-3.21	hypothetical protein
<b>Afu1g03110</b>	-2.11	-2.26	-1.63	60S ribosomal protein L29, putative
<b>Afu1g03210</b>	-1.37	-2.36	-1.96	MYB family conidiophore development protein FlbD, putative
<b>Afu1g03380</b>	-2.43	-1.3	-1.6	UDP-N-acetylglucosaminyltransferase
<b>Afu1g03500</b>	-2.24	-2.69	-2.83	topoisomerase I
<b>Afu1g03540</b>	-2.55	-2.51	-2.4	hypothetical protein
<b>Afu1g03650</b>	-2.58	-2.43	-2.26	hypothetical protein
<b>Afu1g03710</b>	-1.3	-2.03	-1.46	C2H2 finger domain protein, putative
<b>Afu1g03790</b>	-2.11	-2.77	-1.91	mannosylphosphorylation protein (Mnn4), putative
<b>Afu1g03830</b>	-2.51	-1.94	-2.5	prefoldin subunit 2, putative
<b>Afu1g03840</b>	-1.94	-2.48	-2.43	CCAAT-binding factor complex subunit HapC
<b>Afu1g03970</b>	-1.72	-2.43	-2.63	mitochondrial translation initiation factor IF-2, putative
<b>Afu1g04010</b>	-0.85	-1.01	-2.01	TBC domain protein, putative
<b>Afu1g04100</b>	-2.77	-2.3	-1.57	hypothetical protein
<b>Afu1g04160</b>	-2.71	-1.57	-3.28	aspartate aminotransferase, putative
<b>Afu1g04230</b>	-3.22	-2.75	-2.55	mitoribosomal protein YmL27
<b>Afu1g04240</b>	-1.48	-2.05	-1.8	small nucleolar ribonucleoprotein complex subunit Utp14, putative

<b>Afu1g04410</b>	-2.08	-2.91	-3.26	conserved hypothetical protein
<b>Afu1g04500</b>	-1.55	-1.86	-2.76	hypothetical protein
<b>Afu1g04670</b>	-1.9	-2.52	-2.25	related to suppressor protein PSP1
<b>Afu1g04680</b>	-1.94	-2.48	-1.98	NifU-related protein
<b>Afu1g04710</b>	-1.7	-2.32	-2.33	PP-loop ATPase superfamily protein, putative
<b>Afu1g04720</b>	-2.15	-2.95	-2.89	C-8 sterol isomerase (Erg-1), putative
<b>Afu1g04730</b>	-2.14	-3.09	-2.67	endoglucanase, putative
<b>Afu1g04750</b>	-1.15	-2.45	-1.21	cyclin
<b>Afu1g04800</b>	-2.26	-2.73	-1.85	protein phosphatases pp1 regulatory subunit sds22
<b>Afu1g04830</b>	-1.15	-2.45	-1.56	abaA protein
<b>Afu1g04850</b>	-1.91	-2.07	-1.96	8 kDa cytoplasmic dynein light chain
<b>Afu1g04880</b>	-2.67	-3.17	-2.93	conserved hypothetical protein
<b>Afu1g04930</b>	-2.31	-2.52	-1.93	hypothetical protein
<b>Afu1g04950</b>	-1.98	-2.89	-3.06	serine/threonine protein phosphatase pp1
<b>Afu1g04970</b>	-1.95	-2.47	-2.65	Patatin-like serine hydrolase, putative
<b>Afu1g05040</b>	-2.44	-3.17	-2.29	protein mitochondrial targeting protein (Mas1), putative
<b>Afu1g05360</b>	-2.31	-3.01	-2.45	CAIB/BAIF family enzyme
<b>Afu1g05370</b>	-2.57	-2.48	-1.89	conserved hypothetical protein
<b>Afu1g05460</b>	-1.91	-1.79	-2.6	hypothetical protein
<b>Afu1g05470</b>	-1.17	-0.98	-2.04	3-oxo-5-alpha-steroid 4-dehydrogenase, putative
<b>Afu1g05540</b>	-1.75	-2.31	-2.13	PXA domain protein
<b>Afu1g05560</b>	-1.71	-3.3	-3.34	GTP binding protein, putative
<b>Afu1g05660</b>	-1.73	-2.27	-1.77	hypothetical protein
<b>Afu1g05680</b>	-2.28	-2.99	-2.19	hypothetical protein
<b>Afu1g05740</b>	-1.37	-2.25	-1.39	C6 transcription factor, putative
<b>Afu1g05760</b>	-2.08	-2.83	-2.02	arsenite efflux transporter (ArsB), putative
<b>Afu1g05800</b>	-1.76	-2.05	-2.25	MAP kinase kinase (Mkk2), putative
<b>Afu1g05850</b>	-1.52	-2.84	-2.47	erythromycin esterase family protein
<b>Afu1g05890</b>	-1.15	-2.61		hypothetical protein
<b>Afu1g06190</b>	-4.2	-5.69	-4.59	hnRNP arginine N-methyltransferase
<b>Afu1g06280</b>	-2.94	-3.13	-3.25	short-chain dehydrogenase/reductase family protein, putative
<b>Afu1g06290</b>	-2.34	-2.31	-2.17	small nucleolar ribonucleoprotein complex subunit (SOF1), putative
<b>Afu1g06350</b>	-4.21	-4.85	-3.52	virulence related protein (Cap20), putative
<b>Afu1g06380</b>	-1.99	-2.26	-1.41	RNA polymerase III subunit CII
<b>Afu1g06400</b>	-2.01	-3.08	-1.93	cAMP-dependent protein kinase-like, putative

<b>Afu1g06650</b>	-1.36	-2.07	-1.73	conserved hypothetical protein
<b>Afu1g06690</b>	-2.1	-2.83	-2.58	RLI and DUF367 domain protein
<b>Afu1g06720</b>	-2.03	-2.48	-2.93	histone acetyltransferase Spt10, putative
<b>Afu1g06840</b>	-1.82	-2.54	-2.35	vacuolar membrane PQ loop repeat protein
<b>Afu1g06900</b>	-1.01	-1.64	-2.15	C2H2 transcription factor (Crz1), putative
<b>Afu1g06980</b>	-1.57	-3.02	-2.54	mitochondrial small ribosomal subunit protein S4, putative
<b>Afu1g07010</b>	-2.16	-3.19	-2.62	phosphatidate cytidyltransferase
<b>Afu1g07190</b>	-1.1	-1.55	-2.08	NA
<b>Afu1g07350</b>	-1.99	-2.15	-2.61	RNA12 protein, putative
<b>Afu1g07420</b>	-2.65	-2.89	-3.07	ER-Golgi SNARE complex subunit (Bet1), putative
<b>Afu1g07460</b>	-1.5	-2.58	-2.76	mitochondrial carrier protein
<b>Afu1g07470</b>	-2.55	-2.6	-2.47	autophagic death protein IDI-7, putative
<b>Afu1g07610</b>	-0.6	-0.68	-2.02	peroxisomal membrane protein pex16 (peroxin-16)
<b>Afu1g07630</b>	-2.15	-2.62	-2.8	zinc knuckle domain protein (Byr3), putative
<b>Afu1g07730</b>	-2.22	-2.4	-2.45	metalloprotease MEP1
<b>Afu1g07740</b>	-1.78	-1.98	-2.24	LEM3/CDC50 family protein
<b>Afu1g07750</b>	-2.19	-2.39	-1.51	FUN19 protein
<b>Afu1g08770</b>	-1.84	-2.39	-2.83	C6 finger domain protein, putative
<b>Afu1g08790</b>	-1.57	-1.5	-2.76	exportin KapK
<b>Afu1g08800</b>	-0.42	-2.23	-0.97	cytochrome P450 phenylacetate hydroxylase, putative
<b>Afu1g08870</b>	-2.4	-3.11	-2.72	hypothetical protein
<b>Afu1g08900</b>	-1.77	-2.09	-2.38	CHY and RING finger domain protein, putative
<b>Afu1g09000</b>	-1.53	-1.37	-2.23	conserved hypothetical protein
<b>Afu1g09020</b>	-1.46	-1.84	-2.39	nuclear pore complex protein (SonA), putative
<b>Afu1g09050</b>	-1.73	-1.75	-2.24	phospholipid methyltransferase
<b>Afu1g09140</b>	-2.64	-4.16	-3.49	hypothetical protein
<b>Afu1g09160</b>	-1.75	-1.48	-2.09	hypothetical protein
<b>Afu1g09240</b>	-1.96	-2.2	-1.54	ATP dependent RNA helicase, putative
<b>Afu1g09280</b>	-1.41	-2.59	-2.79	protein phosphatase 2C, putative
<b>Afu1g09400</b>	-1.61	-2.04	-1.51	R3H domain protein, putative
<b>Afu1g09430</b>	-2.03	-2.21		conserved hypothetical protein
<b>Afu1g09490</b>	-1.01	-1.27	-2.14	RNP domain protein
<b>Afu1g09500</b>	-2.6	-2.98	-3.34	ubiquitin-protein ligase (Rsp5), putative
<b>Afu1g09570</b>	-1.61	-2.14	-1.39	hypothetical protein
<b>Afu1g09630</b>	-1.45	-2.42	-3.08	PAB1 binding protein (Pbp1), putative
<b>Afu1g09670</b>	-2.84	-3.45	-3.12	HLH transcription factor (GlcD gamma), putative
<b>Afu1g09680</b>	-1.61	-2.33	-2	sft2 protein

<b>Afu1g09770</b>	-2.37	-4.02	-2.25	La domain family
<b>Afu1g09780</b>	-1.36	-2.46	-3.01	stomatin family protein
<b>Afu1g09940</b>	-2.71	-2.9	-3.03	protein required for survival at high temperature during stationary phase, putative
<b>Afu1g09950</b>	-1.49	-1.91	-2.6	casein kinase II beta subunit CKB2
<b>Afu1g10040</b>	-2.46	-3.02	-3.07	HMG box protein, putative
<b>Afu1g10240</b>	-0.62	-2.6	-1.24	hypothetical protein
<b>Afu1g10290</b>	-2.54		-2.73	chromodomain helicase (Chd1), putative
<b>Afu1g10310</b>	-2.43	-3.53	-3.22	RNase L inhibitor of the ABC superfamily, putative
<b>Afu1g10470</b>	-2.32	-2.7	-2.61	conserved hypothetical protein
<b>Afu1g10540</b>	-1.5	-2.09	-2.71	SIR2 family histone deacetylase (Hst4), putative
<b>Afu1g10610</b>	-2.07	-3.04	-1.93	hypothetical protein
<b>Afu1g10630</b>	-1.76	-2.6	-2.52	S-adenosylmethionine synthetase
<b>Afu1g10710</b>	-0.91	-1.27	-2.04	mRNA splicing protein (Prp5), putative
<b>Afu1g10770</b>	-2.15	-2.3	-2.02	neutral amino acid permease, putative
<b>Afu1g10920</b>	-1.04	-1.51	-2.27	nuclear mRNA splicing factor, putative
<b>Afu1g10950</b>	-4.56	-5.45	-4.78	conserved hypothetical protein
<b>Afu1g10960</b>	-2.18	-1.7	-1.9	Mago nashi domain protein
<b>Afu1g11210</b>	-2.44	-2.64	-2.02	hypothetical protein
<b>Afu1g11240</b>	-2.28	-3.56	-2.09	hypothetical protein
<b>Afu1g11460</b>	-2.04	-2.5	-1.9	1,3-beta-glucanosyltransferase Bgt1
<b>Afu1g11490</b>	-2.23	-2.21		vacuolar endopolyphosphatase, putative
<b>Afu1g11580</b>	-0.89	-1.46	-2.07	MFS quinate transporter, putative
<b>Afu1g11720</b>	-3.36	-3.83	-3.61	conserved hypothetical protein
<b>Afu1g11760</b>	-1.59	-2.28	-2.64	hypothetical protein
<b>Afu1g11860</b>	-2.43	-3.33	-3	mitochondrial import receptor subunit tom22
<b>Afu1g11930</b>	-3.36	-3.81	-3.13	protein kinase, putative
<b>Afu1g11950</b>	-2.52	-2.48	-2.37	mucin, putative
<b>Afu1g12160</b>	-1.35	-1.31	-2.19	possible translation initiation factor
<b>Afu1g12340</b>	-2.62	-3.4	-2.29	carnitine acetyl transferase
<b>Afu1g12410</b>	-2.44	-2.4	-3.27	salicylate hydroxylase
<b>Afu1g12420</b>	-0.96	-2.04	-1.25	hypothetical protein
<b>Afu1g12570</b>	-1.57	-1.54	-2.32	hepatocellular carcinoma-associated antigen 56; HCA56, putative
<b>Afu1g12660</b>	-2.01	-2.96	-3	hypothetical protein
<b>Afu1g12770</b>	-2.49	-2.92	-2.87	conserved hypothetical protein
<b>Afu1g12810</b>	-1.3	-2.47	-1.98	hypothetical protein
<b>Afu1g12870</b>	-1.66	-2.6	-2.97	conserved hypothetical protein

<b>Afu1g12900</b>	-3.26	-3.67	-3.98	Leucine Rich Repeat domain protein
<b>Afu1g12930</b>	-1.63	-2.09	-2.02	G protein complex alpha subunit GpaB
<b>Afu1g12960</b>	-1.74	-2.18	-2.45	SCF ubiquitin ligase complex subunit CulA, putative
<b>Afu1g12980</b>	-2.21	-2.37	-2.87	conserved hypothetical protein
<b>Afu1g13050</b>	-2.87	-4.31	-3.86	C2H2 transcription factor, putative
<b>Afu1g13060</b>	-2.33	-3.35	-3.47	regulator of nonsense transcripts, putative
<b>Afu1g13070</b>	-1.95	-1.96	-2.03	U3 small nucleolar ribonucleoprotein protein IMP4, putative
<b>Afu1g13120</b>	-2	-1.8	-1.7	hypothetical protein
<b>Afu1g13140</b>	-2.07	-2.45	-2.77	G protein complex alpha subunit GpaA
<b>Afu1g13160</b>	-1.59	-2.14	-1.43	geranylgeranyl diphosphate synthase
<b>Afu1g13250</b>	-2.26	-2.74	-2.73	1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase 1, putative
<b>Afu1g13350</b>	-3.1	-3.65	-3.13	transporter, putative
<b>Afu1g13400</b>	-2.58	-2.19	-2.42	conserved hypothetical protein
<b>Afu1g13420</b>	-1.3	-0.84	-2	phosphotyrosyl phosphatase activator
<b>Afu1g13520</b>	-0.38	-1.48	-2.16	SET domain protein
<b>Afu1g13660</b>	-0.93	-2.44	-3.33	phenol 2-monooxygenase, putative
<b>Afu1g13700</b>	-2.04	-1.3	-1.05	conserved hypothetical protein
<b>Afu1g13800</b>	-1.33	-2.17	-2.6	mfs-multidrug-resistance transporter
<b>Afu1g13880</b>	-2.6	-3.71	-3.22	NAF1 domain family
<b>Afu1g13910</b>	-2.41	-2.37	-2.53	TFIIH complex helicase (RAD3), putative
<b>Afu1g14010</b>	-2.21	-2.17	-2.39	AP-2 adaptor complex subunit sigma, putative
<b>Afu1g14050</b>	-3.06	-3.7	-3.31	F-box domain protein
<b>Afu1g14060</b>	-2.01	-2.5	-2.6	C2H2 finger domain protein, putative
<b>Afu1g14110</b>	-2.1	-2.94	-2.76	RNA polymerase subunit
<b>Afu1g14310</b>	-1.99	-2.11	-2.72	poly(A)-binding protein-dependent poly(A) ribonuclease, putative
<b>Afu1g14330</b>	-2.72	-2.9	-2.51	ABC transporter, putative
<b>Afu1g14620</b>	-2.02	-2.17	-2.09	Fibronectin type III domain protein
<b>Afu1g14630</b>	-1.36	-1.76	-2.24	tRNA <sup>His</sup> guanylyltransferase, putative
<b>Afu1g14660</b>	-3	-4.07	-3.46	regulator of secondary metabolism LaeA
<b>Afu1g14680</b>	-1.43	-2.01	-1.83	DNA-dependent RNA polymerase II largest subunit, putative
<b>Afu1g14740</b>	-3.11	-4.03	-4.52	TFIIA alpha/beta
<b>Afu1g14750</b>	-3.24	-4.27	-3.89	C2H2 transcription factor (Sfp1), putative
<b>Afu1g14770</b>	-2.26	-2.77	-3.03	tRNA dihydrouridine synthase, putative
<b>Afu1g14800</b>	-2.74	-0.86	0.13	hypothetical protein

<b>Afu1g14930</b>	-1.78	-2.01	-2.17	hypothetical protein
<b>Afu1g15340</b>	-3.16	-4.3	-4.02	polymerase
<b>Afu1g15390</b>	-1.95	-2.15	-2.79	DUF1014 domain protein
<b>Afu1g15410</b>	-3.04	-4.87	-3.43	CUE domain protein, putative
<b>Afu1g15500</b>	-2.32	-3	-2.77	GTP-binding protein Obg
<b>Afu1g15530</b>	-2.21	-1.28	-1.83	lactam utilization protein LamB, putative
<b>Afu1g15570</b>	-1.7	-2.45	-1.95	ubiquitin-conjugating enzyme, putative
<b>Afu1g15620</b>	-2.84	-4.4	-3.17	DEAD box RNA helicase HelA, putative
<b>Afu1g15720</b>	-1.11	-2.68	-1.83	importin beta-1 subunit
<b>Afu1g15790</b>	-2.61	-3.57	-2.63	ecyglycaid-PDC
<b>Afu1g15810</b>	-1.97	-3.09	-3.21	RNA splicing factor (Pad-1), putative
<b>Afu1g15820</b>	-2.68	-4.28	-3.51	fatty acid hydroxylase, putative
<b>Afu1g15840</b>	-2.54	-2.87	-2.48	hypothetical protein
<b>Afu1g15850</b>	-1.77	-3.75	-2.8	C6 transcription factor, putative
<b>Afu1g15870</b>	-2.24	-3.55	-2.98	DNA topoisomerase IV subunit A, putative
<b>Afu1g15880</b>	-2.64	-2.94	-3.42	DUF803 domain membrane protein
<b>Afu1g15890</b>	-2.3	-3.11	-2.9	SacI domain protein
<b>Afu1g15900</b>	-2.07	-2.16	-2.35	importin beta-2 subunit, putative
<b>Afu1g15940</b>	-2.22	-3.15	-3.17	Auxin Efflux Carrier superfamily
<b>Afu1g16170</b>	-1.13	-1.4	-2.06	hypothetical protein
<b>Afu1g16380</b>	-1.58	-2.03	-1.42	molybdopterin cofactor biosynthetic protein
<b>Afu1g16430</b>	-1.42	-2.95	-1.81	hypothetical protein
<b>Afu1g16450</b>	-3.35	-4.15	-2.92	hypothetical protein
<b>Afu1g16490</b>	-1.3	-1.66	-2.14	short chain dehydrogenase/reductase, putative
<b>Afu1g16520</b>	-2.19	-2.42	-1.46	hypothetical protein
<b>Afu1g16530</b>	-2.23	-3.19	-2.52	NA
<b>Afu1g16550</b>	-1.77	-2.16	-2.38	dihydrouridine synthase family protein, putative
<b>Afu1g16570</b>	-3.39	-3.59	-3.38	G4P04 protein
<b>Afu1g16580</b>	-1.02	-2.54	-1.27	conserved hypothetical protein
<b>Afu1g16610</b>	-2.04	-2.86	-2.98	Swr1p complex component (Swc5), putative
<b>Afu1g16710</b>	-2.14	-3.03	-2.4	fatty acid elongase (Gig30), putative
<b>Afu1g16780</b>	-1.99	-2.57	-1.92	protein kinase (Lkh1), putative
<b>Afu1g16790</b>	-2.67	-3.12	-3.21	related to tpa inducible protein, putative
<b>Afu1g16850</b>	-2.41	-2.96	-2.18	sur2 protein
<b>Afu1g16870</b>	-2.75	-3.07	-2.8	hypothetical protein
<b>Afu1g16930</b>	-2.04	-3.04	-2.15	phosphatidylserine decarboxylase, putative
<b>Afu1g16940</b>	-2.39	-2.67	-2.68	DEAD/DEAH box helicase, putative
<b>Afu1g16960</b>	-1.61	-2.49	-2.4	hypothetical protein

<b>Afu1g16990</b>	-2.06	-2.57	-2.1	mRNA splicing factor (Prp18), putative
<b>Afu1g17060</b>	-2.91	-4.26	-3.36	HLH DNA binding domain protein, putative
<b>Afu1g17340</b>	-1.55	-2.28		beta,beta-carotene 9',10'-dioxygenase, putative
<b>Afu1g17350</b>	-1.68	-2	-1.69	CP2 transcription factor, putative
<b>Afu1g17360</b>	-3.29	-4.38	-3.26	bZIP transcription factor (BACH2), putative
<b>Afu1g17370</b>	-1.53	-2.42	-1.75	chaperone/heat shock protein Hsp9, putative
<b>Afu1g17380</b>	-1.77	-2.75	-2.15	3-oxoacyl-(acyl-carrier-protein) reductase, putative
<b>Afu1g17440</b>	-2.06	-1.44		ABC drug exporter AbcA
<b>Afu2g00160</b>	-1.1	-2.02	-0.45	hypothetical protein
<b>Afu2g00170</b>	-1.58	-2.55	-1.39	glutathione-dependent formaldehyde dehydrogenase
<b>Afu2g00200</b>	-4.35	-6.14	-4.73	catalase, putative
<b>Afu2g00210</b>	-1.67	-2	-2.24	hypothetical protein
<b>Afu2g00940</b>	-2.1	-2.82	-1.77	hypothetical protein
<b>Afu2g01050</b>	-2.38	-2.25	-1.94	mitochondrial intermembrane space translocase subunit Tim9, putative
<b>Afu2g01060</b>	-2.14	-2.86	-1.82	Rho GTPase activator (Sac7), putative
<b>Afu2g01110</b>	-1.11	-1.35	-3.34	hypothetical protein
<b>Afu2g01120</b>	-2.53	-1.9	-1.67	DNA repair protein, putative
<b>Afu2g01150</b>	-2.57	-2.67	-2.59	conserved hypothetical protein
<b>Afu2g01160</b>	-2.62	-2.86	-3.54	C-4 methyl sterol oxidase, putative
<b>Afu2g01550</b>	-2.09	-2.64	-2.71	maf1 protein
<b>Afu2g01590</b>	-1.86	-2.26	-2.37	non-classical export protein (Nce2), putative
<b>Afu2g01630</b>	-2.73	-2.83	-2.96	MSF1 domain protein
<b>Afu2g01670</b>	-2.06	-2.81	-2.41	hypothetical protein
<b>Afu2g01900</b>	-1.89	-2.2	-2.75	Rtf1p, putative
<b>Afu2g02000</b>	-1.81	-2.46	-2.27	hypothetical protein
<b>Afu2g02010</b>	-1.73	-2.18	-1.86	transmembrane protein UsgS
<b>Afu2g02020</b>	-2.19	-1.96	-2.22	formamidase
<b>Afu2g02030</b>	-1.88	-3.14	-3.38	fructosyl amine:oxygen oxidoreductase
<b>Afu2g02060</b>	-2.08	-2.49	-2.41	D-tyrosyl-tRNA(Tyr) deacylase
<b>Afu2g02180</b>	-1.98	-2.44	-2.01	hypothetical protein
<b>Afu2g02290</b>	-2.68	-3.24	-2.87	hypothetical protein
<b>Afu2g02310</b>	-1.55	-2.17	-2.76	sur7 protein, putative
<b>Afu2g02390</b>	-3.46	-3.89	-3.51	hypothetical protein
<b>Afu2g02400</b>	-1.46	-2.28	-1.91	hypothetical protein
<b>Afu2g02410</b>	-1.77	-2.28	-2.33	hypothetical protein
<b>Afu2g02420</b>	-2.44	-3.34	-2.7	FHA domain protein
<b>Afu2g02570</b>	-2.59	-3.03	-3.6	F-box domain protein

<b>Afu2g02600</b>	-1.5	-1.84	-2.68	hypothetical protein
<b>Afu2g02670</b>	-1.91	-2.48	-2.47	DUF1295 domain protein
<b>Afu2g02690</b>	-2.31	-3.27	-2.64	fungal specific transcription factor, putative
<b>Afu2g02760</b>	-2.78	-3.6	-2.99	protein-tyrosine phosphatase, putative
<b>Afu2g02850</b>	-3.18	-3.85	-3.81	serine/threonine protein kinase, putative
<b>Afu2g03030</b>	-1.51	-2.6	-2.38	pre-mRNA splicing factor (PRP8), putative
<b>Afu2g03070</b>	-2.02	-2.93	-2.46	hypothetical protein
<b>Afu2g03090</b>	-2.68	-3.76	-3.13	vacuolar ABC heavy metal transporter (Hmt1), putative
<b>Afu2g03130</b>	-0.86	-2.42		hypothetical protein
<b>Afu2g03160</b>	-2.14	-3.61	-2.1	hypothetical protein
<b>Afu2g03170</b>	-1.79	-2.31	-1.64	cyclic nucleotide-binding domain protein
<b>Afu2g03220</b>	-0.93	-1.75	-2.17	Bax Inhibitor family protein
<b>Afu2g03280</b>	-1.14	-2.54	-2.34	hypothetical protein
<b>Afu2g03340</b>	-2.43	-2.48	-3.11	DUF652 domain protein
<b>Afu2g03460</b>	-1.77	-2.15	-2.6	C6 transcription factor (Leu3), putative
<b>Afu2g03520</b>	-2.68	-2.52	-2.07	monocarboxylate transporter, putative
<b>Afu2g03560</b>	-1.38	-2.13	-2.93	two-component osmosensing histidine kinase (Bos1), putative
<b>Afu2g03680</b>	-2.53	-2.75	-2.35	SH3 domain protein
<b>Afu2g03790</b>	-1.76	-2.14	-1.94	oxysterol binding protein (Osh7), putative
<b>Afu2g03850</b>	-1.92	-2.15	-1.25	hypothetical protein
<b>Afu2g03950</b>	-4.02	-5.31	-4.66	serine/threonine protein phosphatase, putative
<b>Afu2g04000</b>	-3.03	-4.35	-3.17	Png1p
<b>Afu2g04040</b>	-2.04	-2.27	-2.11	hypothetical protein
<b>Afu2g04050</b>	-1.67	-2	-1.29	hypothetical protein
<b>Afu2g04080</b>	-2.52	-3.63	-3.76	GPR/FUN34 family protein
<b>Afu2g04100</b>	-2.3	-3.45	-3.34	hypothetical protein
<b>Afu2g04170</b>	-2.42	-3.18	-2.59	conserved hypothetical protein
<b>Afu2g04190</b>	-2.36	-2.3	-2.07	conserved hypothetical protein
<b>Afu2g04210</b>	-2.67	-1.37	-1.55	conserved hypothetical protein
<b>Afu2g04250</b>	-1.12	-1.01	-2.62	C6 finger domain protein, putative
<b>Afu2g04630</b>	-0.37	-0.95	-2.01	translation elongation factor EF-1 subunit, putative
<b>Afu2g04720</b>	-1.95	-2.2	-2.01	ubiquitin C-terminal hydrolase, putative
<b>Afu2g04730</b>	-1.35	-3.12	-1.09	NA
<b>Afu2g04740</b>	-2.5	-2.83	-2.96	vacuolar sorting-associated protein (Vps27), putative
<b>Afu2g04750</b>	-2.15	-2.65	-2.1	hypothetical protein
<b>Afu2g04780</b>	-1.63	-2.37	-2.01	WD repeat protein

<b>Afu2g04870</b>	-1.03	-2.04	-1.76	dehydrogenase complex alpha subunit, putative
<b>Afu2g05010</b>	-1.84	-2.82	-3.12	conserved hypothetical protein
<b>Afu2g05120</b>	-2.34	-2.34	-1.18	hypothetical protein
<b>Afu2g05250</b>	-3.27	-4.4	-3.49	RfeD
<b>Afu2g05420</b>	-1.59	-2.5	-2.24	hypothetical protein
<b>Afu2g05440</b>	-2.31	-2.24	-2.55	Hypothetical protein
<b>Afu2g05530</b>	-2.43	-3.36	-2.89	histone acetyltransferase (Esa1), putative
<b>Afu2g05550</b>	-1.84	-2.53	-2.24	conserved hypothetical protein
<b>Afu2g05570</b>	-0.96	-0.84	-2.06	hypothetical protein
<b>Afu2g05620</b>	-1.83	-1.84	-2.06	conserved hypothetical protein
<b>Afu2g05630</b>	-2.43	-2.6	-1.73	hypothetical protein
<b>Afu2g05730</b>	-2.95	-3.97	-3.57	siderochrome-iron transporter (MirC), putative
<b>Afu2g05770</b>	-1.56	-2.1	-2.08	conserved hypothetical protein
<b>Afu2g05840</b>	-0.5	-2.08	-1.56	multidrug transporter, putative
<b>Afu2g05940</b>	-2.47	-2.73	-2.6	conserved hypothetical protein
<b>Afu2g05970</b>	-2.46	-2.97	-2.71	PHD finger and JmjC domain protein, putative
<b>Afu2g05980</b>	-1.85	-2.77		conserved hypothetical protein
<b>Afu2g06050</b>	-2.03	-2.22	-1.91	conserved hypothetical protein
<b>Afu2g06060</b>	-2.01	-2.49	-2.46	transcriptional co-activator (Hfi1/Ada1), putative
<b>Afu2g06070</b>	-2.84	-3.77	-3.97	NA
<b>Afu2g06080</b>	-1.76	-3.12	-2.99	GTPase activating protein (Gyp1), putative
<b>Afu2g06120</b>	-1.97	-2.93	-2.93	hypothetical protein
<b>Afu2g06160</b>	-1.67	-2.33		mutanase
<b>Afu2g06170</b>	-1.79	-2.25	-2.39	autophagy protein Atg22, putative
<b>Afu2g06220</b>	-2.58	-2.75	-2.96	zinc knuckle domain protein
<b>Afu2g06280</b>	-1.58	-1.87	-2.41	oligosaccharyl transferase subunit (gamma), putative
<b>Afu2g06290</b>	-4.21	-4.35	-3.95	nuclear division rft1 protein
<b>Afu2g06300</b>	-1.75	-1.97	-2.09	nuclear division rft1 protein
<b>Afu2g06310</b>	-1.47	-2.11	-2.28	ATP-dependent RNA helicase, putative
<b>Afu2g06320</b>	-2.06	-2.3	-3.25	replication protein A 70 kDa DNA-binding subunit
<b>Afu2g07390</b>	-1.5	-2.01	-3.04	hypothetical protein
<b>Afu2g07460</b>	-2.08	-1.93	-2.05	RNA polymerase II transcriptional coactivator, putative
<b>Afu2g07610</b>	-1.13	-1.85	-2.03	alcohol dehydrogenase PAN2
<b>Afu2g07620</b>	-2.74	-3.75	-3.66	cystathionine beta-synthase, putative
<b>Afu2g07710</b>	-0.33	-1.4	-2.01	mRNA splicing factor RNA helicase (Cdc28), putative
<b>Afu2g08080</b>	-2.84	-3.53	-2.99	conserved hypothetical protein
<b>Afu2g08150</b>	-2.14	-1.89	-2.41	NEDD8-like protein (RubA), putative

<b>Afu2g08170</b>	-2.04	-2.16	-2.45	hypothetical protein
<b>Afu2g08440</b>	-2.02	-2.26	-3.49	ubiquitin C-terminal hydrolase, putative
<b>Afu2g08620</b>	-1.58	-1.87	-2.56	20S cyclosome subunit (BimA/Nuc2/Cdc27), putative
<b>Afu2g08660</b>	-1.41	-2.12	-1.49	conserved hypothetical protein
<b>Afu2g08680</b>	-1.68	-2.9	-1.46	hypothetical protein
<b>Afu2g08730</b>	-0.91	-2.48		hypothetical protein
<b>Afu2g08990</b>	-1.86	-2.08	-2.06	eukaryotic translation initiation factor 5
<b>Afu2g09190</b>	-2.14	-2.75	-2.78	hypothetical protein
<b>Afu2g09460</b>	-1.95	-2.68		potassium transporter
<b>Afu2g09500</b>	-1.76	-2.13	-2.18	universal stress protein family domain protein
<b>Afu2g09510</b>	-3.54	-4.35	-3.82	hypothetical protein
<b>Afu2g09530</b>	-2.71	-2.66	-3.52	PUTATIVE SIGNAL PEPTIDE PROTEIN
<b>Afu2g09630</b>	-2.97	-3.99	-3.18	hypothetical protein
<b>Afu2g09640</b>	-2.42	-2.97	-2.85	RING finger domain protein, putative
<b>Afu2g09820</b>	-2.63	-3.75	-4.02	conserved hypothetical protein
<b>Afu2g09860</b>	-1.29	-2.46	-2.44	purine-cytosine permease
<b>Afu2g09880</b>	-1.57	-2.02	-1.42	hypothetical protein
<b>Afu2g09890</b>	-2.59	-4.23	-3.34	conserved hypothetical protein
<b>Afu2g09990</b>	-2.77	-3.08	-2.6	hypothetical protein
<b>Afu2g10030</b>	-2.94	-2.45	-1.94	vip1 protein
<b>Afu2g10050</b>	-2.12	-2.47	-3.57	hypothetical protein
<b>Afu2g10110</b>	-2.58	-3.46	-3.46	hypothetical protein
<b>Afu2g10120</b>	-2.61	-3.06	-3.56	YjeF domain protein
<b>Afu2g10130</b>	-3.18	-4.94	-3.86	phase-specific adhesin, putative
<b>Afu2g10310</b>	-2.39	-3.18	-3.04	DUF408 domain protein
<b>Afu2g10330</b>	-2.28	-2.91	-2.87	conserved hypothetical protein
<b>Afu2g10400</b>	-3.16	-3.9	-3.32	C6 transcription factor, putative
<b>Afu2g10480</b>	-1.41	-1.91	-2.29	conserved hypothetical protein
<b>Afu2g10540</b>	-2.11	-1.91	-1.28	hypothetical protein
<b>Afu2g10550</b>	-3.23	-4.15	-3.19	C2H2 transcription factor (RfeC), putative
<b>Afu2g10750</b>	-1.63	-3.54	-2.8	RNA helicase (Dbp), putative
<b>Afu2g10770</b>	-2.4	-2.47	-2.32	C2H2 transcription factor (Con7), putative
<b>Afu2g10790</b>	-1.05	-2.17	-1.74	pentatricopeptide repeat protein
<b>Afu2g10850</b>	-1.92	-2.06	-2.54	C6 finger domain protein, putative
<b>Afu2g10870</b>	-1.96	-1.67	-2.12	hypothetical protein
<b>Afu2g10890</b>	-2.04	-2.09	-2.06	VPS9 domain protein, putative
<b>Afu2g10900</b>	-2.17	-2.28	-2.37	autophagy related lipase (Atg15), putative
<b>Afu2g10980</b>	-3.3	-3.57	-3.68	ADP-ribosylation factor, putative

<b>Afu2g11100</b>	-2.83	-3.24	-3	AMFR protein, putative
<b>Afu2g11180</b>	-3.22	-3.74	-3.94	developmental regulator FlbA
<b>Afu2g11210</b>	-2.01	-2.79	-2	PHD finger and SET domain protein, putative
<b>Afu2g11250</b>	-1.78	-2.43	-2.48	aryl-alcohol dehydrogenase (AAD), putative
<b>Afu2g11300</b>	-1.46	-2.35		G2882
<b>Afu2g11390</b>	-2.05	-3.01	-2.2	hypothetical protein
<b>Afu2g11500</b>	-2.55	-2.81	-2.81	acetyltransferase, GNAT family family
<b>Afu2g11570</b>	-1.77	-2.28	-2.1	F-box domain protein
<b>Afu2g11740</b>	-1.17	-1.7	-2.82	LON domain serine protease, putative
<b>Afu2g11770</b>	-1.33	-2	-1.8	hypothetical protein
<b>Afu2g11800</b>	-2.05	-3.02	-2.95	small nuclear ribonucleoprotein (LSM1), putative
<b>Afu2g11900</b>	-2.84	-3.56	-2.27	pyruvate dehydrogenase kinase
<b>Afu2g11920</b>	-1.28	-2.02	-2.53	hypothetical protein
<b>Afu2g12060</b>	-1.53	-2.28	-2.35	F-box and WD repeat-containing protein
<b>Afu2g12120</b>	-1.74	-2.23	-1.61	hypothetical protein
<b>Afu2g12200</b>	-1.74	-2.15	-2.4	cAMP-dependent protein kinase catalytic subunit PkaC1
<b>Afu2g12220</b>	-2.53	-3	-2.76	DNA replication factor C subunit Rfc1, putative
<b>Afu2g12250</b>	-1.21	-1.56	-2.06	DNA replication factor C subunit Rfc5, putative
<b>Afu2g12260</b>	-1.93	-2.56	-2.55	cytochrome c oxidase assembly protein cox11
<b>Afu2g12290</b>	-2.01	-2.08	-2.02	NA
<b>Afu2g12310</b>	-3.11	-4.13	-3.39	HLH transcription factor, putative
<b>Afu2g12330</b>	-2.02	-3	-2.93	conserved hypothetical protein
<b>Afu2g12360</b>	-1.04	-1.71	-2.02	WD repeat protein
<b>Afu2g12440</b>	-2.06	-2.37	-2.36	Dph211 protein
<b>Afu2g12510</b>	-1.51	-2.21	-2.07	hypothetical protein
<b>Afu2g12620</b>	-1.77	-2.27		NA
<b>Afu2g12630</b>	-2.71	0.24	-1.18	allergen Asp F13
<b>Afu2g13040</b>	-2.35	-3.44	-2.84	mitochondrial co-chaperone GrpE, putative
<b>Afu2g13230</b>	-1.25	-2.03	-2.25	universal stress protein family domain protein
<b>Afu2g13360</b>	-2.09	-2.32	-2.53	SNF2 family helicase/ATPase, putative
<b>Afu2g13380</b>	-1.66	-2.32	-1.93	GATA transcription factor (AreB), putative
<b>Afu2g13390</b>	-2.36	-3.49	-2.93	MFS transporter, putative
<b>Afu2g13400</b>	-2.53	-2.55	-2.09	TDE domain protein, putative
<b>Afu2g13440</b>	-2.83	-3.65	-3.71	chitin synthase E
<b>Afu2g13490</b>	-1.74	-2.2	-2.07	KH domain protein
<b>Afu2g13510</b>	-1.88	-2.33	-2.06	DUF300 domain protein, putative
<b>Afu2g13720</b>	-2.15	-2.06	-1.12	RNA-polymerase I

<b>Afu2g13760</b>	-1.52	-1.54	-2	plasma membrane SNARE protein (Sec9), putative
<b>Afu2g13830</b>	-2.22	-3.22	-2.33	conserved hypothetical protein
<b>Afu2g13850</b>	-3.77	-5.46	-4.17	protein phosphatase regulatory subunit (Gac1), putative
<b>Afu2g13870</b>	-2.5	-3.04	-3.33	mitochondrial carrier protein, putative
<b>Afu2g13980</b>	-2.08	-2.41	-1.6	ATP dependent RNA helicase (Dbp9), putative
<b>Afu2g13990</b>	-1.54	-2.13	-2.78	hypothetical protein
<b>Afu2g14090</b>	-2.39	-2.9	-2.15	extragenic suppressor of the bimD6 mutation
<b>Afu2g14110</b>	-3.63	-3.81	-3.24	sulfur metabolite repression control protein SconB, putative
<b>Afu2g14130</b>	-1.96	-2.39	-2.46	ubiquitin C-terminal hydrolase, putative
<b>Afu2g14190</b>	-2.31	-2.61	-2.46	Mitochondrial import inner membrane translocase subunit TIM23, putative
<b>Afu2g14320</b>	-2.68	-3.11	-3.53	HHE domain protein
<b>Afu2g14330</b>	-4.16	-5.06	-3.97	hypothetical protein
<b>Afu2g14700</b>	-1.59	-2.2		hypothetical protein
<b>Afu2g14720</b>	-1.66	-2.21	-1.79	HAPB
<b>Afu2g14800</b>	-2.42	-3.32	-2.4	HLH transcription factor (Hpa3), putative
<b>Afu2g14860</b>	-1.63	-2.2		epoxide hydrolase, putative
<b>Afu2g14890</b>	-2.07	-2.44	-3.18	conserved hypothetical protein
<b>Afu2g15000</b>	-2.09	-3.13	-1.71	Mechanosensitive ion channel family
<b>Afu2g15130</b>	-2.98	-2.16	-2.34	ABC multidrug transporter, putative
<b>Afu2g15140</b>	-1.23	-2.24	-2.63	MSF drug transporter, putative
<b>Afu2g15270</b>	-1.77	-2.31		conserved hypothetical protein
<b>Afu2g15440</b>	-2.01	-2.6	-1.97	integral membrane protein, putative
<b>Afu2g15480</b>	-1.63	-2.79	-2.31	hypothetical protein
<b>Afu2g15610</b>	-1.59	-2.15	-1.19	mitochondrial DNA-directed RNA polymerase, putative
<b>Afu2g15660</b>	-1.12	-1.56	-2.69	aldehyde dehydrogenase family protein, putative
<b>Afu2g15670</b>	-1.65	-2.5	-2.18	hypothetical protein
<b>Afu2g15680</b>	-3.02	-2.75	-2.9	transcription initiation factor iia small chain
<b>Afu2g15690</b>	-2.05	-1.92	-1.75	conserved hypothetical protein
<b>Afu2g15760</b>	-1.65	-1.78	-2.3	poly(A)+ RNA transport protein (UbaA), putative
<b>Afu2g15770</b>	-1.77	-2.35	-2.45	conserved hypothetical protein
<b>Afu2g15780</b>	-1.69	-2.16	-2.34	Ca <sup>2+</sup> dependent mitochondrial carrier protein, putative
<b>Afu2g15800</b>	-3.18	-3.73	-3.63	conserved hypothetical protein
<b>Afu2g15880</b>	-1.39	-2.07	-1.82	mitotic spindle checkpoint protein (Mad2B), putative
<b>Afu2g15890</b>	-2.07	-2.93	-1.87	RING finger protein, putative
<b>Afu2g15960</b>	-2.97	-3.41	-2.88	nucleotide binding protein Nbp35, putative

<b>Afu2g15970</b>	-1.6	-2.08	-2.16	phosphatidylethanolamine methyltransferase
<b>Afu2g16000</b>	-0.9	-2.17		hypothetical protein
<b>Afu2g16020</b>	-0.68	-1.26	-2.38	t-complex protein 1, alpha subunit, putative
<b>Afu2g16090</b>	-1.78	-1.85	-2.76	karyopherin alpha subunit, putative
<b>Afu2g16180</b>	-3.34	-4.07	-3.57	hypothetical protein
<b>Afu2g16410</b>	-2.56	-3.41	-3.76	hypothetical protein
<b>Afu2g16420</b>	-2.05	-2.8	-2.33	conserved hypothetical protein
<b>Afu2g16440</b>	-2.15	-2.48	-0.53	hypothetical protein
<b>Afu2g16690</b>	-1.26	-2.08	-1.87	SNF7 family protein
<b>Afu2g16700</b>	-1.54	-1.73	-2.13	DNA repair protein (RadR), putative
<b>Afu2g16750</b>	-2.19	-2.84	-2.17	nonsense-mediated mRNA decay protein 3
<b>Afu2g16770</b>	-1.24	-1.83	-2.15	mitochondrial carrier protein (Leu5), putative
<b>Afu2g16810</b>	-2.44	-3.47	-3.18	PHD finger domain protein, putative
<b>Afu2g16930</b>	-2.55	-3.98	-2.94	succinate:fumarate antiporter (Acr1), putative
<b>Afu2g16940</b>	-1.31	-1.6	-2.09	conserved hypothetical protein
<b>Afu2g17060</b>	-2.42	-2.39	-1.54	60S ribosome subunit biogenesis protein (Nip7), putative
<b>Afu2g17130</b>	-1.34	-2.27	-1.92	protein kinase regulator Ste50
<b>Afu2g17220</b>	-2.4	-3.18	-2.87	C2H2 transcription factor (AmdX), putative
<b>Afu2g17480</b>	-2	-3.71	-2.3	amino acid transporter, putative
<b>Afu2g17520</b>	-2.3	-0.73	-0.34	GNAT family N-acetyltransferase, putative
<b>Afu2g18080</b>	-1.63	-4.66	-2.34	LINE-1 class reverse transcriptase, RNaseH, putative
<b>Afu3g00200</b>	-2.53	-3.68	-3.29	hexose transporter protein
<b>Afu3g00220</b>	-1.6	-2.01	-1.95	hexose transporter protein
<b>Afu3g00240</b>	-2.08	-2.78	-2.5	TPR domain protein
<b>Afu3g00250</b>	-2.27	-3.34	-3.31	salicylate hydroxylase, putative
<b>Afu3g00330</b>	-1.11	-2.46	-2.59	hypothetical protein
<b>Afu3g00440</b>	-1.58	-2.22	-1.8	F-box domain protein
<b>Afu3g00500</b>	-3.51	-5.18	-4	integral membrane protein
<b>Afu3g00640</b>	-2.81	-3.79	-3.61	conserved hypothetical protein
<b>Afu3g00810</b>	-4.35	-4.68	-3.87	cholesterol delta-isomerase, putative
<b>Afu3g00820</b>	-2.59	-2.78	-2.6	putative exported protein
<b>Afu3g00860</b>	-1	-2.01	-2.75	hypothetical protein
<b>Afu3g01030</b>	-1.89	-3		RTA1 domain protein, putative
<b>Afu3g01160</b>	-2.05	-2.19	-1.99	iron-sulfur cluster-binding protein, rieske family domain protein
<b>Afu3g01300</b>	-3.23	-4.24	-3.39	hypothetical protein
<b>Afu3g01440</b>	-1.67	-2.47	-1.66	DUF1212 domain membrane protein

<b>Afu3g01790</b>	-1.37	-1.76	-2.06	isoflavone reductase family protein
<b>Afu3g01800</b>	-1.59	-2.09	-2.19	GPI anchored dioxygenase, putative
<b>Afu3g01820</b>	-1.02	-2.09	-1.71	amino acid permease
<b>Afu3g02090</b>	-1.57	-2.5	-2.47	beta-xylosidase
<b>Afu3g02140</b>	-3.42	-3.9	-2.89	large conductance mechanosensitive channel, putative
<b>Afu3g02320</b>	-2.02	-2.89	-2.41	C2H2 finger domain protein (Kin17), putative
<b>Afu3g02550</b>	-3.64	-3.29	-4.02	conserved hypothetical protein
<b>Afu3g02710</b>	-1.59	-2.08	-1.8	zinc-binding oxidoreductase, putative
<b>Afu3g03040</b>	-3.43	-4.95	-3.86	conserved hypothetical protein
<b>Afu3g03070</b>	-1.52	-2.82		MYND domain protein, putative
<b>Afu3g03120</b>	-0.79	-3.43	-1.83	NA
<b>Afu3g03230</b>	-1.76	-3.31	-2.39	hypothetical protein
<b>Afu3g03300</b>	-1.85	-2.7	-2.27	FAD binding domain protein
<b>Afu3g03460</b>	-2.96	-3.9	-1.9	HAD superfamily hydrolase, putative
<b>Afu3g03940</b>	-2.01	-2.69	-2.93	2,3-diketo-5-methylthio-1-phosphopentane phosphatase, putative
<b>Afu3g04010</b>	-1.42	-2.33	-2.32	MFS transporter, putative
<b>Afu3g04060</b>	-2	-2.56	-1.95	SNF7 family protein (Fti1), putative
<b>Afu3g04110</b>	-1.68	-2.27	-2.26	rRNA processing protein (Bystin), putative
<b>Afu3g04300</b>	-2.84	-3.43	-2.68	hypothetical protein
<b>Afu3g04310</b>	-3.35	-4.07	-4.04	snoRNA binding protein, putative
<b>Afu3g05330</b>	-3.01	-3.3	-3.16	R3H and G-patch domain protein, putative
<b>Afu3g05390</b>	-2.08	-2.35	-1.47	protein-L-isoaspartate O-methyltransferase
<b>Afu3g05460</b>	-2.62	-2.8	-2.76	60S ribosomal protein L20, putative
<b>Afu3g05520</b>	-1.85	-2.2	-1.71	oxysterol binding protein (Orp8), putative
<b>Afu3g05550</b>	-2.43	-2.29	-2.63	OTU-like cysteine protease, putative
<b>Afu3g05560</b>	-2.21	-2.32	-2.13	RSC complex subunit (RSC1), putative
<b>Afu3g05760</b>	-1.86	-2.5	-2.42	C6 transcription factor (Fcr1), putative
<b>Afu3g05820</b>	-1.17	-1.82	-2.01	Zinc finger, ZZ type domain protein
<b>Afu3g05960</b>	-0.4	-1.31	-2.15	hypothetical protein
<b>Afu3g06000</b>	-2.76	-5.02	-4.07	conserved hypothetical protein
<b>Afu3g06010</b>	-2.32	-2.86	-2.97	Nucleolar essential protein 1, putative
<b>Afu3g06060</b>	-0.62	-1.42	-2.12	Flap endonuclease, putative
<b>Afu3g06090</b>	-1.69	-2.68	-2.64	transcription initiation factor TFIID subunit 12, putative
<b>Afu3g06100</b>	-1.22	-1.68	-2.35	conserved hypothetical protein
<b>Afu3g06110</b>	-1.48	-1.84	-2.3	proteasome regulatory particle subunit (RpnC), putative

<b>Afu3g06230</b>	-1.99	-3.23	-1.67	hypothetical protein
<b>Afu3g06250</b>	-0.67	-2.34	-1.4	hypothetical protein
<b>Afu3g06260</b>	-1.59	-2	-1.78	translation initiation factor SUI1
<b>Afu3g06270</b>	-2.03	-2.82	-3.14	hypothetical protein
<b>Afu3g06320</b>	-2.41	-2.68	-2.79	conserved hypothetical protein
<b>Afu3g06380</b>	-2.95	-3.4	-3.13	hypothetical protein
<b>Afu3g06400</b>	-3.42	-4.28	-3.98	hypothetical protein
<b>Afu3g06430</b>	-1.7	-2.8	-2.65	GDP/GTP exchange factor Sec2p, putative
<b>Afu3g06470</b>	-2.29	-3.52	-2.89	DHHC zinc finger membrane protein, putative
<b>Afu3g06480</b>	-2.12	-2.6	-2.24	SET domain containing protein
<b>Afu3g06540</b>	-3.36	-4.71	-3.99	3'-phosphoadenosine-5'-phosphosulfate reductase
<b>Afu3g06580</b>	-1.17	-2.28	-1.2	WD repeat protein
<b>Afu3g06690</b>	-3.24	-4.12	-3.73	Rho GTPase Rho3
<b>Afu3g06760</b>	-1.77	-2.27	-2.15	ribosomal protein L37
<b>Afu3g06770</b>	-3.89	-4.76	-4.08	zinc knuckle domain protein
<b>Afu3g06880</b>	-1.73	-1.92	-2.25	SDP3
<b>Afu3g06890</b>	-1.4	-2.07	-1.9	RNA recognition motif containing protein
<b>Afu3g06950</b>	-2.52	-2.53	-2.66	mitochondrial carrier protein (Rim2), putative
<b>Afu3g07000</b>	-1.32	-2.32	-1.5	conserved hypothetical protein
<b>Afu3g07070</b>	-2.18	-2.25	-1.15	MYB DNA-binding domain protein
<b>Afu3g07110</b>	-1.55	-1.99	-2.08	class III chitinase, putative
<b>Afu3g07180</b>	-2.68	-3.91	-3.49	pantothenate kinase, putative
<b>Afu3g07240</b>	-1.93	-2.48	-3.28	multidomain presynaptic cytomatrix related protein
<b>Afu3g07680</b>	-1.69	-2.75	-2.26	ran GTPase activating protein 1 (RNA1 protein)
<b>Afu3g07840</b>	-2.49	-2.66		hypothetical protein
<b>Afu3g08030</b>	-1.28	-1.67	-2.28	Met-10+ like-protein, putative
<b>Afu3g08160</b>	-1.24	-2.1	-2.79	eukaryotic translation initiation factor eIF4A, putative
<b>Afu3g08240</b>	-2.02	-1.89	-1.86	conserved hypothetical protein
<b>Afu3g08280</b>	-1.78	-1.92	-2.36	cell cycle regulatory protein (Srw1), putative
<b>Afu3g08390</b>	-2.09	-2.73	-2.55	tRNA dihydrouridine synthase (Smm1), putative
<b>Afu3g08430</b>	-1.22	-1.71	-2.14	mitochondrial phosphate carrier protein, putative
<b>Afu3g08450</b>	-2.76	-4.2	-2.81	hypothetical protein
<b>Afu3g08580</b>	-2.19	-1.94	-1.55	glycine-rich RNA-binding protein, putative
<b>Afu3g08630</b>	-1.79	-2.48		coactivator bridging factor 1 (Mbf1), putative
<b>Afu3g08640</b>	-0.68	-1.53	-2.26	eukaryotic translation initiation factor 3 subunit 2i, putative
<b>Afu3g08670</b>	-2.6	-3.29	-3.46	related to L-fucose permease
<b>Afu3g08710</b>	-1.52	-2.38	-1.52	protein kinase domain-containing protein

<b>Afu3g08880</b>	-1.53	-2.32	-2.75	conserved hypothetical protein
<b>Afu3g08920</b>	-2.01	-3.31	-2.13	hypothetical protein
<b>Afu3g08990</b>	-2.52	-3.04	-2.76	hypothetical protein
<b>Afu3g09080</b>	-1.89	-1.98	-2.27	Hypothetical protein
<b>Afu3g09360</b>	-1.96	-3.23	-3.32	vacuolar sorting ATPase Vps4, putative
<b>Afu3g09380</b>	-1.35	-2.08	-1.86	SGT1 protein, putative
<b>Afu3g09410</b>	-1.05	-3.74	-1.86	reverse transcriptase
<b>Afu3g09430</b>	-1.78	-4.21	-2.59	LINE-1 class reverse transcriptase, RNaseH, putative
<b>Afu3g09770</b>	-1.55	-1.88	-2.02	RNA recognition motif. (a.k.a. RRM, RBD, or RNP domain) protein
<b>Afu3g09820</b>	-1.3	-2.27	-1.88	C2H2 transcription factor, putative
<b>Afu3g09900</b>	-1.53	-2.62	-1.81	GTPase-activating protein, putative
<b>Afu3g09960</b>	-1.94	-2.3	-2.91	aureobasidin resistance protein Aur1
<b>Afu3g09980</b>	-2.52	-2.7	-1.81	hypothetical protein
<b>Afu3g10100</b>	-1.18	-3.34	-1.89	Sfrs4 protein
<b>Afu3g10110</b>	-1.53	-1.88	-2.44	electron transfer flavoprotein-ubiquinone oxidoreductase
<b>Afu3g10120</b>	-3.45	-5.43	-4.53	TATA-box binding protein
<b>Afu3g10150</b>	-3.27	-4.48	-4.27	hypothetical protein
<b>Afu3g10180</b>	-1.98	-3.62	-3.15	HEC/Ndc80p family protein
<b>Afu3g10240</b>	-1.44	-1.83	-2.29	Ccr4-Not transcription complex subunit (NOT1), putative
<b>Afu3g10320</b>	-2.84	-3.21	-2.36	Zinc finger, C3HC4 type (RING finger) domain protein
<b>Afu3g10340</b>	-2.06	-2.44	-2.35	Rho GTPase Rho 2, putative
<b>Afu3g10410</b>	-2.07	-2.49	-2.12	conserved serine-rich protein
<b>Afu3g10420</b>	-1.81	-2.41	-1.9	conserved hypothetical protein
<b>Afu3g10520</b>	-1.61	-2.19	-2.03	serine/threonine protein kinase (Prp4), putative
<b>Afu3g10530</b>	-3.68	-5.16	-4.49	protein serine/threonine kinase (Ran1), putative
<b>Afu3g10620</b>	-1.46	-2.53	-3.07	transcription initiation protein
<b>Afu3g10880</b>	-3.21	-3.63	-2.85	anion exchange family protein
<b>Afu3g10930</b>	-2.24	-2.9	-2.77	bZIP transcription factor (MeaB), putative
<b>Afu3g10960</b>	-2.11	-2.51	-2.5	cell wall protein, putative
<b>Afu3g11010</b>	-1.71	-2.58	-1.18	suppressor of meiotic silencing
<b>Afu3g11170</b>	-2.06	-2.1	-1.62	hypothetical protein
<b>Afu3g11210</b>	-2.05	-1.85	-2.38	YagE family protein
<b>Afu3g11230</b>	-1.93	-1.98	-2.14	hypothetical protein
<b>Afu3g11250</b>	-2.11	-3.07	-1.99	C2H2 transcription factor (Swi5), putative

<b>Afu3g11290</b>	-1.12	-2.17		hypothetical protein
<b>Afu3g11310</b>	-2.74	-3.26	-2.8	hypothetical protein
<b>Afu3g11330</b>	-3.59	-4.73	-4.26	bZIP transcription factor (AtfA), putative
<b>Afu3g11340</b>	-2.14	-2.35	-1.9	transthyretin domain protein
<b>Afu3g11390</b>	-1.23	-1.58	-2.48	proteasome regulatory particle subunit Rpt3, putative
<b>Afu3g11410</b>	-2.16	-2.43	-1.69	RNA Polymerase II CTD phosphatase Fcp1, putative
<b>Afu3g11530</b>	-2.54	-3.47	-3.86	DnaJ domain protein
<b>Afu3g11610</b>	-2.75	-2.77	-2.65	nucleosome binding protein (Nhp6a), putative
<b>Afu3g11730</b>	-2.16	-2.68	-2.96	hypothetical protein
<b>Afu3g11870</b>	-2.28	-2.95	-2.68	F-box and WD40 domain protein, putative
<b>Afu3g11890</b>	-0.85	-2.32	-0.59	thermolabile L-asparaginase, putative
<b>Afu3g12000</b>	-1.27	-2.14	-1.15	hypothetical protein
<b>Afu3g12050</b>	-2.02	-2.94	-2.83	F-box domain protein
<b>Afu3g12100</b>	-2.21	-2.51	-1.94	trehalose synthase (Ccg-9), putative
<b>Afu3g12220</b>	-1.08	-2.42	-1.11	ABC transporter, putative
<b>Afu3g12260</b>	-2.05	-1.6	-1.9	hypothetical protein
<b>Afu3g12350</b>	-1.81	-2.14	-1.43	stress response RCI peptide, putative
<b>Afu3g12370</b>	-1.45	-1.39	-2.33	Vacuolar ATP synthase 16 kDa proteolipid subunit, putative
<b>Afu3g12380</b>	-1.15	-1.98	-2.43	hypothetical protein
<b>Afu3g12400</b>	-2	-2.75	-2.97	G protein complex alpha subunit (GanA), putative
<b>Afu3g12490</b>	-2.07	-2.34	-2.08	protein arginine methyltransferase 3
<b>Afu3g12500</b>	-1.81	-2.36	-2.24	conserved hypothetical protein
<b>Afu3g12510</b>	-1.93	-2.18	-2.82	vesicular fusion ATPase, putative
<b>Afu3g12530</b>	-3.63	-4.74	-3.74	sensor histidine kinase/response regulator, putative
<b>Afu3g12550</b>	-2.09	-2.39	-2.25	sensor histidine kinase/response regulator, putative
<b>Afu3g12570</b>		-2.86	-2.96	conserved hypothetical protein
<b>Afu3g12670</b>	-1.53	-2.17		serine/threonine protein kinase, putative
<b>Afu3g12700</b>	-2.3	-2.4	-2.5	DUF250 domain membrane protein
<b>Afu3g12830</b>	-1.64	-2.6	-1.69	RTA1 domain protein, putative
<b>Afu3g12930</b>	-1.69	-2.91	-2.57	dimethylallyl tryptophan synthase (GliD), putative
<b>Afu3g13090</b>	-2.07	-2.65	-1.71	hypothetical protein
<b>Afu3g13100</b>	-2.44	-3.06	-2.24	hypothetical protein
<b>Afu3g13160</b>	-3.43	-4.11	-3.08	hypothetical protein
<b>Afu3g13180</b>	-1.74	-2.31	-2.97	hypothetical protein
<b>Afu3g13470</b>	-3.49	-3.56	-3.22	sulfate transporter, putative
<b>Afu3g13480</b>	-2.04	-3.13	-3.38	translation initiation factor 2 alpha subunit, putative
<b>Afu3g13770</b>	-1.96	-1.92	-2.98	vacuolar segregation protein (Pep7), putative

<b>Afu3g13810</b>	-2.29	-1.91	-3.06	integral membrane protein, putative
<b>Afu3g13850</b>	-2.77	-2.91	-3.47	LRP16 family protein
<b>Afu3g14270</b>	-1.42	-1.86	-2.21	aldo-keto reductase (AKR), putative
<b>Afu3g14340</b>	-2.16	-1.15	-1.1	mitotic spindle checkpoint protein (Mad2), putative
<b>Afu3g14350</b>	-1.52	-2.25	-2.07	GTP binding protein Guf1, putative
<b>Afu3g14430</b>	-1.66	-1.77	-2.07	NEDD8 conjugating enzyme (UbcL), putative
<b>Afu3g14540</b>	-2.73	-3.75	-3.47	heat shock protein HSP30, putative
<b>Afu3g14550</b>	-3.73	-4.27	-3.71	DNA repair protein (Rex1), putative
<b>Afu3g14810</b>	-1.12	-2.17	-0.42	pathogenicity associated protein PEP2, putative
<b>Afu3g14900</b>	-2.04	-2.46	-2.54	hypothetical protein
<b>Afu3g15050</b>	-1.45	-2.51	-2.18	Flavin-binding monooxygenase, putative
<b>Afu3g15370</b>	-1.72	-4.34	-2.26	LINE-1 class reverse transcriptase, RNaseH, putative
<b>Afu4g00180</b>	-1.2	-2.09	-1.67	fatty acid oxygenase, putative
<b>Afu4g00450</b>	-2.13	-3.73	-4.5	hypothetical protein
<b>Afu4g00720</b>	-0.71	-2.15	-1.91	protein phosphatase 2C, putative
<b>Afu4g00730</b>	-3.1	-4.93	-4.05	HHE domain protein
<b>Afu4g00740</b>	-2.32	-4.17	-2.93	hypothetical protein
<b>Afu4g00820</b>	-1.39	-4.12	-1.98	reverse transcriptase, RNaseH
<b>Afu4g00860</b>	-2.04	-4.33	-2.27	conserved hypothetical protein
<b>Afu4g01010</b>	-1.44	-2.39	-1.75	C6 transcription factor, putative
<b>Afu4g01560</b>	-3.29	-2.17	-1.79	MFS myo-inositol transporter, putative
<b>Afu4g05830</b>	-1.98	-2.3	-2.97	IDI2
<b>Afu4g05860</b>	-2.79	-2.92	-2.56	mitochondrial NADH-ubiquinone oxidoreductase 20 kD subunit, putative
<b>Afu4g05870</b>	-3.48	-4.55	-3.55	oxidoreductase, short-chain dehydrogenase/reductase family
<b>Afu4g05880</b>	-1.91	-2.51	-1.42	Mpp10 protein superfamily
<b>Afu4g05920</b>	-2.06	-1.85	-1.84	mitochondrial protein sorting (Msf1), putative
<b>Afu4g06030</b>	-1.03	-1.05	-2.08	hypothetical protein
<b>Afu4g06100</b>	-2.57	-3.38	-2.6	conserved hypothetical protein
<b>Afu4g06170</b>	-2.29	-2.97	-2.55	conserved hypothetical protein
<b>Afu4g06260</b>	-3.35	-3.83	-3.35	mating-type switch/DNA repair protein Swi10, putative
<b>Afu4g06280</b>	-1.62	-2.62	-2.21	hypothetical protein
<b>Afu4g06360</b>	-2.31	-2.74	-2.46	conserved hypothetical protein
<b>Afu4g06530</b>	-2.09	-2.24	-1.61	bZIP transcription factor (MetR), putative
<b>Afu4g06550</b>	-1.53	-2.65	-2.98	RING finger domain protein (Znf1), putative
<b>Afu4g06580</b>	-2.53	-3.12	-2.44	hypothetical protein

<b>Afu4g06730</b>	-2.03	-1.96	-1.97	hypothetical protein
<b>Afu4g06770</b>	-1.79	-2.58	-2.38	iron-sulfur cofactor synthesis protein nifU, putative
<b>Afu4g06790</b>	-1.83	-1.98	-2	ubiquinol-cytochrome c reductase complex 14 kDa protein
<b>Afu4g06830</b>	-2.67	-3.11	-2.77	SUMO conjugating enzyme (UbcI), putative
<b>Afu4g06950</b>	-1.76	-2.23	-2.7	related to (VAMP)-associated protein
<b>Afu4g07030</b>	-2.15	-1.26	-1.87	hypothetical protein
<b>Afu4g07090</b>	-2.23	-2.68	-2.04	C2H2 finger domain protein, putative
<b>Afu4g07160</b>	-2.54	-3.13	-3	ATP dependent RNA helicase (Dob1), putative
<b>Afu4g07230</b>	-3	-3.25	-3.62	RecQ family helicase RecQ, putative
<b>Afu4g07490</b>	-3.22	-4.35	-3.98	hypothetical protein
<b>Afu4g07550</b>	-2.55	-3.21	-3.1	G-patch domain protein (Spp2), putative
<b>Afu4g07580</b>	-1.96	-3.16	-3.81	translation initiation factor EF-2 gamma subunit, putative
<b>Afu4g07620</b>	-1.84	-1.82	-2.27	hypothetical protein
<b>Afu4g07650</b>	-2.28	-1.96	-2.53	peptidyl-prolyl cis-trans isomerase (CypB), putative
<b>Afu4g07660</b>	-2.45	-3.6	-2.1	ATP dependent RNA helicase (Dbp1), putative
<b>Afu4g07880</b>	-2.24	-3.33	-2.56	conserved hypothetical protein
<b>Afu4g07930</b>	-2.1	-2.79	-2.98	hypothetical protein
<b>Afu4g08040</b>	-1.32	-1.46	-2.27	RAB GTPase Ypt5, putative
<b>Afu4g08390</b>	-1.75	-2.62	-1.58	hypothetical protein
<b>Afu4g08440</b>	-3.21	-4.13	-4.17	Patatin-like serine hydrolase, putative
<b>Afu4g08450</b>	-1.6	-2.61	-2.87	conserved hypothetical protein
<b>Afu4g08490</b>	-1.64	-1.91	-2.28	acyl-CoA dehydrogenase, putative
<b>Afu4g08780</b>	-3.28	-4.16	-3.29	hypothetical protein
<b>Afu4g08790</b>	-2.28	-2.4	-2.59	conserved hypothetical protein
<b>Afu4g08860</b>	-1.19	-2.79	-1.56	hypothetical protein
<b>Afu4g08890</b>	-0.36	-2.75	-1.12	aldo-keto reductase family protein, putative
<b>Afu4g08900</b>	-2.33	-3.77	-3.18	CDK-activating kinase assembly factor MAT1
<b>Afu4g08910</b>	-2.31	-2.25	-2.44	hypothetical protein
<b>Afu4g08930</b>	-1.52	-2.01	-0.99	nucleolar GTPase, putative
<b>Afu4g08950</b>	-1.35	-1.72	-2.12	NA
<b>Afu4g08960</b>	-2.01	-3.22	-3.22	GPI anchored protein, putative
<b>Afu4g08970</b>	-1.88	-2.26	-2.03	PAP2 domain protein
<b>Afu4g09040</b>	-2.51	-3.09	-2.5	high affinity methionine permease
<b>Afu4g09050</b>	-2.1	-2.73	-1.94	serine/threonine protein kinase (Pdd7p), putative
<b>Afu4g09140</b>	-2.96	-3.38	-3.69	ornithine aminotransferase
<b>Afu4g09700</b>	-1.55	-2.23	-1.68	hypothetical protein

<b>Afu4g09910</b>	-1.7	-2.36	-2.28	conserved hypothetical protein
<b>Afu4g09960</b>	-1.62	-2.15	-0.96	conserved hypothetical protein
<b>Afu4g10100</b>	-0.86	-2.48	-1.95	FAD binding domain protein
<b>Afu4g10110</b>	-3.23	-3.57	-3.65	homeobox transcription factor, putative
<b>Afu4g10280</b>	-2.46	-3.24	-2.9	histidine containing phosphotransmitter protein, putative
<b>Afu4g10310</b>	-1.63	-2.08	-1.78	hypothetical protein
<b>Afu4g10350</b>	-2.09	-2.82	-2.22	polyubiquitin (UbiD), putative
<b>Afu4g10460</b>	-2.43	-3.23	-3.01	homocitrate synthase
<b>Afu4g10690</b>	-2.72	-3.53	-3	Iron-sulfur cluster assembly accessory protein
<b>Afu4g10790</b>	-2.29	-3.42	-2.6	phosphoribosyl diphosphate synthase isoform 4
<b>Afu4g10810</b>	-1.56	-2.17	-1.8	hypothetical protein
<b>Afu4g10870</b>	-1.33	-2.16	-1.28	NA
<b>Afu4g11130</b>	-2.32	-2.5	-2.16	conserved hypothetical protein
<b>Afu4g11140</b>	-2.48	-2.77	-2.65	DNA polymerase iota, putative
<b>Afu4g11280</b>	-2.83	-3.06	-3.86	DUF409 domain protein
<b>Afu4g11360</b>	-2.34	-2.77	-3.05	glycerol-3-phosphate acyltransferase Sct1, putative
<b>Afu4g11480</b>	-3.83	-4.35	-3.66	C2H2 finger domain protein, putative
<b>Afu4g11520</b>	-1.16	-1.42	-2.17	hypothetical protein
<b>Afu4g11560</b>	-2.73	-3.08	-2.8	vacuolar protein sorting-associated protein vps13
<b>Afu4g11630</b>	-2.01	-2.05	-1.9	hypothetical protein
<b>Afu4g11710</b>	-3.6	-5.55	-4.61	oxidoreductase, zinc-binding dehydrogenase family superfamily
<b>Afu4g11770</b>	-1.31	-1.46	-2.01	hypothetical protein
<b>Afu4g11850</b>	-2.32	-2.4	-2.94	C6 finger domain protein, putative
<b>Afu4g11860</b>	-2.42	-2.74	-2.42	formin binding protein 21
<b>Afu4g11960</b>	-3.91	-4.37	-3.34	Iron only hydrogenase large subunit, C-terminal domain containing protein
<b>Afu4g11980</b>	-1.81	-2.22	-1.78	anthranilate phosphoribosyltransferase
<b>Afu4g12040</b>	-1.96	-2.27	-3.37	oxidosqualene:lanosterol cyclase
<b>Afu4g12110</b>	-2.41	-3.16	-2.49	TPR domain protein
<b>Afu4g12360</b>	-1.43	-1.8	-2.04	prefoldin subunit 1, putative
<b>Afu4g12390</b>	-3.25	-4	-2.83	cell differentiation protein (Rcd1), putative
<b>Afu4g12400</b>	-2.09	-2.57	-1.99	PHD finger domain protein, putative
<b>Afu4g12550</b>	-1.82	-2.42	-2.2	hypothetical protein
<b>Afu4g12640</b>	-2.42	-3.01	-3.05	RGS domain protein (Rax1), putative
<b>Afu4g12650</b>	-2.16	-2.52	-2.9	histone acetyltransferase (Gcn5), putative

<b>Afu4g12720</b>	-1.65	-2.12	-1.69	phosphoesterase, putative
<b>Afu4g12760</b>	-2.26	-2.94	-2.23	SAM binding motif containing protein
<b>Afu4g13010</b>	-1.76	-1.9	-2.53	conserved hypothetical protein
<b>Afu4g13120</b>	-2.55	-4.42	-3.91	glutamine synthetase
<b>Afu4g13150</b>	-2.4	-2.84	-2.5	DUF159 domain protein
<b>Afu4g13210</b>	-3.14	-4.08	-3.28	hypothetical protein
<b>Afu4g13230</b>	-2.62	-2.72	-2.21	regulatory protein weta
<b>Afu4g13300</b>	-2.99	-3.46	-3.71	hypothetical protein
<b>Afu4g13340</b>	-3.2	-3.35	-2.94	DUF907 domain protein
<b>Afu4g13380</b>	-2.08	-1.71	-1.66	conserved hypothetical protein
<b>Afu4g13400</b>	-2.39	-2.47	-2.94	glycosyltransferase family 28, putative
<b>Afu4g13450</b>	-1.52	-2.07	-2.02	RNA methyltransferase, TrmH family family
<b>Afu4g13460</b>	-1.85	-2.92	-2.44	SNF2 family helicase/ATPase, putative
<b>Afu4g13510</b>	-1.12	-2.21	-0.99	isocitrate lyase
<b>Afu4g13530</b>	-1.09	-1.87	-2.03	Trehalase
<b>Afu4g13550</b>	-1.87	-1.62	-2.53	short chain dehydrogenase/reductase family
<b>Afu4g13610</b>	-1.47	-2.43	-2.17	hypothetical protein
<b>Afu4g13620</b>	-1.53	-2.61	-1.11	hypothetical protein
<b>Afu4g13660</b>	-1.67	-3.16	-3.24	MFS multidrug resistance transporter, putative
<b>Afu4g13820</b>	-0.8	-2.1	-0.76	multidrug transporter, putative
<b>Afu4g13860</b>	-1.75	-2.58	-2.3	extracellular salicylate hydroxylase/monooxygenase, putative
<b>Afu4g13910</b>	-1.26	-1.71	-2.01	conserved hypothetical protein
<b>Afu4g14370</b>	-0.65	-2.93	-0.21	LINE-1 class reverse transcriptase, RNase H, putative
<b>Afu4g14450</b>	-1.28	-2.04	-1.41	D-mannonate oxidoreductase
<b>Afu4g14630</b>	-3.85	-5.52	-3.51	FAD binding domain protein
<b>Afu4g14640</b>	-3.02	-3.82	-3.42	low affinity iron transporter, putative
<b>Afu4g14760</b>	-3.18	-3.94	-2.88	ABC multidrug transporter, putative
<b>Afu4g14770</b>	-3.1	-4.59	-2.95	squalene-hopene-cyclase, putative
<b>Afu4g14850</b>	-0.62	-2.15	-1.28	extracellular 3-ketosteroid 1-dehydrogenase, putative
<b>Afu4g14860</b>	-2.29	-3.76	-1.83	NA
<b>Afu4g14870</b>	-1.72	-4.61	-2.68	LINE-1 class reverse transcriptase, RNaseH, putative
<b>Afu5g00160</b>	-2.07	-4.41	-1.54	MFS polyamine transporter, putative
<b>Afu5g00240</b>	-2.62	-3.87	-3.36	hypothetical protein
<b>Afu5g00250</b>	-2.95	-4.33	-3.54	hypothetical protein
<b>Afu5g00290</b>	-1.94	-1.51	-2.28	C6 transcription factor, putative
<b>Afu5g00760</b>	-3.09	-2.77	-3.13	chitin synthase C
<b>Afu5g00770</b>	-2.24	-0.6	-1.53	integral membrane protein, putative

<b>Afu5g00790</b>	-2.9	-2.17	-2.15	ABC multidrug transporter, putative
<b>Afu5g00800</b>	-3.89	-4.29	-3.98	conserved hypothetical protein
<b>Afu5g00810</b>	-3.23	-5.02	-4.03	hypothetical protein
<b>Afu5g00880</b>	-2.85	-3.45	-3.53	hypothetical protein
<b>Afu5g00890</b>	-2.04	-2.14	-2.22	hypothetical protein
<b>Afu5g01020</b>	-2.77	-2.92	-3.35	DUF858 domain protein
<b>Afu5g01270</b>	-2.84	-3.09	-2.75	C6 transcription factor, putative
<b>Afu5g01290</b>	-1.79	-2.36	-2.19	zinc-binding oxidoreductase, putative
<b>Afu5g01340</b>	-3.03	-4.43	-3.99	lysophospholipase, putative
<b>Afu5g01430</b>	-1.43	-2.03	-1.02	ThiJ/PfpI family protein
<b>Afu5g01510</b>	-1.41	-2.93	-1.43	amino acid transporter
<b>Afu5g01640</b>	-1.81	-3.37	-1.46	ankyrin repeat protein
<b>Afu5g01650</b>	-2.65	-2.55	-1.01	bZIP transcription factor JIbA/IDI-4, putative
<b>Afu5g01740</b>	-2.33	-3.42	-3.53	deoxyhypusine synthase, putative
<b>Afu5g01800</b>	-2.05	-2.28	-2.17	DNA repair protein rad14
<b>Afu5g01930</b>	-2.41	-3.48	-3.07	hypothetical protein
<b>Afu5g01950</b>	-2.1	-2.63	-2.92	histone H2A
<b>Afu5g01980</b>	-2.15	-2.47	-2.51	histone deacetylase hda1
<b>Afu5g02070</b>	-2.32	-3.32	-2.61	hypothetical protein
<b>Afu5g02110</b>	-2.09	-3.81	-3.15	hypothetical protein
<b>Afu5g02150</b>	-0.89	-1.21	-2.37	proteasome component Pre6, putative
<b>Afu5g02200</b>	-1.87	-2.14	-1.74	Mitochondrial import inner membrane translocase subunit (TIM22), putative
<b>Afu5g02240</b>	-2.21	-1.85	-3.02	NAD dependent epimerase/dehydratase family protein
<b>Afu5g02300</b>	-1.79	-2.03	-1.9	peroxidase, putative
<b>Afu5g02390</b>	-0.82	-2.43	-2.3	Auxin Efflux Carrier superfamily
<b>Afu5g02400</b>	-3.72	-4.71	-4.36	catabolite degradation protein, putative
<b>Afu5g02410</b>	-2.09	-3.14	-3.06	DEAD/DEAH box helicase, putative
<b>Afu5g02480</b>	-1.43	-1.94	-2.46	glycogen synthase
<b>Afu5g02530</b>	-0.9	-1.53	-2.63	ribokinase
<b>Afu5g02560</b>	-2.29	-3.36	-2.61	SCS1 product
<b>Afu5g02680</b>	-1.67	-1.53	-2.19	NA
<b>Afu5g02800</b>	-2	-2.64	-2.22	C6 transcription factor, putative
<b>Afu5g02880</b>	-4.49	-5.59	-4.51	C6 transcription factor, putative
<b>Afu5g02890</b>	-3.18	-4.02	-3.69	conserved hypothetical protein
<b>Afu5g02910</b>	-1.57	-2.23	-2.33	SET translocation
<b>Afu5g02970</b>	-2.65	-1.8	-2.04	LCCL domain protein
<b>Afu5g03060</b>	-1.86	-2.49	-2.32	hypothetical protein

<b>Afu5g03140</b>	-3	-3.61	-3.52	GTP cyclohydrolase I, putative
<b>Afu5g03160</b>	-1.06	-1.65	-2.1	protein kinase, putative
<b>Afu5g03200</b>	-2.03	-2.25	-2.26	Ulp1 protease family protein
<b>Afu5g03250</b>	-1.58	-2.16	-2.45	ubiquitin C-terminal hydrolase (HAUSP), putative
<b>Afu5g03270</b>	-2.25	-3.01	-2.75	hypothetical protein
<b>Afu5g03330</b>	-1.69	-2.13	-2.95	conserved hypothetical protein
<b>Afu5g03340</b>	-2.36	-3.11	-2.66	hypothetical protein
<b>Afu5g03350</b>	-1.44	-1.93	-2.38	glutamine dependent NAD <sup>+</sup> synthetase, putative
<b>Afu5g03390</b>	-2.76	-3.39	-3.26	conserved hypothetical protein
<b>Afu5g03430</b>	-1.58	-2.37	-2.49	PHD transcription factor (Rum1), putative
<b>Afu5g03570</b>	-1.7	-1.67	-2.24	mitochondrial large ribosomal subunit protein L1, putative
<b>Afu5g03840</b>	-1	-1.86	-2.33	oxidoreductase, short chain dehydrogenase/reductase family
<b>Afu5g03870</b>	-2.28	-2.3	-2	conserved hypothetical protein
<b>Afu5g03930</b>	-2.28	-3.93	-3.02	alcohol dehydrogenase, putative
<b>Afu5g04100</b>	-1.71	-2.06	-1.74	PQ loop repeat protein
<b>Afu5g04120</b>	-1.81	-2.06	-2.01	SIR2 family histone deacetylase, putative
<b>Afu5g04260</b>	-3.6	-4.88	-3.9	arginine transporter, putative
<b>Afu5g04380</b>	-2.33	-2.85	-2.25	conserved hypothetical protein
<b>Afu5g04410</b>	-2.35	-2.11	-1.43	hypothetical protein
<b>Afu5g04440</b>	-1.55	-2.22	-2.28	nucleolar RNase III, putative
<b>Afu5g05480</b>	-3.8	-4.37	-3.88	Rheb GTPase RhbA
<b>Afu5g05540</b>	-2.1	-2.12	-2.54	nucleosome assembly protein
<b>Afu5g05590</b>	-1.85	-2.41	-2.38	aspartokinase
<b>Afu5g05600</b>	-3.25	-3.44	-2.75	forkhead transcription factor (Sep1), putative
<b>Afu5g05610</b>	-3.85	-4.78	-3.74	cell cycle control protein Cwf14, putative
<b>Afu5g05680</b>	-2.25	-2.99	-2.72	peptide chain release factor eRF/aRF, subunit 1
<b>Afu5g05710</b>	-1.72	-2.14	-1.81	pseudouridylate synthase family protein
<b>Afu5g05720</b>	-2.01	-1.52	-1.92	conserved hypothetical protein
<b>Afu5g05750</b>	-2.18	-2.65	-2.61	protein kinase, putative
<b>Afu5g05770</b>	-1.16	-1.42	-2.23	1,3-beta-glucan biosynthesis protein, putative
<b>Afu5g05780</b>	-2.88	-3.53	-3.27	hypothetical protein
<b>Afu5g05790</b>	-2.61	-3	-2.92	ubiquitin ligase subunit HrtA, putative
<b>Afu5g05900</b>	-1.59	-2.45	-2.88	protein kinase (Chm1), putative
<b>Afu5g06040</b>	-0.97	-1.17	-2.4	UV excision repair protein (RadW), putative
<b>Afu5g06060</b>	-3.31	-3.35	-3.91	sulfur metabolism regulator SkpA, putative
<b>Afu5g06070</b>	-2.49	-2.81	-2.03	ABC multidrug transporter Mdr1

<b>Afu5g06090</b>	-0.88	-1.29	-2.2	type-III integral membrane protein (Ytp1), putative
<b>Afu5g06140</b>	-3.65	-4.41	-3.56	histone acetyltransferase, putative
<b>Afu5g06170</b>	-2.43	-2.97	-2.71	conserved hypothetical protein
<b>Afu5g06190</b>	-1.83	-2.77	-3.69	sexual development transcription factor SteA
<b>Afu5g06240</b>	-0.95	-2.03	-1.69	alcohol dehydrogenase, putative
<b>Afu5g06260</b>	-1.84	-2.62	-2.73	SNF2 family helicase/ATPase (Ino80), putative
<b>Afu5g06330</b>	-2.51	-2.94	-3.28	RSC complex subunit (Sth1), putative
<b>Afu5g06340</b>	-2.39	-2.77	-2.52	BAR domain protein
<b>Afu5g06370</b>	-2.72	-3.69	-3.26	hypothetical protein
<b>Afu5g06400</b>	-2	-2.79	-2.79	hypothetical protein
<b>Afu5g06410</b>	-1.38	-1.54	-2.32	C2H2 transcription factor (AmdA), putative
<b>Afu5g06470</b>	-2.16	-2.06	-1.87	serine/threonine protein kinase, putative
<b>Afu5g06510</b>	-2.11	-2		GTP binding protein, putative
<b>Afu5g06700</b>	-1.66	-2.47	-3.03	serine/threonine protein phosphatase PPT1
<b>Afu5g06980</b>	-1.43	-1.64	-2.3	hypothetical protein
<b>Afu5g07020</b>	-2.28	-3.47	-3.26	ABC transporter, putative
<b>Afu5g07050</b>	-1.46	-1.45	-2.29	proteasome regulatory particle subunit Rpt2, putative
<b>Afu5g07060</b>	-2.8	-3.82	-3.61	WD repeat protein
<b>Afu5g07110</b>	-1.68	-2.49	-0.98	integral membrane protein
<b>Afu5g07210</b>	-2.92	-4.45	-4.3	homoserine O-acetyltransferase, putative
<b>Afu5g07250</b>	-2.93	-3.78	-2.72	DUF300 domain protein, putative
<b>Afu5g07450</b>	-2.65	-2.65	-3.26	hypothetical protein
<b>Afu5g07590</b>	-2.24	-1.62	-1.01	hypothetical protein
<b>Afu5g07720</b>	-3.06	-3.67	-3.4	CCCH and RING finger protein
<b>Afu5g07760</b>	-1.95	-2.08	-1.98	tetracycline-efflux transporter, putative
<b>Afu5g07800</b>	-1.85	-2.35	-2.26	hypothetical protein
<b>Afu5g07860</b>	-2.6	-2.81	-2.09	phosphatase family protein
<b>Afu5g07880</b>	-2.34	-3.69	-3.69	a-pheromone receptor PreA
<b>Afu5g07940</b>	-3.09	-3.75	-3.21	hypothetical protein
<b>Afu5g08020</b>	-2.92	-4.08	-4	HLH DNA binding protein (Penr2), putative
<b>Afu5g08060</b>	-1.74	-2.02	-2.51	importin 13, putative
<b>Afu5g08200</b>	-2.06	-3.11	-1.48	hypothetical protein
<b>Afu5g08300</b>	-1.52	-1.38	-2.39	alpha-actinin, sarcomeric (f-actin cross linking protein)
<b>Afu5g08330</b>	-3.17	-3.64	-3.11	RNA binding protein
<b>Afu5g08400</b>	-1.75	-1.52	-2.51	NA
<b>Afu5g08410</b>	-2.55	-2.99		PQ loop repeat protein
<b>Afu5g08550</b>	-2.08	-2.48	-2.69	Rho guanyl nucleotide exchange factor (Rom2), putative

<b>Afu5g08570</b>	-2.35	-3.77	-3.08	cAMP-dependent protein kinase catalytic subunit, putative
<b>Afu5g08580</b>	-1.53	-2.37	-2.11	alpha-1,6-mannosyltransferase subunit (Och1), putative
<b>Afu5g08680</b>	-1.06	-1.63	-2.14	mitochondrial GTPase (YlqF), putative
<b>Afu5g08710</b>	-2.12	-2.57	-1.88	hypothetical protein
<b>Afu5g08740</b>	-2.2	-2.8	-3.48	DHHC zinc finger membrane protein
<b>Afu5g08910</b>	-1.2	-0.92	-2.21	3-methylcrotonyl-CoA carboxylase subunit alpha (MccA), putative
<b>Afu5g08930</b>	-1.11	-0.83	-2.07	isovaleryl-CoA dehydrogenase IvdA, putative
<b>Afu5g09000</b>	-1.91	-2.47	-1.99	sister chromatid cohesion protein (Eso1), putative
<b>Afu5g09060</b>	-1.82	-2.47	-2.18	RNA binding protein, putative
<b>Afu5g09090</b>	-1.03	-2.05		ATP binding protein, putative
<b>Afu5g09100</b>	-2.27	-3.04	-1.84	MAP kinase, putative
<b>Afu5g09110</b>	-2.75	-3.74	-2.84	NA
<b>Afu5g09370</b>	-2.25	-2.61	-2.56	hypothetical protein
<b>Afu5g09440</b>	-2.74	-2.76	-1.58	amino acid permease, putative
<b>Afu5g09580</b>	-1.03	-2.24	-1.52	conidial hydrophobin Hyp1/RodA
<b>Afu5g09640</b>	-1.98	-2.58	-2.62	conserved fungal protein
<b>Afu5g09650</b>	-2.16	-2.22	-2.33	small monomeric GTPase (Gtr1), putative
<b>Afu5g09770</b>	-3	-4.28	-3.58	hypothetical protein
<b>Afu5g09850</b>	-0.92	-2.4	-2.16	tRNA exportin, putative
<b>Afu5g09920</b>	-2.08	-2.83	-2.79	peptidase, putative
<b>Afu5g10160</b>	-1.4	-2.22	-1.81	actVA 4 protein
<b>Afu5g10190</b>	-1.49	-1.72	-2.28	hypothetical protein
<b>Afu5g10200</b>	-2.46	-3.4	-3.26	hypothetical protein
<b>Afu5g10210</b>	-1.95	-2.79	-1.83	hypothetical protein
<b>Afu5g10260</b>	-0.7	-1.97	-2.06	NA
<b>Afu5g10590</b>	-3.42	-3.21	-2.13	stress response RCI peptide, putative
<b>Afu5g10620</b>	-1.99	-2.42	-2.34	CBF/NF-Y family transcription factor, putative
<b>Afu5g10690</b>	-2.63	-4.78	-4.05	monosaccharide transporter
<b>Afu5g10770</b>	-2.23	-2.65	-2.56	topoisomerase II associated protein pat1 homolog
<b>Afu5g10910</b>	-3.3	-3.22	-4.02	hypothetical protein
<b>Afu5g10920</b>	-2.12	-2.98	-3.55	DUF221 domain protein, putative
<b>Afu5g10950</b>	-2.47	-2.68	-2.4	hypothetical protein
<b>Afu5g11010</b>	-2.14	-2.25	-1.78	nucleoside diphosphatase (Ynd1), putative
<b>Afu5g11020</b>	-1.77	-2.57	-1.91	ammonium transporter
<b>Afu5g11080</b>	-2.52	-2.85	-2.62	MSF multidrug transporter, putative
<b>Afu5g11090</b>	-2.96	-3.33	-3.01	conserved hypothetical protein

<b>Afu5g11130</b>	-2.01	-1.19		PAXNEB protein superfamily
<b>Afu5g11150</b>	-0.4	-2.18	-2.2	ribonuclease P protein subunit p29
<b>Afu5g11260</b>	-1.93	-2.29	-2.05	siderophore transcription factor SreA
<b>Afu5g11350</b>	-2.83	-2.68	-2.45	conserved hypothetical protein
<b>Afu5g11500</b>	-0.96	-1.4	-3.13	conserved hypothetical protein
<b>Afu5g11510</b>	-1.47	-2.6	-2.54	hypothetical protein
<b>Afu5g11520</b>	-3.66	-4.49	-3.91	serine/threonine protein kinase (Nrc-2), putative
<b>Afu5g11580</b>	-1.53	-2.36	-1.84	transcription factor TFIIH subunit Tfb4, putative
<b>Afu5g11650</b>	-1.44	-2.51	-1.09	conserved hypothetical protein
<b>Afu5g11680</b>	-2.62	-2.98	-1.5	hypothetical protein
<b>Afu5g11690</b>	-3.45	-4.44	-3.89	related to protein tyrosine phosphatase PPS1
<b>Afu5g11770</b>	-1.91	-2.66	-2.14	hypothetical protein
<b>Afu5g11800</b>	-1.3	-2.05		NA
<b>Afu5g11840</b>	-2.15	-3.28	-2.97	protein kinase, putative
<b>Afu5g11920</b>	-1.55	-1.47	-2.26	Vacuolar ATP synthase subunit D, putative
<b>Afu5g11970</b>	-1.85	-1.81	-2.51	protein kinase c, putative
<b>Afu5g12050</b>	-2.57	-3.26	-3.38	DNA ligase, putative
<b>Afu5g12070</b>	-1.14	-2	-1.71	conserved hypothetical protein
<b>Afu5g12090</b>	-1.89	-3.11	-1.86	conserved hypothetical protein
<b>Afu5g12100</b>	-3.57	-4.04	-3.16	pmt2 methyltransferase
<b>Afu5g12110</b>	-3.03	-3.34	-3.5	conserved hypothetical protein
<b>Afu5g12150</b>	-3.72	-4.16	-3.87	PH domain protein
<b>Afu5g12160</b>	-1.94	-1.81	-2.15	alpha-1,2-mannosyltransferase (Kre5), putative
<b>Afu5g12180</b>	-1.79	-1.89	-2.11	Ran/spi1 binding protein
<b>Afu5g12230</b>	-2.3	-3.23	-2.88	MYND domain protein (SamB), putative
<b>Afu5g12280</b>	-1.76	-2.69		hypothetical protein
<b>Afu5g12440</b>	-2.41	-2.83	-3.16	cell cycle control protein (Cwf23), putative
<b>Afu5g12580</b>	-2.78	-3.55	-3.38	GTP binding protein (GTPBP1), putative
<b>Afu5g12590</b>	-1.23	-2.19	-1.41	solid-state culture expressed protein (Aos23), putative
<b>Afu5g12630</b>	-3.86	-3.95	-3.71	hypothetical protein
<b>Afu5g12640</b>	-2.78	-4.02	-3.4	DNA polymerase gamma
<b>Afu5g12830</b>	-2.11	-1.72	-1.58	lipoprotein, putative
<b>Afu5g12910</b>	-1.56	-2.02	-1.7	small nuclear ribonucleoprotein Smd2, putative
<b>Afu5g13240</b>	-1.58	-1.92	-2.03	related to transcription factor KCS1
<b>Afu5g13270</b>	-2.19	-2.38	-2.21	PalH
<b>Afu5g13310</b>	-1.97	-2.01	-2.54	C6 transcription factor, putative
<b>Afu5g13480</b>	-1.39	-2.3	-2.17	U1 small nuclear ribonucleoprotein 70 kDa
<b>Afu5g13560</b>	-2.09	-3.14	-2.68	FHA domain protein

<b>Afu5g13590</b>	-1.69	-2.16		conserved hypothetical protein
<b>Afu5g13600</b>	-1.92	-2.09	-2.06	vacuolar protein sorting vps16, putative
<b>Afu5g13610</b>	-2.16	-2.04	-2.59	conserved hypothetical protein
<b>Afu5g13620</b>	-2.29	-1.39	-1.17	ubiquitin C-terminal hydrolase, putative
<b>Afu5g13760</b>	-1.52	-2.36	-2.64	hypothetical protein
<b>Afu5g13860</b>	-1.16	-2	-2.14	mlo3 protein
<b>Afu5g13870</b>	-3.3	-4.34	-4.05	mlo3 protein
<b>Afu5g13900</b>	-1.81	-1.74	-2.36	transposase
<b>Afu5g13930</b>	-2.58	-3.48	-3.47	CCCH finger DNA binding protein, putative
<b>Afu5g14020</b>	-2.69	-3.92	-3.17	hypothetical protein
<b>Afu5g14080</b>	-2.72	-3.26	-3.05	hypothetical protein
<b>Afu5g14320</b>	-1.34	-2.09	-1.71	hypothetical protein
<b>Afu5g14350</b>	-3.57	-3.87	-4.04	c-24(28) sterol reductase
<b>Afu5g14860</b>	-1.48	-2.28	-2.37	cytochrome P450
<b>Afu5g14900</b>	-1.93	-1.91	-2.1	hypothetical protein
<b>Afu5g15010</b>	-1.9	-1.67	-2.13	arsenite permease (ArsB), putative
<b>Afu5g15040</b>	-1.32	-1.68	-2.31	hypothetical protein
<b>Afu6g00120</b>	-2.19	-2.78	-2.58	C6 transcription factor, putative
<b>Afu6g00460</b>	-1.61	-2.86	-2.4	hypothetical protein
<b>Afu6g00520</b>	-1.83	-2.12	-1.65	conserved hypothetical protein
<b>Afu6g00680</b>	-2.15	-0.04	-1.36	hypothetical protein
<b>Afu6g00770</b>	-4.65	-6.66	-4.74	extracellular arabinanase, putative
<b>Afu6g00780</b>	-1.71	-4.46	-2.21	LINE-1 class reverse transcriptase, RNaseH, putative
<b>Afu6g02020</b>	-3.63	-4.7	-4.27	hypothetical protein
<b>Afu6g02070</b>	-3.15	-3.87	-2.78	phospholipid-translocating P-type ATPase domain-containing protein
<b>Afu6g02110</b>	-3.21	-4.05	-3.91	SRF-type transcription factor (Umc1), putative
<b>Afu6g02190</b>	-1.47	-2.34	-2.51	transcriptional activator (PtaC), putative
<b>Afu6g02330</b>	-0.75	-2.05	-1.37	hypothetical protein
<b>Afu6g02420</b>	-2.8	-2.66	-3.33	ubiquitin conjugating enzyme (UbcM), putative
<b>Afu6g02430</b>	-1.11	-2.83	-1.83	hypothetical protein
<b>Afu6g02520</b>	-1.97	-2.79	-3.22	Eukaryotic initiation factor 1A, putative
<b>Afu6g02550</b>	-1.66	-2.08	-1.3	magnesium ion transporter (Mrs2), putative
<b>Afu6g02640</b>	-3.59	-3.86	-3.96	hypothetical protein
<b>Afu6g02650</b>	-1.48	-2.19	-2.1	hypothetical protein
<b>Afu6g02660</b>	-1.51	-1.68	-2.04	conserved hypothetical protein
<b>Afu6g02680</b>	-3.49	-4.81	-3.84	ankyrin repeat and BTB/POZ domain protein
<b>Afu6g02740</b>	-2.1	-2.84	-2.5	hypothetical protein

<b>Afu6g02810</b>	-3.24	-2.61	-3.01	Ctr copper transporter family family
<b>Afu6g02820</b>	-2.13	-2.18	-2.66	metalloreductase, putative
<b>Afu6g02840</b>	-2.32	-1.6	-1.7	serine/threonine protein kinase, putative
<b>Afu6g02990</b>	-0.87	-2.09	-1.46	short chain dehydrogenase/reductase, putative
<b>Afu6g03010</b>	-1.74	-2.29		C2H2 finger domain protein (Zms1), putative
<b>Afu6g03080</b>	-1.63	-1.47	-2.03	ABC multidrug transporter, putative
<b>Afu6g03120</b>	-1.16	-3.06	-2.1	hypothetical protein
<b>Afu6g03130</b>	-2.58	-2.7	-2.49	hypothetical protein
<b>Afu6g03210</b>	-2.14	-2.91	-3.88	conidiation-specific protein 10
<b>Afu6g03360</b>	-2.04	-2.09	-1.44	oxidoreductase, zinc-binding
<b>Afu6g03370</b>	-3.7	-5.45	-4.29	oxidoreductase, short-chain dehydrogenase/reductase family
<b>Afu6g03740</b>	-1.58	-1.86	-2.29	c5 cytosine methyltransferase DmtA
<b>Afu6g03750</b>	-1.95	-2.45	-2.26	amidophosphoribosyltransferase
<b>Afu6g03760</b>	-2.07	-1.79	-2.39	conserved hypothetical protein
<b>Afu6g04000</b>	-2.01	-2	-2.4	GTPase activating protein (Tsc2), putative
<b>Afu6g04050</b>	-2.49	-2.01	-2.06	D123 proteins, putative
<b>Afu6g04260</b>	-1.68	-2.38	-2.21	mak16 protein
<b>Afu6g04270</b>	0.1	-2.04	-3.36	fructose symporter
<b>Afu6g04310</b>	-3.17	-4.11	-3.42	Pumilio 2
<b>Afu6g04340</b>	-1.3	-2.48	-1.92	hypothetical protein
<b>Afu6g04350</b>	-1.32	-2.08	-1.4	hypothetical protein
<b>Afu6g04360</b>	-2.12	-2.64	-2.07	ABC drug exporter AtrF
<b>Afu6g04390</b>	-4.09	-5.44	-4.66	conserved hypothetical protein
<b>Afu6g04400</b>	-2.36	-2.7	-3.21	transcription factor TFIIIB component, putative
<b>Afu6g04470</b>	-1.57	-2.78	-2.59	hypothetical protein
<b>Afu6g04490</b>	-1.18	-2.16	-2.01	camp independent regulatory protein
<b>Afu6g04500</b>	-1.1	-2.4	-2.25	FOG1 protein
<b>Afu6g04520</b>	-1.37	-2.06	-2.43	SET domain protein
<b>Afu6g04580</b>	-1.83	-2.07	-1.65	NIF domain protein
<b>Afu6g04630</b>	-2.07	-2.38	-1.64	conserved hypothetical protein
<b>Afu6g04680</b>	-1.72	-2.25	-2.63	MIPC synthase subunit (SurA), putative
<b>Afu6g04820</b>	-2.09	-2.47	-1.59	para-aminobenzoate synthase PabaA
<b>Afu6g04940</b>	-1.4	-2.14	-1.89	proline-rich cytokinesis protein SepA, putative
<b>Afu6g04950</b>	-2.25	-2.82	-1.72	mitochondrial GTPase (Mss1), putative
<b>Afu6g05100</b>	-1.93	-2.22	-2.84	6-phosphofructo-2-kinase, putative
<b>Afu6g05110</b>	-0.72	-1.55	-2.2	mitochondrial import receptor subunit (tom40), putative

<b>Afu6g05120</b>	-2.78	-3.09	-3.52	glycogen synthase kinase-3, putative
<b>Afu6g05140</b>	-3.1	-3.7	-3.15	sterol delta 5,6-desaturase ERG3
<b>Afu6g05180</b>	-2.71	-3.3	-2.43	splicing factor 3b subunit 4
<b>Afu6g05240</b>	-1.98	-2.71	-2.56	SUMO ligase SizA, putative
<b>Afu6g05280</b>	-1.25	-2.33	-2.87	mei2 protein
<b>Afu6g05320</b>	-1.45	-1.62	-2.34	purine nucleoside phosphorylase I, inosine and guanosine-specific
<b>Afu6g05330</b>	-2.46	-2.72	-2.01	hypothetical protein
<b>Afu6g05350</b>	-1.66	-2.57	-2.42	aspartic-type endopeptidase (OpsB), putative
<b>Afu6g06380</b>	-1.97	-2.56	-2.43	methyltransferase, putative
<b>Afu6g06390</b>	-3.26	-2.45	-3.14	hypothetical protein
<b>Afu6g06400</b>	-2.18	-2.76	-2.45	Rho GTPase activator (Bem3), putative
<b>Afu6g06420</b>	-2.86	-3.79	-3.54	mitochondrion biogenesis protein (Mdm31), putative
<b>Afu6g06490</b>	-1.64	-1.87	-2.35	U1 small nuclear ribonucleoprotein A, putative
<b>Afu6g06540</b>	-1.88	-2.05	-1.83	proteasome component (Ecm29), putative
<b>Afu6g06550</b>	-1.49	-2.2	-2.16	SNF2 family helicase/ATPase, putative
<b>Afu6g07150</b>	-2.39	-3.08	-2.14	actin binding protein, putative
<b>Afu6g07160</b>	-2.27	-2.48	-2.71	IZH family channel protein (Izh3), putative
<b>Afu6g07290</b>	-1.43	-2.15	-2.86	endosomal cargo receptor (Erv14), putative
<b>Afu6g07330</b>	-2.91	-3.27	-2.51	methionine aminopeptidase, type I, putative
<b>Afu6g07420</b>	-2.09	-2.84	-2.35	F-box domain protein
<b>Afu6g07440</b>	-3.01	-3.87	-2.65	1-phosphatidylinositol-3-phosphate 5-kinase (Fab1), putative
<b>Afu6g07530</b>	-1.35	-2.11	-2.07	bZIP transcription factor, putative
<b>Afu6g07660</b>	-1.36	-2.42	-1.14	hypothetical protein
<b>Afu6g07800</b>	-1.13	-1.88	-2.09	C6 finger domain protein, putative
<b>Afu6g08030</b>	-2.88	-2.99	-2.91	hypothetical protein
<b>Afu6g08130</b>	-0.65	-1.39	-2.22	hypothetical protein
<b>Afu6g08260</b>	-1.83	-2.5	-1.91	conserved hypothetical protein
<b>Afu6g08270</b>	-2.27	-1.83	-1.82	hypothetical protein
<b>Afu6g08290</b>	-2.18	-2.06	-3.16	ADP-ribosylation factor family protein
<b>Afu6g08320</b>	-1.61	-2.5	-2.4	conserved hypothetical protein
<b>Afu6g08450</b>	-1.78	-2.22	-2.67	conserved hypothetical protein
<b>Afu6g08540</b>	-1.93	-2.21	-1.64	C6 finger domain protein, putative
<b>Afu6g08600</b>	-1.31	-2.41	-2.31	transcription factor TFIID complex 145 kDa subunit, putative
<b>Afu6g08920</b>	-1.04	-1.52	-2.32	assimilatory sulfite reductase
<b>Afu6g08980</b>	-0.85	-2.01	-1.81	FF domain protein

<b>Afu6g09000</b>	-1.91	-2.87	-2.99	PHD finger domain protein, putative
<b>Afu6g09160</b>	-1.28	-1.7	-2.26	ubiquitin conjugating enzyme, putative
<b>Afu6g09200</b>	-2.88	-2.01	-2.25	conserved hypothetical protein
<b>Afu6g09310</b>	-1.98	-1.26	-2.3	class V chitinase, putative
<b>Afu6g09340</b>	-1.58		-2.21	hypothetical protein
<b>Afu6g09460</b>	-1.89	-3.01	-2.18	NA
<b>Afu6g09470</b>	-1.55	-4.43	-2.21	reverse transcriptase, RNaseH, putative
<b>Afu6g09570</b>	-1.6	-3.45	-1.07	conserved hypothetical protein
<b>Afu6g09930</b>	-2.87	-3.11	-3.45	bZIP transcription factor (AP-1), putative
<b>Afu6g09940</b>	-2.13	-1.84	-2.14	transposase
<b>Afu6g10020</b>	-1.86	-2.24	-2.42	Hypothetical nuclear protein
<b>Afu6g10050</b>	-1.79	-1.42	-2.95	small oligopeptide transporter, OPT family
<b>Afu6g10150</b>	-3.76	-4.03	-3.35	hypothetical protein
<b>Afu6g10180</b>	-1.15	-2.29		hypothetical protein
<b>Afu6g10190</b>	-2.28	-3.64		hypothetical protein
<b>Afu6g10240</b>	-1.67	-3.13	-2.39	sensor histidine kinase/response regulator Fos-1
<b>Afu6g10270</b>	-1.41	-2.6		NA
<b>Afu6g10460</b>	-2.37	-2.85	-2.23	ceramide synthase membrane component (Lag1), putative
<b>Afu6g10470</b>	-2.11	-2.48	-2.66	zinc finger protein ZPR1
<b>Afu6g10500</b>	-3.44	-4.36	-2.72	conserved hypothetical protein
<b>Afu6g10720</b>	-2.27	-3.14		alpha-ketoglutarate-dependent taurine dioxygenase
<b>Afu6g10780</b>	-2.66	-3.32	-3.17	carboxylesterase, putative
<b>Afu6g10790</b>	-3.73	-4.55	-4.06	MFS amine transporter, putative
<b>Afu6g10800</b>	-2.67	-2.59	-2.39	carboxylesterase, putative
<b>Afu6g10840</b>	-2.35	-2.72	-2.71	hypothetical protein
<b>Afu6g10860</b>	-2.7	-2.88	-3.1	hypothetical protein
<b>Afu6g10900</b>	-2.57	-3.77	-3.42	UV-endonuclease UVE-1
<b>Afu6g10940</b>	-1.65	-1.94	-2.56	conserved hypothetical protein
<b>Afu6g10950</b>	-2.12	-4.11	-3.29	NA
<b>Afu6g11060</b>	-2.04	-2.1	-1.66	DnaJ domain protein
<b>Afu6g11070</b>	-2.5	-3.05	-2.75	DEAD box RNA helicase (Hca4), putative
<b>Afu6g11180</b>	-1.02	-2.16	-1.28	conserved hypothetical protein
<b>Afu6g11220</b>	-1.56	-2.03	-0.72	TBC domain protein, putative
<b>Afu6g11250</b>	-1.77	-2.75	-1.77	C2H2 finger domain protein, putative
<b>Afu6g11430</b>	-0.92	-1.25	-2.06	aldehyde dehydrogenase, putative
<b>Afu6g11450</b>	-1.9	-2.1	-2.14	C6 transcription factor, putative
<b>Afu6g11670</b>	-2.4	-3.86	-4.45	conserved hypothetical protein

<b>Afu6g11690</b>	-0.74	-3.08	-3.02	NA
<b>Afu6g12020</b>	-0.64	-2.15	-1.46	C2H2 finger domain protein, putative
<b>Afu6g12260</b>	-1.5	-1.97	-2	NA
<b>Afu6g12270</b>	-1.38	-2.43		ubiquitin C-terminal hydrolase, putative
<b>Afu6g12290</b>	-1.42	-2.4	-2.5	PH domain protein
<b>Afu6g12340</b>	-1.52	-2.09	-1.49	GTPase activating protein (BUD2/CLA2), putative
<b>Afu6g12430</b>	-1.77	-1.88	-2.08	Ran-interacting protein MOG1, putative
<b>Afu6g12440</b>	-2.23	-2.28	-2.3	conserved hypothetical protein
<b>Afu6g12540</b>	-2.33	-2.32	-2.75	RING finger protein
<b>Afu6g12600</b>	-2.16	-2.98	-2.93	WD repeat protein
<b>Afu6g12610</b>	-1.31	-1.27	-2	rhomboid family protein, putative
<b>Afu6g12640</b>	-3.17	-4.07	-3.14	conserved hypothetical protein
<b>Afu6g12650</b>	-2.33	-2.78	-1.82	conserved hypothetical protein
<b>Afu6g12840</b>	-1	-2.04	-1.1	kinesin family protein
<b>Afu6g12950</b>	-2.17	-2.8	-2.3	alpha,alpha-trehalose-phosphate synthase subunit TPS1, putative
<b>Afu6g12970</b>	-1.88	-2.25	-2.14	nuclear migration protein NudF
<b>Afu6g13010</b>	-1.73	-2.62	-2.81	GTP binding protein (EngB), putative
<b>Afu6g13020</b>	-2.68	-2.87	-2.64	AP-3 adaptor complex subunit sigma, putative
<b>Afu6g13030</b>	-2.09	-1.95	-2.69	cell division control protein Cdc4, putative
<b>Afu6g13130</b>	-2.48	-2.77	-2.88	transcription initiation factor TFIIE, beta subunit, putative
<b>Afu6g13200</b>	-2.5	-2.04	-2.48	autophagy regulatory protein (Gsa11/Atg2), putative
<b>Afu6g13440</b>	-2.26	-2.41		choline sulfatase, putative
<b>Afu6g13470</b>	-1.26	-2.1	-1.82	conserved hypothetical protein
<b>Afu6g13670</b>	-2.68	-3.78	-3.62	conserved hypothetical protein
<b>Afu6g14130</b>	-1.66	-1.33	-2.37	ubiquitin conjugating enzyme, putative
<b>Afu6g14250</b>	-2.79	-3.42	-3.76	endosomal integral membrane protein (P24a), putative
<b>Afu6g14260</b>	-1.74	-2.03	-1.55	conserved hypothetical protein
<b>Afu6g14270</b>	-2.08	-1.5	-1.12	hypothetical protein
<b>Afu6g14290</b>	-1.48	-2.29		conserved hypothetical protein
<b>Afu6g14660</b>	-1.63	-4.4	-2.14	reverse transcriptase, RNaseH
<b>Afu7g00270</b>	-3.75	-4.64	-3.95	FAD binding monooxygenase, putative
<b>Afu7g00290</b>	-0.68	-2.48	-1.44	cytochrome P450 monooxygenase, putative
<b>Afu7g00300</b>	-2.3	-2.58	-1.53	squalene-hopene-cyclase, putative
<b>Afu7g00390</b>	-1.66	-2.03	-1.52	MFS multidrug transporter, putative
<b>Afu7g00400</b>	-2.62	-3.18	-3.19	hypothetical protein
<b>Afu7g00410</b>	-2.16	-2.54	-2.41	C6 transcription factor, putative

<b>Afu7g00470</b>	-2.25	-3.01	-2.4	hypothetical protein
<b>Afu7g00960</b>	-0.65	-2.08	-1.25	extracellular cysteine-rich protein, putative
<b>Afu7g00990</b>	-2.46	-3.78	-2.75	integral membrane protein
<b>Afu7g01250</b>	-1.16	-2.19		hypothetical protein
<b>Afu7g01350</b>	-2.33	-3.28	-2.1	hypothetical protein
<b>Afu7g01380</b>	-2.47	-2.92	-2.43	anaphase promoting complex subunit Apc11, putative
<b>Afu7g01430</b>	-2.77	-4.44	-3.58	opsin 1
<b>Afu7g01470</b>	-2.03	-3.35	-2.79	integral membrane protein, Mpv17/PMP22 family, putative
<b>Afu7g01560</b>	-1.58	-2.45	-1.77	FAD dependent oxidoreductase, putative
<b>Afu7g01620</b>	-1.46	-2.38	-2.67	hypothetical protein
<b>Afu7g01630</b>	-1.48	-1.82	-2.13	hypothetical protein
<b>Afu7g01650</b>	-0.93	-2.24	-1.19	related to ARCA protein, putative
<b>Afu7g01720</b>	-0.05	-1.44	-2	3-hydroxymethyl-3-methylglutaryl-Coenzyme A lyase
<b>Afu7g01850</b>	-3.41	-3.56	-3.66	RNA polymerase Rpc34 subunit superfamily
<b>Afu7g01920</b>	-2.74	-3.65	-3.15	DNA-dependent RNA polymerase II RPB140
<b>Afu7g02090</b>	-2.18	-2.07	-2.99	membrane associated DnaJ chaperone, putative
<b>Afu7g02170</b>	-2.35	-3.07	-3.51	RNA binding protein, putative
<b>Afu7g02210</b>	-2.63	-3.03	-2.19	conserved hypothetical protein
<b>Afu7g02280</b>	-2.19	-2.47		small nucleolar ribonucleoprotein complex subunit, putative
<b>Afu7g02320</b>	-1.48	-1.86	-2.83	hypothetical protein
<b>Afu7g02370</b>	-1.78	-2.67	-1.88	SNF2 family helicase/ATPase (Swr1), putative
<b>Afu7g02390</b>	-1.63	-2.47	-2.08	hypothetical protein
<b>Afu7g02420</b>	-1.3	-2.12	-2.25	malate dehydrogenase, putative
<b>Afu7g02440</b>	-2.15	-3.62	-3.38	extracellular conserved glycine-rich protein
<b>Afu7g02600</b>	-2.62	-3.08	-3.19	hypothetical protein
<b>Afu7g02610</b>	-1.81	-3.7	-1.89	WD repeat protein
<b>Afu7g02620</b>	-3.7	-4.17	-4.24	DNA-directed RNA polymerases N/8 kDa subunit superfamily
<b>Afu7g03650</b>	-1.94	-2.14	-2.19	conserved hypothetical protein
<b>Afu7g03700</b>	-1.89	-1.45	-2.44	diacylglycerol acyltransferase type 2A
<b>Afu7g03770</b>	-3.65	-5.22	-3.43	hypothetical protein
<b>Afu7g03780</b>	-2.27	-3.07	-3.03	YT521-B-like splicing factor, putative
<b>Afu7g03820</b>	-1.9	-2.2	-1.72	DNA excision repair protein (Rad16), putative
<b>Afu7g03830</b>	-2.2	-2.7	-2.22	related to nucleotide excision repair protein RAD7
<b>Afu7g03860</b>	-1.8	-2.21	-2.6	RPB11a protein
<b>Afu7g03910</b>	-1.73	-2.4	-1.71	C2H2 zinc finger protein

<b>Afu7g03930</b>	-1.77	-2.34	-2.31	hypothetical protein
<b>Afu7g03940</b>	-1.13	-2.26	-1.41	alpha,alpha-trehalose phosphate synthase subunit TPS3, putative
<b>Afu7g04000</b>	-1.19	-2.03	-1.43	hypothetical protein
<b>Afu7g04010</b>	-1.37	-2.3	-1.88	conserved hypothetical protein
<b>Afu7g04030</b>	-1.8	-2.7	-3.11	hypothetical protein
<b>Afu7g04100</b>	-1.77	-2.33	-2.34	conserved hypothetical protein
<b>Afu7g04130</b>	-1.47	-2.86	-1.62	Trf5
<b>Afu7g04140</b>	-2.45	-2.79	-2.54	L-galactose dehydrogenase (L-GalDH), putative
<b>Afu7g04150</b>	-2.44	-2.77	-2.17	CGI-136 protein
<b>Afu7g04300</b>	-1.85	-2.56	-3.14	RhoGAP and Fes/CIP4 domain protein
<b>Afu7g04320</b>	-1.9	-2.13	-2.35	UBX domain protein (Ubx5), putative
<b>Afu7g04340</b>	-0.5	-1.12	-2.05	C6 transcription factor, putative
<b>Afu7g04490</b>	-2.06	-2.29	-2.19	Ribosomal protein S28e
<b>Afu7g04640</b>	-2.43	-2.88	-3.18	conserved hypothetical protein
<b>Afu7g04660</b>	-1.92	-2.78	-2.68	BEM46 protein
<b>Afu7g04810</b>	-0.62	-2.06		hypothetical protein
<b>Afu7g04860</b>	-1.95	-2.61	-2.71	dimethyladenosine transferase
<b>Afu7g04930</b>	-4.4	-5.37	-4.34	alkaline serine protease (PR1), putative
<b>Afu7g04950</b>	-2.02	-2.81	-2.63	lipase, putative
<b>Afu7g05020</b>	-1.94	-2.89	-2.46	polysaccharide export protein (CAP59), putative
<b>Afu7g05050</b>	-2.14	-3.27	-3.01	hypothetical protein
<b>Afu7g05180</b>	-2.4	-4.44	-2.07	defensin domain protein, putative
<b>Afu7g05210</b>	-1.42	-2.32	-2.58	CTP synthase
<b>Afu7g05330</b>	-1.61	-1.86	-2.15	hypothetical protein
<b>Afu7g05380</b>	-0.86	-1.5	-2.27	conserved hypothetical protein
<b>Afu7g05430</b>	-2.73	-3.94	-4.24	nonsense-mediated mRNA decay factor (Upf2), putative
<b>Afu7g05460</b>	-1.66	-2.07	-1.51	conserved hypothetical protein
<b>Afu7g05490</b>	-3.95	-5.16	-2.76	hypothetical protein
<b>Afu7g05500</b>	-4.01	-4.8	-3.78	theta class glutathione S-transferase
<b>Afu7g05520</b>	-2.15	-2.42	-1.18	hypothetical protein
<b>Afu7g05760</b>	-0.59	-2.28	-0.74	hypothetical protein
<b>Afu7g05810</b>	-0.55	-1.49	-2.04	29kD B ribonucleoprotein, putative
<b>Afu7g05860</b>	-2.16	-2.54	-3.2	Zinc finger, C3HC4 type (RING finger) domain protein
<b>Afu7g05920</b>	-1.24	-2.3	-1.05	stearic acid desaturase (SdeA), putative
<b>Afu7g05980</b>	-2.67	-2.55	-2.83	small nuclear ribonucleoprotein SmE, putative

<b>Afu7g06240</b>	-2.34	-2.78	-1.59	hypothetical protein
<b>Afu7g06260</b>	-3.81	-3.22	-3.02	alcohol dehydrogenase, zinc-containing
<b>Afu7g06270</b>	-2.36	-1.64	-1.74	cyanamide hydratase
<b>Afu7g06300</b>	-0.49	-1.55	-2.07	hypothetical protein
<b>Afu7g06310</b>	-0.37	-2.23	-1	hypothetical protein
<b>Afu7g06440</b>	-0.7	-2.06	-1.15	F-box domain protein
<b>Afu7g06840</b>	-4.43	-5.85	-4.75	class III aminotransferase
<b>Afu7g06870</b>	-2.58	-4.25	-4.26	Tf1-like reverse transcriptase, integrase, putative
<b>Afu7g06880</b>	-0.94	-2.23	-1.28	hypothetical protein
<b>Afu7g06890</b>	-3.88	-4.72	-3.51	Dyp-type peroxidase family protein
<b>Afu7g06900</b>	-2.15	-3.06	-3.33	branched-chain amino acid aminotransferase, putative
<b>Afu7g07010</b>	-2.36	-1.28	-0.84	hypothetical protein
<b>Afu7g07150</b>	-1.38	-3.48	-2.67	NA
<b>Afu7g07160</b>	-1.01	-2.21	-1.24	NA
<b>Afu7g08220</b>	-2.2	-2.98	-2.53	hypothetical protein
<b>Afu7g08260</b>	-1.83	-3.27	-1.4	hypothetical protein
<b>Afu7g08280</b>	-3.09	-1.68	-1.4	hypothetical protein
<b>Afu7g08390</b>	-0.81	-2.19	-1.3	hypothetical protein
<b>Afu7g08410</b>	-2.55	-2.93	-2.34	Tc1-mariner transposase, putative
<b>Afu7g08470</b>	-1.15	-1.53	-2.26	peroxisomal copper amine oxidase, putative
<b>Afu7g08500</b>	-0.52	-2.93	-1.04	NACHT and WD40 domain protein
<b>Afu7g08540</b>	-1.34	-2.48	-2.25	ankyrin repeat protein
<b>Afu8g00310</b>	-1.48	-4.15	-2.58	LINE-1 class reverse transcriptase, RNaseH, putative
<b>Afu8g00330</b>	-1.59	-3.69	-2.17	endonuclease/reverse transcriptase/RNaseH, putative
<b>Afu8g00460</b>	-1.87	-2.35	-2.3	methionine aminopeptidase, type I, putative
<b>Afu8g00520</b>	-1.12	-2.18		integral membrane protein
<b>Afu8g00620</b>	-0.63	-2.17		dimethylallyl tryptophan synthase, putative
<b>Afu8g00970</b>	-1.79	-2.53	-2.69	hypothetical protein
<b>Afu8g01040</b>	-2.05	-4.85	-2.7	reverse transcriptase, RNaseH
<b>Afu8g01260</b>	-2.51	-2.58	-2.84	hypothetical protein
<b>Afu8g01330</b>	-2.89	-5.1	-3.44	hypothetical protein
<b>Afu8g01340</b>	-3.43	-3.9	-4.13	MFS sugar transporter, putative
<b>Afu8g01480</b>	-2.62	-2.76	-2.41	potassium channel, putative
<b>Afu8g01520</b>	-1.02	-2.75	-2.23	Pectinesterase family
<b>Afu8g01530</b>	-1.88	-3.81	-3.19	HHE domain protein
<b>Afu8g01570</b>	-2.22	-2.43	-2.17	ADP-ribosylglycohydrolase family protein
<b>Afu8g01610</b>	-1.17	-2.03	-1.78	hypothetical protein
<b>Afu8g01820</b>	-1.42	-2.24	-1.53	hypothetical protein

<b>Afu8g01890</b>	-1.35	-2.49	-1.86	Na <sup>+</sup> /H <sup>+</sup> exchanger family protein, putative
<b>Afu8g02170</b>	-1.83	-2.81	-2.29	C6 finger domain protein, putative
<b>Afu8g02190</b>	-1.45	-2.79	-2.35	hypothetical protein
<b>Afu8g02260</b>	-3.39	-4.4	-3	neutral amino acid permease
<b>Afu8g02270</b>	-3.94	-4.84	-4.01	dihydrodipicolinate synthetase family protein
<b>Afu8g02280</b>	-3.13	-3.05	-2.12	C6 transcription factor, putative
<b>Afu8g02290</b>	-4.13	-5.48	-4.08	conserved hypothetical protein
<b>Afu8g02310</b>	-2.51	-2.41	-2.37	aldehyde dehydrogenase ALDH
<b>Afu8g02650</b>	-1.88	-2.99	-2.99	ABC multidrug transporter, putative
<b>Afu8g02690</b>	-2.62	-3.1	-3.52	alphaN-acetylglucosamine transferase
<b>Afu8g02720</b>	-2.87	-3.27	-2.17	Hex2 protein
<b>Afu8g02740</b>	-2.13	-1.6	-2.25	hypothetical protein
<b>Afu8g02750</b>	-2.24	-1.63	-0.95	nucleolar protein CgrA
<b>Afu8g02810</b>	-3	-3.75	-3.73	conserved hypothetical protein
<b>Afu8g02830</b>	-2.28	-2.13	-2.21	UPD-GlcNAc transporter (Mnn2-2), putative
<b>Afu8g02860</b>	-1.59	-2	-1.94	amp deaminase
<b>Afu8g03930</b>	-1.77	-3.5	-2.82	Hsp70 chaperone (HscA), putative
<b>Afu8g03950</b>	-1.91	-2.34	-2.55	hypothetical protein
<b>Afu8g03980</b>	-1.51	-1.61	-2.63	DUF59 domain protein
<b>Afu8g04040</b>	-0.63	-1.27	-2.07	CPSF A subunit, putative
<b>Afu8g04060</b>	-0.85	-1.18	-2.05	NA
<b>Afu8g04070</b>	-2.01	-2.54	-3.09	glucosamine-6-phosphate deaminase, putative
<b>Afu8g04130</b>	-1.7	-4.54	-2.31	C6 transcription factor (Ctf1B), putative
<b>Afu8g04150</b>	-2.44	-3.72	-3.21	MFS transporter, putative
<b>Afu8g04160</b>	-2.18	-2.63	-2.73	folylpolyglutamate synthetase; FPGS
<b>Afu8g04180</b>	-1.49	-2.2	-2.82	C2H2 zinc finger protein
<b>Afu8g04290</b>	-1.82	-3.68	-2.13	C2H2 finger domain protein, putative
<b>Afu8g04470</b>	-2.06	-2.36	-1	MFS transporter, putative
<b>Afu8g04490</b>	-2.29	-3.38	-3.14	hypothetical protein
<b>Afu8g04550</b>	-3.07	-4.29	-4	sulfonate biosynthesis enzyme, putative
<b>Afu8g04560</b>	-2.24	-1.75	-2.63	integral membrane protein
<b>Afu8g04570</b>	-1.72	-2.62	-3.13	PWWP domain protein
<b>Afu8g04690</b>	-1.63	-2.45	-2.02	hol1 protein
<b>Afu8g04780</b>	-2.94	-3.83	-3.97	24 kDa intrinsic membrane protein
<b>Afu8g04810</b>	-1.36	-2.36	-3.09	casein kinase, putative
<b>Afu8g04820</b>	-1.84	-2.83	-3.48	ribonuclease P complex subunit p30, putative
<b>Afu8g04920</b>	-0.66	-2.19	-2.14	LEA domain protein
<b>Afu8g04980</b>	-1.86	-2.9	-3	hypothetical protein

<b>Afu8g05050</b>	-1.25	-2.47	-1.18	hypothetical protein
<b>Afu8g05100</b>	-1.8	-2.37	-2.64	hypothetical protein
<b>Afu8g05120</b>	-4.41	-5.51	-4.77	hypothetical protein
<b>Afu8g05130</b>	-2.59	-3.16	-1.72	hypothetical protein
<b>Afu8g05160</b>	-1.67	-2.31	-2.45	peroxisomal membrane protein (Pex13), putative
<b>Afu8g05170</b>	-1.94	-2.5	-1.75	autophagy protein Apg6, putative
<b>Afu8g05270</b>	-2.25	-2.45	-2.38	C6 transcription factor, putative
<b>Afu8g05360</b>	-2.45	-2.71	-2.38	conserved hypothetical protein
<b>Afu8g05400</b>	-1.33	-2.41	-1.98	hypothetical protein
<b>Afu8g05430</b>	-1.01	-2.43	-2.24	hypothetical protein
<b>Afu8g05470</b>	-0.61	-2.28	-1.44	hypothetical protein
<b>Afu8g05480</b>	-2.35	-2.96	-3.07	CCCH zinc finger protein
<b>Afu8g05490</b>	-1.75	-1.99	-2.33	transcription initiation factor iif, beta subunit
<b>Afu8g05770</b>	-2.95	-3.69	-3.07	hypothetical protein
<b>Afu8g05780</b>	-2.63	-3.43	-4.6	NACHT and Ankyrin domain protein
<b>Afu8g05900</b>	-1.35	-1.52	-2.19	hypothetical protein
<b>Afu8g06040</b>	-3.75	-5.08	-3.52	hypothetical protein
<b>Afu8g06080</b>	-2.71	-4.65	-2.86	flavohepotein, putative
<b>Afu8g06290</b>	-1.59	-4.36	-1.99	LINE-1 class reverse transcriptase, RNaseH, putative
<b>Afu8g07150</b>	-1.79	-2.99	-1.13	arsenic resistance protein ArsH, putative
<b>Afu8g07210</b>	-2.26	-3.27	-2.69	hydroxymethylglutaryl-CoA synthase

**Table AD.1.5: List of down-regulated genes in the ATCC46645 time course.** Genes significantly down-regulated were included if showing a fold change of -2 on a log<sub>2</sub> scale at least in one of the time point datasets. T0 vs T4 = 4 hrs, T0 vs T8 hrs = 8 hrs, T0 vs T16 = 16 hrs.

ORFs	T4 vs T0	T8 vs T0	T16 vs T0	Description	Annotation
Afu7g08280	-3.09	-1.68	-1.4	hypothetical protein	
Afu1g14800	-2.74	-0.86	0.13	hypothetical protein	
Afu2g12630	-2.71	0.24	-1.18	allergen Asp F13	
Afu2g04210	-2.67	-1.37	-1.55	conserved hypothetical protein	
Afu2g01120	-2.53	-1.9	-1.67	DNA repair protein, putative	DNA-(apurinic or apyrimidinic site) lyase activity///DNA repair///base-excision repair///nucleus///mitochondrion///oxidized pyrimidine base lesion DNA N-glycosylase activity///oxidized purine base lesion DNA N-glycosylase activity///"base-excision repair, AP site formation"

Afu1g02200	-2.51	-1.95		F-box domain protein	
Afu1g03380	-2.43	-1.3	-1.6	UDP-N-acetylglucosaminyltransferase	
Afu7g06270	-2.36	-1.64	-1.74	cyanamide hydratase	cellular component unknown//molecular function unknown
Afu7g07010	-2.36	-1.28	-0.84	hypothetical protein	
Afu6g02840	-2.32	-1.6	-1.7	serine/threonine protein kinase, putative	protein serine/threonine kinase activity//cell cycle//cytoplasm//protein amino acid phosphorylation
Afu2g17520	-2.3	-0.73	-0.34	GNAT family N-acetyltransferase, putative	N-acetyltransferase activity//secondary metabolic process//metabolic process
Afu5g13620	-2.29	-1.39	-1.17	ubiquitin C-terminal hydrolase, putative	protein deubiquitination//cytoplasm//ubiquitin-specific protease activity
Afu6g08270	-2.27	-1.83	-1.82	hypothetical protein	
Afu5g00770	-2.24	-0.6	-1.53	integral membrane protein, putative	
Afu5g07590	-2.24	-1.62	-1.01	hypothetical protein	
Afu8g02750	-2.24	-1.63	-0.95	nucleolar protein CgrA	ribosome biogenesis//nucleolus//pathogenesis//growth or development of symbiont in host
Afu1g15530	-2.21	-1.28	-1.83	lactam utilization protein LamB, putative	
Afu3g08580	-2.19	-1.94	-1.55	glycine-rich RNA-binding protein, putative	ribosomal small subunit assembly//single-stranded DNA binding//nucleolus//rRNA processing//nucleus//RNA binding
Afu1g10960	-2.18	-1.7	-1.9	Mago nashi domain protein	
Afu3g14340	-2.16	-1.15	-1.1	mitotic spindle checkpoint protein (Mad2), putative	nuclear pore//mitotic cell cycle spindle assembly checkpoint//molecular function unknown//condensed nuclear chromosome kinetochore
Afu6g00680	-2.15	-0.04	-1.36	hypothetical protein	
Afu4g07030	-2.15	-1.26	-1.87	hypothetical protein	
Afu2g10540	-2.11	-1.91	-1.28	hypothetical protein	
Afu5g12830	-2.11	-1.72	-1.58	lipoprotein, putative	
Afu6g14270	-2.08	-1.5	-1.12	hypothetical protein	
Afu4g13380	-2.08	-1.71	-1.66	conserved hypothetical protein	
Afu1g17440	-2.06	-1.44		ABC drug exporter AbcA	response to drug//xenobiotic-transporting ATPase activity//ABC-type efflux porter activity//multidrug transport//plasma membrane
Afu4g05920	-2.06	-1.85	-1.84	mitochondrial protein sorting (Msf1), putative	mitochondrion//biological process unknown//molecular function unknown
Afu3g122	-2.05	-1.6	-1.9	hypothetical protein	

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Afu2g156 90	-2.05	-1.92	-1.75	conserved hypothetical protein	

**Table AD.1.6: 30 ORFs with the lowest log<sub>2</sub> values between the down-regulated genes unique to the 4 hrs time point of the ATCC46645 time course.**

ORFs	T4 vs T0	T8 vs T0	T16 vs T0	Description	Annotation
Afu8g06290	-1.59	-4.36	-1.99	LINE-1 class reverse transcriptase, RNaseH, putative	
Afu4g00820	-1.39	-4.12	-1.98	reverse transcriptase, RNaseH	
Afu3g09410	-1.05	-3.74	-1.86	reverse transcriptase	
Afu7g02610	-1.81	-3.7	-1.89	WD repeat protein	
Afu6g09570	-1.6	-3.45	-1.07	conserved hypothetical protein	
Afu5g01640	-1.81	-3.37	-1.46	ankyrin repeat protein	
Afu3g10100	-1.18	-3.34	-1.89	Sfrs4 protein	mRNA export from nucleus//cytoplasm//nucleus//mRNA binding
Afu7g08260	-1.83	-3.27	-1.4	hypothetical protein	
Afu3g06230	-1.99	-3.23	-1.67	hypothetical protein	
Afu5g12090	-1.89	-3.11	-1.86	conserved hypothetical protein	cellular component unknown//biological process unknown//molecular function unknown
Afu3g01030	-1.89	-3		RTA1 domain protein, putative	biological process unknown//molecular function unknown//integral to membrane
Afu8g07150	-1.79	-2.99	-1.13	arsenic resistance protein ArsH, putative	FMN reductase activity//electron transport
Afu1g16430	-1.42	-2.95	-1.81	hypothetical protein	
Afu4g14370	-0.65	-2.93	-0.21	LINE-1 class reverse transcriptase, RNase H, putative	
Afu5g01510	-1.41	-2.93	-1.43	amino acid transporter	plasma membrane//neutral amino acid transmembrane transporter activity//neutral amino acid transport//amino acid permease activity
Afu7g08500	-0.52	-2.93	-1.04	NACHT and WD40 domain protein	GTP binding//programmed cell death
Afu2g08680	-1.68	-2.9	-1.46	hypothetical protein	
Afu7g04130	-1.47	-2.86	-1.62	Trf5	DNA-directed DNA polymerase activity//sister chromatid cohesion//nucleus
Afu6g02430	-1.11	-2.83	-1.83	hypothetical protein	
Afu3g03070	-1.52	-2.82		MYND domain protein, putative	chromatin modification//regulation of transcription, DNA- dependent//zinc ion binding
Afu5g10210	-1.95	-2.79	-1.83	hypothetical protein	
Afu4g08860	-1.19	-2.79	-1.56	hypothetical protein	
Afu2g05980	-1.85	-2.77		conserved hypothetical protein	cellular component unknown//biological process unknown//molecular function unknown

Afu6g11250	-1.77	-2.75	-1.77	C2H2 finger domain protein, putative	
Afu4g08890	-0.36	-2.75	-1.12	aldo-keto reductase family protein, putative	cellular component unknown//aldo-keto reductase activity//cellular aldehyde metabolic process
Afu5g12280	-1.76	-2.69		hypothetical protein	
Afu1g15720	-1.11	-2.68	-1.83	importin beta-1 subunit	nuclear pore//protein import into nucleus//cytoplasm//protein transmembrane transporter activity
Afu2g09460	-1.95	-2.68		potassium transporter	

**Table AD.1.7: 30 ORFs with the lowest log<sub>2</sub> values between the down-regulated genes unique to the 8 hrs time point of the ATCC46645 time course.**

ORFs	T4 vs T0	T8 vs T0	T16 vs T0	Description	Annotation
Afu2g01110	-1.11	-1.35	-3.34	hypothetical protein	
Afu5g11500	-0.96	-1.4	-3.13	conserved hypothetical protein	
Afu3g13770	-1.96	-1.92	-2.98	vacuolar segregation protein (Pep7), putative	Golgi to vacuole transport//cytoplasm//extrinsic to plasma membrane//vesicle fusion//vesicle docking during exocytosis//external side of endosome membrane//zinc ion binding
Afu6g10050	-1.79	-1.42	-2.95	small oligopeptide transporter, OPT family	sulfur metabolic process//oligopeptide transporter activity//integral to plasma membrane//endoplasmic reticulum
Afu1g02410	-1.56	-1.94	-2.88	AAA family ATPase Reptin, putative	chromatin remodeling complex//snoRNA metabolic process//regulation of transcription from RNA polymerase II promoter//nucleus//ATPase activity//35S primary transcript processing
Afu7g02320	-1.48	-1.86	-2.83	hypothetical protein	
Afu2g11740	-1.17	-1.7	-2.82	LON domain serine protease, putative	proteolysis//response to heat//ATP-dependent peptidase activity//mitochondrial matrix
Afu2g16090	-1.78	-1.85	-2.76	karyopherin alpha subunit, putative	nucleocytoplasmic transport//cytoplasm//nucleus//protein transmembrane transporter activity
Afu1g04500	-1.55	-1.86	-2.76	hypothetical protein	
Afu1g08790	-1.57	-1.5	-2.76	exportin KapK	mRNA export from nucleus//protein export from nucleus//nucleus//ribosomal large subunit export from nucleus//protein transmembrane transporter activity
Afu2g15660	-1.12	-1.56	-2.69	aldehyde dehydrogenase family protein, putative	cytoplasm//3-chloroallyl aldehyde dehydrogenase activity

Afu2g02 600	-1.5	-1.84	-2.68	hypothetical protein	
Afu8g03 980	-1.51	-1.61	-2.63	DUF59 domain protein	cytoplasm///transcription
Afu5g02 530	-0.9	-1.53	-2.63	ribokinase	ribokinase activity///cytoplasm///nucleus///ATP binding///D-ribose metabolic process
Afu2g04 250	-1.12	-1.01	-2.62	C6 finger domain protein, putative	
Afu1g09 950	-1.49	-1.91	-2.6	casein kinase II beta subunit CKB2	establishment of cell polarity (sensu Saccharomyces)///flocculation///protein kinase CK2 activity///G1/S transition of mitotic cell cycle///regulation of transcription from RNA polymerase I promoter///regulation of transcription from RNA polymerase III promoter///protein amino acid phosphorylation///response to DNA damage stimulus///protein kinase CK2 complex///G2/M transition of mitotic cell cycle///cellular ion homeostasis
Afu1g05 460	-1.91	-1.79	-2.6	hypothetical protein	
Afu2g08 620	-1.58	-1.87	-2.56	20S cyclosome subunit (BimA/Nuc2/Cdc27), putative	ubiquitin-dependent protein catabolic process///ubiquitin-protein ligase activity///regulation of progression through cell cycle///spindle pole body///anaphase-promoting complex///mitotic metaphase/anaphase transition///protein binding///cyclin catabolic process///mitotic sister chromatid segregation///mitotic spindle elongation///regulation of exit from mitosis
Afu6g10 940	-1.65	-1.94	-2.56	conserved hypothetical protein	
Afu4g13 010	-1.76	-1.9	-2.53	conserved hypothetical protein	cytoplasm///biological process unknown///molecular function unknown
Afu4g13 550	-1.87	-1.62	-2.53	short chain dehydrogenase/reductase family	sporulation (sensu Saccharomyces)///fatty acid catabolic process///peroxisomal matrix///"2,4-dienoyl-CoA reductase (NADPH) activity"
Afu5g11 970	-1.85	-1.81	-2.51	protein kinase c, putative	actin filament organization///cell wall organization///protein kinase cascade///protein amino acid phosphorylation///signal transduction///protein kinase C activity
Afu3g11 390	-1.23	-1.58	-2.48	proteasome regulatory particle subunit Rpt3, putative	ubiquitin-dependent protein catabolic process///endopeptidase activity///ATPase activity///proteasome regulatory

					particle//'"proteasome regulatory particle, base subcomplex"
Afu5g02 480	-1.43	-1.94	-2.46	glycogen synthase	cytoplasm//glycogen metabolic process//glycogen (starch) synthase activity
Afu1g02 770	-1.61	-1.1	-2.45	hypothetical protein	
Afu3g10 110	-1.53	-1.88	-2.44	electron transfer flavoprotein-ubiquinone oxidoreductase	NADH catabolism//'"oxidoreductase activity, acting on the CH-NH group of donors, quinone or similar compound as acceptor'"//mitochondrion
Afu7g03 700	-1.89	-1.45	-2.44	diacylglycerol acyltransferase type 2A	lipid particle//lipid storage//triglyceride biosynthetic process//diacylglycerol O-acyltransferase activity
Afu3g12 380	-1.15	-1.98	-2.43	hypothetical protein	
Afu2g06 280	-1.58	-1.87	-2.41	oligosaccharyl transferase subunit (gamma), putative	oligosaccharyltransferase complex//dolichyl-diphosphooligosaccharide-protein glycotransferase activity//protein amino acid N-linked glycosylation//protein amino acid glycosylation//protein complex assembly//integral to membrane

**Table AD.1.8: 30 ORFs with the lowest log<sub>2</sub> values between the down-regulated genes unique to the 16 hrs time point of the ATCC46645 time course.**

### **AD.2 *A. fumigatus* ATCC46645 $\Delta pacC$ mutant transcript profile during initiation of murine infection**

Locus	T0 vs T4	T0 vs T8	T0 vs T16	Common Name
<b>Afu1g00420</b>	0.1	1.88	2.38	carboxypeptidase S1, putative
<b>Afu1g00460</b>	1.98	2.09	2.37	choline oxidase, putative
<b>Afu1g01050</b>	2.5	0.76	0.56	conserved hypothetical protein
<b>Afu1g01190</b>	3.38	1.72	2.57	hypothetical protein
<b>Afu1g01220</b>	2.36	1.84	2.81	conserved hypothetical protein
<b>Afu1g01300</b>	-2.06	0.56	3.21	GPI anchored protein, putative
<b>Afu1g01310</b>	-1.35	0.57	2.84	carboxylesterase, putative
<b>Afu1g01360</b>	0.69	1.08	2.02	conserved hypothetical protein
<b>Afu1g01430</b>	2.35	2.18	2.59	hypothetical protein
<b>Afu1g01450</b>	1.78	2.66	3.79	toxin biosynthesis protein, putative
<b>Afu1g01530</b>	-0.6	1.95	2.03	GrpB domain protein

<b>Afu1g01540</b>	1.48	3.52	4.32	Endonuclease/Exonuclease/phosphatase family family
<b>Afu1g01550</b>	-0.88	1.05	2.06	high affinity zinc ion transporter, putative
<b>Afu1g01610</b>	1.02	0.88	2.08	hypothetical protein
<b>Afu1g01730</b>	2.27	1.47	2.33	glycosyl hydrolase, putative
<b>Afu1g01740</b>	3.16	2	2.48	t-complex protein 1, beta subunit, putative
<b>Afu1g01800</b>	2.22	2.28	2.5	MFS transporter, putative
<b>Afu1g02070</b>	2.58	2.46	2.43	cytochrome c1, heme protein precursor
<b>Afu1g02370</b>	2	1.11	1.04	fumarylacetoacetate hydrolase family protein
<b>Afu1g02480</b>	1.55	1.73	2.02	plasma membrane ATPase, putative
<b>Afu1g02550</b>	3.85	3.76	3.39	tubulin alpha-1 subunit
<b>Afu1g02570</b>	2.16	1.42	1.71	aspartyl-tRNA synthetase, cytoplasmic
<b>Afu1g02580</b>	2.15	1.23	1.22	lipase, putative
<b>Afu1g02730</b>	2.44	1.8	1.98	mitochondrial phosphate carrier protein (Ptp), putative
<b>Afu1g02780</b>	2.62	0.23	-0.33	L-asparaginase
<b>Afu1g02820</b>	3.15	2.06	1.82	Y20 protein
<b>Afu1g02880</b>	3.8	2.84	3.5	Phosphotransferase enzyme family domain protein
<b>Afu1g02890</b>	1.8	3.63	3.03	dUTPase (Dut), putative
<b>Afu1g02900</b>	2.42	2.16	2.65	pyridoxal kinase, putative
<b>Afu1g02910</b>	2.97	3.92	3.85	hypothetical protein
<b>Afu1g02930</b>	1.36	3.01	2.63	Ca <sup>2+</sup> binding protein (calmodulin), putative
<b>Afu1g03060</b>	2.56	2.59	3.23	F-actin capping protein beta subunit
<b>Afu1g03120</b>	1.46	2.29	2.22	hypothetical protein
<b>Afu1g03440</b>	2.66	1.3	1.45	peroxisomal carrier protein, putative
<b>Afu1g03510</b>	2.52	1.73	1.52	ATP synthase gamma chain, mitochondrial precursor, putative
<b>Afu1g03530</b>	0.65	2.08	2.13	glucose transporter, putative
<b>Afu1g03550</b>	3.52	2.75	2.52	mitochondrial dihydroxy acid dehydratase, putative
<b>Afu1g03560</b>	2.29	1.48	2.04	peroxisomal protein car1
<b>Afu1g03570</b>	4.61	5.22	5.61	acid phosphatase PHOa
<b>Afu1g03610</b>	2.39	2.54	1.78	hypothetical protein
<b>Afu1g03620</b>	2.69	1.58	1.45	vanillin dehydrogenase, putative
<b>Afu1g03630</b>	3.6	5.62	5.83	GPI anchored serine-threonine rich protein
<b>Afu1g03660</b>	2.89	2.07	2.3	acid phosphatase, putative
<b>Afu1g03740</b>	2.2	2.1	1.98	prostate-specific membrane antigen
<b>Afu1g03800</b>	2.18	1.14	1.01	C6 transcription factor, putative
<b>Afu1g03890</b>	1.04	1.11	2.31	alpha/beta hydrolase, putative
<b>Afu1g03910</b>	2.89	0.98	0.68	hypothetical protein
<b>Afu1g03920</b>	2.99	1.05	0.97	DNA replication licensing factor Mcm3, putative
<b>Afu1g03950</b>	2.06	0.92	0.94	cytochrome P450 sterol C-22 desaturase, putative

<b>Afu1g04080</b>	2.12	1.02	0.97	GARP complex subunit (Sac2), putative
<b>Afu1g04130</b>	1.62	2.31	2.71	FG-GAP repeat protein, putative
<b>Afu1g04300</b>	2.09	2.56	3.22	hypothetical protein
<b>Afu1g04430</b>	1.96	2.67	4.36	conserved hypothetical protein
<b>Afu1g04460</b>	2.13	1.35	2.16	lysyl-tRNA synthetase, putative
<b>Afu1g04510</b>	2.87	1.08	0.62	hypothetical protein
<b>Afu1g04520</b>	2.82	0.89	0.49	Hypothetical protein
<b>Afu1g04540</b>	2.19	1.69	0.99	NADH-cytochrome b5 reductase precursor
<b>Afu1g04620</b>	2.39	2.7	2.75	alcohol dehydrogenase, zinc-containing, putative
<b>Afu1g04890</b>	2.78	2.39	1.78	translocon subunit
<b>Afu1g05080</b>	2.84	1.28	1.27	ribosomal protein P0
<b>Afu1g05100</b>	1.74	2.06	1.88	GARP complex subunit Vps53, putative
<b>Afu1g05170</b>	0.64	0.27	2.11	related to monocarboxylate transporter
<b>Afu1g05280</b>	2.51	2.58	3.15	conserved hypothetical protein
<b>Afu1g05320</b>	1.56	2.16	1.94	disulfide isomerase, putative
<b>Afu1g05520</b>	3.2	3.58	3.95	mandelate racemase/muconate lactonizing enzyme family protein
<b>Afu1g05580</b>	2.29	2.29	2.42	glycogenin
<b>Afu1g05630</b>	3.06	2.74	2.88	40s ribosomal protein s3
<b>Afu1g05640</b>	2.67	1.07	0.99	protein phosphatase
<b>Afu1g05670</b>	2.26	1.82		conserved hypothetical protein
<b>Afu1g05720</b>	2.53	0.79	0.79	c-14 sterol reductase
<b>Afu1g05790</b>	2.63	4.79	5.28	GPI anchored serine-rich protein
<b>Afu1g05870</b>	2.34	2.57	3.52	scs3 protein
<b>Afu1g05930</b>	1.8	1.61	2.21	serine/threonine protein kinase, putative
<b>Afu1g05940</b>	1.48	3.22	4.11	conserved hypothetical protein
<b>Afu1g05960</b>	1.61	2.56	2.93	Peptidase family M28 family
<b>Afu1g05980</b>	1.27	1.33	2.14	AMP-binding domain protein, putative
<b>Afu1g06200</b>	2.31	1.8	2.36	Mn <sup>2+</sup> homeostasis protein (Per1), putative
<b>Afu1g06210</b>	2.8	2.05	1.94	N-acetylglucosamine-phosphate mutase
<b>Afu1g06240</b>	2.77	3.01	3.47	riboflavin synthase, alpha subunit
<b>Afu1g06250</b>	3.38	2.48	2.74	CAIB/BAIF family enzyme
<b>Afu1g06530</b>	2.64	1.83	2.12	mitochondrial carrier protein (Ymc1), putative
<b>Afu1g06680</b>	1.22	2.01	1.56	VHS domain protein
<b>Afu1g06710</b>	2.64	1.01	1.07	t-complex protein 1, eta subunit, putative
<b>Afu1g06940</b>	2.68	2.5	2.46	chorismate synthase
<b>Afu1g06960</b>	3.02	1.46	1.28	pyruvate dehydrogenase complex alpha subunit, putative
<b>Afu1g07080</b>	2.04	0.83	1	tRNA-specific adenosine-34 deaminase subunit Tad3, putative
<b>Afu1g07110</b>	2.14	1.75	1.99	related to export control protein CHS7

<b>Afu1g07130</b>	4.02	3.55	3.53	dienelactone hydrolase family protein
<b>Afu1g07140</b>	2.3	0.41	0.31	c-24(28) sterol reductase
<b>Afu1g07200</b>	2.45	2.77	2.46	mitochondrial cytochrome b2, putative
<b>Afu1g07330</b>	2.97	1.56	2.07	dihydroxy-acid dehydratase, putative
<b>Afu1g07340</b>	1.76	1.14	2	cytochrome P450, putative
<b>Afu1g07380</b>	2.94	2.1	2.21	NADH-dependent glutamate synthase (GLT1), putative
<b>Afu1g07400</b>	1.78	1.82	2.01	hypothetical protein
<b>Afu1g07430</b>	0.44	2.13	2.05	hypothetical protein
<b>Afu1g07480</b>	2.55	1.52	1.08	coproporphyrinogen III oxidase, putative
<b>Afu1g07520</b>	2.85	2.86	2.54	dimeric dihydrodiol dehydrogenase, putative
<b>Afu1g07560</b>	1.86	1.45	2.44	MYB DNA-binding domain protein
<b>Afu1g07700</b>	1.38	1.72	2.15	MFS monosaccharide transporter, putative
<b>Afu1g08810</b>	2.23	0.6	0.28	glycerol-3-phosphate dehydrogenase, mitochondrial
<b>Afu1g08840</b>	1.58	2.38	1.84	guanylate kinase
<b>Afu1g08850</b>	2.92	3.25	1.46	septin
<b>Afu1g08880</b>	0.88	2.27	2.06	heavy metal ion transporter, putative
<b>Afu1g08950</b>	1.96	2.06	1.86	DUF431 domain protein
<b>Afu1g09010</b>	2.43	2.37	1.73	methionyl-tRNA synthetase
<b>Afu1g09480</b>	1.49	2.37	1.68	vacuolar protein sorting 29, putative
<b>Afu1g09510</b>	1.63	2.69	3.24	GPI anchored serine-threonine rich protein
<b>Afu1g09690</b>	0.61	1.87	2.37	tRNA ligase
<b>Afu1g09760</b>	2.19	1.99	1.46	UPF0171 domain protein
<b>Afu1g09810</b>	1.9	3.59	3.8	PUA RNA binding domain protein, putative
<b>Afu1g09820</b>	2.1	1.46	1.51	DUF1339 domain protein
<b>Afu1g09830</b>	2.66	2.11	1.9	Hsc70 cochaperone (SGT), putative
<b>Afu1g09910</b>	2.99	2.3	2.32	glucose transporter, putative
<b>Afu1g09960</b>	1.91	1.85	2.14	conserved hypothetical protein
<b>Afu1g10020</b>	3.65	4.68	3.93	reverse transcriptase, RNaseH
<b>Afu1g10030</b>	0.95	2.26	2.62	hypothetical protein
<b>Afu1g10100</b>	1.48	2.45	2.23	3-oxoacyl-(acyl-carrier-protein) reductase
<b>Afu1g10350</b>	2.57	2.22	1.14	phosphoglycerate kinase PgkA, putative
<b>Afu1g10400</b>	2.34	1.67	1.31	hypothetical protein
<b>Afu1g10520</b>	1.97	1.91	2.43	hypothetical protein
<b>Afu1g10530</b>	2.36			hypothetical protein
<b>Afu1g10570</b>	2.25	2.58	3.23	glycerol-3-phosphate phosphatase (GppA), putative
<b>Afu1g10590</b>	-0.37	0.85	2.22	GPI anchored protein, putative
<b>Afu1g10780</b>	2.98	4.08	3.99	glycine cleavage system T protein
<b>Afu1g10790</b>	2.07	2.22	2.4	alpha-1,2-mannosidase family protein, putative

<b>Afu1g10800</b>	2.49	3.26	3.25	thioesterase family protein
<b>Afu1g10820</b>	0.84	1.98	2.14	adenylsulfate kinase
<b>Afu1g10900</b>	2.25	2.44	2.87	conserved hypothetical protein
<b>Afu1g10910</b>	4.09	3.87	3.92	tubulin beta, putative
<b>Afu1g10930</b>	5.28	3.26	2.04	ammonium transporter
<b>Afu1g11010</b>	2.22	1.95	3.12	oxidoreductase, short chain dehydrogenase/reductase family superfamily
<b>Afu1g11040</b>			2.01	hypothetical protein
<b>Afu1g11250</b>	4.5	3.8	4.37	amidohydrolase, putative
<b>Afu1g11450</b>	2.66	1.95	2.9	myosin class II heavy chain (MHC), putative
<b>Afu1g11480</b>	4.02	5.08	4.81	hypothetical protein
<b>Afu1g11530</b>	3.29	3.27	3.81	2,4-dihydroxyhept-2-ene-1,7-dioic acid aldolase
<b>Afu1g11540</b>	1.35	1.73	2.05	CORD and CS domain protein
<b>Afu1g11550</b>	3.51	2.08	1.98	ethanolamine kinase, putative
<b>Afu1g11810</b>	2.24	1.8	2.38	hypothetical protein
<b>Afu1g11820</b>	1.44	1.91	2.58	MFS transporter, putative
<b>Afu1g11830</b>	3.27	3.25	2.86	MFS quinate transporter (QutD), putative
<b>Afu1g11890</b>	2.16	0.37	0.17	serine palmitoyltransferase 2, putative
<b>Afu1g12050</b>	1.56	2.5	3.3	acetyltransferase, GNAT family family
<b>Afu1g12070</b>	1.78	1.67	2.39	glycine cleavage system H protein
<b>Afu1g12100</b>	2.62	1.45	1.64	hypothetical protein
<b>Afu1g12190</b>	1.67	2.33	2.31	conserved hypothetical protein
<b>Afu1g12240</b>	2.86	4.72	4.79	MFS peptide transporter, putative
<b>Afu1g12290</b>	2.18	3.7	3.13	possible NADH-ubiquinone oxidoreductase
<b>Afu1g12310</b>	2.5	2.26	3.61	GABA permease GabA
<b>Afu1g12350</b>	1.69	2.92	2.49	extracellular fruiting body protein, putative
<b>Afu1g12380</b>	2.08	1.1	1.04	WD repeat protein
<b>Afu1g12440</b>	1.42	1.15	2.01	isoflavone reductase family protein CipA, putative
<b>Afu1g12510</b>	2.44	2.66	3.66	isoflavone reductase family protein
<b>Afu1g12620</b>	-0.11	0.58	2	MFS toxin efflux pump (AflT), putative
<b>Afu1g12630</b>	2.82	2.77	2.9	mannosylphosphate transferase (Mnn4), putative
<b>Afu1g12690</b>	4.75	4.03	4.06	ABC multidrug transporter Mdr4
<b>Afu1g12830</b>	2.12	1.21	0.94	nitrate reductase NiaD
<b>Afu1g12840</b>	2.93	1.23	1.03	nitrite reductase
<b>Afu1g12920</b>	4.32	3.23	3.24	glycogen phosphorylase 1; possible glycogen phosphorylase
<b>Afu1g13090</b>	2.24	1.63	2.16	anthranilate synthase multifunctional protein
<b>Afu1g13230</b>	-0.22	2.09	2.42	conserved hypothetical protein
<b>Afu1g13330</b>	2.98	3.11	2.55	Arp2/3 complex subunit (Arp2), putative

<b>Afu1g13490</b>	2.11	2.29	2.16	spermidine synthase
<b>Afu1g13500</b>	4.44	3.73	2.11	transketolase TktA
<b>Afu1g13690</b>	2.01	0.98	0.44	WD repeat protein
<b>Afu1g13720</b>	2.09	1.97	1.07	intracellular protein transport protein (UsoA), putative
<b>Afu1g13740</b>	2.58	1.76	2.44	pentafunctional polypeptide (AroM), putative
<b>Afu1g13780</b>	1.68	3.76	3.3	histone H4
<b>Afu1g13930</b>	2.91	2.78	2.84	Leucine carboxyl methyltransferase superfamily
<b>Afu1g13940</b>	2.36	1.45	1.78	SUN domain protein (Adg3), putative
<b>Afu1g14120</b>	2.09	0.83	-0.22	nuclear segregation protein (Bfr1), putative
<b>Afu1g14200</b>	2.6	1.67	1.95	mitochondrial processing peptidase beta subunit, putative
<b>Afu1g14210</b>	3.13	2.73	2.93	putative nucleoside-diphosphate-sugar epimerase
<b>Afu1g14240</b>	2.09	2.26	2.82	conserved hypothetical protein
<b>Afu1g14260</b>	2.14	2.4	2.4	related to TGF beta receptor associated protein 1
<b>Afu1g14350</b>	2.92	3.43	3.18	2-deoxy-D-gluconate 3-dehydrogenase, putative
<b>Afu1g14380</b>	1.95	2.86	3.07	3-ketoacyl-acyl carrier protein reductase
<b>Afu1g14390</b>	2.62	4.4	4.57	zinc binding dehydrogenase family protein
<b>Afu1g14400</b>	2.47	2.99	2.77	glyoxylate reductase
<b>Afu1g14530</b>	2.3	2.66	3.07	general amidase-B
<b>Afu1g14540</b>	2.52	3.11	2.7	oxidoreductase, short-chain dehydrogenase/reductase family
<b>Afu1g14550</b>	5.29	6.65	6.03	Mn superoxide dismutase MnSOD
<b>Afu1g14560</b>	0.62	2.33	2.33	alpha-mannosidase
<b>Afu1g14650</b>	2.31	0.34	0.15	WD repeat protein
<b>Afu1g14710</b>	2.34	1.42	0.52	beta-glucosidase 1
<b>Afu1g14980</b>	2.68	2.22	3.03	hypothetical protein
<b>Afu1g15050</b>	3.05	2.24	1.73	Hsp70 chaperone (Orp150), putative
<b>Afu1g15150</b>	2.1	1.05	1.55	alpha-amylase (amyE)
<b>Afu1g15180</b>	2.6	1.91	1.19	conserved hypothetical protein
<b>Afu1g15260</b>	2.76	0.42	0.32	hypothetical protein
<b>Afu1g15290</b>	3.09	2.61	3.27	hypothetical protein
<b>Afu1g15300</b>	3.58	3.3	3.17	choline transport protein, putative
<b>Afu1g15310</b>	2.22	1.39	1.91	sna41 protein
<b>Afu1g15320</b>	2.2	1.49	1.83	NA
<b>Afu1g15330</b>	2.92	4.32	4.37	T10O22.24
<b>Afu1g15470</b>	2.49	1.84	2.22	C6 transcription factor (UaY), putative
<b>Afu1g15550</b>	2.43	1.86	2.83	homeobox and C2H2 transcription factor, putative
<b>Afu1g15660</b>	1.68	1.21	2.15	hypothetical protein
<b>Afu1g15780</b>	2.38	1.7	1.74	3-isopropylmalate dehydrogenase
<b>Afu1g15860</b>	2.04	1.4	0.38	Coatomer subunit delta, putative

<b>Afu1g15950</b>	2.07	0.7	0.3	MAP kinase kinase (Pbs2), putative
<b>Afu1g16190</b>	2.1	1.89	1.32	cell wall glucanase Crf1
<b>Afu1g16250</b>	3.87	5.94	5.07	alpha-glucosidase B
<b>Afu1g16270</b>	2.29	2.02	1.84	xylitol dehydrogenase XdhB, putative
<b>Afu1g16480</b>	2.7	2.81	2.48	acid phosphatase, putative
<b>Afu1g16500</b>	2.03	0.8	0.39	small monomeric GTPase (Gtr2), putative
<b>Afu1g16640</b>	1.47	2.72	3.18	hypothetical protein
<b>Afu1g16670</b>	2.71	3.04	3.23	hypothetical protein
<b>Afu1g16760</b>	0.98	3.12	3.38	acetyltransferase, GNAT family family
<b>Afu1g16770</b>	0.99	3.25	3.24	amidase
<b>Afu1g17050</b>	1.66		2.19	hypothetical protein
<b>Afu1g17110</b>	2.17	0.79	1.52	long chain fatty alcohol oxidase, putative
<b>Afu1g17140</b>	2.32	2.27	2.9	voltage-gated K <sup>+</sup> channel beta subunit (KCNAB), putative
<b>Afu1g17170</b>	4.13	4.7	5.17	alpha-ketoglutarate-dependent taurine dioxygenase
<b>Afu1g17180</b>	5.7	6.51	6.73	pyridine nucleotide-disulphide oxidoreductase, putative
<b>Afu1g17190</b>	4.02	4.52	4.4	long-chain-fatty-acid-CoA ligase, putative
<b>Afu1g17200</b>	3.76	4.16	4.37	nonribosomal peptide synthase, putative
<b>Afu1g17270</b>	2.61	2.97	4.05	ferric-chelate reductase (Fre2), putative
<b>Afu1g17420</b>	1.07	0.97	2	hypothetical protein
<b>Afu1g17470</b>	0.62	1.9	2.88	high affinity nitrate transporter NrtB
<b>Afu1g17480</b>	1.51	3.63	4.37	conserved hypothetical protein
<b>Afu1g17490</b>	2.76	3.55	3.92	glucokinase regulator family protein, putative
<b>Afu1g17510</b>	1.92	1.67	2.23	lipase/esterase, putative
<b>Afu1g17530</b>	2.95	2.97	3.93	MFS transporter, putative
<b>Afu1g17540</b>	0.85	0.67	2.12	hypothetical protein
<b>Afu1g17590</b>	1.8	2.32	3.9	phosphoesterase superfamily protein
<b>Afu1g17640</b>	1.31	1.33	3.45	melanin biosynthesis transcription factor RegA
<b>Afu1g17650</b>	1.8	1.93	3.4	short chain dehydrogenase, putative
<b>Afu1g17670</b>	1.47	0.67	2.44	salicylate hydroxylase, putative
<b>Afu1g17700</b>	3.89	4.32	4.52	short chain dehydrogenase, putative
<b>Afu2g00230</b>	2.38	1.62	1.98	NADH oxidoreductase Amid, putative
<b>Afu2g00260</b>	3.26	1.89	2.25	phenylacetaldoxime dehydratase family protein, putative
<b>Afu2g00320</b>	2.67	2.72	2.91	sterol delta 5,6-desaturase, putative
<b>Afu2g00570</b>	-0.68	1	2.03	GNAT family acetyltransferase, putative
<b>Afu2g00620</b>	2.12	1.77	2.64	hypothetical protein
<b>Afu2g00640</b>	2.66	3.98	4.93	beta-N-hexosaminidase, putative
<b>Afu2g00690</b>	1.13	5.03	4.96	glucan 1,4-alpha-glucosidase, putative
<b>Afu2g00710</b>	1.83	4.18	4.39	alpha-amylase, putative

<b>Afu2g00720</b>	0.42	1.26	2.15	aldehyde dehydrogenase, putative
<b>Afu2g00750</b>	1.89	2.23	3.17	oxidoreductase, 2OG-Fe(II) oxygenase family, putative
<b>Afu2g00770</b>	2.18	2.47	3.22	salicylate hydroxylase
<b>Afu2g00790</b>	0.46	1.64	2.12	hypothetical protein
<b>Afu2g00820</b>	1.18	2.95	3.48	extracellular GDSL-like lipase/acylhydrolase, putative
<b>Afu2g00880</b>	0.73	2.29	2.21	conserved hypothetical protein
<b>Afu2g00890</b>	0.43	2.2	1.62	hypothetical protein
<b>Afu2g01010</b>	1.71	2.08	1.64	myo-inositol-phosphate synthase, putative
<b>Afu2g01030</b>	1.62	2.72	2.88	1-aminocyclopropane-1-carboxylate deaminase, putative
<b>Afu2g01040</b>	2.71	2.66	3.17	formaldehyde dehydrogenase
<b>Afu2g01070</b>	1.45	2.59	2.87	GPI-anchor biosynthesis protein (Pig-F), putative
<b>Afu2g01240</b>	3.65	2.06	1.74	beta-D-fructofuranoside fructohydrolase
<b>Afu2g01280</b>	2.2	4.27	3.73	D-mandelate dehydrogenase, putative
<b>Afu2g01300</b>	2.35	3.86	4.05	conserved hypothetical protein
<b>Afu2g01310</b>	1.94	3.12	3.36	EF-hand domain protein
<b>Afu2g01320</b>	2.49	3.57	3.94	P-type ATPase, putative
<b>Afu2g01360</b>	0.54	1.38	2.04	nucleotide-binding GAF domain protein
<b>Afu2g01380</b>	0.99	2.45	4.22	GNAT family acetyltransferase, putative
<b>Afu2g01430</b>	2.06	1.1	1.13	hypothetical protein
<b>Afu2g02050</b>	2.54	2.56	1.76	peptidyl-prolyl cis-trans isomerase, putative
<b>Afu2g02100</b>	2.91	1.89	1.76	dihydrolipoamide dehydrogenase
<b>Afu2g02440</b>	3.03	2.47	3.5	conserved hypothetical protein
<b>Afu2g02490</b>	0.98	1.85	2.4	hypothetical protein
<b>Afu2g02590</b>	3.94	2.67	2.07	aspartyl-tRNA synthetase
<b>Afu2g02790</b>	3.5	1.06	1.72	NA
<b>Afu2g02800</b>	2.19	0.25	0.53	NA
<b>Afu2g02810</b>	3.36	2.17	2.41	alcohol dehydrogenase, zinc-containing, putative
<b>Afu2g02870</b>	1.01	1.56	2.12	hypothetical protein
<b>Afu2g02950</b>	4.02	3.28	3.01	aldehyde reductase, putative
<b>Afu2g03010</b>	2.36	2.23	1.48	cytochrome c subunit Vb, putative
<b>Afu2g03100</b>	0.56	1.11	2.04	conserved hypothetical protein
<b>Afu2g03270</b>	2.32		2.01	glycosyl hydrolase, putative
<b>Afu2g03330</b>	1.17	1.98	2.06	phytanoyl-CoA dioxygenase family protein
<b>Afu2g03450</b>	0.87	2.07	1.85	hypothetical protein
<b>Afu2g03510</b>	1.86	3.02	3.39	pheromone processing carboxypeptidase (Sxa2), putative
<b>Afu2g03540</b>	2.14	1.67	1.94	conserved hypothetical protein
<b>Afu2g03550</b>	2.45	1.38	1.72	NA
<b>Afu2g03580</b>	2.59	1.31	0.42	phenylalanyl-tRNA synthetase beta chain cytoplasmic

<b>Afu2g03730</b>	2.79	3.44	2.06	Ctr copper transporter family protein
<b>Afu2g03830</b>	3.74	3.92	4.19	allergen Asp F4
<b>Afu2g03860</b>	3.2	3.58	4.14	plasma membrane low affinity zinc ion transporter, putative
<b>Afu2g03870</b>	0.69	1.94	2.01	FKBP-type peptidyl-prolyl isomerase, putative
<b>Afu2g03990</b>	1.51	2.52	3.1	hypothetical protein
<b>Afu2g04060</b>	1.58	1.55	2.58	NADH:flavin oxidoreductase/NADH oxidase family protein
<b>Afu2g04230</b>	0.67	2.3	1.41	fumarylacetoacetate hydrolase FahA
<b>Afu2g04300</b>	1.86	2.3	2.29	lipase/esterase, putative
<b>Afu2g04310</b>	2.21	1.76	2.19	argininosuccinate synthase
<b>Afu2g04490</b>	1.09	1.98	2.69	D-3-phosphoglycerate dehydrogenase
<b>Afu2g04520</b>	1.33	2.67	2.76	Fe-containing alcohol dehydrogenase, putative
<b>Afu2g04540</b>	1.76	2.94	3.54	hypothetical protein
<b>Afu2g04570</b>	2.46	3.27	3.44	BNR/Asp-box repeat domain protein
<b>Afu2g04590</b>	3.35	3.2	4.23	alcohol dehydrogenase, putative
<b>Afu2g04600</b>	2.3	2.43	3.33	C6 transcription factor, putative
<b>Afu2g04620</b>	2	1.32	1.18	ER Hsp70 chaperone BiP, putative
<b>Afu2g04700</b>	2.68	2.01	1.17	RNA binding effector protein (Scp160), putative
<b>Afu2g04710</b>	1.55	1.77	2.23	cytochrome b5, putative
<b>Afu2g04980</b>	2.03	2.45	2.63	tyrosine decarboxylase, putative
<b>Afu2g05080</b>	1.01	1.65	2.88	hypothetical protein
<b>Afu2g05150</b>	1.26	4.48	4.79	cell wall galactomannoprotein Mp2
<b>Afu2g05180</b>	1.04	1.13	2.26	NF-X1 finger and helicase domain protein, putative
<b>Afu2g05260</b>	2.49	2.42	2.99	salicylate hydroxylase
<b>Afu2g05290</b>	1.72	1.55	2.87	isoflavone reductase family protein
<b>Afu2g05310</b>	-0.04	1.28	2.09	C6 transcription factor, putative
<b>Afu2g05340</b>	2.43	2.49	3.18	1,3-beta-glucanosyltransferase, putative
<b>Afu2g05350</b>	2.21	0.74	0.68	major facilitator superfamily protein superfamily
<b>Afu2g05360</b>	2.18	1.23	1.16	C6 transcription factor, putative
<b>Afu2g05400</b>	1.3	2.01	2.69	sugar hydrolase, putative
<b>Afu2g05450</b>	2.12	1.21	0.68	64 kDa mitochondrial NADH dehydrogenase
<b>Afu2g05590</b>	2.02	2.63	3.12	ubiquitin C-terminal hydrolase L3
<b>Afu2g05750</b>	1.73	1.68	2.83	agmatinase, putative
<b>Afu2g05800</b>	2.75	2.95	3.46	IdgA domain protein
<b>Afu2g05820</b>	1.62	2.49	3.08	Riboflavin kinase, putative
<b>Afu2g05880</b>	2.71	1.18	0.6	ammonium transporter MEAA
<b>Afu2g05910</b>	2.75	1.86	1.49	hexokinase Kxk, putative
<b>Afu2g06100</b>	2.41	1.6	1.24	DUF907 domain protein
<b>Afu2g06150</b>	3.2	3.11	1.12	disulfide isomerase, putative

<b>Afu2g06260</b>	2.09	2.21	2.25	hypothetical protein
<b>Afu2g07500</b>	2.8	2.48	2.55	prolidase pepP, putative
<b>Afu2g07570</b>	2.61	1.46	1.63	glutamate 5-kinase, putative
<b>Afu2g07630</b>	2.28	2.09	2.06	vacuolar H <sup>+</sup> /Ca <sup>2+</sup> exchanger
<b>Afu2g07680</b>	4.44	4.31	4.65	L-ornithine N5-oxygenase SidA
<b>Afu2g07750</b>	0.01	1.88	3.26	haloacid dehalogenase, type II
<b>Afu2g07760</b>	1.94	1.04	2.04	hypothetical protein
<b>Afu2g07780</b>	1.18	2.01	3.05	acyl-CoA synthetase, putative
<b>Afu2g07810</b>	2.33	2.86	3.31	cytosolic hydroxymethyltransferase, putative
<b>Afu2g07820</b>	1.42	2.06	2.63	MOSC domain protein
<b>Afu2g07910</b>	1.42	1.8	2.54	myo-inositol transporter
<b>Afu2g07940</b>	0.93	2.66	2.54	NADPH-cytochrome P450 reductase (CprA), putative
<b>Afu2g08120</b>	0.95	1.34	2.01	MFS monosaccharide transporter (Hxt8), putative
<b>Afu2g08220</b>	2.17	1.04	1.31	hypothetical protein
<b>Afu2g08230</b>	2.03		1.7	MFS transporter, putative
<b>Afu2g08300</b>	3.7	3.07	2.66	DnaJ domain protein, putative
<b>Afu2g08350</b>	2.25	0.97	1.63	allantoate permease
<b>Afu2g08470</b>	0.56	2.49	1.93	GTP binding protein (Bud4), putative
<b>Afu2g08550</b>	3.16	4.11	3.86	peptidyl-prolyl cis/trans isomerase
<b>Afu2g08560</b>	2.41	1.12	1.2	hypothetical protein
<b>Afu2g08800</b>	1.97	2.92	3.25	amino acid permease (Dip5), putative
<b>Afu2g08820</b>	2.39	2.62	4.32	hypothetical protein
<b>Afu2g08950</b>	0.15	1.79	2.7	isochorismatase family hydrolase, putative
<b>Afu2g08970</b>	2.15	0.95	1.41	hydroxyethylthiazole kinase;
<b>Afu2g09060</b>	2.67	2.98	3.73	DNA replication licensing factor Mcm4, putative
<b>Afu2g09070</b>	2.55	2.32	1.41	DUF221 domain protein, putative
<b>Afu2g09150</b>	2.59	1.6	0.95	adenosine deaminase
<b>Afu2g09620</b>	2.45	2.7	3.06	phytanoyl-CoA dioxygenase family protein
<b>Afu2g09670</b>	0.64	2.22	2	SNARE protein (Ufe1), putative
<b>Afu2g09680</b>	2.53	2.24	2.96	PB1 domain protein, putative
<b>Afu2g09780</b>	2.15	2.64	2.66	hypothetical protein
<b>Afu2g09790</b>	3.88	2.72	1.21	glucose-6-phosphate isomerase
<b>Afu2g09810</b>	3.58	3.56	2.81	mandelate racemase/muconate lactonizing enzyme family protein
<b>Afu2g09850</b>	3.1	3.67	3.25	oxidoreductase, 2-nitropropane dioxygenase family, putative
<b>Afu2g09940</b>	2.35	1.21	1.12	hypothetical protein
<b>Afu2g10070</b>	2.64	1.84	1.8	carbamoyl-phosphate synthase, large subunit
<b>Afu2g10190</b>	1.68	2.2	2.3	hypothetical protein
<b>Afu2g10220</b>	3.46	3.43	2.87	glycerol dehydrogenase, putative

<b>Afu2g10240</b>	2.43	2.87	2.94	NAD binding Rossmann fold oxidoreductase, putative
<b>Afu2g10280</b>	2.66	2.36	2.15	ketoreductase
<b>Afu2g10450</b>	2.57	1.38	1	prephenate dehydrogenase
<b>Afu2g10580</b>	0.32	2.19	1.75	hypothetical protein
<b>Afu2g10610</b>	2.31	1.61	0.74	COPI vesicle coat beta' subunit, putative
<b>Afu2g10650</b>	1.71	2.4	1.66	enoyl-CoA hydratase
<b>Afu2g10660</b>	3.28	2.4	2.04	mannitol-1-phosphate dehydrogenase
<b>Afu2g10730</b>	1.84	3.03	2.7	DNA polymerase alpha catalytic subunit, putative
<b>Afu2g10910</b>	2.05	3.54	4.4	maltose permease
<b>Afu2g10920</b>	1.86	3.58	3.67	enoyl-CoA hydratase/isomerase family protein
<b>Afu2g10950</b>	3	3.35	4.23	hypothetical protein
<b>Afu2g10960</b>	2.83	2.38	3.12	alcohol dehydrogenase, putative
<b>Afu2g11010</b>	3.04	2.99	2.82	dihydroorotate reductase PyrE, putative
<b>Afu2g11060</b>	0.08	2.08	1.59	Acyl CoA binding protein family
<b>Afu2g11150</b>	2.58	2.18	1.46	secretory pathway gdp dissociation inhibitor
<b>Afu2g11490</b>	1.75	1.94	2.78	acetylglutamate synthase
<b>Afu2g11520</b>	3.77	2.11	0.88	MFS monosaccharide transporter, putative
<b>Afu2g11540</b>	3.83	2.18	2.48	ketoreductase, putative
<b>Afu2g11580</b>	2.67	1.49	2.29	mfs-multidrug-resistance transporter
<b>Afu2g11600</b>	2.48	2.49	2.9	oxidoreductase, putative
<b>Afu2g11850</b>	2.56	1.03	0.52	large subunit ribosomal protein L3
<b>Afu2g12550</b>	2.41	0.82	0.22	multidrug resistant protein, putative
<b>Afu2g12740</b>	1.25	2.41	4.03	methyltransferase, putative
<b>Afu2g12760</b>	1.41	2.68	2.46	conserved hypothetical protein
<b>Afu2g12790</b>	3.32	3.69	5.31	monocarboxylate transporter-like protein
<b>Afu2g12850</b>	1.64	3.22	3.81	1,3-beta-glucanosyltransferase Gel3
<b>Afu2g12940</b>	1.84	1.81	2	conserved hypothetical protein
<b>Afu2g13160</b>	0.49	2.14	3.15	hypothetical protein
<b>Afu2g13170</b>	1.8	2.59	3.15	hypothetical protein
<b>Afu2g13240</b>	2.08	1.29	0.81	V-type ATPase, B subunit, putative
<b>Afu2g13250</b>	2.05	0.62	0.38	bifunctional tryptophan synthase TRPB
<b>Afu2g13270</b>	0.33	2.78	2.99	alcohol dehydrogenase, putative
<b>Afu2g13290</b>	1.77	2.89	3.61	GYF domain protein
<b>Afu2g13450</b>	2.88	2.78	2.76	dynactin, putative
<b>Afu2g13580</b>	2.17	2.5	3.18	conserved hypothetical protein
<b>Afu2g13800</b>	2.2	2.2	3.04	malate dehydrogenase
<b>Afu2g14390</b>	2.08	3.29	3.77	methyltransferase, putative
<b>Afu2g14410</b>	2.49	1.32	1.89	dioxygenase, putative

<b>Afu2g14510</b>	1.68	1.68	2.32	hypothetical protein
<b>Afu2g14590</b>	3.54	2.54	2.22	MFS monosaccharide transporter, putative
<b>Afu2g14600</b>	2.84	2.02	2.42	ab-hydrolase associated lipase family
<b>Afu2g14740</b>	1.25	2.64	2.7	DUF821 domain protein
<b>Afu2g14790</b>	1.36	2.3	3.1	hypothetical protein
<b>Afu2g14850</b>	1.16	2.84	2.86	enoyl-CoA hydratase/isomerase family protein
<b>Afu2g14910</b>	2.4	1.54	1.36	alpha-1,6-mannosyltransferase subunit, putative
<b>Afu2g14920</b>	3.11	3.8	3.97	protein kinase, putative
<b>Afu2g14930</b>	2.66	1.81	2.6	alanine racemase
<b>Afu2g14970</b>	3.36	2.93	2.62	Gamma-butyrobetaine hydroxylase subfamily, putative
<b>Afu2g14990</b>	2.33	3.21	2.98	tubulin alpha-2 subunit
<b>Afu2g15240</b>	2.5	4.88	5.66	small oligopeptide transporter, OPT family
<b>Afu2g15490</b>	2.81	2.58	2.87	TPR domain protein
<b>Afu2g15550</b>	2.82	1.49	2.46	molybdenum cofactor biosynthesis protein Gephyrin, putative
<b>Afu2g15850</b>	2.16	2.92	3.75	phytanoyl-CoA dioxygenase family protein
<b>Afu2g15900</b>	0.97	2.24	2.33	conserved hypothetical protein
<b>Afu2g15930</b>	2.43	2.1	2.89	alcohol dehydrogenase, zinc-containing
<b>Afu2g16010</b>	2.16	0.52	-0.38	prolyl-tRNA synthetase
<b>Afu2g16060</b>	1.49	1.58	2.14	conserved hypothetical protein
<b>Afu2g16120</b>	3.23	2.23	1.99	translocon-associated protein, alpha subunit, putative
<b>Afu2g16200</b>	0.49	1.95	2.14	uracil phosphoribosyltransferase
<b>Afu2g16380</b>	2.11	1.64	1.68	conserved hypothetical protein
<b>Afu2g16540</b>	1.38	2.31	2.77	C2H2 finger domain protein, putative
<b>Afu2g16620</b>	2.34	1	0.99	protein kinase, putative
<b>Afu2g16720</b>	2.11	1.59	1.29	DUF1237 domain protein
<b>Afu2g16820</b>	3.61	2.09	1.17	curved DNA-binding protein (42 kDa protein)
<b>Afu2g17000</b>	2.92		1.27	PT repeat family protein
<b>Afu2g17010</b>	1.75	2.31	1.87	NA
<b>Afu2g17070</b>	1.89	2.18	2.27	DUF298 domain protein
<b>Afu2g17080</b>	2.05	1.66	1.29	integral membrane protein 25D9-6
<b>Afu2g17300</b>	0.89	2.18	3.46	glutathione S-transferase
<b>Afu2g17320</b>	4.59	5.29	5.74	conserved hypothetical protein
<b>Afu2g17330</b>	1.92	2.48	3.47	serine peptidase, family S28, putative
<b>Afu2g17360</b>	1.64	1.63	2.32	monocarboxylate transporter (Mct), putative
<b>Afu2g17400</b>	3.24	3.57	3.85	C-3 sterol dehydrogenase/C-4 decarboxylase
<b>Afu2g17430</b>	1.16	0.85	2.22	oxidoreductase, 2-nitropropane dioxygenase family, putative
<b>Afu2g17450</b>	1.23	2.23	2.77	3-hydroxyanthranilate 3,4-dioxygenase
<b>Afu2g17460</b>	0.93	1.99	2.38	aldehyde dehydrogenase, putative

<b>Afu2g17600</b>	2	1.98	1.02	polyketide synthetase PksP
<b>Afu2g17630</b>	-0.01	2.44	2.15	hypothetical protein
<b>Afu2g17660</b>	2.25	1.55	1.74	C4-dicarboxylate transporter/malic acid transport protein, putative
<b>Afu2g17770</b>	0.51	1.87	2.24	conserved hypothetical protein
<b>Afu2g17790</b>	1.22	2.24	3.04	amino acid transporter, putative
<b>Afu2g17800</b>	0.23	2.18	2.73	C6 transcription factor, putative
<b>Afu2g17830</b>	-0.2	1.75	4.06	hypothetical protein
<b>Afu2g17840</b>	0.81	2.87	4.72	MFS transporter, putative
<b>Afu2g17930</b>	-0.26	2.53	2.95	integral membrane protein
<b>Afu2g18030</b>	1.83	2.54	3.01	catalase, putative
<b>Afu2g18050</b>	-0.07	1.13	3.26	FAD binding oxidoreductase, putative
<b>Afu3g00290</b>	0.83	1.33	2.07	3-hydroxyacyl-CoA dehydrogenase, putative
<b>Afu3g00310</b>	2.31	1.64	1.56	extracellular phytase, putative
<b>Afu3g00320</b>	1.15	3	1.92	endo-1,4-beta-xylanase (XlnA), putative
<b>Afu3g00350</b>	0.92	2.25	1.58	hypothetical protein
<b>Afu3g00420</b>	0.73	1.49	3.73	acetyl xylan esterase (Axe1), putative
<b>Afu3g00430</b>	2.19	1.45	2.48	high-affinity glucose transporter, putative
<b>Afu3g00470</b>	1.87	3.86	5.04	endo-1,4-beta-xylanase, putative
<b>Afu3g00520</b>	0.8	2.42	2.56	SIR2 family histone deacetylase, putative
<b>Afu3g00560</b>	-0.24	1.15	2.03	conserved hypothetical protein
<b>Afu3g00590</b>	2.2	2.18	2.45	Asp-hemolysin
<b>Afu3g00680</b>	3.6	3.18	3.39	copper amine oxidase
<b>Afu3g00690</b>	2		0.32	C6 transcription factor, putative
<b>Afu3g00740</b>	4.12	3.88	4.14	2-dehydropantoate 2-reductase, putative
<b>Afu3g00750</b>	2.74	4.23	3.77	short-chain dehydrogenase/reductase, putative
<b>Afu3g00900</b>	4.13	4.86	4.97	alpha-amylase AmyA
<b>Afu3g00960</b>	-1.5	1.55	2.11	conserved hypothetical protein
<b>Afu3g00990</b>	2.27	2.1	2.14	flavin-binding monooxygenase, putative
<b>Afu3g01110</b>	2.34	1.24	1.5	GMP synthase
<b>Afu3g01170</b>	-0.22	0.14	2.1	cystathionine beta-lyase
<b>Afu3g01180</b>	0.96	1.16	3.48	sarcosine oxidase, putative
<b>Afu3g01220</b>	0.87	1.69	2.63	aspartic-type endopeptidase, putative
<b>Afu3g01230</b>	2.92	3.39	4.44	sugar transporter-like protein
<b>Afu3g01240</b>	-2.58	0.46	2.52	hypothetical protein
<b>Afu3g01280</b>	0.29	1.75	3.31	alpha/beta hydrolase, putative
<b>Afu3g01320</b>	2.19	3.64	3.97	homocysteine S-methyltransferase, putative
<b>Afu3g01330</b>	1.75	2.61	2.68	class II aldolase/adducin domain protein
<b>Afu3g01370</b>	3.44	5.08	5.33	MFS transporter, putative

<b>Afu3g01450</b>	1.47	2.15	1.84	3-methyl-2-oxobutanoate dehydrogenase, putative
<b>Afu3g01490</b>	2.57	3.15	4.53	alcohol dehydrogenase, putative
<b>Afu3g01500</b>	-0.18	2.09	3.33	integral membrane protein
<b>Afu3g01530</b>	-0.03	2.56	4.2	phosphatidylglycerol specific phospholipase, putative
<b>Afu3g01580</b>	0.18	2.52	3.58	GMC oxidoreductase, putative
<b>Afu3g01590</b>	0.98	1.28	2.03	hypothetical protein
<b>Afu3g01610</b>	0.33	3.03	3.53	hypothetical protein
<b>Afu3g01660</b>	2.02	3.46	3.73	putative hydrolase
<b>Afu3g01670</b>	0.35		2.82	MFS hexose transporter, putative
<b>Afu3g01700</b>	1.73	1.61	2.65	maltose permease
<b>Afu3g01780</b>	2.23	1.7	1.76	alcohol dehydrogenase, putative
<b>Afu3g01810</b>	2.54	2.57	3.04	F-box domain protein
<b>Afu3g01950</b>	1.16	1.85	2.06	alcohol dehydrogenase, zinc-containing
<b>Afu3g02040</b>	3.37	3.62	4	glycosyl hydrolase, putative
<b>Afu3g02130</b>	0.49	0.87	2.45	oxidoreductase, zinc-binding, putative
<b>Afu3g02240</b>	2.56	1.33	1.51	aromatic-L-amino-acid decarboxylase
<b>Afu3g02250</b>	1.76	3.15	3.98	conserved hypothetical protein
<b>Afu3g02270</b>	3.42	3.7	1.71	mycelial catalase Cat1
<b>Afu3g02280</b>	4	4.74	4.77	alpha, alpha-trehalose glucohydrolase, putative
<b>Afu3g02360</b>	2.1	2.29	1.2	FAD dependent oxidoreductase superfamily
<b>Afu3g02890</b>	2.69	1.83	2.1	MFS sugar transporter, putative
<b>Afu3g02940</b>	5.04	5.54	5.48	allergen, putative
<b>Afu3g02970</b>	0.98	4.32	4.99	aspergillopepsin, putative
<b>Afu3g02980</b>	3.06	2.66	3.03	metalloreductase, putative
<b>Afu3g03000</b>	1.27	2.6	3.25	phosphatidylethanolamine-binding protein, putative
<b>Afu3g03010</b>	2.04	4.44	4.82	phosphate-repressible phosphate permease
<b>Afu3g03020</b>	3.18	3.18	2.72	phosphoglucomutase, putative
<b>Afu3g03330</b>	2.36	3.76	6.03	mitochondrial enoyl reductase, putative
<b>Afu3g03350</b>	0.67	3.46	5.24	nonribosomal peptide synthase, putative
<b>Afu3g03360</b>	1.02	2.71	5.12	hypothetical protein
<b>Afu3g03390</b>	5.34	5.37	5.87	siderophore biosynthesis lipase/esterase, putative
<b>Afu3g03400</b>	4.88	5.58	5.49	siderophore biosynthesis acetylase AceI, putative
<b>Afu3g03410</b>	5.2	6.21	6.25	enoyl-CoA hydratase/isomerase family protein
<b>Afu3g03420</b>	4.42	6.45	6.07	hypothetical protein
<b>Afu3g03430</b>	4.32	5.73	5.71	ABC multidrug transporter SitT, putative
<b>Afu3g03440</b>	5.85	6.29	6.55	MFS family siderophore transporter, putative
<b>Afu3g03450</b>	2.82	2.77	3.4	cytochrome P450 pisatin demethylase, putative
<b>Afu3g03600</b>	1.29	2.9	3.72	carboxyl esterase A

<b>Afu3g03640</b>	3.3	5.11	2.99	siderochrome-iron transporter (MirB), putative
<b>Afu3g03660</b>	4.77	2.49	3.8	esterase superfamily protein
<b>Afu3g03670</b>	3.85	3.34	4.08	ABC multidrug transporter, putative
<b>Afu3g03700</b>	5.21	6.69	6.7	Sugar transporter subfamily
<b>Afu3g03710</b>	3.36	1.44	2.4	D-aminopeptidase putative
<b>Afu3g03810</b>	1.9	1.25	3.48	hypothetical protein
<b>Afu3g03820</b>	3.66	4.09	5.47	MFS transporter, putative
<b>Afu3g03830</b>	2.83	2.89	3.89	hypothetical protein
<b>Afu3g03850</b>	0.93	1.44	2.31	hypothetical protein
<b>Afu3g03860</b>	3.82	3.43	4.91	3-hydroxyacyl-CoA dehydrogenase, putative
<b>Afu3g04170</b>	2.94	1.5	1.67	pyruvate dehydrogenase E1 beta subunit, putative
<b>Afu3g04220</b>	2.71	1.71	1.07	fatty acid synthase beta subunit, putative
<b>Afu3g05450</b>	2.79	1.99	2.07	glutamate carboxypeptidase, putative
<b>Afu3g05880</b>	1.26	1.78	2.52	oxysterol binding protein (Osh3), putative
<b>Afu3g06530</b>	4.2	3.4	3.43	ATP sulphurylase
<b>Afu3g06650</b>	2.44	1.81	1.91	aminoalcoholphosphotransferase
<b>Afu3g06660</b>	2.29	1.78	1.04	NIPSNAP1 protein
<b>Afu3g06730</b>	1.67	2.54	2.56	MFS sugar transporter, putative
<b>Afu3g06740</b>	1.27	2.18	2.23	C6 transcription factor (Gal4), putative
<b>Afu3g07020</b>	0.43	1.88	2.59	annexin ANXC4
<b>Afu3g07140</b>	2.21	3	3.85	developmental regulator FluG
<b>Afu3g07150</b>	2.94	3.89	4.88	succinate-semialdehyde dehydrogenase, putative
<b>Afu3g07160</b>	0.54	1.11	2.43	class V chitinase, putative
<b>Afu3g07310</b>	2.18	2.93	3.08	conserved hypothetical protein
<b>Afu3g07400</b>	1.11	2.12	2.67	hypothetical protein
<b>Afu3g07410</b>	3.05	3.23	3.48	isoamyl alcohol oxidase
<b>Afu3g07640</b>	1.85	1.27	2.64	plasma membrane H <sup>+</sup> -ATPase
<b>Afu3g07790</b>	2.51	1.54	1.59	argininosuccinate lyase
<b>Afu3g07830</b>	2.08	0.24	-0.6	t-complex protein 1, delta subunit, putative
<b>Afu3g07870</b>	2.52	3.32	3.29	extracellular serine-rich protein
<b>Afu3g07890</b>	1.96	2.48	3	endo alpha-1,4 polygalactosaminidase, putative
<b>Afu3g07910</b>	2.48	3.68	3.88	UDP-glucose 4-epimerase, putative
<b>Afu3g08060</b>	1.27	1.26	2.49	DUF1338 domain protein
<b>Afu3g08110</b>	0.29	3.13	2.96	cell wall protein, putative
<b>Afu3g08150</b>	1.3	1.76	2.11	hypothetical protein
<b>Afu3g08290</b>	3.9	2.73	2.24	aspartyl aminopeptidase
<b>Afu3g08300</b>	2.1	1.45	1.15	DNA replication factor C subunit Rfc2, putative
<b>Afu3g08310</b>	3.08	2.41	1.95	4-nitrophenylphosphatase

<b>Afu3g08380</b>	2.56	1.68	1.25	inorganic diphosphatase, putative
<b>Afu3g08610</b>	1.4	2.35	2.37	DUF124 domain protein
<b>Afu3g09050</b>	2.06			exonuclease I, putative
<b>Afu3g09140</b>	1.8	3.26	4.36	endo 1,5-alpha-arabinase
<b>Afu3g09150</b>	2.11	3.3	4.25	oxidoreductase, short chain dehydrogenase/reductase family
<b>Afu3g09220</b>	1.81	2.24	2.12	fatty acid hydroxylase, putative
<b>Afu3g09330</b>	2.54	1.49	1.17	conserved hypothetical protein
<b>Afu3g09550</b>	2.4	1.23	1.38	calcium/calmodulin dependent protein kinase, putative
<b>Afu3g09690</b>	1.5	1	2.11	extracellular thaumatin domain protein, putative
<b>Afu3g09700</b>	2.21	2.07	2.16	Sec23/Sec24 family protein
<b>Afu3g09710</b>	1.68	2.05	1.93	amino acid permease
<b>Afu3g09720</b>	2.67	2.27	1.65	cleavage and polyadenylation specificity factor, putative
<b>Afu3g09740</b>	3.21	2.91	3.13	integral plasma membrane protein, putative
<b>Afu3g10300</b>	2.55	1.74	1.27	galactokinase
<b>Afu3g10390</b>	1.18	1.54	2.23	conserved hypothetical protein
<b>Afu3g10540</b>	0.06	0.82	2.13	3-oxoacyl-(acyl-carrier-protein) reductase, putative
<b>Afu3g10790</b>	2.01	1.34	1.22	hypothetical protein
<b>Afu3g10910</b>	1	1.66	2.49	glutaminase A
<b>Afu3g10920</b>	2.67	1.61	0.77	telomere and ribosome associated protein Stm1, putative
<b>Afu3g11280</b>	2.69	3.17	3.33	class V chitinase, putative
<b>Afu3g11480</b>	1.94	3	3.13	mitochondrial methylglutaconyl-CoA hydratase (Auh), putative
<b>Afu3g11510</b>	1.7	1.8	2.29	O-acetyltransferase, putative
<b>Afu3g11640</b>	3.66	3.56	4.17	homoserine dehydrogenase
<b>Afu3g11650</b>	1.36	3.97	5.15	hypothetical protein
<b>Afu3g11770</b>	1.07	2.08	2.97	hypothetical protein
<b>Afu3g11780</b>	2.46	2.82	3.13	beta-N-acetylglucosaminidase, putative
<b>Afu3g11790</b>	2.84	3.39	3.28	galactose-proton symport, putative
<b>Afu3g11850</b>	2.51	1.02	1.61	hypothetical protein
<b>Afu3g11900</b>	2.23	3.45	3.19	oxidoreductase, zinc-binding
<b>Afu3g11920</b>	1.37	2.52	1.73	dihydrodipicolinate synthetase family protein
<b>Afu3g12170</b>	2.29	3.12	3.62	MFS sugar transporter, putative
<b>Afu3g12210</b>	2.07	1	1.65	carboxypeptidase Y, putative
<b>Afu3g12250</b>	0.93	2.05	2.43	protein-tyrosine phosphatase, putative
<b>Afu3g12330</b>	2.04	1.63	0.3	phosphatidyl synthase
<b>Afu3g12420</b>	2.7	2.08	1.42	endothelin-converting enzyme
<b>Afu3g12430</b>	2.11	1.64	1.72	guanine nucleotide exchange factor, putative
<b>Afu3g12460</b>	2.66	2.45	1.72	conserved hypothetical protein
<b>Afu3g12600</b>	0.76	1.79	2.39	beta-glucosidase 1

<b>Afu3g12610</b>	0.69	1.58	2.11	hypothetical protein
<b>Afu3g12620</b>	2.32	3.92	4.66	acyl-CoA:6-aminopenicillanic-acid-acyltransferase, putative
<b>Afu3g12770</b>	1.75	2.18	2.18	putative nucleoside-diphosphate-sugar epimerase
<b>Afu3g12790</b>	2.21	3.23	3.2	conserved glutamic acid-rich protein
<b>Afu3g12800</b>	3.2	2.03	1.93	conserved hypothetical protein
<b>Afu3g12840</b>	1.11	2.33	2.45	Signal peptidase I
<b>Afu3g13030</b>	2.07	0.86	0.71	t-complex protein 1, gamma subunit, putative
<b>Afu3g13080</b>	-0.07	0.53	2.05	hypothetical protein
<b>Afu3g13110</b>	-1.01	2.19	1.85	extracellular serine-threonine rich protein
<b>Afu3g13120</b>	2.61	1.77	2.46	porphobilinogen deaminase
<b>Afu3g13180</b>	2.13	0.11	-0.53	hypothetical protein
<b>Afu3g13240</b>	1.33	3.03	2.21	aldose 1-epimerase, putative
<b>Afu3g13260</b>	1.66	1.81	2.01	related to DNA repair endonuclease rad2
<b>Afu3g13320</b>	3.47	1.88	1.33	40S ribosomal protein S0, putative
<b>Afu3g13390</b>	2.07	1.8	1.4	Vacuolar ATP synthase subunit d, putative
<b>Afu3g13980</b>	3.11	2.86	2.59	glucose transporter
<b>Afu3g14030</b>	1.09	1.63	2.18	alkaline phosphatase
<b>Afu3g14170</b>	1.77	2.26	2.86	high-affinity hexose transporter
<b>Afu3g14180</b>	2.99	2.99	2.13	hypothetical protein
<b>Afu3g14190</b>	2.08	2.46	2.04	hypothetical protein
<b>Afu3g14200</b>	1.32	3.36	2.14	hypothetical protein
<b>Afu3g14320</b>	2.45	1.96	2.04	Golgi transport protein Sly1, putative
<b>Afu3g14440</b>	1.36	2.47	1.86	cytochrome c oxidase family protein
<b>Afu3g14460</b>	1.22	1.12	2.01	Rad51 family DNA repair protein, putative
<b>Afu3g14470</b>	1.77	1.59	2.4	Pyridoxal-phosphate dependent enzyme, putative
<b>Afu3g14510</b>	1.63	2.9	3.66	rhamnogalacturonan acetyltransferase, putative
<b>Afu3g14520</b>	2.07	2.29	2	enoyl-CoA hydratase/isomerase family protein
<b>Afu3g14570</b>	2	1.89	2.78	histidine acid phosphatase, putative
<b>Afu3g14590</b>	2.66	2.93	3.48	copper amine oxidase
<b>Afu3g14600</b>	0.58	1.38	2.02	fungal specific transcription factor, putative
<b>Afu3g14650</b>	0.32	2.8	2.55	hypothetical protein
<b>Afu3g14660</b>	0.48	2.23	1.74	hypothetical protein
<b>Afu3g14670</b>	1.76	1.72	3.47	MFS transporter, putative
<b>Afu3g14680</b>	-1	2.86	2.69	lysophospholipase Plb3
<b>Afu3g14730</b>	0.18	1.06	2.1	LysR family regulatory protein, putative
<b>Afu3g14740</b>	1.22	1.38	2.28	conserved hypothetical protein
<b>Afu3g14920</b>	2.92	3.23	3.38	LaeA-like methyltransferase, putative
<b>Afu3g15210</b>	0.78	3.63	3.4	endo-1,4-beta-xylanase, putative

<b>Afu3g15230</b>	2.85	1.55	2.38	general amidase, putative
<b>Afu3g15340</b>	0.48	1.29	2.14	hypothetical protein
<b>Afu4g00150</b>	3.93	4.5	4.84	MFS maltose transporter, putative
<b>Afu4g00370</b>	2.19	2.11	2.33	general amidase, putative
<b>Afu4g00390</b>	0.79	3.05	3.38	glycosyl hydrolase, putative
<b>Afu4g00460</b>	2.13	1.73	1.32	chlorohydrolase family protein, putative
<b>Afu4g00610</b>	2.16	4.53	5.4	aryl-alcohol dehydrogenase, putative
<b>Afu4g00620</b>	2.04	1.39	1.79	glycosyl hydrolase, putative
<b>Afu4g00630</b>	2.11		1.41	aminotransferase, putative
<b>Afu4g00700</b>	1.97	2.43	2.73	oxidoreductase, zinc-binding
<b>Afu4g00800</b>	4.81	4.53	4.35	MFS monosaccharide transporter, putative
<b>Afu4g00830</b>	1	2.35	2.47	MFS peptide transporter, putative
<b>Afu4g00980</b>	-1.95	2.73	3.2	hypothetical protein
<b>Afu4g00990</b>	1.28	3.05	4.4	MFS quinate transporter, putative
<b>Afu4g01000</b>	-0.05	1.4	2.39	MFS transporter, putative
<b>Afu4g01060</b>	0.05	1.13	2.34	hypothetical protein
<b>Afu4g01070</b>	1.01	1.7	3.53	acid phosphatase, putative
<b>Afu4g01140</b>	2.45	3.28	4.36	MFS multidrug transporter, putative
<b>Afu4g01280</b>	0.73	1.19	2.3	hypothetical protein
<b>Afu4g01290</b>	1.87	4.41	4.68	endo-chitosanase, pseudogene
<b>Afu4g01370</b>	1.06	1.94	3.82	hypothetical protein
<b>Afu4g01440</b>	-0.27	0.77	4.05	glutathione S-transferase family protein
<b>Afu4g01470</b>	0.86	2.14	3.31	C6 finger domain protein, putative
<b>Afu4g01550</b>	2.71	3.36	3.58	aldehyde dehydrogenase, putative
<b>Afu4g01580</b>	1.04	2.59	1.82	ankyrin repeat protein
<b>Afu4g05940</b>	2.21	2.17	2.82	phosphoethanolamine
<b>Afu4g05970</b>	1.48	1.82	2.77	para-hydroxybenzoate-polyprenyltransferase precursor
<b>Afu4g06020</b>	1.71	1.92	2.01	cyclin dependent kinase inhibitor (Nuc-2), putative
<b>Afu4g06190</b>	2.27	2.26	2.94	fungal specific transcription factor, putative
<b>Afu4g06380</b>	2.72	1.91	2.13	sterol carrier protein, putative
<b>Afu4g06460</b>	2.12	3.01	3.65	pentafunctional AROM polypeptide, putative
<b>Afu4g06640</b>	0.23	3.53	4.07	acid sphingomyelinase
<b>Afu4g06670</b>	2.74	2.21	2.24	allergen Asp F7
<b>Afu4g06860</b>	1.75	3.26	3.23	conserved hypothetical protein
<b>Afu4g06910</b>	3.31	3.04	2.91	outer mitochondrial membrane protein porin
<b>Afu4g07010</b>	2.51	1.36	1.55	hydrolase, TatD family protein, putative
<b>Afu4g07080</b>	2.01	0.55	0.49	dual specificity phosphatase, putative
<b>Afu4g07130</b>	2.67	1.99	1.67	diphosphomevalonate decarboxylase

<b>Afu4g07140</b>	2.14	1.39	1.51	iki3 protein
<b>Afu4g07190</b>	2.24	1.6	1.31	ornithine carbamoyltransferase
<b>Afu4g07320</b>	0.34	1.45	2.11	conserved hypothetical protein
<b>Afu4g07460</b>	2.23	1.51	1.13	cytoskeleton organisation protein (Dec1), putative
<b>Afu4g07690</b>	4.01	2.73	2.58	phosphoribosylaminoimidazolecarboxamide formyltransferase/IMP cyclohydrolase
<b>Afu4g07710</b>	2.11	1.85	2.37	pyruvate carboxylase, putative
<b>Afu4g07740</b>	2.17	0.81	0.44	small nuclear ribonucleoprotein SmB, putative
<b>Afu4g07760</b>	2.31	0.98	0.54	Transmembrane amino acid transporter protein family
<b>Afu4g07790</b>	1.38	2.08	2.26	hypothetical protein
<b>Afu4g07810</b>	1.96	1.98	2.56	L-serine dehydratase, putative
<b>Afu4g07940</b>	2.68	3.37	3.54	oxidoreductase, 2-nitropropane dioxygenase family, putative
<b>Afu4g07990</b>	2.22	0.99	1.59	CobW domain protein
<b>Afu4g08010</b>	1.4	0.98	2.02	ornithine decarboxylase
<b>Afu4g08020</b>	1.4	2.01	2.34	hypothetical protein
<b>Afu4g08030</b>	2.17	0.99	0.66	conserved hypothetical protein
<b>Afu4g08070</b>	2.4	0.9	0.2	peptide N-myristoyl transferase (Nmt1)
<b>Afu4g08170</b>	1.82	2.61	3.32	succinate-semialdehyde dehydrogenase, putative
<b>Afu4g08240</b>	2.21	0.49	0.01	alcohol dehydrogenase, zinc-containing
<b>Afu4g08320</b>	2.08	0.53	-0.5	tyrosyl-tRNA synthetase, mitochondrial precursor (tyrosine--tRNA ligase) (tyrrs)
<b>Afu4g08460</b>	2.14	0.21	0.18	conserved hypothetical protein
<b>Afu4g08580</b>	2.86	3.26	2.96	antioxidant protein LsfA
<b>Afu4g08600</b>	3.04	2.82	2.3	aldehyde dehydrogenase, putative
<b>Afu4g08610</b>	2.54	2.22	2.29	regucalcin homolog [imported]
<b>Afu4g08710</b>	4.02	3.93	4.39	short chain dehydrogenase, putative
<b>Afu4g09200</b>	2.42	2	3.37	hypothetical protein
<b>Afu4g09210</b>	1.79	2.49	2.82	phosphate transporter
<b>Afu4g09300</b>	0.41	2.15	3.44	hypothetical protein
<b>Afu4g09320</b>	1.2	4.13	3.32	antigenic dipeptidyl-peptidase Dpp4
<b>Afu4g09350</b>	3.08	2.45	2.92	hypothetical protein
<b>Afu4g09360</b>	3.12	2.67	3.1	ATP synthase proteolipid P2, putative
<b>Afu4g09390</b>	1.68	2.15	0.87	conserved hypothetical protein
<b>Afu4g09440</b>	0.75	1.5	2.31	sodium P-type ATPase, putative
<b>Afu4g09450</b>	0.13	2.74	3.21	hypothetical protein
<b>Afu4g09560</b>	1.41	2.75	3.02	ZIP Zinc transporter, putative
<b>Afu4g09580</b>	1.6	3.65	4.1	major allergen Asp F2
<b>Afu4g09790</b>	2.76	0.56	0.54	hypothetical protein

<b>Afu4g10120</b>	2.41	2.39	3	C6 finger domain protein, putative
<b>Afu4g10130</b>	2	3.91	4.06	alpha-amylase (Amy1), putative
<b>Afu4g10140</b>	1.19	2.34	2.48	glucoamylase
<b>Afu4g10150</b>	4.91	6.35	5.88	alpha-glucosidase
<b>Afu4g10160</b>	2.8	3.57	3.75	C6 transcription factor (AmyR), putative
<b>Afu4g10230</b>	1.56	2.24	3.42	conserved hypothetical protein
<b>Afu4g10410</b>	3.17	2.74	3.06	aspartate aminotransferase, putative
<b>Afu4g10830</b>	2.07	0.5	0.76	SNF2 family helicase, putative
<b>Afu4g10840</b>	2.02	1.62	1.3	conserved hypothetical protein
<b>Afu4g11050</b>	2.31	1.48	0.91	NADH-ubiquinone oxidoreductase, subunit F, putative
<b>Afu4g11190</b>	2.66	2.01	2.23	kynurenine aminotransferase, putative
<b>Afu4g11240</b>	2.67	2.22	2.83	alpha-aminoadipate reductase large subunit, putative
<b>Afu4g11320</b>	0.61	1.57	2.43	hypothetical protein
<b>Afu4g11330</b>	1.98	2.07	1.93	Aha1 domain family
<b>Afu4g11340</b>	3.04	1.76	1.32	saccharopine dehydrogenase
<b>Afu4g11380</b>	2.25	1.86	2.86	hypothetical protein
<b>Afu4g11400</b>	0.66	2.18	2.52	cell surface receptor/MFS transporter (FLVCR), putative
<b>Afu4g11460</b>	3.2	2.72	2.99	aminotransferase, classes I and II, putative
<b>Afu4g11550</b>	4.05	3.21	2.51	hypothetical protein
<b>Afu4g11620</b>	2.35	3.92	3.85	conserved hypothetical protein
<b>Afu4g11750</b>	1.13	2.16	2	hypothetical protein
<b>Afu4g11780</b>	2.01	1.44	1.69	major facilitator superfamily, putative
<b>Afu4g11870</b>	2.38	1.29	1.16	tubulin-specific chaperone, putative
<b>Afu4g11890</b>	2.67	2.16	2.09	serine/threonine protein kinase, putative
<b>Afu4g11910</b>	2.66	1.37	0.83	N-terminal acetyltransferase catalytic subunit (NAT1), putative
<b>Afu4g12000</b>	2.84	2.46	1.79	phosphatidylinositol phospholipase C
<b>Afu4g12150</b>	2.31	2.71	2.42	HIT domain protein
<b>Afu4g12170</b>	2.62	1.58	1.74	ribosomal protein L2
<b>Afu4g12370</b>	1.7	1.96	2.71	hypothetical protein
<b>Afu4g12450</b>	2.05	0.91	1.04	lysine-rich protein
<b>Afu4g12570</b>	2.06	1.94	2.02	C6 transcription factor, putative
<b>Afu4g12670</b>	1.98	2.18	1.73	DNA repair protein rad1, putative
<b>Afu4g12840</b>	3.42	3.35	2.87	class II aldolase/adducin domain protein
<b>Afu4g12850</b>	3.23	2.8	2.47	calnexin
<b>Afu4g12880</b>	2.17	3.22	2.76	hypothetical protein
<b>Afu4g12900</b>	1.99	2.15	2.08	alpha-1,6-mannosyltransferase subunit (Ecm39), putative
<b>Afu4g12920</b>	2.16	0.57	0.5	histidyl-tRNA synthetase, mitochondrial precursor
<b>Afu4g12930</b>	2.02	1.03	0.58	ubiquinone biosynthesis monooxygenase (Coq6), putative

<b>Afu4g13080</b>	2.62	2.25	1.8	monosaccharide transporter
<b>Afu4g13090</b>	2.24	2.07	3.2	MFS transporter, putative
<b>Afu4g13170</b>	2.25	1.36	1.08	guanine nucleotide-binding protein subunit, putative
<b>Afu4g13390</b>	2.99	1.79	1.53	actin-related protein ArpA
<b>Afu4g13520</b>	0.38	1.53	2.13	oxidoreductase, short-chain dehydrogenase/reductase family
<b>Afu4g13580</b>	3.51	3.91	3.44	gamma-glutamyltranspeptidase
<b>Afu4g13720</b>	2.28	1.71	1.47	MAP kinase (MpkA), putative
<b>Afu4g13770</b>	2.32	1.95	3.29	glycosyl hydrolase, putative
<b>Afu4g13780</b>	1.41	1.26	3.02	polyphenol monooxygenase, putative
<b>Afu4g13880</b>	4.11	1.84	0.85	ankyrin repeat protein
<b>Afu4g13900</b>	3.93	2.78	2.37	MFS transporter, putative
<b>Afu4g13930</b>	1.72	1.83	2.37	CRAL/TRIO domain protein
<b>Afu4g13950</b>	-0.11	1.68	2.47	GNAT family acetyltransferase, putative
<b>Afu4g13960</b>	2.54	1.97	2.78	2-dehydropantoate 2-reductase
<b>Afu4g14000</b>	2.41	5.62	5.86	tripeptidyl peptidase A
<b>Afu4g14010</b>	3.21	3.38	4.91	oxidoreductase, short chain dehydrogenase/reductase family superfamily
<b>Afu4g14070</b>	0.37	1.45	3.55	glycosyl transferase, putative
<b>Afu4g14090</b>	1.62	2.92	4.49	UDP-glucose 4-epimerase
<b>Afu4g14120</b>	1.62	2.15	1.85	cutinase, putative
<b>Afu4g14150</b>	0.77	1	2.58	Diacylglycerol acyltransferase family
<b>Afu4g14420</b>	1.53	2.92	3.57	secreted glycosyl hydrolase, putative
<b>Afu4g14670</b>	1.8	2.39	3.62	MFS quinate transporter, putative
<b>Afu4g14730</b>	-0.32	2.32	3.32	GNAT family acetyltransferase, putative
<b>Afu4g14800</b>	0.86	1.44	2.23	short chain dehydrogenase, putative
<b>Afu5g00220</b>	2.08	2.04	2.14	hypothetical protein
<b>Afu5g00290</b>	5.04	4.97	5.13	C6 transcription factor, putative
<b>Afu5g00300</b>	4.94	4.59	4.18	zinc-binding oxidoreductase, putative
<b>Afu5g00310</b>	3.73	2.28	1.5	flavin-containing monooxygenase, putative
<b>Afu5g00390</b>	2.52	2.58	3.35	hypothetical protein
<b>Afu5g00480</b>	2.41	2.51	3.56	fructan beta-fructosidase, putative
<b>Afu5g00550</b>	0.47	1.39	2.57	endoglycoceramidase, putative
<b>Afu5g00600</b>	1.12	1.8	2.69	NPP1 domain protein, putative
<b>Afu5g00640</b>	1.82	2.39	1.97	peroxisomal dehydratase, putative
<b>Afu5g00710</b>	0.67	2.19	3.3	GABA permease, putative
<b>Afu5g00720</b>	1.37	2.54	2.12	acetyltransferase, GNAT family family
<b>Afu5g00980</b>	3.06	2.27	3.03	multidrug resistant protein
<b>Afu5g01000</b>	2.43	2.05	2.28	oxidoreductase, 2OG-Fe(II) oxygenase family, putative

<b>Afu5g01030</b>	1.99	2.6	4.39	glyceraldehyde 3-phosphate dehydrogenase (Ccg-7), putative
<b>Afu5g01090</b>	2.07	0.93	1.75	UPF0075 domain protein
<b>Afu5g01200</b>	0.72	5.02	6.25	carboxypeptidase S1, putative
<b>Afu5g01320</b>	0.81	1.96	3.25	phosphate permease
<b>Afu5g01440</b>	0.7	2.87	2.77	allergen, putative
<b>Afu5g01580</b>	1.44	3.26	1.3	oxidoreductase, short chain dehydrogenase/reductase family
<b>Afu5g01600</b>	1.29	2.63	4.08	PHP domain protein
<b>Afu5g01630</b>	2.78	2.85	3.27	major facilitator superfamily
<b>Afu5g01690</b>	0.89	2.27	1.71	conserved hypothetical protein
<b>Afu5g01880</b>	3.36	3.27	3.31	conserved hypothetical protein
<b>Afu5g01910</b>	1.47	2.15	3.25	aldo-keto reductase (AKR), putative
<b>Afu5g01970</b>	2.16	1.16	1.54	glyceraldehyde 3-phosphate dehydrogenase GpdA
<b>Afu5g02020</b>	3.25	3.46	2	aldehyde reductase (GliO), putative
<b>Afu5g02230</b>	3.06	1.46	1.41	actin interacting protein 2
<b>Afu5g02310</b>	1.12	1.3	2.03	alpha/beta hydrolase, putative
<b>Afu5g02350</b>	2.52	3.34	3.16	hydrolase, carbon-nitrogen family, putative
<b>Afu5g02450</b>	3.18	1.83	0.57	farnesyl-pyrophosphate synthetase
<b>Afu5g02490</b>	2.02	1.4	1.52	zinc-binding oxidoreductase, putative
<b>Afu5g02510</b>	2.17	1.65	1.42	conserved hypothetical protein
<b>Afu5g02700</b>	1.13	0.55	2.23	multidrug resistant protein
<b>Afu5g02750</b>	1.39	2.13	1.9	cytochrome c oxidase subunit Va, putative
<b>Afu5g02790</b>	2.05	1.3	1.61	amino acid permease
<b>Afu5g02830</b>	1.71	1.17	2.12	NA
<b>Afu5g02840</b>	2.9	2.14	2.54	sugar transporter family protein, putative
<b>Afu5g02850</b>	3.62	4.17	4.49	conserved hypothetical protein
<b>Afu5g02930</b>	3.45	4.11	5	lysophospholipase, putative
<b>Afu5g02940</b>	3.94	3.71	2.71	choline transport protein Ctr, putative
<b>Afu5g02950</b>	3.19	2.59	2.99	conserved hypothetical protein
<b>Afu5g02960</b>	2.64	3.26	2.97	hypothetical protein
<b>Afu5g03020</b>	3.43	2.05	1.84	60s ribosomal protein l2
<b>Afu5g03030</b>	2	1.31	0.9	C6 transcription factor, putative
<b>Afu5g03080</b>	2.4	2.1	1.89	septin
<b>Afu5g03110</b>	2.3	2.54	2.13	conserved hypothetical protein
<b>Afu5g03130</b>	3.07	1.33	0.82	chromatin assembly factor 1 subunit C, putative
<b>Afu5g03380</b>	2.81	1.68	1.82	flavin dependent monooxygenase, putative
<b>Afu5g03470</b>	2.61	1.29	0.65	tRNA-guanine transglycosylases, various specificities domain protein
<b>Afu5g03490</b>	2.34	3	2.32	nucleoside diphosphate kinase

<b>Afu5g03500</b>	3.05	2.41	2.51	alpha glucosidase II, alpha subunit, putative
<b>Afu5g03540</b>	1.61	1.6	2.43	pyridine nucleotide-disulphide oxidoreductase, class II, putative
<b>Afu5g03550</b>	3.55	2.57	2.87	plasma membrane H(+)-ATPase, putative
<b>Afu5g03560</b>	2.02	1.4	0.4	glutamyl-tRNA synthetase
<b>Afu5g03750</b>	3.44	4.85	4.82	WW domain protein
<b>Afu5g03760</b>	3.22	4.36	3.62	class III chitinase ChiA1
<b>Afu5g03780</b>	0.89	2.42	4.05	L-PSP endoribonuclease family protein (Brt1), putative
<b>Afu5g03800</b>	2.8	2.26	3.08	high-affinity iron permease CaFTR2
<b>Afu5g03920</b>	2.1	0.75	0.89	bZIP transcription factor (HapX), putative
<b>Afu5g03990</b>	2.1	0.91	0.61	aspartyl aminopeptidase
<b>Afu5g04080</b>	2.57	1.44	1.43	oxidosqualene:lanosterol cyclase
<b>Afu5g04210</b>	3.14	1.61	2.07	ubiquinol-cytochrome C reductase complex core protein 2, putative
<b>Afu5g04220</b>	2.12	1.12	2.3	mitochondrial DNA replication protein (Yhm2), putative
<b>Afu5g04230</b>	2.24	1.33	1.39	citrate synthase, eukaryotic
<b>Afu5g04240</b>	2.19	0.29	0.49	RNA binding protein Nrd1, putative
<b>Afu5g04250</b>	3.67	3.38	2.73	homocysteine synthase, putative
<b>Afu5g04330</b>	2.24	1.41	2.13	aminopeptidase, putative
<b>Afu5g05810</b>	3.23	1.54	1.3	homoserine kinase
<b>Afu5g05820</b>	2.77	0.79	0.61	homoserine kinase
<b>Afu5g06300</b>	2.43	0.74	0.37	Pex3p
<b>Afu5g06420</b>	2.57	1.95	1.99	MAP kinase kinase kinase Ste11
<b>Afu5g06500</b>	3.05	2.55	2.44	acyl-CoA dehydrogenase family protein
<b>Afu5g06530</b>	2.13	1.34	1.85	CDP-diacylglycerol-glycerol-3-phosphate 3-phosphatidyltransferase
<b>Afu5g06600</b>	2.18	1.21	1.75	SNF2 family helicase/ATPase, putative
<b>Afu5g06610</b>	1.93	2.09	2.32	glutathione synthetase
<b>Afu5g06670</b>	1.74	2.75	3.23	related to L-fucose permease, putative
<b>Afu5g06680</b>	0.02	2.87	2.61	4-aminobutyrate aminotransferase
<b>Afu5g06910</b>	0.85	3.53	4.6	DUF636 domain protein
<b>Afu5g06990</b>	2.08		1.6	catecholamine-O-methyltransferase, putative
<b>Afu5g07290</b>	2.54	1.72	1.71	NADPH-dependent FMN and FAD containing oxidoreductase
<b>Afu5g07300</b>	1.91	2.56	2.87	electron transfer flavoprotein, beta subunit [imported]
<b>Afu5g07330</b>	2.92	2.53	2.68	carboxypeptidase S1, putative
<b>Afu5g07400</b>	3.13	2.48	1.93	phenylacetyl-CoA ligase PclA, putative
<b>Afu5g07550</b>	1.6		2.27	hypothetical protein
<b>Afu5g07560</b>	1.89	1.46	2.14	capsular associated protein, putative
<b>Afu5g07580</b>	1.37	1.69	2.61	methylmalonyl-CoA decarboxylase, alpha subunit, putative
<b>Afu5g07600</b>	2.46	1.28	2.04	SH2-containing inositol 5-phosphatase 2
<b>Afu5g07610</b>	1.1	2.48	3.35	NA

<b>Afu5g07620</b>	2.44	3.38	3.91	DUF1212 domain membrane protein
<b>Afu5g07630</b>	1.86	2.13	2.93	ubiE/COQ5 methyltransferase, putative
<b>Afu5g07640</b>	1.28	2.12	2.65	RNA 3'-terminal phosphate cyclase, putative
<b>Afu5g07690</b>	1.99	2.3	1.75	conserved hypothetical protein
<b>Afu5g07700</b>	-0.13	2.07	1.93	NA
<b>Afu5g07710</b>	2.04		0.98	nuclear migration protein (ApsA), putative
<b>Afu5g08050</b>	2.21	0.38	0.73	aminopeptidase P, putative
<b>Afu5g08120</b>	1.5	2.53	3.42	arginine biosynthesis bifunctional protein ArgJ
<b>Afu5g08250</b>	2.54	2.16	2.82	hypothetical protein
<b>Afu5g08610</b>	2.97	1.91	1.42	ThiF domain protein, putative
<b>Afu5g08620</b>	2.1	1.55	2.13	Ser/Thr protein phosphatase family
<b>Afu5g08630</b>	2.23	1.84	2.21	LCCL domain protein
<b>Afu5g08770</b>	2.34	1.65	2.45	hypothetical protein
<b>Afu5g08800</b>	1.24	1.58	2.93	hypothetical protein
<b>Afu5g08810</b>	0.98	2.01	3.26	epoxide hydrolase, putative
<b>Afu5g08830</b>	1.17	3.84	3.42	HEX1
<b>Afu5g08900</b>	1.73	2.65	2.46	D-arabinitol dehydrogenase ArbD, putative
<b>Afu5g08950</b>	1.26	1.62	2.03	RAS small monomeric GTPase (Rsr1), putative
<b>Afu5g08990</b>	2.68			transcription factor RfeG, putative
<b>Afu5g09020</b>	3.31	2.45	2.71	WSC domain protein, putative
<b>Afu5g09070</b>	0.89	2.31	1.67	hypothetical protein
<b>Afu5g09130</b>	3.06	3.62	3	polysaccharide deacetylase family protein
<b>Afu5g09140</b>	3.7	3.91	3.71	amidase, putative
<b>Afu5g09150</b>	3.24	2.92	2.87	oxidoreductase, short-chain dehydrogenase/reductase family
<b>Afu5g09250</b>	2.58	1.62	1.05	transcription factor (Snd1/p100), putative
<b>Afu5g09280</b>	3.17	1.77	2.87	conserved hypothetical protein
<b>Afu5g09290</b>	3.27	3.34	3.6	NAD-dependent 15-hydroxyprostaglandin dehydrogenase
<b>Afu5g09330</b>	2.5	4.46	4.26	CipC protein
<b>Afu5g09340</b>	1.77	3.41	3.21	Phospholipase/Carboxylesterase superfamily
<b>Afu5g09400</b>	4.78	4.97	4.73	carbonyl reductase, putative
<b>Afu5g09530</b>	1.64	2.22	2.41	conserved hypothetical protein
<b>Afu5g09560</b>	1.32	1.28	2.23	ankyrin repeat protein (Yar1), putative
<b>Afu5g09600</b>	2.17	2.63	2.15	2-nitropropane dioxygenase family oxidoreductase, putative
<b>Afu5g09720</b>	2.22	0.93	1.73	flavin containing polyamine oxidase, putative
<b>Afu5g09790</b>	1.93	1.63	2.37	beta-lactamase
<b>Afu5g09800</b>	1.57	2.64	3.77	hypothetical protein
<b>Afu5g09860</b>	2.2	2.5	2.25	esterase, putative
<b>Afu5g10010</b>	3.3	4.95	4.53	extracellular serine-threonine rich protein

<b>Afu5g10020</b>	3.59	3.7	4.82	sensor histidine kinase/response regulator, putative
<b>Afu5g10280</b>	2.92	2.77	2.65	oxidoreductase, acting on the CH-OH group of donors, NAD or NADP as acceptor
<b>Afu5g10290</b>	2.77	3.37	3.36	fructose-bisphosphate aldolase, putative
<b>Afu5g10320</b>	3.59	2.33	3.94	toxin biosynthesis protein (GliH), putative
<b>Afu5g10340</b>	2.83	2.22	3.32	MFS transporter, putative
<b>Afu5g10350</b>	1.65	2.15	2.53	conserved hypothetical protein
<b>Afu5g10430</b>	1.47	1.69	2.28	MSF multidrug transporter, putative
<b>Afu5g10450</b>	2.02	1.06	0.88	hypothetical protein
<b>Afu5g10460</b>	2.37	0.43	0.76	hypothetical protein
<b>Afu5g10520</b>	1.36	2.48	3.83	alpha-1,2-mannosidase family protein
<b>Afu5g10550</b>	3.13	2.16	1.66	ATP synthase F1, beta subunit, putative
<b>Afu5g10560</b>	3.43	3.56	3.31	cytochrome c oxidase subunit V
<b>Afu5g10580</b>	3.57		1.54	SH3 domain protein
<b>Afu5g10890</b>	2.39	2.47	2.79	DNA replication licensing factor Mcm6, putative
<b>Afu5g10960</b>	0.93	1.37	2.08	conserved hypothetical protein
<b>Afu5g11230</b>	2.17	1.41	1.66	RAS small monomeric GTPase Ras
<b>Afu5g11240</b>	4.23	3.84	4.06	oxidoreductase, short chain dehydrogenase/reductase family
<b>Afu5g11400</b>	2.74	2.13	2.16	mRNA cleavage factor complex II protein Clp1, putative
<b>Afu5g11430</b>	1.65	1.56	2.34	quinone oxidoreductase, putative
<b>Afu5g11440</b>	1.62	1.46	2.37	hypothetical protein
<b>Afu5g11610</b>	3.33	2.51	2.55	shk1 kinase-binding protein 1
<b>Afu5g11810</b>	0.44	2.06	1.97	cytoplasmic dynein heavy chain
<b>Afu5g11850</b>	3.49	3.48	3.83	mitochondrial carrier protein (Pet8), putative
<b>Afu5g11940</b>	2.74	1.58	1.52	beta-tubulin cofactor D, putative
<b>Afu5g12370</b>	2.91	1.69	1.55	WD repeat protein
<b>Afu5g12460</b>	2.9	1.94	2.18	2-amino-3-carboxymuconate-6-semialdehyde decarboxylase, putative
<b>Afu5g12480</b>	3.95	3.5	3.74	short chain dehydrogenase/reductase family
<b>Afu5g12620</b>	2.63	0.87	0.56	CorA family metal ion transporter, putative
<b>Afu5g12660</b>	3.18			phosphatidylinositol kinase Tel1, putative
<b>Afu5g12690</b>	3.25	3.35	3.24	dihydroxyacetone kinase (DakA), putative
<b>Afu5g12720</b>	2.22	2.3	3	ABC drug transporter, putative
<b>Afu5g12770</b>	2.88	3.38	1.89	metallo-beta-lactamase family protein
<b>Afu5g12790</b>	1.94	2.04	2.58	mitochondrial 3-hydroxyisobutyryl-CoA hydrolase, putative
<b>Afu5g12860</b>	1.48	2.51	3.49	hypothetical protein
<b>Afu5g12940</b>	0.07	0.47	2.04	arylsulfatase, putative
<b>Afu5g13000</b>	2.91	1.58	1.15	CRAL/TRIO domain protein

<b>Afu5g13060</b>	-0.65	0.58	2.16	DUF1275 domain protein
<b>Afu5g13170</b>	3.61	2.42	2.6	MATE efflux family protein subfamily, putative
<b>Afu5g13180</b>	5.53			agmatinase, putative
<b>Afu5g13300</b>	5	6.42	6.94	aspartic endopeptidase Pep1
<b>Afu5g13370</b>	2.38	1.97	1.75	mitochondrial DNA helicase (Pif1), putative
<b>Afu5g13450</b>	2.58	1.92	1.17	triosephosphate isomerase
<b>Afu5g13570</b>	1.17	1.11	2.06	conserved hypothetical protein
<b>Afu5g13640</b>	0.25	1.37	2.06	thioredoxin, putative
<b>Afu5g13800</b>	1.36	3.07	3.66	transcriptional regulator, putative
<b>Afu5g13810</b>	3.22	3.71	3.56	transulfuration enzyme family protein, putative
<b>Afu5g13920</b>	1.68	2.23	2.05	p21 protein
<b>Afu5g13940</b>	1.11	1.7	2.29	FAD dependent oxidoreductase superfamily
<b>Afu5g14060</b>	1.77	2.12	1.84	Rho GTPase Rho4, putative
<b>Afu5g14230</b>	0.86	2.08	3.11	C6 transcription factor, putative
<b>Afu5g14240</b>	1.7	2.98	4.42	ThiJ/PfpI family protein
<b>Afu5g14500</b>	2.2	2.55	3.79	MFS transporter, putative
<b>Afu5g14510</b>	2.05	3.09	4.3	beta-lactamase, putative
<b>Afu5g14530</b>	0.79	2.06	3.7	C6 transcription factor, putative
<b>Afu5g14550</b>	3.07	3.44	3.78	beta-galactosidase, putative
<b>Afu5g14660</b>	-1.68	1.03	2.4	GABA permease, putative
<b>Afu5g14680</b>	2.11	4.13	3.24	hypothetical protein
<b>Afu5g14690</b>	1.96	3.12	2.26	phosphorylase, putative
<b>Afu5g14720</b>	2.79	1.83	1.91	conserved hypothetical protein
<b>Afu5g15030</b>	2.17	1.33	1.74	arsenic resistance protein ArsH
<b>Afu6g00140</b>	1.33	1.72	2.12	hypothetical protein
<b>Afu6g00240</b>	2.6	2.8	3.42	4-hydroxyphenylpyruvate dioxygenase, putative
<b>Afu6g00260</b>	5.59	4.13	5.19	phosphatidylserine decarboxylase family protein
<b>Afu6g00290</b>	1.52	4.06	5.59	aminotransferase, putative
<b>Afu6g00300</b>	2.22	2.53	3.56	serine palmitoyltransferase 1, putative
<b>Afu6g00310</b>	0.98	3.21	4.13	serine carboxypeptidase (CpdS), putative
<b>Afu6g00430</b>	-0.12	3.83	4.2	IgE-binding protein
<b>Afu6g00580</b>	2.86	1.89	3.17	ankyrin repeat protein
<b>Afu6g00600</b>	1.61	1.9	2.54	hypothetical protein
<b>Afu6g00620</b>	3.53	4.82	4.95	GPI anchored hypothetical protein
<b>Afu6g00630</b>	5.07	5.49	6.15	MFS transporter, putative
<b>Afu6g00640</b>	4.19	4.5	5.41	integral membrane protein
<b>Afu6g00650</b>	3.14	3.42	4.05	hypothetical protein
<b>Afu6g00660</b>	2.1	0.06	0.02	conserved hypothetical protein

<b>Afu6g00680</b>	0.81	2.87	2.56	hypothetical protein
<b>Afu6g00710</b>	2.13	3.02	3.86	MFS transporter, putative
<b>Afu6g00740</b>	1.97	2.81	2.23	hypothetical protein
<b>Afu6g00750</b>	1.45	3.52	3.21	pyruvate decarboxylase, putative
<b>Afu6g01820</b>	2.79	3.05	4.55	MFS transporter, putative
<b>Afu6g01830</b>	1.59	1.98	3.34	O-methyltransferase, putative
<b>Afu6g01840</b>	1.14	2.52	2.59	C6 transcription factor, putative
<b>Afu6g01850</b>	0.51	1.31	2.32	hypothetical protein
<b>Afu6g01900</b>	0.39	1.57	2.27	hypothetical protein
<b>Afu6g01940</b>	2	1	0.22	conserved hypothetical protein
<b>Afu6g02030</b>	1.62	2.72	3.29	aminotransferase, putative
<b>Afu6g02230</b>	2.68	1.82	1.4	glucokinase GlkA, putative
<b>Afu6g02240</b>	2.37	2.09	2.18	protein kinase, putative
<b>Afu6g02260</b>	2.38	3.51	3.22	hypothetical protein
<b>Afu6g02400</b>	0.81	2.16	2.61	MFS drug efflux pump, putative
<b>Afu6g02410</b>	2.1	1.72	1.53	WD repeat protein
<b>Afu6g02470</b>	1.97	2.25	1.9	fumarate hydratase, putative
<b>Afu6g02560</b>	2.09	1.52	1.88	alpha-galactosidase
<b>Afu6g02600</b>	3.53	2.93	3.09	phosphoglycerate mutase family protein
<b>Afu6g02610</b>	2.32	1.44	1.45	conserved hypothetical protein
<b>Afu6g02750</b>	1.64	2.13	1.32	nascent polypeptide-associated complex (NAC) subunit, putative
<b>Afu6g02850</b>	0.49	1.42	2.2	C6 finger domain protein, putative
<b>Afu6g02890</b>	2.25	1.8	2.05	hypothetical protein
<b>Afu6g02910</b>	2.34	1.78	2.09	acetylglutamate kinase, putative
<b>Afu6g02940</b>	2.2	2.19	2.38	chitin synthase activator (Chs3), putative
<b>Afu6g02980</b>	2.81	2.24	0.32	extracellular exo-polygalacturonase, putative
<b>Afu6g03040</b>	2.66	1.76	2.13	MSF multidrug transporter, putative
<b>Afu6g03060</b>	3.5	4.2	4.15	monosaccharide transporter
<b>Afu6g03100</b>	0.28	1.44	2.02	hypothetical protein
<b>Afu6g03170</b>	3.76	4.93	5.49	NA
<b>Afu6g03180</b>	3.47	4.57	5.01	hypothetical protein
<b>Afu6g03190</b>	1.93	4.63	5.31	hypothetical protein
<b>Afu6g03200</b>	1.62	4.06	4.38	solute symporter family transporter
<b>Afu6g03230</b>	0.82	2.97	2.07	cell wall glucanase, putative
<b>Afu6g03260</b>	1.85	2.17	2.49	aspartic endopeptidase (AP1), putative
<b>Afu6g03340</b>	1.15	2.58	2.82	hypothetical protein
<b>Afu6g03350</b>	-1.74	0.69	2.16	acetyltransferase, GNAT family, putative
<b>Afu6g03420</b>	3.05	3.43	3.37	trehalose synthase, putative

<b>Afu6g03470</b>	0.32	2.25	3.42	ABC multidrug transporter, putative
<b>Afu6g03510</b>	0.72	1.36	2.13	polyamine oxidase, putative
<b>Afu6g03520</b>	3.07	2.57	2.79	short-chain dehydrogenase/reductase family protein, putative
<b>Afu6g03560</b>	0.98	1.86	2.09	IgE-binding protein, putative
<b>Afu6g03570</b>	2.7	2.94	3.56	beta-glucosidase 3
<b>Afu6g03590</b>	2.12	2.76	2.57	methylcitrate synthase
<b>Afu6g03600</b>	2.18	2.75	2.28	integral membrane protein (Pth11), putative
<b>Afu6g03680</b>	2.1	3.89	4.01	hypothetical protein
<b>Afu6g04040</b>	1.89	2.61	2.48	peroxisomal D3,D2-enoyl-CoA isomerase
<b>Afu6g04250</b>	2.7	3.35	3.33	Protein required for hyphal anastomosis
<b>Afu6g04270</b>	4.39	2.49	2.59	fructose symporter
<b>Afu6g04380</b>	2.07	0.32	-0.11	molecular chaperone (ABC1), putative
<b>Afu6g04570</b>	2.17	0.66	0.5	elongation factor 1-gamma 2
<b>Afu6g04740</b>	2.28	1.29	1.15	actin, putative
<b>Afu6g04800</b>	2.35	2.8	2.79	lysine decarboxylase-like protein
<b>Afu6g04900</b>	2.58	2.1	1.95	sucrose cleavage family protein
<b>Afu6g04920</b>	3.31	3.59	3.08	NAD-dependent formate dehydrogenase
<b>Afu6g05000</b>	2	1.33	0.88	Glycosyl hydrolases family 32 superfamily
<b>Afu6g05030</b>	2.62	3.8	3.65	polysaccharide deacetylase family protein
<b>Afu6g05130</b>	2.49	2.28	2.54	snRNA cap binding complex subunit (Gcr3), putative
<b>Afu6g05210</b>	2.35	2.32	2.45	malate dehydrogenase, NAD-dependent
<b>Afu6g06360</b>	-0.81	-0.31	2.26	mating alpha-pheromone PpgA
<b>Afu6g06460</b>	2.17	2.23	3.08	fumarylacetoacetate hydrolase family protein
<b>Afu6g06690</b>	2.52	2.66	3.03	CFEM domain protein, putative
<b>Afu6g06700</b>	0.64	1.38	2.17	hypothetical protein
<b>Afu6g06770</b>	3.62	2.67	2.26	enolase
<b>Afu6g06870</b>	0.29	1.21	2.44	casein kinase I homolog, putative
<b>Afu6g07120</b>	0.65	1.8	2.04	nuclear movement protein
<b>Afu6g07340</b>	2.99	2.34	2.13	kynurenine 3-monooxygenase
<b>Afu6g07380</b>	2.01	1.43	0.41	conserved hypothetical protein
<b>Afu6g07430</b>	3.17	1.85	1.76	pyruvate kinase
<b>Afu6g07490</b>	3.81	2.55	2.69	WD repeat protein
<b>Afu6g07540</b>	3.07	1.79	2.46	t-complex protein 1, epsilon subunit, putative
<b>Afu6g07560</b>	2.87	2.63	2.3	hypothetical protein
<b>Afu6g07610</b>	1.8	1.75	2.12	hypothetical protein
<b>Afu6g07620</b>	3.07	3.28	3.38	GDP-mannose pyrophosphorylase A
<b>Afu6g07640</b>	2.74	1.86	1.93	lysyl-tRNA synthetase
<b>Afu6g07670</b>	2.23	0.88	0.42	cytochrome c oxidase assembly protein cox15

<b>Afu6g07740</b>	1.72	1.68	2.12	peroxisomal biogenesis factor (PEX11), putative
<b>Afu6g07750</b>	2.8	3.51	3.32	MFS phospholipid transporter (Git1), putative
<b>Afu6g07760</b>	3.31	2.28	1.74	proteasome regulatory particle subunit (RpnG), putative
<b>Afu6g07770</b>	2.63	2.6	3.25	alanine aminotransferase, putative
<b>Afu6g08000</b>	2	2.18	2.75	general amidase
<b>Afu6g08050</b>	2.6	1.25	0.63	6-phosphogluconate dehydrogenase, decarboxylating
<b>Afu6g08160</b>	1.38	2.3	2.51	MOSC domain protein
<b>Afu6g08440</b>	2.88	2.71	2.73	protoporphyrinogen oxidase, putative
<b>Afu6g08470</b>	1.85	1.76	3.12	glycerol kinase, putative
<b>Afu6g08490</b>	-0.36	1.25	3.4	inorganic diphosphatase, putative
<b>Afu6g08610</b>	1.54	2.09	1.63	RNA methylase family protein, putative
<b>Afu6g08620</b>	2.42	2.15	1.78	Golgi reassembly stacking protein, putative
<b>Afu6g08640</b>	1.88	1.7	2.66	metallopeptidase Mip1
<b>Afu6g08660</b>	2.76	3.08	3.52	hypothetical protein
<b>Afu6g08700</b>	0.29	2.5	2.68	beta glucosidase, putative
<b>Afu6g08710</b>	1.79	2.62	3.43	alkaline phosphatase, putative
<b>Afu6g08840</b>	1.41	2.15	2.42	beta-mannosidase
<b>Afu6g09260</b>	2.18	1.87	2.69	sensor histidine kinase/response regulator, putative
<b>Afu6g09420</b>	1.84	1.04	2.36	conserved hypothetical protein
<b>Afu6g09720</b>	0.01		2.24	methyltransferase GliN
<b>Afu6g09730</b>	1.82	1.16	2.29	cytochrome P450 oxidoreductase GliF
<b>Afu6g09860</b>	1.18	2.63	2.99	hypothetical protein
<b>Afu6g09880</b>	1.36	0.88	2.11	monocarboxylate transporter-like protein
<b>Afu6g09910</b>	2.68	2.57	3.36	glutaminase A
<b>Afu6g09970</b>	1.25	2.16	2.75	oxidoreductase, short chain dehydrogenase/reductase family
<b>Afu6g09990</b>	2.3	1.11	1.71	importin beta-4 subunit, putative
<b>Afu6g10060</b>	1.35	2.07	1.45	F-actin capping protein alpha-1 subunit
<b>Afu6g10070</b>	0.89	1.74	2.11	PEX11 domain protein
<b>Afu6g10080</b>	1.5	3.24	3.55	conserved hypothetical protein
<b>Afu6g10090</b>	2.3	2.92	3.48	D-isomer specific 2-hydroxyacid dehydrogenase family protein
<b>Afu6g10100</b>	1.88	2.24	3.89	related to monocarboxylate transporter, putative
<b>Afu6g10130</b>	0.29	1.08	2.12	N,O-diacetyl muramidase, putative
<b>Afu6g10160</b>	1.88	2.42	3.31	hypothetical protein
<b>Afu6g10210</b>	2.56	2.66	2.83	guanine deaminase, putative
<b>Afu6g10220</b>	2.22	2.47	2.56	small oligopeptide transporter, OPT family
<b>Afu6g10260</b>	2	1.37	0.46	aldehyde reductase (AKR1), putative
<b>Afu6g10340</b>	3.12	3.01	3.89	hypothetical protein
<b>Afu6g10440</b>	2.05	1.69	0.57	hypothetical protein

<b>Afu6g10450</b>	2.25	2.67	1.32	hypothetical protein
<b>Afu6g10660</b>	4.05	2.85	2.64	ATP-citrat-lyase
<b>Afu6g10880</b>	2.17	2.38	1.43	acyl-CoA dehydrogenase, putative
<b>Afu6g11020</b>	3.02	3.48	3.76	3-hydroxyisobutyrate dehydrogenase
<b>Afu6g11190</b>	1.46	1.48	2.01	protein kinase (VPS15), putative
<b>Afu6g11210</b>	1.02	2.3	2.59	3-oxoacyl-(acyl-carrier-protein) reductase
<b>Afu6g11330</b>	2.17	2.6	3.13	histidine acid phosphatase, putative
<b>Afu6g11340</b>	3.86	3	3.75	peroxisomal AMP binding enzyme, putative
<b>Afu6g11420</b>	2.46	3.21	3.66	conserved hypothetical protein
<b>Afu6g11490</b>	2.64	2.95	3.42	NUDIX domain protein
<b>Afu6g11500</b>	2.55	3.15	3.87	dipeptidase, putative
<b>Afu6g11680</b>	1.88	2.27	3.52	thiamine pyrophosphate enzyme, putative
<b>Afu6g11700</b>	2.49	0.97	0.63	hypothetical protein
<b>Afu6g11720</b>	2.32	1.59	2.59	hypothetical protein
<b>Afu6g11860</b>	2.18	0.57	0.91	hypothetical protein
<b>Afu6g11880</b>	1.59	1.3	2.29	conserved hypothetical protein
<b>Afu6g12030</b>	2.79	0.82	1.88	putative rhamnosidase
<b>Afu6g12040</b>	2.26	1.5	2.02	maltose permease, putative
<b>Afu6g12110</b>	0.91	1.15	2.82	salicylate synthetase, putative
<b>Afu6g12120</b>	1.52	2.83	3.81	BNR/Asp-box repeat domain protein
<b>Afu6g12130</b>	0.22	0.84	2.33	C6 transcription factor, putative
<b>Afu6g12150</b>	0.35	1.07	2.05	bZIP transcription factor (Atf7), putative
<b>Afu6g12160</b>	2.92	2.24	1.72	C6 transcription factor, putative
<b>Afu6g12170</b>	0.04	2.09	1.04	FKBP-type peptidyl-prolyl isomerase, putative
<b>Afu6g12180</b>	3.53	2.48	1.77	conserved hypothetical protein
<b>Afu6g12230</b>	1.77	1.95	2.03	conserved hypothetical protein
<b>Afu6g12250</b>	2.86	3.02	3.4	succinyl-CoA:3-ketoacid-coenzyme A transferase (ScoT), putative
<b>Afu6g12300</b>	2.4	1.57	2.54	RNP domain protein
<b>Afu6g12390</b>	2.32	0.91	0.73	serine palmitoyl CoA transferase subunit LcbA
<b>Afu6g12400</b>	2.72	2.16	2.27	1,3-beta-glucan synthase catalytic subunit FksP
<b>Afu6g12420</b>	0.97	2.65	2.32	SprT family metallopeptidase, putative
<b>Afu6g12550</b>	2.8	1.23	0.5	mitochondrial carrier protein, putative
<b>Afu6g12580</b>	2.81	2.58	2.99	anthranilate synthase component I
<b>Afu6g12670</b>	4.46	3.37	3.74	beta-alanine synthase, putative
<b>Afu6g12680</b>	0.62	2.26	1.36	HIT domain protein
<b>Afu6g12700</b>	2.05	1.46	1.25	hypothetical protein
<b>Afu6g12760</b>	2.53	2.93	3.44	GPI transamidase component (GAA1), putative
<b>Afu6g12790</b>	3.03	2.56	2.1	NADH-ubiquinone oxidoreductase 39 kDa subunit, putative

<b>Afu6g12880</b>	1.81	1.76	2.24	hypothetical protein
<b>Afu6g13160</b>	3.01	2.79	2.21	serine/threonine protein kinase, putative
<b>Afu6g13400</b>	1.23	2.93	2.35	arsenate reductase (Arc2), putative
<b>Afu6g13590</b>	3.29	2.58	2.93	3-isopropylmalate dehydrogenase
<b>Afu6g13610</b>	0.05	1.16	2.39	endo-1,4-beta-xylanase, putative
<b>Afu6g13700</b>	1.5	2.82	3.13	hypothetical protein
<b>Afu6g13710</b>	3.26	3.13	3.79	hypothetical protein
<b>Afu6g13750</b>	0.84	2.39	2.03	ferric-chelate reductase, putative
<b>Afu6g13760</b>	0.98	1.48	2.2	alpha-1,2-mannosidase, putative subfamily
<b>Afu6g13790</b>	0.93	1.03	2.12	monooxygenase
<b>Afu6g13830</b>	2.23	2.29	3.37	oxidoreductase, short chain dehydrogenase/reductase family
<b>Afu6g13850</b>	0.81	1.86	2.98	GTPase activating protein (Evi5), putative
<b>Afu6g13900</b>	2.83	1.6	1.54	conserved hypothetical protein
<b>Afu6g14010</b>	2.71	4.77	4.44	GPI anchored protein, putative
<b>Afu6g14020</b>	1.9	3.14	3.02	conserved hypothetical protein
<b>Afu6g14040</b>	2.21	2	1.92	glycosyl transferase, putative
<b>Afu6g14050</b>	1.14	1.66	2.05	FAD binding domain protein
<b>Afu6g14060</b>	1.09	3.35	3.83	hypothetical protein
<b>Afu6g14090</b>	2.35	1.94	0.9	CFEM domain protein, putative
<b>Afu6g14180</b>	2.76	2.31	2.18	beta-1,4-mannosyltransferase (Alg1), putative
<b>Afu6g14330</b>	1.91	2.59	2.63	5-oxo-L-prolinase, putative
<b>Afu6g14390</b>	0.43	2	3.51	extracellular cellulose binding protein (Cip2), putative
<b>Afu6g14400</b>	2.27	1.55	2.87	conserved hypothetical protein
<b>Afu6g14410</b>	2.54	1.1	1.37	amidase family protein
<b>Afu6g14420</b>	0.55	2.1	2.17	disintegrin-like metalloproteinase, putative
<b>Afu6g14440</b>	3.73	5.03	5.13	MFS monosaccharide transporter, putative
<b>Afu6g14480</b>	2.04	3.48	5.04	alpha-1,3-mannosyltransferase, putative
<b>Afu6g14490</b>	0.33	2.09	2.85	beta-glucosidase, putative
<b>Afu6g14500</b>	0.16	3.16	4.71	MFS sugar transporter, putative
<b>Afu6g14510</b>	3.01	2.85	2.83	monooxygenase, putative
<b>Afu6g14530</b>	1.47	3.23	4.07	L-cystine transporter, putative
<b>Afu7g00380</b>	1.18	4.27	4.63	GNAT family acetyltransferase, putative
<b>Afu7g00540</b>	0.7	2.13	2.2	integral membrane protein
<b>Afu7g00550</b>	2.93	2.25	3.2	NACHT and WD40 domain protein
<b>Afu7g00690</b>	0.53	0.09	2.22	aminotransferase, putative
<b>Afu7g00700</b>	2.11	2.3	3.05	aldo-keto reductase (AKR13), putative
<b>Afu7g00710</b>	2.01	3.24	1.89	oxalate/formate antiporter, putative
<b>Afu7g00780</b>	-0.67	1.05	2.59	MFS monocarboxylate transporter, putative

<b>Afu7g00820</b>	0.84	2.23	3.15	hypothetical protein
<b>Afu7g00850</b>	1.61	3.07	3.68	acetyltransferase, GNAT family, putative
<b>Afu7g00910</b>	2.91	2.02	3.27	peptide transporter MTD1
<b>Afu7g01000</b>	0.52	1.71	2	aldehyde dehydrogenase, putative
<b>Afu7g01010</b>	-0.61	1.03	2.59	alcohol dehydrogenase, putative
<b>Afu7g01070</b>	0.22	1.58	2.28	endo-1,4-beta-mannosidase
<b>Afu7g01090</b>	1.87	3.67	4.2	proline permease
<b>Afu7g01160</b>	0.53	2.01	0.86	cytochrome P450 alkane hydroxylase, putative
<b>Afu7g01180</b>	1	1.18	2.04	extracellular lipase, putative
<b>Afu7g01240</b>	1.08	2.95	4.03	phytase, putative
<b>Afu7g01300</b>	1.77	2.23	2.9	mannosyltransferase (PIG-M), putative
<b>Afu7g01310</b>	2.29	1.77	2.08	C6 transcription factor, putative
<b>Afu7g01460</b>	3.08	1.52	1.99	ribosomal protein S5
<b>Afu7g01530</b>	2	0.94	0.22	fadD36
<b>Afu7g01590</b>	3.06	2.74	2.59	cystathionine gamma-synthase
<b>Afu7g01600</b>	2.83	2.22	2.24	hypothetical protein
<b>Afu7g01680</b>	1.13	2.27	2.65	hypothetical protein
<b>Afu7g01690</b>	1.99	3.58	3.5	acetamidase
<b>Afu7g01720</b>	2.34	0.33	0.4	3-hydroxymethyl-3-methylglutaryl-Coenzyme A lyase
<b>Afu7g01740</b>	0.86	2.84	3.97	sugar transporter, putative
<b>Afu7g01860</b>	2.19	3.22	2.64	heat shock protein (Sti1), putative
<b>Afu7g01880</b>	2.66	1.8	1.05	nicotinate phosphoribosyltransferase
<b>Afu7g01930</b>	0.71	2.03	2.54	sexual development protein ESDC, putative
<b>Afu7g02180</b>	3.18	2.07	2.63	UDP-N-acetylglucosamine pyrophosphorylase
<b>Afu7g02340</b>	0.75	3.33	3.13	L-PSP endoribonuclease family protein (Hmf1), putative
<b>Afu7g03970</b>	2.68	2.81	2.94	hypothetical protein
<b>Afu7g03990</b>	2.17	1.84	2.09	uridylyl transferase
<b>Afu7g04010</b>	2.03	1.04	0.57	conserved hypothetical protein
<b>Afu7g04070</b>	2.21	0.77	1.16	phospho-2-dehydro-3-deoxyheptonate aldolase
<b>Afu7g04110</b>	2.33	1.53	0.75	protein kinase C substrate, putative
<b>Afu7g04180</b>	2.52	2.58	2.8	amine oxidase
<b>Afu7g04190</b>	2.32	0.55	0.32	cyclopropane-fatty-acyl-phospholipid synthase, putative
<b>Afu7g04280</b>	-0.09	2.05	2.25	small nuclear ribonucleoprotein (LSM5), putative
<b>Afu7g04500</b>	3.48	3.46	3.84	ATP phosphoribosyltransferase
<b>Afu7g04570</b>	3.02	5.42	5.33	Na/K ATPase alpha 1 subunit, putative
<b>Afu7g04580</b>	2.39	3.23	3.8	TBC domain protein, putative
<b>Afu7g04600</b>	2.26	1.64	1.77	Rho guanyl nucleotide exchange factor, putative
<b>Afu7g04690</b>	0.98	1.25	2.04	FAD dependent sulfhydryl oxidase Erv2, putative

<b>Afu7g04720</b>	2.43	2.91	3.49	alpha-1,2-mannosidase, putative
<b>Afu7g04730</b>	5.74	6.46	6.78	siderochrome-iron transporter, putative
<b>Afu7g04760</b>	2.43	2.72	3.06	gamma-glutamyltranspeptidase
<b>Afu7g04800</b>	1.56	2.34	2.75	hypothetical protein
<b>Afu7g04820</b>	2.2	1.3	1.44	C6 transcription factor, putative
<b>Afu7g04900</b>	0.99	1.93	2.15	MSF multidrug transporter, putative
<b>Afu7g04910</b>	4.74	6.5	5.6	phosphatidylglycerol specific phospholipase C, putative
<b>Afu7g04960</b>	-0.01	1.37	3.11	N-acetyltransferase, GNAT family, putative
<b>Afu7g04970</b>	0.96	2.52	2.35	metalloreductase, putative
<b>Afu7g05070</b>	3.32	2.76	3.34	FAD dependent oxidoreductase, putative
<b>Afu7g05080</b>	3.13	3.19	3.44	C6 transcription factor, putative
<b>Afu7g05090</b>	3.35	3.41	4.51	glucuronyl hydrolase, putative
<b>Afu7g05100</b>	1.85	3.71	5.05	hexose transporter protein
<b>Afu7g05130</b>	1.44	1.74	2.07	O-methyltransferase
<b>Afu7g05150</b>	4.25	3.67	4.97	hypothetical protein
<b>Afu7g05160</b>	1.48	1.4	2.78	fumarylacetoacetate hydrolase family protein
<b>Afu7g05300</b>	2.48	3.29	3.46	hypothetical protein
<b>Afu7g05370</b>	3.52	2.83	2.35	septin AspB
<b>Afu7g05410</b>	2.18	1.68	1.56	thiamine pyrophosphokinase
<b>Afu7g05440</b>	2.08	0.98	0.94	TOS4, putative
<b>Afu7g05450</b>	3.96	5.03	5.08	SUN domain protein (Uth1), putative
<b>Afu7g05470</b>	2.17	2.55	2.5	electron transfer flavoprotein alpha subunit, putative
<b>Afu7g05550</b>	3.76	3.81	4.43	sugar transporter family protein
<b>Afu7g05610</b>	1.71	2.81	3.07	glucanase, putative
<b>Afu7g05690</b>	2.2	1.71	2.12	NA
<b>Afu7g05720</b>	3.56	2.01	1.79	pyruvate dehydrogenase complex, dihydrolipoamide acetyltransferase component, putative
<b>Afu7g06080</b>	2.12	2.79	2.69	ubiE/COQ5 methyltransferase, putative
<b>Afu7g06140</b>	2.27	5.21		beta-D-glucoside glucohydrolase
<b>Afu7g06160</b>	0.6	2.7	3.62	hypothetical protein
<b>Afu7g06360</b>	-0.23	1.33	2.04	hypothetical protein
<b>Afu7g06380</b>	5.81	7.05	6.43	maltase
<b>Afu7g06390</b>	4.16	5.05	5.54	maltose permease
<b>Afu7g06520</b>	2.13	1.48	1.81	CAIB/BAIF family enzyme
<b>Afu7g06680</b>	1.41	2.47	4.27	AAA family ATPase, putative
<b>Afu7g06740</b>	0.44	1.34	2.43	endoglucanase, putative
<b>Afu7g06750</b>	2.79	5.26	5.42	phosphoglycerate mutase family protein, putative
<b>Afu7g06760</b>	3	2.67	2.8	CRAL/TRIO domain protein

<b>Afu7g06770</b>	2.97	2.06	1.33	hypothetical protein
<b>Afu7g06810</b>	3.93	5.21	5.51	L-amino acid oxidase LaoA, putative
<b>Afu7g06820</b>	0.52	0.75	2.03	galactose oxidase, putative
<b>Afu7g08530</b>	2.58	4.09	3.47	hypothetical protein
<b>Afu7g08540</b>	2.99	1.8	1.59	ankyrin repeat protein
<b>Afu8g00110</b>	2.08	1.72	3.05	oxidoreductase, 2OG-Fe(II) oxygenase family, putative
<b>Afu8g00240</b>	0.63	1.36	2.51	cytochrome P450 monooxygenase, putative
<b>Afu8g00280</b>	0.59	1.14	2.04	short-chain dehydrogenase, putative
<b>Afu8g00370</b>	-0.4	0.65	2.97	polyketide synthase, putative
<b>Afu8g00390</b>	-0.14		2.03	O-methyltransferase, putative
<b>Afu8g00420</b>	-1.42	0.45	2.97	C6 finger transcription factor, putative
<b>Afu8g00430</b>	-1.7	0.1	2.87	conserved hypothetical protein
<b>Afu8g00500</b>			2.35	acetate-CoA ligase, putative
<b>Afu8g00540</b>	0.92	2.12	5.52	hybrid polyketide synthase/nonribosomal peptide synthase, putative
<b>Afu8g00550</b>		1.4	4.92	SirN-like methyltransferase, putative
<b>Afu8g00560</b>	1.32	1.97	4.67	cytochrome P450, putative
<b>Afu8g00570</b>	1.44	0.94	2.55	alpha/beta hydrolase, putative
<b>Afu8g00610</b>	0.46	3.46	3.28	cell surface protein Mas1, putative
<b>Afu8g00640</b>	2.36	1.79	2.2	glycosyl transferase, putative
<b>Afu8g00700</b>	0.79	1.12	2.06	class III chitinase ChiA2
<b>Afu8g00720</b>	2.42	2.14	2.39	amino acid transporter, putative
<b>Afu8g00760</b>	1.47	3.03	3.37	cytochrome P450, putative
<b>Afu8g00770</b>	3.38	5.56	5.39	sugar transporter family protein
<b>Afu8g00790</b>	2.02	3.87	2.91	hypothetical protein
<b>Afu8g00840</b>	1.25	2.08	2.5	amino acid permease, putative
<b>Afu8g00850</b>	2.74	3.66	3.75	dihydroorotase, homodimeric type
<b>Afu8g00890</b>	2.8	1.65	2.94	glucose transporter
<b>Afu8g00910</b>	-0.24	0.51	2.24	conserved hypothetical protein
<b>Afu8g00980</b>	0.07	1.78	2.31	hypothetical protein
<b>Afu8g01030</b>	1.34	1.51	2.65	hypothetical protein
<b>Afu8g01160</b>	2.84	3.37	3.84	tartrate dehydrogenase, putative
<b>Afu8g01580</b>	3.63	4.33	4.68	aminotransferase, classes I and II family
<b>Afu8g01670</b>	0.86	1.89	2.04	bifunctional catalase-peroxidase Cat2
<b>Afu8g01710</b>	3.8	4.74	5.37	antigenic thaumatin domain protein, putative
<b>Afu8g01780</b>	3.07	3.59	3.84	nitrilase, putative
<b>Afu8g01850</b>	-1.36	1.55	2.27	phosphate-repressible phosphate permease
<b>Afu8g01920</b>	-0.05	2.95	2.4	hypothetical protein
<b>Afu8g01970</b>	1.21	2.14	1.93	extracellular endo-polygalacturonase, putative

<b>Afu8g02010</b>	1.88	1.95	2.36	MFS sugar transporter, putative
<b>Afu8g02030</b>	2.43	3.35	4.01	conserved hypothetical protein
<b>Afu8g02090</b>	0.4	2.57	2.87	nucleotide-sugar transporter family protein
<b>Afu8g02200</b>	1.26	3.74	4.18	proline permease
<b>Afu8g02440</b>	1.34	3.15	3.12	C-4 methyl sterol oxidase, putative
<b>Afu8g02450</b>	-0.87	2.27	2.72	hypothetical protein
<b>Afu8g02550</b>	-0.71	2.6	2.46	Ptr2-like MFS peptide transporter, putative
<b>Afu8g02560</b>	-0.53	0.96	2.94	glyceraldehyde-3-phosphate dehydrogenase, putative
<b>Afu8g02610</b>	1.94	1.56	2.13	cytochrome P450 monooxygenase, putative
<b>Afu8g02620</b>	2.68	2.22	2.5	CobW domain protein
<b>Afu8g02760</b>	2.05	1.86	2.76	mitochondrial ornithine carrier protein (AmcA), putative
<b>Afu8g04000</b>	3.17	2.85	3.26	acetyl-coa acetyltransferase
<b>Afu8g04370</b>	3.07	2.34	3.15	GPI anchored protein, putative
<b>Afu8g04380</b>	2.95	3.51	3.65	conserved hypothetical protein
<b>Afu8g04430</b>	2.55	1.84	0.57	oligosaccharyl transferase subunit (Stt3), putative
<b>Afu8g04480</b>	0.71	3.49	4.17	hexose transporter protein
<b>Afu8g04650</b>	0.92	2	2.29	3-hydroxyanthranilate 3,4-dioxygenase
<b>Afu8g04670</b>	2.04	1.51	1.26	serine/threonine protein kinase, putative
<b>Afu8g04700</b>	2.59	4.27	3.95	conserved hypothetical protein
<b>Afu8g04710</b>	2.99	4.33	4.65	xylosidase
<b>Afu8g05040</b>	0.27	2.1	2.6	dihydrodipicolinate synthetase family protein
<b>Afu8g05080</b>	2.5	2.2	2.05	hypothetical protein
<b>Afu8g05280</b>	2.05	2.69	1.75	QDE2 protein
<b>Afu8g05310</b>	0.35	2.12	1.36	DUF962 domain protein
<b>Afu8g05320</b>	3.25	2.1	2.35	mitochondrial F1 ATPase subunit alpha, putative
<b>Afu8g05440</b>	2.41	2.14	2.09	mitochondrial ATPase subunit ATP4, putative
<b>Afu8g05530</b>	2.62	2.31	2.08	soluble fumarate reductase (Osm1), putative
<b>Afu8g05570</b>	2.46	1.78	1.83	transcription factor (Sin3), putative
<b>Afu8g05610</b>	3.5	4.71	4.51	cell wall glucanase (Scw11), putative
<b>Afu8g05630</b>	1.48	2.04	1.73	chitin synthase F
<b>Afu8g05680</b>	1.6	2.73	2.97	serine/threonine protein kinase, putative
<b>Afu8g05690</b>	0.62	2.5	2.83	acetyltransferase, GNAT family family
<b>Afu8g05710</b>	3.54	1.71	2.44	MFS sugar transporter St11, putative
<b>Afu8g05760</b>	2.07	1.35	1.49	dehydrogenase
<b>Afu8g05800</b>	-0.24	3	2.07	C6 finger domain protein, putative
<b>Afu8g05850</b>	2.69	3.18	3.56	FAD dependent oxidoreductase superfamily
<b>Afu8g05970</b>	2.3	1.48	2.1	TRI7, putative
<b>Afu8g06090</b>	0.01	1.45	2.58	amino acid permease, putative

<b>Afu8g06130</b>	1.65	1.63	2.29	FluG family protein
<b>Afu8g06160</b>	2.63		0.44	conserved hypothetical protein
<b>Afu8g06410</b>	2.27	1.81	2.48	MFS multidrug transporter, putative
<b>Afu8g06440</b>	-0.27	1.71	2.74	fructosyl amino acid oxidase, putative
<b>Afu8g06460</b>	0.01	2.14	2.6	C6 transcription factor, putative
<b>Afu8g06470</b>	1.16	3.97	4.75	N,N-dimethylglycine oxidase
<b>Afu8g06560</b>	1.54	3.5	4.56	DUF895 domain membrane protein
<b>Afu8g06570</b>	-0.2	2.68	4.31	acetyl xylan esterase, putative
<b>Afu8g06580</b>	0.43	2.62	3.91	GABA permease
<b>Afu8g06590</b>	-0.13	2.54	3.53	hypothetical protein
<b>Afu8g06680</b>		1.87	2.3	acyl-CoA thioesterase
<b>Afu8g06700</b>	1.45	2.26	1.72	annexin ANXC3.1
<b>Afu8g06760</b>	2.96	2.97	3.69	integral membrane protein
<b>Afu8g06770</b>	3.27	3.8	4.17	conserved hypothetical protein
<b>Afu8g06850</b>	0.26	0.97	2.3	conserved hypothetical protein
<b>Afu8g06870</b>	3.03	3.23	3.25	MFS sugar transporter, putative
<b>Afu8g06930</b>	3.18	1.65	1.3	C6 transcription factor, putative
<b>Afu8g07030</b>	2.25	1.55	2.31	endo-1,4-beta-mannosidase, putative
<b>Afu8g07080</b>	-0.46	3.24	-0.25	elastolytic metalloproteinase Mep
<b>Afu8g07090</b>	3.11	5.75	5.99	extracellular proline-serine rich protein
<b>Afu8g07240</b>	3.27	3.05	3.62	MFS maltose permease, putative
<b>Afu8g07320</b>	0.07	0.9	2.21	hypothetical protein

**Table AD.2.1: List of up-regulated genes in the ATCC46645 *ApacC* time course.** Genes significantly up-regulated were included if showing a fold change of +2 on a log<sub>2</sub> scale at least in one of the time point datasets. T0 vs T4 = 4 hrs, T0 vs T8 hrs = 8 hrs, T0 vs T16 = 16 hrs.

ORFs	T4 vs T0	T8 vs T0	T16 vs T0	Annotation	Functional classification
Afu4g13880	4.11	1.84	0.85	ankyrin repeat protein	
Afu5g10580	3.57		1.54	SH3 domain protein	
Afu3g13320	3.47	1.88	1.33	40S ribosomal protein S0, putative	structural constituent of ribosome///ribosomal small subunit assembly///translation///cytosolic small ribosomal subunit (sensu Eukaryota)
Afu5g05810	3.23	1.54	1.3	homoserine kinase	
Afu5g12660	3.18			phosphatidylinositol kinase Tell, putative	inositol or phosphatidylinositol kinase activity///telomere maintenance via telomerase///nucleus///response to DNA damage stimulus

Afu5g02450	3.18	1.83	0.57	farnesyl-pyrophosphate synthetase	isoprenoid biosynthetic process///cytosol///farnesyl diphosphate biosynthetic process///geranyltranstransferase activity///dimethylallyltranstransferase activity///ergosterol biosynthetic process
Afu8g06930	3.18	1.65	1.3	C6 transcription factor, putative	
Afu6g07430	3.17	1.85	1.76	pyruvate kinase	cytosol///pyruvate metabolic process///pyruvate kinase activity///glycolysis
Afu7g01460	3.08	1.52	1.99	ribosomal protein S5	structural constituent of ribosome///regulation of translational fidelity///translation///cytosolic small ribosomal subunit (sensu Eukaryota)
Afu5g03130	3.07	1.33	0.82	chromatin assembly factor 1 subunit C, putative	chromatin silencing at telomere///H3/H4 histone acetyltransferase activity///chromatin assembly or disassembly///cytoplasm///nucleus
Afu5g02230	3.06	1.46	1.41	actin interacting protein 2	D-lactate dehydrogenase (cytochrome) activity///mitochondrial matrix///biological process unknown
Afu4g11340	3.04	1.76	1.32	saccharopine dehydrogenase	lysine biosynthetic process via amino adipic acid///"saccharopine dehydrogenase (NADP+, L-glutamate-forming) activity"///"saccharopine dehydrogenase (NAD+, L-lysine-forming) activity"///cytoplasm///lysine biosynthetic process
Afu1g06960	3.02	1.46	1.28	pyruvate dehydrogenase complex alpha subunit, putative	pyruvate dehydrogenase (acetyl-transferring) activity///pyruvate dehydrogenase complex///pyruvate metabolic process///mitochondrion
Afu4g13390	2.99	1.79	1.53	actin-related protein ArpA	sporulation (sensu Saccharomyces)///mitochondrion inheritance///budding cell apical bud growth///protein secretion///actin filament reorganization during cell cycle///exocytosis///structural constituent of cytoskeleton///endocytosis///histone acetyltransferase complex///cell wall organization///establishment of mitotic spindle orientation///response to osmotic stress///regulation of transcription from RNA polymerase II promoter///vacuole inheritance///vesicle transport along actin filament///cytokinesis///actin filament///histone acetylation///budding cell isotropic bud growth
Afu7g08540	2.99	1.8	1.59	ankyrin repeat protein	
Afu1g03920	2.99	1.05	0.97	DNA replication licensing factor Mcm3, putative	pre-replicative complex///DNA replication initiation///chromatin binding///cytoplasm///DNA

					unwinding during replication///ATP-dependent DNA helicase activity///nucleus///pre-replicative complex assembly
Afu5g08610	2.97	1.91	1.42	ThiF domain protein, putative	biological process unknown///coenzyme binding
Afu3g04170	2.94	1.5	1.67	pyruvate dehydrogenase E1 beta subunit, putative	pyruvate dehydrogenase (acetyl-transferring) activity///pyruvate dehydrogenase complex///pyruvate metabolic process///mitochondrion///binding
Afu1g12840	2.93	1.23	1.03	nitrite reductase	nitrate assimilation///nitrite reductase (NO-forming) activity
Afu2g17000	2.92		1.27	PT repeat family protein	
Afu2g02100	2.91	1.89	1.76	dihydrolipoamide dehydrogenase	valine catabolic process///glycine catabolic process///acetyl-CoA biosynthetic process from pyruvate///L-serine biosynthetic process///leucine catabolic process///mitochondrial matrix///mitochondrial pyruvate dehydrogenase complex///isoleucine catabolic process///dihydrolipoyl dehydrogenase activity
Afu5g12370	2.91	1.69	1.55	WD repeat protein	histone-lysine N-methyltransferase activity///mRNA cleavage and polyadenylation specificity factor complex///"termination of RNA polymerase II transcription, poly(A)-independent"///"termination of RNA polymerase II transcription, poly(A)-coupled"///histone methylation
Afu5g13000	2.91	1.58	1.15	CRAL/TRIO domain protein	lipid particle///response to drug///sterol biosynthetic process///phosphatidylinositol transporter activity///phospholipid transport///cytoplasm///microsome
Afu1g03910	2.89	0.98	0.68	hypothetical protein	
Afu1g04510	2.87	1.08	0.62	hypothetical protein	
Afu1g05080	2.84	1.28	1.27	ribosomal protein P0	structural constituent of ribosome///translation///translational elongation///ribosomal large subunit assembly///cytosolic large ribosomal subunit (sensu Eukaryota)
Afu6g13900	2.83	1.6	1.54	conserved hypothetical protein	
Afu1g04520	2.82	0.89	0.49	Hypothetical protein	
Afu5g03380	2.81	1.68	1.82	flavin dependent monooxygenase, putative	protein folding///endoplasmic reticulum membrane///monooxygenase activity
Afu6g12550	2.8	1.23	0.5	mitochondrial carrier protein, putative	RNA splicing///carrier activity///mitochondrion///transport

**Table AD.2.2 30 ORFs having the highest log<sub>2</sub> among up-regulated genes unique to the 4 hrs time point of the ATCC46645 *ΔpacC* time course.**

ORFs	T4 vs T0	T8 vs T0	T16 vs T0	Annotation	Functional classification
Afu5g01580	1.44	3.26	1.3	oxidoreductase, short chain dehydrogenase/reductase family	
Afu8g07080	-0.46	3.24	-0.25	elastinolytic metalloproteinase Mep	pathogenesis///endopeptidase activity
Afu3g00320	1.15	3	1.92	endo-1,4-beta-xylanase (XlnA), putative	xylan metabolic process
Afu4g01580	1.04	2.59	1.82	ankyrin repeat protein	
Afu3g11920	1.37	2.52	1.73	dihydrodipicolinate synthetase family protein	catalytic activity///metabolic process
Afu2g08470	0.56	2.49	1.93	GTP binding protein (Bud4), putative	GTP binding///cellular bud site selection///axial cellular bud site selection
Afu3g14440	1.36	2.47	1.86	cytochrome c oxidase family protein	
Afu2g10650	1.71	2.4	1.66	enoyl-CoA hydratase	
Afu5g00640	1.82	2.39	1.97	peroxisomal dehydratase, putative	enoyl-CoA hydratase activity///3-hydroxyacyl-CoA dehydrogenase activity///peroxisomal matrix///fatty acid beta-oxidation
Afu1g08840	1.58	2.38	1.84	guanylate kinase	GMP metabolic process///cytoplasm///nucleus///guanylate kinase activity
Afu1g09480	1.49	2.37	1.68	vacuolar protein sorting 29, putative	endosome///"retrograde transport, endosome to Golgi"///molecular function unknown
Afu5g09070	0.89	2.31	1.67	hypothetical protein	
Afu5g07690	1.99	2.3	1.75	conserved hypothetical protein	
Afu2g04230	0.67	2.3	1.41	fumarylacetoacetate hydrolase FahA	tyrosine catabolic process///L-phenylalanine catabolic process///fumarylacetoacetase activity
Afu5g01690	0.89	2.27	1.71	conserved hypothetical protein	
Afu6g12680	0.62	2.26	1.36	HIT domain protein	nucleotide metabolic process///nucleotide binding///cytoplasm///nucleus///hydrolase activity
Afu8g06700	1.45	2.26	1.72	annexin ANXC3.1	
Afu3g00350	0.92	2.25	1.58	hypothetical protein	
Afu6g02470	1.97	2.25	1.9	fumarate hydratase, putative	tricarboxylic acid cycle///fumarate hydratase activity///fumarate metabolic process///cytosol///mitochondrial matrix
Afu3g14660	0.48	2.23	1.74	hypothetical protein	
Afu2g00890	0.43	2.2	1.62	hypothetical protein	
Afu3g131	-1.01	2.19	1.85	extracellular serine-	

10				threonine rich protein	
Afu2g10580	0.32	2.19	1.75	hypothetical protein	
Afu4g12670	1.98	2.18	1.73	DNA repair protein rad1, putative	
Afu1g05320	1.56	2.16	1.94	disulfide isomerase, putative	protein disulfide isomerase activity///fungal-type vacuole///protein folding
Afu4g14120	1.62	2.15	1.85	cutinase, putative	
Afu3g01450	1.47	2.15	1.84	3-methyl-2-oxobutanoate dehydrogenase, putative	Binding
Afu4g09390	1.68	2.15	0.87	conserved hypothetical protein	
Afu8g01970	1.21	2.14	1.93	extracellular endo-polygalacturonase, putative	pectin catabolic process///pseudohyphal growth///extracellular region///polygalacturonase activity

**Table AD.2.3: 30 ORFs with the highest log<sub>2</sub> values between the up-regulated genes unique to the 8 hrs time point of the ATCC46645 *ΔpacC* time course.**

ORFs	T4 vs T0	T8 vs T0	T16 vs T0	Annotation	Functional classification
Afu8g00550		1.4	4.92	SirN-like methyltransferase, putative	
Afu8g00560	1.32	1.97	4.67	cytochrome P450, putative	oxidoreductase activity///metabolic process
Afu2g17830	-0.2	1.75	4.06	hypothetical protein	
Afu4g01440	-0.27	0.77	4.05	glutathione S-transferase family protein	regulation of nitrogen utilization///soluble fraction///transcription corepressor activity
Afu4g01370	1.06	1.94	3.82	hypothetical protein	
Afu3g00420	0.73	1.49	3.73	acetyl xylan esterase (Axe1), putative	cellulose binding///xylan metabolic process///acetyl xylan esterase activity
Afu4g14070	0.37	1.45	3.55	glycosyl transferase, putative	transferase activity, transferring glycosyl groups
Afu4g01070	1.01	1.7	3.53	acid phosphatase, putative	acid phosphatase activity///response to stress
Afu3g01180	0.96	1.16	3.48	sarcosine oxidase, putative	
Afu3g03810	1.9	1.25	3.48	hypothetical protein	
Afu3g14670	1.76	1.72	3.47	MFS transporter, putative	nicotinamide mononucleotide transport///nicotinamide mononucleotide permease activity///integral to plasma membrane
Afu1g17640	1.31	1.33	3.45	melanin biosynthesis transcription factor RegA	melanin biosynthetic process///"regulation of transcription, DNA-dependent"///transcription factor activity///nucleus///zinc ion binding
Afu1g17650	1.8	1.93	3.4	short chain dehydrogenase, putative	oxidoreductase activity///cytoplasm///metabolic

					process
Afu6g08490	-0.36	1.25	3.4	inorganic diphosphatase, putative	phosphate metabolic process///inorganic diphosphatase activity///cytosol
Afu6g01830	1.59	1.98	3.34	O-methyltransferase, putative	
Afu3g01280	0.29	1.75	3.31	alpha/beta hydrolase, putative	
Afu2g07750	0.01	1.88	3.26	haloacid dehalogenase, type II	
Afu2g18050	-0.07	1.13	3.26	FAD binding oxidoreductase, putative	FAD binding
Afu5g01320	0.81	1.96	3.25	phosphate permease	integral to plasma membrane///inorganic phosphate transmembrane transporter activity///phosphate transport
Afu1g01300	-2.06	0.56	3.21	GPI anchored protein, putative	
Afu6g08470	1.85	1.76	3.12	glycerol kinase, putative	cytoplasm///glycerol kinase activity///glycerol metabolic process
Afu7g04960	-0.01	1.37	3.11	N-acetyltransferase, GNAT family, putative	N-acetyltransferase activity///metabolic process
Afu4g13780	1.41	1.26	3.02	polyphenol monooxygenase, putative	
Afu6g13850	0.81	1.86	2.98	GTPase activating protein (Evi5), putative	Rab GTPase activator activity///cytosol
Afu8g00370	-0.4	0.65	2.97	polyketide synthase, putative	3-oxoacyl-[acyl-carrier-protein] synthase activity///polyketide synthase activity
Afu8g00420	-1.42	0.45	2.97	C6 finger transcription factor, putative	DNA binding
Afu8g02560	-0.53	0.96	2.94	glyceraldehyde-3-phosphate dehydrogenase, putative	lipid particle///fungal-type cell wall///cytoplasm///cytosol///glucanogenesis///glycolysis///glyceraldehyde-3-phosphate dehydrogenase (phosphorylating) activity
Afu5g08800	1.24	1.58	2.93	hypothetical protein	
Afu2g05080	1.01	1.65	2.88	hypothetical protein	
Afu1g17470	0.62	1.9	2.88	high affinity nitrate transporter NrtB	

**Table AD.2.4: 30 ORFs with the highest log<sub>2</sub> values among up-regulated genes unique to the 16 hrs time point of the ATCC46645 *ΔpacC* time course.**

Locus	T0 vs T4	T0 vs T8	T0 vs T16	Common Name
<b>Afu1g00140</b>	-2.92	-1.94	-1.39	Fot5 transposase, putative
<b>Afu1g00170</b>	-4.99	-3.59	-4.58	hypothetical protein
<b>Afu1g00410</b>	-1.92	-1.95	-2.19	C6 transcription factor, putative
<b>Afu1g00550</b>	-2.41	-0.67	-1.09	conserved hypothetical protein
<b>Afu1g00600</b>	-2.86	-1.71	-2.05	LMBR1 domain protein, putative

<b>Afu1g00880</b>	-1.42	-1.5	-2.06	reverse transcriptase, RNaseH, putative
<b>Afu1g00910</b>	-4.67	-3.73	-3.92	conserved hypothetical protein
<b>Afu1g00980</b>	-1.93	-1.79	-2.53	FAD-dependent oxidase, putative
<b>Afu1g01180</b>	-4.33	-2.72	-2.66	isoamyl alcohol oxidase
<b>Afu1g01300</b>	-2.06	0.56	3.21	GPI anchored protein, putative
<b>Afu1g01500</b>	-4	-3.36	-3.32	short-chain dehydrogenase/reductase family protein, putative
<b>Afu1g01950</b>	-2.02	-1.47	-1.02	hypothetical protein
<b>Afu1g01970</b>	-1.62	-2.4	-2.51	mutant VeA1 protein
<b>Afu1g02000</b>	-1.68	-1.9	-2.16	DNA mismatch repair protein Msh4, putative
<b>Afu1g02120</b>	-2.99	-2.84	-1.92	F-box domain protein
<b>Afu1g02130</b>	-1.34	-2.27	-2.79	DUF221 domain protein, putative
<b>Afu1g02280</b>	-2.99	-2.2	-2.61	conserved hypothetical protein
<b>Afu1g02620</b>	-3.07	-1.13	-1.38	hypothetical protein
<b>Afu1g02640</b>	-1.28	-2.36	-2.33	conserved hypothetical protein
<b>Afu1g02940</b>	-1.34	-1.25	-2.01	mitotic check point protein (Bub2), putative
<b>Afu1g02950</b>	-2.37	-1.52	-0.99	RNA recognition motif. (a.k.a. RRM, RBD, or RNP domain) protein
<b>Afu1g03010</b>	-1.75	-2.37	-2.31	cell cycle control protein (Cwf22), putative
<b>Afu1g03020</b>	-2.38	0.42	-0.6	My026 protein
<b>Afu1g03030</b>	-2.17	-2.4	-3.32	hypothetical protein
<b>Afu1g03090</b>	-1.14	-1.82	-2.81	conserved hypothetical protein
<b>Afu1g03110</b>	-2.93	-1.95	-2.26	60S ribosomal protein L29, putative
<b>Afu1g03150</b>	-1.17	-1.95	-2.69	c-14 sterol reductase
<b>Afu1g03190</b>	-2.03	-1.47	-1.63	hypothetical protein
<b>Afu1g03210</b>	-3.02	-2.81	-3.38	MYB family conidiophore development protein FlbD, putative
<b>Afu1g03220</b>	-2.24		-1.41	hypothetical protein
<b>Afu1g03230</b>	-2.33	-1.58	-1.88	ABC multidrug transporter, putative
<b>Afu1g03330</b>	-2.57	-2.79	-2.25	hypothetical protein
<b>Afu1g03360</b>	-3.36	-2.1	-2.12	hypothetical protein
<b>Afu1g03410</b>	-1.06	-1.2	-2.66	DNA primase large subunit
<b>Afu1g03500</b>	-1.79	-2.56	-2.47	topoisomerase I
<b>Afu1g03600</b>	-2.39	-2.32	-2.86	exo-beta-1,3-glucanase (Exg1), putative
<b>Afu1g03650</b>	-2.37	-2.21	-2.62	hypothetical protein
<b>Afu1g03710</b>	-1.57	-1.95	-2.28	C2H2 finger domain protein, putative
<b>Afu1g03830</b>	-2.75	-2.21	-3.46	prefoldin subunit 2, putative
<b>Afu1g04100</b>	-2.13	-2.15	-0.35	hypothetical protein
<b>Afu1g04220</b>	-2.18	-1.25	-0.87	hypothetical protein
<b>Afu1g04230</b>	-2.76	-2.46	-2.71	mitoribosomal protein YmL27

<b>Afu1g04410</b>	-0.98	-2.58	-2.52	conserved hypothetical protein
<b>Afu1g04670</b>	-1.09	-1.59	-2.52	related to suppressor protein PSP1
<b>Afu1g04750</b>	-2.24	-2.73	-2.68	cyclin
<b>Afu1g04850</b>	-1.42	-1.41	-2.1	8 kDa cytoplasmic dynein light chain
<b>Afu1g04860</b>	-4.07	-2.47	-3.33	hypothetical protein
<b>Afu1g04930</b>	-2.28	-2.48	-2.24	hypothetical protein
<b>Afu1g04970</b>	0.01	-1.69	-2.21	Patatin-like serine hydrolase, putative
<b>Afu1g05040</b>	-1.2	-2.27	-1.45	protein mitochondrial targeting protein (Mas1), putative
<b>Afu1g05250</b>	-2.28	-1.43	-1.79	hypothetical protein
<b>Afu1g05370</b>	-2.06	-1.2	-0.17	conserved hypothetical protein
<b>Afu1g05400</b>	-3.76	-1.93	-1.63	hypothetical protein
<b>Afu1g05560</b>	-0.97	-1.92	-2.35	GTP binding protein, putative
<b>Afu1g05660</b>	-2.01	-1.85	-1.72	hypothetical protein
<b>Afu1g05680</b>	-2.05	-2.83	-2.6	hypothetical protein
<b>Afu1g05850</b>	-2.44	-3.71	-4.25	erythromycin esterase family protein
<b>Afu1g06020</b>	-2.23	-2.11	-1.69	DnaJ domain protein
<b>Afu1g06100</b>	-3.21	-1.67	-2	glutaredoxin
<b>Afu1g06190</b>	-2.36	-3.97	-4.2	hnrrp arginine n-methyltransferase
<b>Afu1g06220</b>	-1.74	-2.21	-1.32	ATP-dependent RNA helicase , putative
<b>Afu1g06350</b>	-1.87	-2.31	-2.84	virulence related protein (Cap20), putative
<b>Afu1g06380</b>	-2.75	-1.59	-1.77	RNA polymerase III subunit CII
<b>Afu1g06400</b>	-0.98	-1.75	-2.28	cAMP-dependent protein kinase-like, putative
<b>Afu1g06580</b>	-3.45	-1.19	-1.78	high expression lethality protein (Hel10), putative
<b>Afu1g06590</b>	-2.84	-1.71	-1.69	phosphoglycerate mutase family protein, putative
<b>Afu1g06640</b>	-1.41	-2.06	-2.27	zinc-binding oxidoreductase, putative
<b>Afu1g06690</b>	-0.07	-1.67	-2.22	RLI and DUF367 domain protein
<b>Afu1g06720</b>	-1.77	-1.72	-2.52	histone acetyltransferase Spt10, putative
<b>Afu1g06740</b>	-1.3	-1.32	-2.03	hypothetical protein
<b>Afu1g06990</b>	-4.49	-0.73	-3.27	NA
<b>Afu1g07470</b>	-3.18	-2.39	-2.72	autophagic death protein IDI-7, putative
<b>Afu1g07730</b>	-2.82	-2.62	-3.08	metalloprotease MEP1
<b>Afu1g07740</b>	-0.84	-1.62	-2.02	LEM3/CDC50 family protein
<b>Afu1g07750</b>	-3.27	-2.31	-2.47	FUN19 protein
<b>Afu1g08800</b>	-2.05	-1.06	-1.81	cytochrome P450 phenylacetate hydroxylase, putative
<b>Afu1g08870</b>	-2.28	-3.09	-3.68	hypothetical protein
<b>Afu1g09060</b>	-1.8	-2.15	-2.28	conserved hypothetical protein
<b>Afu1g09140</b>	-1.95	-3.22	-2.98	hypothetical protein
<b>Afu1g09360</b>	-2.37	-0.5	-0.92	DUF1242 domain protein, putative

<b>Afu1g09430</b>	-1.08	-2.04	-1.17	conserved hypothetical protein
<b>Afu1g09500</b>	-1.36	-2.18	-3.21	ubiquitin-protein ligase (Rsp5), putative
<b>Afu1g09670</b>	-2.08	-2.46	-2.27	HLH transcription factor (GlcD gamma), putative
<b>Afu1g09750</b>	-1.21	-1.7	-2.74	aldehyde reductase (AKR1), putative
<b>Afu1g09940</b>	-1.64	-1.99	-2.37	protein required for survival at high temperature during stationary phase, putative
<b>Afu1g10040</b>	-0.85	-1.57	-2.65	HMG box protein, putative
<b>Afu1g10090</b>	-2.27	-1.02	-1.4	hypothetical protein
<b>Afu1g10300</b>	-4.43	-2.29	-1.6	hypothetical protein
<b>Afu1g10610</b>	-1.97	-2.11	-1.75	hypothetical protein
<b>Afu1g10850</b>	-2.68	-1.27	-1.88	ubiquitin-like modifier SUMO, putative
<b>Afu1g10880</b>	-0.29	-0.68	-2	P-type calcium ATPase, putative
<b>Afu1g10950</b>	-2.72	-3.45	-4.32	conserved hypothetical protein
<b>Afu1g10960</b>	-1.89	-1.19	-2.2	Mago nashi domain protein
<b>Afu1g11220</b>	-2.43	-0.9	-1.55	GPI anchored protein, putative
<b>Afu1g11240</b>	-2.11	-2.12	-2.53	hypothetical protein
<b>Afu1g11330</b>	-3.34	-2.07	-1.16	lactonohydrolase, putative
<b>Afu1g11370</b>	-2.5	-1.39	-1.13	versicolorin B synthase, putative
<b>Afu1g11430</b>	-2.19	-0.94	-1.56	hypothetical protein
<b>Afu1g11460</b>	-1.64	-2.32	-2.09	1,3-beta-glucanosyltransferase Bgt1
<b>Afu1g11490</b>	-0.53	-1.57	-2.28	vacuolar endopolyphosphatase, putative
<b>Afu1g11560</b>	-3.97	-3.42	-3.99	4-hydroxyphenylpyruvate dioxygenase, putative
<b>Afu1g11720</b>	-3.38	-3.29	-3.74	conserved hypothetical protein
<b>Afu1g11860</b>	-1.85	-2.76	-2.76	mitochondrial import receptor subunit tom22
<b>Afu1g11930</b>	-2.63	-2.45	-2.36	protein kinase, putative
<b>Afu1g12270</b>	-2.26	-0.07	-0.62	hypothetical protein
<b>Afu1g12340</b>	-2.61	-3.04	-2.76	carnitine acetyl transferase
<b>Afu1g12360</b>	-2.35	-0.88	-0.4	hypothetical protein
<b>Afu1g12410</b>	-2.47	-2.61	-2.99	salicylate hydroxylase
<b>Afu1g12420</b>	-2.28	-2.51	-2.52	hypothetical protein
<b>Afu1g12460</b>	-3.03	-1.58	-1.95	isoflavone reductase family protein
<b>Afu1g12810</b>	-1.49	-2.02	-2.81	hypothetical protein
<b>Afu1g12900</b>	-1.04	-1.93	-2.67	Leucine Rich Repeat domain protein
<b>Afu1g12960</b>	-0.6	-1.43	-2.45	SCF ubiquitin ligase complex subunit CulA, putative
<b>Afu1g12980</b>	-1.88	-2.39	-3.37	conserved hypothetical protein
<b>Afu1g12990</b>	-1.33	-1.71	-2.34	membrane protein, putative
<b>Afu1g13050</b>	-2.52	-3.16	-3.2	C2H2 transcription factor, putative
<b>Afu1g13060</b>	-1.02	-2.24	-1.97	regulator of nonsense transcripts, putative

<b>Afu1g13120</b>	-2.23	-2.07	-2.8	hypothetical protein
<b>Afu1g13350</b>	-2.36	-2.62	-4.1	transporter, putative
<b>Afu1g13360</b>	-2.97	-2.08	-0.83	C4-dicarboxylate transporter/malic acid transport protein, putative
<b>Afu1g13400</b>	-3.34	-2.76	-2.76	conserved hypothetical protein
<b>Afu1g13460</b>	-0.85		-2.07	conserved hypothetical protein
<b>Afu1g13530</b>	-2.21	-1.2	-1.39	hypothetical protein
<b>Afu1g13550</b>	-2.91	-1.55	-2.85	hypothetical protein
<b>Afu1g13560</b>	-0.29	-1.31	-2.38	hypothetical protein
<b>Afu1g13660</b>	-1.03	-1.79	-2.24	phenol 2-monooxygenase, putative
<b>Afu1g13850</b>	-1.15	-2.26	-2.17	conserved hypothetical protein
<b>Afu1g13880</b>	-2.38	-3.1	-3.05	NAF1 domain family
<b>Afu1g13910</b>	-1.49	-1.64	-2.4	TFIIH complex helicase (RAD3), putative
<b>Afu1g13970</b>	-1.4	-1.45	-2.03	MFS transporter, putative
<b>Afu1g14000</b>	-5.49	-3.48	-3.71	hypothetical protein
<b>Afu1g14050</b>	-3.32	-3.63	-3.81	F-box domain protein
<b>Afu1g14060</b>	-3.05	-2.25	-2.26	C2H2 finger domain protein, putative
<b>Afu1g14070</b>	-2.61	-1.79	-2.03	chromosome segregation protein BIR1, putative
<b>Afu1g14160</b>	-3.03	-1.72	-1.7	hypothetical protein
<b>Afu1g14300</b>	-1.92	-1.99	-2.5	Fasciclin domain family
<b>Afu1g14310</b>	-0.64	-1.4	-2.19	poly(A)-binding protein-dependent poly(A) ribonuclease, putative
<b>Afu1g14330</b>	-4.28	-4.3	-5.29	ABC transporter, putative
<b>Afu1g14630</b>	-1.7	-2.05	-1.89	tRNA <sup>His</sup> guanylyltransferase, putative
<b>Afu1g14640</b>	-2.46	-1.64	-1.17	hypothetical protein
<b>Afu1g14660</b>	-1.81	-2.96	-3.26	regulator of secondary metabolism LaeA
<b>Afu1g14740</b>	-2.38	-3.32	-3.24	TFIIA alpha/beta
<b>Afu1g14750</b>	-2.54	-3.37	-3.47	C2H2 transcription factor (Sfp1), putative
<b>Afu1g14770</b>	-1.05	-1.96	-2.91	tRNA dihydrouridine synthase, putative
<b>Afu1g14820</b>	-3.36	-1.7	-0.83	hypothetical protein
<b>Afu1g14840</b>	-2.61	-1.76	-1.94	Ser/Thr protein phosphatase superfamily
<b>Afu1g14910</b>	-2.05	-1.82	-1.73	YKL529
<b>Afu1g15190</b>	-2.23	-0.93	-1.12	hypothetical protein
<b>Afu1g15340</b>	-0.84	-2.27	-3.11	polymerase
<b>Afu1g15390</b>	-1.63	-2.13	-2.34	DUF1014 domain protein
<b>Afu1g15410</b>	-3.5	-3.92	-4.53	CUE domain protein, putative
<b>Afu1g15430</b>	-2.73	-1.99	-3.01	lipase/esterase, putative
<b>Afu1g15530</b>	-2.89	-1.28	0.64	lactam utilization protein LamB, putative
<b>Afu1g15570</b>	-2.15	-2.04	-2.19	ubiquitin-conjugating enzyme, putative
<b>Afu1g15620</b>	-1.49	-2.82	-2.72	DEAD box RNA helicase HelA, putative

<b>Afu1g15650</b>	-3.76	-2.39	-3.04	hypothetical protein
<b>Afu1g15690</b>	-4.46	-1.85	-1.18	conserved hypothetical protein
<b>Afu1g15710</b>	-2.86	-2.92	-3.7	cyclosome/APC complex component Cut20/Apc4, putative
<b>Afu1g15720</b>	-0.81	-1.97	-2.41	importin beta-1 subunit
<b>Afu1g15790</b>	-0.29	-1.59	-2.14	ecylglycaid-PDC
<b>Afu1g15810</b>	-1.05	-1.7	-2.18	RNA splicing factor (Pad-1), putative
<b>Afu1g15820</b>	-1.98	-3.21	-3.26	fatty acid hydroxylase, putative
<b>Afu1g15840</b>	-0.82	-2.26	-2.08	hypothetical protein
<b>Afu1g15850</b>	-1.75	-2.78	-3.59	C6 transcription factor, putative
<b>Afu1g15870</b>	-0.73	-1.85	-2.26	DNA topoisomerase IV subunit A, putative
<b>Afu1g15890</b>	-0.88	-2.24	-3.21	SacI domain protein
<b>Afu1g15940</b>	0.51	-1.3	-2.07	Auxin Efflux Carrier superfamily
<b>Afu1g16080</b>	-3.07	-1.71	-2.35	hypothetical protein
<b>Afu1g16140</b>	-2.88	-1.79	-2.75	hypothetical protein
<b>Afu1g16160</b>	-2.12	-0.61	-0.48	C6 transcription factor, putative
<b>Afu1g16430</b>	-1.66	-1.76	-2.35	hypothetical protein
<b>Afu1g16450</b>	-5.36	-3.33	-4.18	hypothetical protein
<b>Afu1g16520</b>	-3	-1.92	-2.33	hypothetical protein
<b>Afu1g16530</b>	-3.55	-2.75	-2.95	NA
<b>Afu1g16550</b>	-1.02	-1.99	-2.22	dihydrouridine synthase family protein, putative
<b>Afu1g16570</b>	-2.01	-2.14	-2.59	G4P04 protein
<b>Afu1g16710</b>	-0.2	-2.37	-3.55	fatty acid elongase (Gig30), putative
<b>Afu1g16780</b>	-1.73	-1.76	-2.29	protein kinase (Lkh1), putative
<b>Afu1g16790</b>	-1.23	-2.26	-2.67	related to tpa inducible protein, putative
<b>Afu1g16850</b>	-1.3	-2.21	-1.94	sur2 protein
<b>Afu1g16930</b>	-2.03	-2.82	-3.33	phosphatidylserine decarboxylase, putative
<b>Afu1g16940</b>	-3.58	-3.97	-4.09	DEAD/DEAH box helicase, putative
<b>Afu1g16960</b>	-1.98	-2.21	-3.02	hypothetical protein
<b>Afu1g16990</b>	-1.85	-2.05	-2.82	mRNA splicing factor (Prp18), putative
<b>Afu1g17060</b>	-3.16	-3.92	-4.29	HLH DNA binding domain protein, putative
<b>Afu1g17080</b>	-2.3	-1.3	-0.57	acetyltransferase, GNAT family, putative
<b>Afu1g17280</b>	-2.18	-1.74	-1.11	hypothetical protein
<b>Afu1g17290</b>	-4.15	-3.48	-3.35	conserved hypothetical protein
<b>Afu1g17360</b>	-2.53	-3.29	-4.02	bZIP transcription factor (BACH2), putative
<b>Afu1g17370</b>	-4.11	-2.26	-3.32	chaperone/heat shock protein Hsp9, putative
<b>Afu1g17380</b>	-3.13	-3.7	-4.35	3-oxoacyl-(acyl-carrier-protein) reductase, putative
<b>Afu1g17430</b>	-2.25	-3.2	-3.53	tyrosinase
<b>Afu1g17440</b>	-2.36	-1.8	-2.31	ABC drug exporter AbcA

<b>Afu1g17460</b>	-2	-2.01	-2.02	C6 transcription factor, putative
<b>Afu1g17680</b>	-2.28	-0.83	0.5	MFS transporter, putative
<b>Afu2g00160</b>	-4.03	-3.12	-2.56	hypothetical protein
<b>Afu2g00170</b>	-3.92	-3.29	-3.55	glutathione-dependent formaldehyde dehydrogenase
<b>Afu2g00200</b>	-5.8	-5.74	-6.99	catalase, putative
<b>Afu2g00220</b>	-0.71	-1.12	-2.06	aminopeptidase, putative
<b>Afu2g00290</b>	-2.49	-1.26	-2.57	hypothetical protein
<b>Afu2g00440</b>	-2.63	-1.64	-0.84	hypothetical protein
<b>Afu2g00470</b>	-2.34	-2.38	-2.21	C6 transcription factor, putative
<b>Afu2g00580</b>	-2.36	0.44	0.37	hypothetical protein
<b>Afu2g00650</b>	-2.12	-2.19	-2.14	arabinosidase
<b>Afu2g00940</b>	-1.71	-2.84	-2.36	hypothetical protein
<b>Afu2g01050</b>	-1.75	-1.48	-2.42	mitochondrial intermembrane space translocase subunit Tim9, putative
<b>Afu2g01120</b>	-3.36	-2.56	-1.57	DNA repair protein, putative
<b>Afu2g01150</b>	-3.17	-2.6	-3.12	conserved hypothetical protein
<b>Afu2g01670</b>	-1.77	-2.22	-2.78	hypothetical protein
<b>Afu2g01880</b>	-2.24	-1.23	-0.41	Low molecular weight phosphotyrosine protein phosphatase family
<b>Afu2g01900</b>	-0.69	-1.54	-2.24	Rtf1p, putative
<b>Afu2g02020</b>	-2.97	-2.81	-2.81	formamidase
<b>Afu2g02030</b>	-1.91	-2.39	-2.04	fructosyl amine:oxygen oxidoreductase
<b>Afu2g02060</b>	-2.53	-2.14	-2.23	D-tyrosyl-tRNA(Tyr) deacylase
<b>Afu2g02180</b>	-1.26	-1.93	-2.11	hypothetical protein
<b>Afu2g02270</b>	-3.33	-0.87	-1.22	ribosomal protein S14p/S29e
<b>Afu2g02290</b>	-1.3	-2.58	-2.96	hypothetical protein
<b>Afu2g02390</b>	-2.14	-1.67	-1.47	hypothetical protein
<b>Afu2g02570</b>	-0.8	-1.96	-2.02	F-box domain protein
<b>Afu2g02600</b>	-0.71	-1.98	-2.27	hypothetical protein
<b>Afu2g02660</b>	-2.13	-1.59	-1.37	DNA topoisomerase III, putative
<b>Afu2g02690</b>	-2.59	-2.45	-2.65	fungal specific transcription factor, putative
<b>Afu2g02700</b>	-2.93	-1.95	-1.42	mitochondrial DnaJ chaperone (Tim14), putative
<b>Afu2g02710</b>	-2.66	-1.78	-1.09	60S ribosomal protein (Rlp24), putative
<b>Afu2g02760</b>	-1.25	-1.56	-2.1	protein-tyrosine phosphatase, putative
<b>Afu2g02830</b>	-1.35	-1.39	-2.22	hypothetical protein
<b>Afu2g02840</b>	-1.37	-1.58	-2.04	TBC domain protein, putative
<b>Afu2g02850</b>	-1.8	-2.58	-3.05	serine/threonine protein kinase, putative
<b>Afu2g03030</b>	-0.88	-1.77	-2.15	pre-mRNA splicing factor (PRP8), putative

<b>Afu2g03070</b>	-3.15	-2.99	-2.81	hypothetical protein
<b>Afu2g03080</b>	-2.26	-1.87	-1.68	WD repeat protein
<b>Afu2g03090</b>	-1.71	-2.36	-3.01	vacuolar ABC heavy metal transporter (Hmt1), putative
<b>Afu2g03150</b>	-4.87	-2.81	-2.04	kinesin family protein
<b>Afu2g03470</b>	-2.04	-0.35	-0.37	hypothetical protein
<b>Afu2g03620</b>	-2.84	-1.44	-1.55	oxidoreductase, short-chain dehydrogenase/reductase family
<b>Afu2g03750</b>	-2.08	-1.97	-1.98	DNA excision repair protein (Rad26L), putative
<b>Afu2g03850</b>	-2.43	-2.53	-2.04	hypothetical protein
<b>Afu2g03950</b>	-1.82	-3.33	-3.96	serine/threonine protein phosphatase, putative
<b>Afu2g04050</b>	-1.99	-2.39	-2.53	hypothetical protein
<b>Afu2g04100</b>	-0.14	-1.61	-2	hypothetical protein
<b>Afu2g04170</b>	-1.54	-2.13	-2.14	conserved hypothetical protein
<b>Afu2g04200</b>	-2.11	-0.27	-0.71	4-hydroxyphenylpyruvate dioxygenase, putative
<b>Afu2g04210</b>	-3.75	-0.92	-0.87	conserved hypothetical protein
<b>Afu2g04250</b>	-1.54	-2.41	-2.25	C6 finger domain protein, putative
<b>Afu2g04260</b>	-2.95	-0.6	-0.71	transcription factor, putative
<b>Afu2g04270</b>	-2.06	-1.73	0.26	mitochondrial inner membrane translocase subunit (TIM17), putative
<b>Afu2g04320</b>	-0.73	-2.04	-1.8	NADH-dependent flavin oxidoreductase, putative
<b>Afu2g04730</b>	-4.03	-2.84	-3.14	NA
<b>Afu2g04740</b>	-0.44	-1.8	-2.71	vacuolar sorting-associated protein (Vps27), putative
<b>Afu2g04750</b>	-2.26	-2.73	-3.23	hypothetical protein
<b>Afu2g04780</b>	-1.12	-1.94	-2.3	WD repeat protein
<b>Afu2g04870</b>	-1.33	-1.91	-2.41	dehydrogenase complex alpha subunit, putative
<b>Afu2g04880</b>	-4.17	-3.45	-4.54	DUF77 domain protein
<b>Afu2g05050</b>	-2.78	-0.75	-1.09	hypothetical protein
<b>Afu2g05060</b>	-4.01	-2.35	-2.05	alternative oxidase
<b>Afu2g05120</b>	-2.35	-1.85	-2.36	hypothetical protein
<b>Afu2g05240</b>	-2.49	-1.21	-0.58	conserved hypothetical protein
<b>Afu2g05250</b>	-1.8	-2.95	-3.22	RfeD
<b>Afu2g05330</b>	0.21	-1.43	-2.16	vacuolar H <sup>+</sup> /Ca <sup>2+</sup> exchanger
<b>Afu2g05440</b>	-1.29	-1.55	-2.08	Hypothetical protein
<b>Afu2g05480</b>	-2.49	-2.04	-1.65	DNA-directed RNA polymerase I 13.1 kDa polypeptide, putative
<b>Afu2g05530</b>	-2.43	-2.71	-2.95	histone acetyltransferase (Esa1), putative
<b>Afu2g05550</b>	-1.07	-1.69	-2.21	conserved hypothetical protein
<b>Afu2g05620</b>	-1.31	-1.53	-2.24	conserved hypothetical protein
<b>Afu2g05630</b>	-0.86	-1.7	-2.6	hypothetical protein
<b>Afu2g05640</b>	-2.12	-1.55	-1.91	hypothetical protein

<b>Afu2g05700</b>	-5.08	-1.83	-1.95	hypothetical protein
<b>Afu2g05730</b>	-1.23	-2.4	-2.04	siderochrome-iron transporter (MirC), putative
<b>Afu2g05830</b>	-2.24	-0.3	-1.12	C6 finger domain protein, putative
<b>Afu2g05940</b>	-1.15	-1.8	-2.01	conserved hypothetical protein
<b>Afu2g05970</b>	-1.25	-1.85	-2.24	PHD finger and JmjC domain protein, putative
<b>Afu2g05980</b>	-2.13	-2.16	-1.99	conserved hypothetical protein
<b>Afu2g06010</b>	-2.54	-2.02	-2.06	alkaline lipase, putative
<b>Afu2g06050</b>	-1.54	-2.16	-3.04	conserved hypothetical protein
<b>Afu2g06060</b>	-0.91	-1.65	-2.15	transcriptional co-activator (Hfi1/Ada1), putative
<b>Afu2g06070</b>	-1.97	-2.78	-3.2	NA
<b>Afu2g06290</b>	-4.71	-4.55	-4.99	nuclear division rft1 protein
<b>Afu2g07460</b>	-3	-2.72	-3.31	RNA polymerase II transcriptional coactivator, putative
<b>Afu2g07610</b>	-0.17	-1.79	-2.8	alcohol dehydrogenase PAN2
<b>Afu2g07620</b>	-0.36	-1.57	-2.04	cystathionine beta-synthase, putative
<b>Afu2g07840</b>	-2.29	-0.37	-0.91	competence/damage-inducible protein CinA, putative
<b>Afu2g07890</b>	-2.4	-1.15	-1.49	conserved hypothetical protein
<b>Afu2g08080</b>	-1.73	-2.84	-3.14	conserved hypothetical protein
<b>Afu2g08090</b>	-2.9	-0.19	-0.5	hypothetical protein
<b>Afu2g08150</b>	-2.58	-1.9	-2.58	NEDD8-like protein (RubA), putative
<b>Afu2g08170</b>	-1.74	-1.92	-2.8	hypothetical protein
<b>Afu2g08520</b>	-3.1	-1.74	-1.82	50S ribosomal protein L14
<b>Afu2g08660</b>	-2.14	-1.51	-2.4	conserved hypothetical protein
<b>Afu2g08680</b>	-3.93	-1.96	-1.45	hypothetical protein
<b>Afu2g08730</b>	-2.39	-1.7	-1.74	hypothetical protein
<b>Afu2g08740</b>	-1.99	-2.26	-1.54	ZIP metal ion transporter, putative
<b>Afu2g08780</b>	-1.49	-2.17	-2.08	guanyl-nucleotide exchange factor, putative
<b>Afu2g08990</b>	-1.07	-1.87	-2.2	eukaryotic translation initiation factor 5
<b>Afu2g09190</b>	-1.27	-1.62	-2.17	hypothetical protein
<b>Afu2g09460</b>	-0.96	-1.59	-2.43	potassium transporter
<b>Afu2g09510</b>	-4.33	-3.84	-4.29	hypothetical protein
<b>Afu2g09530</b>	-1.81	-1.93	-2.18	PUTATIVE SIGNAL PEPTIDE PROTEIN
<b>Afu2g09630</b>	-0.89	-1.67	-2.79	hypothetical protein
<b>Afu2g09820</b>	-0.12	-1.7	-2.03	conserved hypothetical protein
<b>Afu2g09880</b>	-3.17	-2.61	-2.26	hypothetical protein
<b>Afu2g09890</b>	-2.77	-3.34	-3.8	conserved hypothetical protein
<b>Afu2g09990</b>	-1.98	-3.02	-3.35	hypothetical protein
<b>Afu2g10020</b>	-2.63	-1.34	-2.14	hypothetical protein
<b>Afu2g10030</b>	-2.86	-2.97	-4.11	vip1 protein

<b>Afu2g10050</b>	-1.51	-2.2	-2.76	hypothetical protein
<b>Afu2g10110</b>	-1.99	-2.54	-3.37	hypothetical protein
<b>Afu2g10120</b>	-1.5	-2.65	-3.59	YjeF domain protein
<b>Afu2g10130</b>	-6.69	-4.64	-5.2	phase-specific adhesin, putative
<b>Afu2g10310</b>	-2.43	-2.86	-2.54	DUF408 domain protein
<b>Afu2g10330</b>	-2.09	-2.66	-2.32	conserved hypothetical protein
<b>Afu2g10490</b>	-1.29	-1.7	-2.35	hypothetical protein
<b>Afu2g10540</b>	-2.26	-1.93	-1.63	hypothetical protein
<b>Afu2g10550</b>	-3.08	-3.38	-3.28	C2H2 transcription factor (RfeC), putative
<b>Afu2g10750</b>	-1.5	-1.97	-2.21	RNA helicase (Dbp), putative
<b>Afu2g10770</b>	-2.35	-2.18	-2.67	C2H2 transcription factor (Con7), putative
<b>Afu2g10900</b>	-1.01	-1.5	-2.16	autophagy related lipase (Atg15), putative
<b>Afu2g10980</b>	-3	-3.31	-3.91	ADP-ribosylation factor, putative
<b>Afu2g11090</b>	-2.1	-1.44	-1.29	DNA replication complex GINS protein (Psf2), putative
<b>Afu2g11100</b>	-3.3	-3.03	-3.07	AMFR protein, putative
<b>Afu2g11180</b>	-1.54	-1.99	-2.65	developmental regulator FlbA
<b>Afu2g11210</b>	-1.66	-1.9	-2.1	PHD finger and SET domain protein, putative
<b>Afu2g11250</b>	-1.58	-2.42	-1.56	aryl-alcohol dehydrogenase (AAD), putative
<b>Afu2g11310</b>	-2.22	-1.71	-1.11	NTP binding protein, putative
<b>Afu2g11390</b>	-1.52	-1.69	-2.27	hypothetical protein
<b>Afu2g11650</b>	-2.8	-1.12	-1.77	hypothetical protein
<b>Afu2g11660</b>	-2.27	-2.33	-2.46	Rad4 family protein
<b>Afu2g11770</b>	-1.5	-1.86	-2.01	hypothetical protein
<b>Afu2g11840</b>	-1.5	-1.58	-2	transcriptional corepressor (Cyc8), putative
<b>Afu2g12130</b>	-2.37	-1.1	-0.69	conserved hypothetical protein
<b>Afu2g12140</b>	-1.16	-1.51	-2.09	voltage-gated chloride channel, putative
<b>Afu2g12220</b>	-1.75	-2.56	-2.96	DNA replication factor C subunit Rfc1, putative
<b>Afu2g12230</b>	-2	-1.27	-1.33	mitochondrial large ribosomal subunit protein L16, putative
<b>Afu2g12370</b>	-2.05	-1.64	-1.06	conserved hypothetical protein
<b>Afu2g12440</b>	-2.31	-2.69	-2.5	Dph211 protein
<b>Afu2g12460</b>	-3.71	-2.16	-1.88	conserved hypothetical protein
<b>Afu2g12530</b>	-2.31	-2.01	-3.02	carnitine acetyl transferase
<b>Afu2g12630</b>	-4.18	-0.96	-1.65	allergen Asp F13
<b>Afu2g12780</b>	-2.78	-0.55	-0.92	von Willebrand domain protein
<b>Afu2g13040</b>	-1.39	-2.45	-2.85	mitochondrial co-chaperone GrpE, putative
<b>Afu2g13060</b>	-5.54	-3.22	-3.54	calcineurin binding protein, putative
<b>Afu2g13110</b>	-2.16	-0.82	-1.53	cytochrome c
<b>Afu2g13370</b>	-1.65	-1.65	-2.04	55 kDa type II phosphatidylinositol 4-kinase

<b>Afu2g13380</b>	-0.28	-1.31	-2.01	GATA transcription factor (AreB), putative
<b>Afu2g13390</b>	-1.48	-2.67	-3.18	MFS transporter, putative
<b>Afu2g13400</b>	-1.46	-2.19	-2.41	TDE domain protein, putative
<b>Afu2g13760</b>	-1.64	-1.92	-2.15	plasma membrane SNARE protein (Sec9), putative
<b>Afu2g13830</b>	-2.16	-1.84	-2.28	conserved hypothetical protein
<b>Afu2g13850</b>	-2.3	-3.43	-3.76	protein phosphatase regulatory subunit (Gac1), putative
<b>Afu2g13870</b>	-1.26	-2.65	-2.78	mitochondrial carrier protein, putative
<b>Afu2g13970</b>	-1.75	-2.24	-2.01	conserved hypothetical protein
<b>Afu2g13990</b>	-0.81	-1.71	-2.3	hypothetical protein
<b>Afu2g14090</b>	-0.6	-1.76	-2.08	extragenic suppressor of the bimD6 mutation
<b>Afu2g14110</b>	-2.13	-2.51	-3.38	sulfur metabolite repression control protein SconB, putative
<b>Afu2g14130</b>	-1.31	-2.12	-2.09	ubiquitin C-terminal hydrolase, putative
<b>Afu2g14150</b>	-1.26	-1.66	-2.07	endo-arabinanase, putative
<b>Afu2g14320</b>	-3.68	-3.35	-4.42	HHE domain protein
<b>Afu2g14330</b>	-5.97	-4.81	-5.97	hypothetical protein
<b>Afu2g14340</b>	-3.53	-3.38	-4.06	hypothetical protein
<b>Afu2g14480</b>	-2.29	-1.17	-0.08	oxidoreductase, FAD-binding, putative
<b>Afu2g14530</b>	-2.43	-0.9	-2	esterase D
<b>Afu2g14610</b>	-2.38	0.57	0.02	Oxalate decarboxylase
<b>Afu2g14720</b>	-1.81	-2.13	-2.51	HAPB
<b>Afu2g14780</b>	-2.12	-1.75	-1.82	conserved hypothetical protein
<b>Afu2g14800</b>	-2.04	-1.35	-1.48	HLH transcription factor (Hpa3), putative
<b>Afu2g14820</b>	-2.02	-1.35	-0.59	hypothetical protein
<b>Afu2g14960</b>	-2.66	-2.7	-2.6	thioredoxin, putative
<b>Afu2g15000</b>	-1.1	-1.97	-2.08	Mechanosensitive ion channel family
<b>Afu2g15110</b>	-2.47	-1.92	-2	C2H2 finger domain protein, putative
<b>Afu2g15130</b>	-4.12	-3.08	-2.61	ABC multidrug transporter, putative
<b>Afu2g15140</b>	-2.55	-2.36	-2.23	MSF drug transporter, putative
<b>Afu2g15150</b>	-2.28	-1.26	-0.93	choline transport protein, putative
<b>Afu2g15270</b>	-4.41	-3.57	-3.79	conserved hypothetical protein
<b>Afu2g15440</b>	-0.81	-1.83	-2.38	integral membrane protein, putative
<b>Afu2g15480</b>	-1.65	-2.96	-3.69	hypothetical protein
<b>Afu2g15650</b>	0.78	-0.69	-2.66	DUF323 domain protein
<b>Afu2g15670</b>	-2.47	-2.45	-2.67	hypothetical protein
<b>Afu2g15680</b>	-4.19	-2.34	-3.81	transcription initiation factor iia small chain
<b>Afu2g15740</b>	-0.39	-1.51	-2.03	oxidoreductase, short chain dehydrogenase/reductase family
<b>Afu2g15760</b>	0.18	-0.96	-2.34	poly(A)+ RNA transport protein (UbaA), putative
<b>Afu2g15770</b>	-1.01	-1.94	-2.76	conserved hypothetical protein

<b>Afu2g15800</b>	-3.35	-3.31	-3.78	conserved hypothetical protein
<b>Afu2g15810</b>	-2.11	-1.11	-1.96	conserved hypothetical protein
<b>Afu2g15960</b>	-2.53	-2.36	-2.95	nucleotide binding protein Nbp35, putative
<b>Afu2g16180</b>	-1.78	-2.27	-1.73	hypothetical protein
<b>Afu2g16190</b>	-3.19	-0.81	-0.47	hypothetical protein
<b>Afu2g16240</b>	-2.23	-1.25	-0.45	cell division control protein Cdc25, putative
<b>Afu2g16410</b>	-0.97	-2.19	-2.27	hypothetical protein
<b>Afu2g16440</b>	-1.53	-2.1	-1.71	hypothetical protein
<b>Afu2g16740</b>	-0.59	-1.4	-2.24	hypothetical protein
<b>Afu2g16810</b>	-2.19	-2.87	-3.08	PHD finger domain protein, putative
<b>Afu2g16930</b>	-2.31	-2.33	-1.58	succinate:fumarate antiporter (Acr1), putative
<b>Afu2g16980</b>	-2.6	-1.08	-0.71	hypothetical protein
<b>Afu2g17060</b>	-2.47	-1.89	-1.9	60S ribosome subunit biogenesis protein (Nip7), putative
<b>Afu2g17210</b>	-3.5	-1.48	-2.65	hypothetical protein
<b>Afu2g17220</b>	-2.07	-2.31	-2.08	C2H2 transcription factor (AmdX), putative
<b>Afu2g17310</b>	-2.54	-1.11	-1.7	hypothetical protein
<b>Afu2g17380</b>	-2.93	-2.41	-2.53	hypothetical protein
<b>Afu2g17480</b>	-1.72	-1.99	-2.28	amino acid transporter, putative
<b>Afu2g17510</b>	-2.31	-1.05	-1.27	hypothetical protein
<b>Afu2g17520</b>	-3.51	-1.97	-1.44	GNAT family N-acetyltransferase, putative
<b>Afu2g17850</b>	-2.26	-2.16	-2.88	conserved hypothetical protein
<b>Afu2g18080</b>	-5.78	-2.7	-4.36	LINE-1 class reverse transcriptase, RNaseH, putative
<b>Afu3g00140</b>	-1.86	-2.25	-2.41	hypothetical protein
<b>Afu3g00150</b>	-2.24	-2.63	-2.73	short-chain dehydrogenase/oxidoreductase, putative
<b>Afu3g00240</b>	-0.77	-1.79	-2.28	TPR domain protein
<b>Afu3g00250</b>	-0.77	-2.11	-2.52	salicylate hydroxylase, putative
<b>Afu3g00330</b>	-0.22	-1.65	-2.04	hypothetical protein
<b>Afu3g00500</b>	-4.63	-4.41	-5	integral membrane protein
<b>Afu3g00630</b>	-2.03	-1.17	-1.02	conserved hypothetical protein
<b>Afu3g00640</b>	-2.26	-3.74	-3.54	conserved hypothetical protein
<b>Afu3g00730</b>	-2.31	0.22	1.13	conserved hypothetical protein
<b>Afu3g00800</b>	-1.36	-2.08	-1.71	oxidoreductase, 2OG-Fe(II) oxygenase family, putative
<b>Afu3g00810</b>	-6.16	-4.5	-6.19	cholestenol delta-isomerase, putative
<b>Afu3g00820</b>	-3.9	-3.36	-4.15	putative exported protein
<b>Afu3g00970</b>	-2.57	-0.55	-1.29	hypothetical protein
<b>Afu3g01160</b>	-0.92	-1.94	-2.44	iron-sulfur cluster-binding protein, rieske family domain protein
<b>Afu3g01210</b>	-2.74	-2.47	-1	ThiJ/PfpI family protein
<b>Afu3g01240</b>	-2.58	0.46	2.52	hypothetical protein

<b>Afu3g01300</b>	-5.81	-4.65	-5.26	hypothetical protein
<b>Afu3g01400</b>	-5.59	-3.77	-4.06	ABC multidrug transporter, putative
<b>Afu3g01410</b>	-4.36	-3.01	-3.23	polyketide synthase, putative
<b>Afu3g01820</b>	-1.72	-1.53	-2.15	amino acid permease
<b>Afu3g02090</b>	-2.72	-3.39	-2.87	beta-xylosidase
<b>Afu3g02140</b>	-5.63	-4.47	-4.52	large conductance mechanosensitive channel, putative
<b>Afu3g02320</b>	-1.02	-2.22	-2.49	C2H2 finger domain protein (Kin17), putative
<b>Afu3g02550</b>	-2.7	-1.63	-3.07	conserved hypothetical protein
<b>Afu3g02570</b>	-2.16	-1.49	-2.11	polyketide synthase, putative
<b>Afu3g02780</b>	-0.39	-2.35	-2.87	multidrug transporter, putative
<b>Afu3g03040</b>	-5.97	-3.53	-4.34	conserved hypothetical protein
<b>Afu3g03070</b>	-2.1	-1.21	-1.83	MYND domain protein, putative
<b>Afu3g03120</b>	-4.76	-2.78	-3.35	NA
<b>Afu3g03230</b>	-2.99	-3.37	-3.59	hypothetical protein
<b>Afu3g03290</b>	-3.13	-1.03	-0.83	hypothetical protein
<b>Afu3g03460</b>	-3.78	-3.16	-3.68	HAD superfamily hydrolase, putative
<b>Afu3g03570</b>	-2.12	-2.76	-3.53	67 kDa myosin-cross-reactive antigen family protein
<b>Afu3g03580</b>	-0.56	-1.76	-2.54	Transferase family superfamily
<b>Afu3g03720</b>	-3.05	-1.04	-0.73	hypothetical protein
<b>Afu3g03750</b>	-2.6	-0.05	-0.8	hypothetical protein
<b>Afu3g03940</b>	0.18	-1.4	-2.44	2,3-diketo-5-methylthio-1-phosphopentane phosphatase, putative
<b>Afu3g03960</b>	-3.41	-2.86	-3.81	hypothetical protein
<b>Afu3g03980</b>	-0.74	-1.93	-2.28	cytochrome P450 monooxygenase, putative
<b>Afu3g04000</b>	-2.44	-1.83	-2.27	light regulation of gametogenesis6 protein
<b>Afu3g04060</b>	-1.48	-2.05	-2.61	SNF7 family protein (Fti1), putative
<b>Afu3g04300</b>	-1.01	-1.98	-2.29	hypothetical protein
<b>Afu3g04310</b>	-1.06	-2.73	-3.01	snoRNA binding protein, putative
<b>Afu3g05330</b>	-2.08	-2.39	-2.8	R3H and G-patch domain protein, putative
<b>Afu3g05390</b>	-2.98	-2.52	-2.85	protein-L-isoaspartate O-methyltransferase
<b>Afu3g05400</b>	-0.77	-1.34	-2.1	DnaJ and TPR domain protein
<b>Afu3g05550</b>	-0.69	-1.93	-2.38	OTU-like cysteine protease, putative
<b>Afu3g05560</b>	-1.97	-2.06	-2.52	RSC complex subunit (RSC1), putative
<b>Afu3g05760</b>	-0.49	-2.02	-2.23	C6 transcription factor (Fcr1), putative
<b>Afu3g05820</b>	-0.28	-1.3	-2.26	Zinc finger, ZZ type domain protein
<b>Afu3g06000</b>	-2.69	-3.03	-4.17	conserved hypothetical protein
<b>Afu3g06090</b>	-0.79	-1.53	-2.13	transcription initiation factor TFIID subunit 12, putative
<b>Afu3g06150</b>	-2.09	-1.51	-1.74	NA
<b>Afu3g06230</b>	-2.96	-3.18	-2.74	hypothetical protein

<b>Afu3g06260</b>	-1.39	-1.59	-2.63	translation initiation factor SUI1
<b>Afu3g06380</b>	-2.23	-2.67	-2.64	hypothetical protein
<b>Afu3g06400</b>	-3.01	-3.14	-2.82	hypothetical protein
<b>Afu3g06430</b>	-2.2	-1.95	-1.92	GDP/GTP exchange factor Sec2p, putative
<b>Afu3g06470</b>	-0.64	-1.65	-2.26	DHHC zinc finger membrane protein, putative
<b>Afu3g06480</b>	-1.76	-2.92	-3.42	SET domain containing protein
<b>Afu3g06500</b>	-2.38	-2.31	-2.29	Complex 1 protein (LYR family) family
<b>Afu3g06540</b>	-0.91	-2.19	-3.68	3'-phosphoadenosine-5'-phosphosulfate reductase
<b>Afu3g06690</b>	-1.36	-2.42	-2.98	Rho GTPase Rho3
<b>Afu3g06760</b>	-2.5	-1.75	-1.9	ribosomal protein L37
<b>Afu3g06770</b>	-2.99	-3.55	-3.84	zinc knuckle domain protein
<b>Afu3g06940</b>	-3.52	-2.66	-2.36	C2H2 zinc finger domain protein, putative
<b>Afu3g06950</b>	-1.45	-2.26	-1.53	mitochondrial carrier protein (Rim2), putative
<b>Afu3g07070</b>	-2.17	-0.7	0.18	MYB DNA-binding domain protein
<b>Afu3g07180</b>	-0.73	-2.05	-2.57	pantothenate kinase, putative
<b>Afu3g07530</b>	-2.57	-2.19	-1.63	pH signal transduction protein Pall, putative
<b>Afu3g07570</b>	-2.25	-0.48	-1.09	conserved hypothetical protein
<b>Afu3g07650</b>	-2.06	-1.37	-1.84	pectin methyl esterase, putative
<b>Afu3g07680</b>	-1.23	-2.54	-1.39	ran GTPase activating protein 1 (RNA1 protein)
<b>Afu3g07730</b>	-2.54	-1.25	-1.3	hypothetical protein
<b>Afu3g07800</b>	-2.06	-1.11	-0.15	hypothetical protein
<b>Afu3g07840</b>	-2.66	-2.87	-3.86	hypothetical protein
<b>Afu3g07900</b>	-2.07	-0.18	-1.68	conserved hypothetical protein
<b>Afu3g08040</b>	-2.97	-1.46	-1.95	polymerase (RNA) II (DNA directed) polypeptide D
<b>Afu3g08390</b>	-3.29	-2.93	-3.76	tRNA dihydrouridine synthase (Smm1), putative
<b>Afu3g08450</b>	-1.62	-2.07	-2.19	hypothetical protein
<b>Afu3g08520</b>	-2.4	-2	-2.07	SRF-type transcription factor (RlmA), putative
<b>Afu3g08620</b>	-2.13	-1.25	-1.6	csh3 protein
<b>Afu3g08630</b>	-2.99	-2.55	-2.68	coactivator bridging factor 1 (Mbf1), putative
<b>Afu3g08670</b>	-1.1	-2.05	-1.22	related to L-fucose permease
<b>Afu3g08720</b>	-1.03	-1.65	-2.52	hypothetical protein
<b>Afu3g08750</b>	-1.52	-1.99	-2.7	conserved hypothetical protein
<b>Afu3g08880</b>	-0.54	-2.01	-3.23	conserved hypothetical protein
<b>Afu3g08920</b>	-4.47	-4.65	-4.54	hypothetical protein
<b>Afu3g08990</b>	-2.72	-2.81	-2.79	hypothetical protein
<b>Afu3g09080</b>	-0.9	-1.78	-2.19	Hypothetical protein
<b>Afu3g09190</b>	-2.21	-1.78	-1.99	aldehyde reductase I (ARI), putative
<b>Afu3g09410</b>	-3.75	-1.64	-2.4	reverse transcriptase

<b>Afu3g09430</b>	-5.3	-2.82	-4.23	LINE-1 class reverse transcriptase, RNaseH, putative
<b>Afu3g09640</b>	-2.51	-1.83	-2.35	camp independent regulatory protein
<b>Afu3g09870</b>	-2.43	-1.76	-2.69	hypothetical protein
<b>Afu3g09960</b>	-2.3	-2.27	-2.41	aureobasidin resistance protein Aur1
<b>Afu3g09980</b>	-3.57	-1.81	-1.93	hypothetical protein
<b>Afu3g10100</b>	-1.94	-2.15	-2.37	Sfrs4 protein
<b>Afu3g10120</b>	-2.16	-3.3	-3.52	TATA-box binding protein
<b>Afu3g10130</b>	-1.04	-1.83	-2.52	sarcosine oxidase, putative
<b>Afu3g10150</b>	-1.44	-3.17	-3.81	hypothetical protein
<b>Afu3g10320</b>	-1.8	-2.76	-3.39	Zinc finger, C3HC4 type (RING finger) domain protein
<b>Afu3g10370</b>	-3.28	-1.8	-3.59	conserved hypothetical protein
<b>Afu3g10410</b>	-3.65	-3.11	-3.64	conserved serine-rich protein
<b>Afu3g10480</b>	-0.4	-1.16	-2.79	conserved hypothetical protein
<b>Afu3g10500</b>	-2.85	-2.57	-3.01	hypothetical protein
<b>Afu3g10510</b>	-4.55	-2.17	-1.75	hypothetical protein
<b>Afu3g10530</b>	-3.38	-4.03	-4.48	protein serine/threonine kinase (Ran1), putative
<b>Afu3g10690</b>	-4.73	-3.19	-4.59	calcium-translocating P-type ATPase(PMCA-type),putative
<b>Afu3g10760</b>	-0.28	-1.77	-2.45	phosphoketolase, putative
<b>Afu3g10770</b>	-2.28	-1.68	-1.6	RTA1 domain protein, putative
<b>Afu3g11150</b>	-1.21	-2	-2.79	conserved hypothetical protein
<b>Afu3g11170</b>	-2.06	-2.25	-2.6	hypothetical protein
<b>Afu3g11180</b>	-3.71	-2.73	-2.57	DNA binding protein
<b>Afu3g11230</b>	-1.51	-1.53	-2.15	hypothetical protein
<b>Afu3g11250</b>	-1.05	-2.16	-3.26	C2H2 transcription factor (Swi5), putative
<b>Afu3g11270</b>	-2.18	-1.92	-2.09	hypothetical protein
<b>Afu3g11310</b>	-0.88	-1.9	-2.05	hypothetical protein
<b>Afu3g11330</b>	-1.36	-2.7	-3.75	bZIP transcription factor (AtfA), putative
<b>Afu3g11340</b>	-3.35	-2.1	-2.14	transthyretin domain protein
<b>Afu3g11410</b>	-1.53	-2.37	-3.07	RNA Polymerase II CTD phosphatase Fcp1, putative
<b>Afu3g11530</b>	-1.58	-2.33	-2.9	DnaJ domain protein
<b>Afu3g11540</b>	-1.02	-1.41	-2.04	RE68879p
<b>Afu3g11550</b>	-2.9	-2.5	-3.18	LEA domain protein
<b>Afu3g11610</b>	-2.22	-2.18	-2.33	nucleosome binding protein (Nhp6a), putative
<b>Afu3g11870</b>	-2.37	-2.32	-1.61	F-box and WD40 domain protein, putative
<b>Afu3g11880</b>	-5.7	-2.28	-2.24	hypothetical protein
<b>Afu3g11890</b>	-2.97	-2.09	-2	thermolabile L-asparaginase, putative
<b>Afu3g12000</b>	-5.26	-3.57	-3.18	hypothetical protein
<b>Afu3g12050</b>	-0.82	-1.3	-2.09	F-box domain protein

<b>Afu3g12190</b>	-3.24	-2.33	-2.4	RING finger domain protein, putative
<b>Afu3g12220</b>	-2.89	-1.79	-2.11	ABC transporter, putative
<b>Afu3g12260</b>	-3.23	-1.59	-2.99	hypothetical protein
<b>Afu3g12270</b>	-3.98	-2.2	-3.42	glutathione peroxidase family protein
<b>Afu3g12390</b>	-2.21	-2.37	-1.65	hypothetical protein
<b>Afu3g12410</b>	-3.69	-2.56	-2.53	DNA binding protein
<b>Afu3g12510</b>	-0.44	-1.65	-2.08	vesicular fusion ATPase, putative
<b>Afu3g12530</b>	-1.32	-2.48	-3.84	sensor histidine kinase/response regulator, putative
<b>Afu3g12570</b>	-2.55	-2.24	-2.29	conserved hypothetical protein
<b>Afu3g12830</b>	-2.81	-2.01	-2.45	RTA1 domain protein, putative
<b>Afu3g12920</b>	-2.24	-1.06	-0.88	nonribosomal peptide synthase (GliP), putative
<b>Afu3g12930</b>	-2.95	-3.26	-3.05	dimethylallyl tryptophan synthase (GliD), putative
<b>Afu3g12940</b>	-0.97	-1.54	-2.2	C6 transcription factor, putative
<b>Afu3g13010</b>	-2.31	-1.91	-2.03	conserved hypothetical protein
<b>Afu3g13100</b>	-2.27	-2.52	-2.15	hypothetical protein
<b>Afu3g13160</b>	-2.29	-2.93	-3.34	hypothetical protein
<b>Afu3g13220</b>	-2.04	-1.39	-1.83	hypothetical protein
<b>Afu3g13470</b>	-1.4	-2.13	-2.23	sulfate transporter, putative
<b>Afu3g13480</b>	-0.09	-1.78	-2.37	translation initiation factor 2 alpha subunit, putative
<b>Afu3g13510</b>	-1.51	-0.54	-2.1	flavin containing amine oxidase, putative
<b>Afu3g13530</b>	-1.87	-2.01	-2.08	NA
<b>Afu3g13540</b>	-1.85	-2.11	-1.31	NA
<b>Afu3g13580</b>	-1.46	-2.4	-2.35	dynamamin GTPase, putative
<b>Afu3g13600</b>	-2.67	-1.94	-2.5	C6 transcription factor, putative
<b>Afu3g13650</b>	-1.99	-2.03	-1.38	integral membrane protein
<b>Afu3g13810</b>	-1.48	-2.37	-2.48	integral membrane protein, putative
<b>Afu3g14270</b>	-1.35	-2.06	-2.28	aldo-keto reductase (AKR), putative
<b>Afu3g14480</b>	-1.27	-2.48	-2.2	hypothetical protein
<b>Afu3g14490</b>	-0.36	-1.41	-2.15	Ketol-acid reductoisomerase
<b>Afu3g14540</b>	-3.72	-2.34	-1.97	heat shock protein HSP30, putative
<b>Afu3g14550</b>	-4.37	-2.71	-3.21	DNA repair protein (Rex1), putative
<b>Afu3g14620</b>	-5.12	-3.67	-3.7	extracellular endo-1,5-alpha-L-arabinase, putative
<b>Afu3g14810</b>	-4.02	-3.41	-2.61	pathogenicity associated protein PEP2, putative
<b>Afu3g14820</b>	-2.48	-2.06	-1.81	4-hydroxyphenylpyruvate dioxygenase, putative
<b>Afu3g14860</b>	-1.48	-2.18	-1.74	hypothetical protein
<b>Afu3g14870</b>	-4.14	-4.02	-4.18	hypothetical protein
<b>Afu3g14900</b>	-1.42	-1.72	-2.32	hypothetical protein
<b>Afu3g15040</b>	-2.15	-2.21	-3.06	xenobiotic compound monooxygenase, DszA family

<b>Afu3g15050</b>	-2.15	-2.59	-3.34	Flavin-binding monooxygenase, putative
<b>Afu3g15160</b>	-2.16	-2.69	-2.22	hypothetical protein
<b>Afu3g15170</b>	-1.92	-3.45	-3.53	molybdenum cofactor biosynthesis protein (MoeA), putative
<b>Afu3g15190</b>	-2.14	-0.81	-1.56	periplasmic nitrate reductase, putative
<b>Afu3g15330</b>	-3.71	-1.91	-2.71	hypothetical protein
<b>Afu3g15370</b>	-5.37	-2.77	-4.01	LINE-1 class reverse transcriptase, RNaseH, putative
<b>Afu3g15380</b>	-2.42	-2.04	-2.2	conserved hypothetical protein
<b>Afu4g00180</b>	-4.79	-3.96	-4.37	fatty acid oxygenase, putative
<b>Afu4g00280</b>	-2.39	-0.77	-0.75	hypothetical protein
<b>Afu4g00450</b>	-2.98	-3.84	-4.29	hypothetical protein
<b>Afu4g00710</b>	-1.89	-2.77	-3.6	C6 transcription factor, putative
<b>Afu4g00720</b>	-1.27	-2.8	-4.17	protein phosphatase 2C, putative
<b>Afu4g00730</b>	-5.14	-5.1	-6.21	HHE domain protein
<b>Afu4g00740</b>	-4.29	-5.6	-6.02	hypothetical protein
<b>Afu4g00820</b>	-6.07	-2.45	-4.18	reverse transcriptase, RNaseH
<b>Afu4g00860</b>	-4.56	-4.64	-5.36	conserved hypothetical protein
<b>Afu4g00870</b>	-2.49	-0.66	-0.55	antigenic cell wall galactomannoprotein, putative
<b>Afu4g00930</b>	-2.76	-1.39	-1.67	CorA family metal ion transporter, putative
<b>Afu4g00940</b>	-1.86	-1.6	-2.27	short chain dehydrogenase, putative
<b>Afu4g01240</b>	-2.72	-1.57	-1.62	hypothetical protein
<b>Afu4g05860</b>	-2.31	-1.89	-2.55	mitochondrial NADH-ubiquinone oxidoreductase 20 kD subunit, putative
<b>Afu4g05870</b>	-3.14	-3.51	-4.42	oxidoreductase, short-chain dehydrogenase/reductase family
<b>Afu4g05880</b>	-1.21	-1.93	-2.1	Mpp10 protein superfamily
<b>Afu4g05900</b>	-2.84	-1.65	-2.52	conserved hypothetical protein
<b>Afu4g05990</b>	-1.71	-1.49	-2.33	conserved hypothetical protein
<b>Afu4g06170</b>	-3.37	-2.29	-2.84	conserved hypothetical protein
<b>Afu4g06260</b>	-1.42	-2.07	-2.14	mating-type switch/DNA repair protein Swi10, putative
<b>Afu4g06360</b>	-3.27	-2.88	-3.21	conserved hypothetical protein
<b>Afu4g06530</b>	-1.3	-1.77	-2.99	bZIP transcription factor (MetR), putative
<b>Afu4g06550</b>	-1.56	-1.81	-2.14	RING finger domain protein (Znf1), putative
<b>Afu4g06580</b>	-3.18	-1.89	-2.18	hypothetical protein
<b>Afu4g06730</b>	-1.9	-2.19	-2.84	hypothetical protein
<b>Afu4g06770</b>	-2.15	-1.89	-2.19	iron-sulfur cofactor synthesis protein nifU, putative
<b>Afu4g06830</b>	-3.29	-2.72	-3.37	SUMO conjugating enzyme (UbcI), putative
<b>Afu4g06900</b>	0.33	-1.39	-2.13	asparagine synthetase (glutamine-hydrolyzing) 2
<b>Afu4g06950</b>	-0.08	-0.9	-2.18	related to (VAMP)-associated protein
<b>Afu4g07230</b>	-1.75	-2.2	-3.12	RecQ family helicase RecQ, putative

<b>Afu4g07490</b>	-0.94	-2.32	-2.7	hypothetical protein
<b>Afu4g07550</b>	-1.52	-2.6	-2.87	G-patch domain protein (Spp2), putative
<b>Afu4g07650</b>	-1.18	-1.37	-2.04	peptidyl-prolyl cis-trans isomerase (CypB), putative
<b>Afu4g07660</b>	-2.65	-3.36	-2.77	ATP dependent RNA helicase (Dbp1), putative
<b>Afu4g07850</b>	-1.77	-1.62	-2.28	endoglucanase, putative
<b>Afu4g07880</b>	-1.22	-2.04	-2.25	conserved hypothetical protein
<b>Afu4g07930</b>	-1.29	-2.65	-2.47	hypothetical protein
<b>Afu4g08150</b>	-1.73	-1.78	-2.21	hypothetical protein
<b>Afu4g08380</b>	-2.79	-2.54	-1.39	hypothetical protein
<b>Afu4g08390</b>	-2.14	-2	-2.38	hypothetical protein
<b>Afu4g08410</b>	-0.1	-1.61	-2.15	mannose-6-phosphate isomerase, class I
<b>Afu4g08440</b>	-1.06	-2.54	-3.45	Patatin-like serine hydrolase, putative
<b>Afu4g08490</b>	-1.62	-1.51	-2.2	acyl-CoA dehydrogenase, putative
<b>Afu4g08510</b>	-1.83	-1.7	-2.04	NA
<b>Afu4g08750</b>	-3.58	-1.58	-1.25	hypothetical protein
<b>Afu4g08780</b>	-1.6	-2.91	-3.66	hypothetical protein
<b>Afu4g08790</b>	-2.61	-2.63	-3.21	conserved hypothetical protein
<b>Afu4g08800</b>	-1.68	-2.26	-2.04	ABC a-pheromone efflux pump AtrD
<b>Afu4g08850</b>	-3.9	-1.43	-1.72	hypothetical protein
<b>Afu4g08890</b>	-3.1	-2.02	-1.95	aldo-keto reductase family protein, putative
<b>Afu4g08900</b>	-1.13	-2.23	-2.66	CDK-activating kinase assembly factor MAT1
<b>Afu4g08910</b>	-1.89	-2.07	-2.2	hypothetical protein
<b>Afu4g08960</b>	0.03	-1.72	-3.59	GPI anchored protein, putative
<b>Afu4g09100</b>	-2.17	-1.86	-1.24	DnaJ domain protein
<b>Afu4g09140</b>	-1.24	-1.97	-3.2	ornithine aminotransferase
<b>Afu4g09250</b>	-3.2	-2.41	-2.42	hypothetical protein
<b>Afu4g09670</b>	-2.22	-1.71	-1.75	hypothetical protein
<b>Afu4g09920</b>	-3.79	-1.16	0.7	conserved hypothetical protein
<b>Afu4g10040</b>	-0.56	-1.24	-2.1	Tlg SNARE complex subunit (Tlg2), putative
<b>Afu4g10110</b>	-2.49	-3.28	-3.83	homeobox transcription factor, putative
<b>Afu4g10280</b>	-1.53	-2.48	-3.51	histidine containing phosphotransmitter protein, putative
<b>Afu4g10310</b>	-0.18	-1.37	-2.06	hypothetical protein
<b>Afu4g10340</b>	-2.91	-1.59	-1.68	C6 finger domain protein, putative
<b>Afu4g10530</b>	-2.01	-1.19	-1.67	hypothetical protein
<b>Afu4g10540</b>	-2.52	-2.84	-2.89	bdf1 protein
<b>Afu4g10610</b>	-2.76	0.2	0.24	hypothetical protein
<b>Afu4g10690</b>	-1.99	-2.5	-2.09	Iron-sulfur cluster assembly accessory protein
<b>Afu4g10790</b>	-1.6	-2.68	-3.58	phosphoribosyl diphosphate synthase isoform 4

<b>Afu4g10810</b>	-1.09	-2.13	-1.94	hypothetical protein
<b>Afu4g11110</b>	-0.44	-1.29	-2.92	C2 domain protein
<b>Afu4g11140</b>	-1.03	-1.5	-2.25	DNA polymerase iota, putative
<b>Afu4g11270</b>	-2.79	-2.81	-2.46	hypothetical protein
<b>Afu4g11280</b>	-3.57	-3.54	-4.28	DUF409 domain protein
<b>Afu4g11480</b>	-2.2	-3.03	-2.93	C2H2 finger domain protein, putative
<b>Afu4g11560</b>	-0.62	-1.67	-2.54	vacuolar protein sorting-associated protein vps13
<b>Afu4g11630</b>	-1.51	-1.69	-2.63	hypothetical protein
<b>Afu4g11670</b>	-2.17	-0.14	-1.64	hypothetical protein
<b>Afu4g11710</b>	-5.43	-4.92	-5.94	oxidoreductase, zinc-binding dehydrogenase family superfamily
<b>Afu4g11860</b>	-2.99	-3.04	-2.93	formin binding protein 21
<b>Afu4g11960</b>	-3.57	-3.51	-3.38	Iron only hydrogenase large subunit, C-terminal domain containing protein
<b>Afu4g11970</b>	-3.3	-2.39	-1.96	metallothionein-I gene transcription activator
<b>Afu4g12040</b>	-1.04	-2.23	-3.48	oxidosqualene:lanosterol cyclase
<b>Afu4g12050</b>	-1.5	-1.57	-2.1	thermoresistant gluconokinase
<b>Afu4g12390</b>	-1.37	-2.19	-2.9	cell differentiation protein (Rcd1), putative
<b>Afu4g12490</b>	-4.51	-2.92	-3.94	guanine nucleotide exchange factor VPS9, putative
<b>Afu4g12510</b>	-2.77	-1.82	-0.26	hypothetical protein
<b>Afu4g12550</b>	-1.62	-2.13	-1.64	hypothetical protein
<b>Afu4g12760</b>	-1.55	-1.8	-2.11	SAM binding motif containing protein
<b>Afu4g12910</b>	-2.22	-1.75	-2.19	ubiquitin C-terminal hydrolase CreB
<b>Afu4g13120</b>	-1.55	-2.45	-2.19	glutamine synthetase
<b>Afu4g13150</b>	-0.92	-2.03	-2.69	DUF159 domain protein
<b>Afu4g13180</b>	-0.11	-1.37	-2.05	TPR repeat protein
<b>Afu4g13210</b>	-3.57	-3.84	-3.99	hypothetical protein
<b>Afu4g13220</b>	-3.04	-3.16	-2.65	hypothetical protein
<b>Afu4g13230</b>	-3.81	-3.47	-3.65	regulatory protein weta
<b>Afu4g13240</b>	-1.99	-1.06	-2.03	conserved hypothetical protein
<b>Afu4g13300</b>	-1.77	-2.59	-2.84	hypothetical protein
<b>Afu4g13340</b>	-1.34	-1.71	-2.1	DUF907 domain protein
<b>Afu4g13350</b>	-2.44	-0.92	-0.82	U1 small nuclear ribonucleoprotein C, putative
<b>Afu4g13460</b>	-1.84	-2	-2.26	SNF2 family helicase/ATPase, putative
<b>Afu4g13610</b>	-3.06	-1.63	-1.89	hypothetical protein
<b>Afu4g13620</b>	-2.58	-1.76	-1.81	hypothetical protein
<b>Afu4g13750</b>	-3.03	-0.23	-0.31	Deuterolysin metalloprotease, putative
<b>Afu4g13820</b>	-3.03	-1.63	-2.12	multidrug transporter, putative
<b>Afu4g13970</b>	-3.39	-2.55	-0.42	conserved hypothetical protein

<b>Afu4g14180</b>	-3.39	-0.72	-0.33	hypothetical protein
<b>Afu4g14370</b>	-4.52	-1.01	-3.44	LINE-1 class reverse transcriptase, RNase H, putative
<b>Afu4g14380</b>	-3.04	-1.51	-1.95	conserved hypothetical protein
<b>Afu4g14450</b>	-1.77	-2.37	-1.91	D-mannonate oxidoreductase
<b>Afu4g14510</b>	-1.12	-1.31	-2.01	hypothetical protein
<b>Afu4g14630</b>	-1.15	-2.96	-3.2	FAD binding domain protein
<b>Afu4g14760</b>	-5.77	-3.33	-4.46	ABC multidrug transporter, putative
<b>Afu4g14770</b>	-4.35	-2.81	-2.17	squalene-hopene-cyclase, putative
<b>Afu4g14860</b>	-4.37	-1.81	-2.94	NA
<b>Afu4g14870</b>	-5.9	-2.83	-4.46	LINE-1 class reverse transcriptase, RNaseH, putative
<b>Afu5g00160</b>	-4.01	-3.92	-4.57	MFS polyamine transporter, putative
<b>Afu5g00170</b>	-2.15	-1.85	-2.01	extracellular serine treonine rich protein
<b>Afu5g00650</b>	-3.18	0.58	-0.85	hypothetical protein
<b>Afu5g00760</b>	-0.83	-1.5	-2.4	chitin synthase C
<b>Afu5g00770</b>	-2.15	-1.99	-2.83	integral membrane protein, putative
<b>Afu5g00790</b>	-5.99	-4.5	-5.44	ABC multidrug transporter, putative
<b>Afu5g00800</b>	-4.17	-3.28	-4.73	conserved hypothetical protein
<b>Afu5g00810</b>	-6.76	-5.33	-6.4	hypothetical protein
<b>Afu5g00870</b>	-2.12	-0.93	-1.96	hypothetical protein
<b>Afu5g01020</b>	-1.51	-2.1	-1.5	DUF858 domain protein
<b>Afu5g01190</b>	-3.51	-1.72	1.15	conserved hypothetical protein
<b>Afu5g01220</b>	-2.28	-1.92	-1.47	hypothetical protein
<b>Afu5g01270</b>	-2.68	-2.67	-3.4	C6 transcription factor, putative
<b>Afu5g01280</b>	-3.31	-2.41	-2.64	conserved hypothetical protein
<b>Afu5g01290</b>	-2.36	-3.05	-2.56	zinc-binding oxidoreductase, putative
<b>Afu5g01300</b>	-2.6	-1.93	-1.41	integral membrane protein
<b>Afu5g01340</b>	-2.79	-3.69	-3.68	lysophospholipase, putative
<b>Afu5g01430</b>	-3.69	-2.83	-3.34	ThiJ/PfpI family protein
<b>Afu5g01500</b>	-1.25	-2.18	-1.65	homocysteine S-methyltransferase, putative
<b>Afu5g01510</b>	-1.52	-2.59	-2.37	amino acid transporter
<b>Afu5g01520</b>	-2.1	-1.93	-0.94	major facilitator superfamily protein superfamily
<b>Afu5g01620</b>	-2.14	0.61	0.63	extracellular proline-rich protein
<b>Afu5g01640</b>	-2.2	-1.84	-2.31	ankyrin repeat protein
<b>Afu5g01650</b>	-2.82	-1.73	-0.77	bZIP transcription factor JIbA/IDI-4, putative
<b>Afu5g01670</b>	-2.51	-1.76	-1.98	hypothetical protein
<b>Afu5g01740</b>	-2.34	-2.39	-2.38	deoxyhypusine synthase, putative
<b>Afu5g01840</b>	-1.61	-0.85	-2.07	conserved hypothetical protein
<b>Afu5g01930</b>	-4.66	-3.51	-3.84	hypothetical protein

<b>Afu5g01990</b>	-2.48	0.89	1	BYS1 domain protein, putative
<b>Afu5g02100</b>	-2.47	-1.38	-2.09	hypothetical protein
<b>Afu5g02110</b>	-1.54	-3.09	-3.8	hypothetical protein
<b>Afu5g02200</b>	-2.64	-2.03	-1.04	Mitochondrial import inner membrane translocase subunit (TIM22), putative
<b>Afu5g02260</b>	-2.22	-2.27	-2.37	ABC multidrug transporter, putative
<b>Afu5g02300</b>	-4.03	-3.43	-3.57	peroxidase, putative
<b>Afu5g02320</b>	-2.99	-0.02	-0.26	hypothetical protein
<b>Afu5g02330</b>	-2.51	1.31	1.12	major allergen Asp F1
<b>Afu5g02380</b>	-1.77	-1.93	-2.31	conserved hypothetical protein
<b>Afu5g02390</b>	-0.5	-2.23	-3.03	Auxin Efflux Carrier superfamily
<b>Afu5g02400</b>	-2.51	-3.98	-5.01	catabolite degradation protein, putative
<b>Afu5g02410</b>	-0.68	-2.24	-2.16	DEAD/DEAH box helicase, putative
<b>Afu5g02430</b>	-0.8	-1.35	-2.34	ATP dependent DNA ligase domain protein
<b>Afu5g02560</b>	-2.3	-2.19	-2.5	SCS1 product
<b>Afu5g02580</b>	-2.03	-1.76	-1.65	cell cycle control protein Cwf16, putative
<b>Afu5g02610</b>	-3.13	-2.21	-2.04	cytochrome P450, putative
<b>Afu5g02880</b>	-7.28	-5.53	-6.46	C6 transcription factor, putative
<b>Afu5g02890</b>	-2.46	-3.61	-3.46	conserved hypothetical protein
<b>Afu5g03140</b>	-2.33	-3.11	-3.18	GTP cyclohydrolase I, putative
<b>Afu5g03170</b>	-2.69	-0.74	-1.39	hypothetical protein
<b>Afu5g03230</b>	-3.1	-2	-2.74	stress response RCI peptide, putative
<b>Afu5g03250</b>	-0.86	-1.73	-2.34	ubiquitin C-terminal hydrolase (HAUSP), putative
<b>Afu5g03270</b>	-2.95	-2.14	-3.08	hypothetical protein
<b>Afu5g03330</b>	0.78	-0.47	-2.25	conserved hypothetical protein
<b>Afu5g03340</b>	-2.37	-2.4	-2.37	hypothetical protein
<b>Afu5g03350</b>	-0.02	-1.17	-2.21	glutamine dependent NAD <sup>+</sup> synthetase, putative
<b>Afu5g03390</b>	-2.26	-2.65	-3.17	conserved hypothetical protein
<b>Afu5g03430</b>	0.53	-1	-2.23	PHD transcription factor (Rum1), putative
<b>Afu5g03460</b>	0	-1.33	-2.07	thymidylate kinase
<b>Afu5g03620</b>	-3.8	-2.83	-2.53	endonuclease/transposase
<b>Afu5g03870</b>	-2.17	-1.94	-1.36	conserved hypothetical protein
<b>Afu5g03930</b>	-1.57	-3.06	-3.8	alcohol dehydrogenase, putative
<b>Afu5g03940</b>	-1.43	-2.42	-3.41	alpha-1,3-glucanase, putative
<b>Afu5g04040</b>	-4.66	-2.16	-3	conserved hypothetical protein
<b>Afu5g04060</b>	-2.07	-2.32	-1.67	ubiquitin conjugating enzyme (UbcH), putative
<b>Afu5g04070</b>	-2.11	-1.4	-1.42	Spo11
<b>Afu5g04260</b>	-1.91	-2.63	-1.81	arginine transporter, putative

<b>Afu5g04380</b>	-3.43	-2.89	-3.62	conserved hypothetical protein
<b>Afu5g04410</b>	-1.63	-1.88	-2.56	hypothetical protein
<b>Afu5g05480</b>	-4.02	-4.33	-5.24	Rheb GTPase RhbA
<b>Afu5g05600</b>	-1.56	-2.08	-2.65	forkhead transcription factor (Sep1), putative
<b>Afu5g05610</b>	-3.6	-3.67	-4.29	cell cycle control protein Cwf14, putative
<b>Afu5g05750</b>	-3.01	-2.89	-3.1	protein kinase, putative
<b>Afu5g05780</b>	-2.01	-2.75	-3.29	hypothetical protein
<b>Afu5g05790</b>	-1.95	-2.12	-2.37	ubiquitin ligase subunit HrtA, putative
<b>Afu5g05910</b>	-2.16	-1.62	-1.9	hypothetical protein
<b>Afu5g06040</b>	-0.29	-1.04	-2	UV excision repair protein (RadW), putative
<b>Afu5g06060</b>	-2.73	-2.67	-3.37	sulfur metabolism regulator SkpA, putative
<b>Afu5g06070</b>	-2.71	-2.02	-2.24	ABC multidrug transporter Mdr1
<b>Afu5g06140</b>	-3.15	-3.56	-3.79	histone acetyltransferase, putative
<b>Afu5g06170</b>	-1.2	-2.16	-1.41	conserved hypothetical protein
<b>Afu5g06260</b>	-2.15	-2.26	-3	SNF2 family helicase/ATPase (Ino80), putative
<b>Afu5g06330</b>	-1.62	-2.23	-1.93	RSC complex subunit (Sth1), putative
<b>Afu5g06340</b>	-1.93	-2.69	-2.56	BAR domain protein
<b>Afu5g06370</b>	-0.86	-2.57	-2.67	hypothetical protein
<b>Afu5g06380</b>	-2.06	-1.51	-1.51	hypothetical protein
<b>Afu5g06400</b>	-1.24	-2.38	-2.26	hypothetical protein
<b>Afu5g06470</b>	-2.06	-1.86	-1.89	serine/threonine protein kinase, putative
<b>Afu5g06650</b>	-2.08	-0.62	-1.29	hypothetical protein
<b>Afu5g06690</b>	-2.04	-1.07	-0.5	transcriptional elongation protein Spt4, putative
<b>Afu5g06820</b>	-3.1	-0.37	-1.16	hypothetical protein
<b>Afu5g07020</b>	-0.38	-2.15	-2.4	ABC transporter, putative
<b>Afu5g07060</b>	-1.67	-2.91	-2.81	WD repeat protein
<b>Afu5g07110</b>	-2.05	-2.36	-3.15	integral membrane protein
<b>Afu5g07210</b>	-0.97	-2.59	-2.63	homoserine O-acetyltransferase, putative
<b>Afu5g07250</b>	-1.41	-2.05	-2.12	DUF300 domain protein, putative
<b>Afu5g07310</b>	-2.21	-1.8	-2.09	DUF500 domain protein
<b>Afu5g07460</b>	-2.94	-2.28	-1.69	hypothetical protein
<b>Afu5g07590</b>	-2.32	-1.04	-0.63	hypothetical protein
<b>Afu5g07720</b>	-2.93	-3.3	-2.57	CCCH and RING finger protein
<b>Afu5g07760</b>	-0.43	-1.36	-2.01	tetracycline-efflux transporter, putative
<b>Afu5g07860</b>	-1.37	-2.35	-3.04	phosphatase family protein
<b>Afu5g07870</b>	-1.98	-2.02	-1.49	hypothetical protein
<b>Afu5g07880</b>	-2.22	-3.07	-3.32	a-pheromone receptor PreA
<b>Afu5g07940</b>	-3.91	-3.79	-4.33	hypothetical protein

<b>Afu5g08020</b>	-1.83	-2.86	-2.99	HLH DNA binding protein (Penr2), putative
<b>Afu5g08170</b>	-2.05	-1.67	-1.7	autophagocytosis protein Aut1, putative
<b>Afu5g08200</b>	-0.42	-2.04	-1.14	hypothetical protein
<b>Afu5g08220</b>	-1.27	-2.04	-2.41	hypothetical protein
<b>Afu5g08330</b>	-2.67	-2.7	-3.16	RNA binding protein
<b>Afu5g08550</b>	-1.54	-1.78	-2.13	Rho guanyl nucleotide exchange factor (Rom2), putative
<b>Afu5g08570</b>	0.76	-1.35	-2.05	cAMP-dependent protein kinase catalytic subunit, putative
<b>Afu5g08710</b>	-1.39	-2.27	-2.69	hypothetical protein
<b>Afu5g09060</b>	-2.27	-2.13	-2.3	RNA binding protein, putative
<b>Afu5g09100</b>	-1.56	-2.15	-2.22	MAP kinase, putative
<b>Afu5g09110</b>	-4.23	-3.72	-3.96	NA
<b>Afu5g09170</b>	-1.22	-2.06	-2.47	C2H2 finger domain protein, putative
<b>Afu5g09200</b>	-2.3	-1.99	-1.18	ubiquitin conjugating enzyme (UbcC), putative
<b>Afu5g09230</b>	-0.36	-1.24	-2.43	transaldolase
<b>Afu5g09310</b>	-1.98	-1.86	-2.05	Bax Inhibitor family protein
<b>Afu5g09370</b>	-2.01	-2.23	-1.65	hypothetical protein
<b>Afu5g09440</b>	-3.81	-2.78	-2.12	amino acid permease, putative
<b>Afu5g09690</b>	-2.81	-0.53	-1.52	hypothetical protein
<b>Afu5g09710</b>	-3.08	-1.39	-1.59	separin, putative
<b>Afu5g09770</b>	-2.24	-2.96	-3.29	hypothetical protein
<b>Afu5g09780</b>	-1.05	-1.6	-2.31	MSF multidrug transporter, putative
<b>Afu5g09920</b>	-1.42	-2.3	-2.41	peptidase, putative
<b>Afu5g10160</b>	-2.77	-2.98	-2.5	actVA 4 protein
<b>Afu5g10180</b>	-2.54	-2.02	-1.37	monooxygenase, putative
<b>Afu5g10190</b>	-2.53	-1.96	-1.34	hypothetical protein
<b>Afu5g10200</b>	-2.67	-2.81	-3.01	hypothetical protein
<b>Afu5g10210</b>	-3.23	-2.81	-2.18	hypothetical protein
<b>Afu5g10250</b>	-3.85	-1.57	-1.92	hypothetical protein
<b>Afu5g10260</b>	-2.12	-1.8	-2.23	NA
<b>Afu5g10270</b>	-4.4	-3.02	-2.9	heat shock protein, HSP20 family
<b>Afu5g10420</b>	-0.18	-1.19	-2.23	nitrate reductase, putative
<b>Afu5g10590</b>	-2.06	-1.68	-3	stress response RCI peptide, putative
<b>Afu5g10620</b>	-2.05	-1.57	-2.02	CBF/NF-Y family transcription factor, putative
<b>Afu5g10690</b>	0.25	-2.18	-2.77	monosaccharide transporter
<b>Afu5g10770</b>	-1.68	-2.41	-2.58	topoisomerase II associated protein pat1 homolog
<b>Afu5g10800</b>	-3.46	-2.59	-2.27	G-patch domain protein, putative
<b>Afu5g10830</b>	-1.94	-1.95	-2.35	RNA helicase-like splicing factor (HRH1), putative
<b>Afu5g10850</b>	-1.14	-1.53	-2.08	hypothetical protein

<b>Afu5g10920</b>	0.34	-1.61	-2.55	DUF221 domain protein, putative
<b>Afu5g11020</b>	-1.27	-2.3	-2.25	ammonium transporter
<b>Afu5g11080</b>	-1.69	-1.97	-2.18	MSF multidrug transporter, putative
<b>Afu5g11090</b>	-2.26	-2.54	-2.78	conserved hypothetical protein
<b>Afu5g11120</b>	-2.21	-1.28	-1.18	DNA-directed RNA polymerases i, ii, and iii 145 kDa polypeptide
<b>Afu5g11190</b>	-2.63	-1.29	-1.39	hypothetical protein
<b>Afu5g11250</b>	-2.01	-2.52	-2	polyglutamate biosynthesis protein, putative
<b>Afu5g11260</b>	-3.06	-2.58	-2.91	siderophore transcription factor SreA
<b>Afu5g11510</b>	-1.46	-2.08	-2.02	hypothetical protein
<b>Afu5g11520</b>	-1.81	-2.64	-3.29	serine/threonine protein kinase (Nrc-2), putative
<b>Afu5g11680</b>	-3.75	-3.41	-3.36	hypothetical protein
<b>Afu5g11690</b>	-0.47	-1.62	-2.33	related to protein tyrosine phosphatase PPS1
<b>Afu5g11840</b>	-0.16	-1.73	-2.3	protein kinase, putative
<b>Afu5g12050</b>	-0.95	-1.87	-2.26	DNA ligase, putative
<b>Afu5g12070</b>	-1.01	-1.61	-2.15	conserved hypothetical protein
<b>Afu5g12090</b>	-3.35	-3.11	-3.5	conserved hypothetical protein
<b>Afu5g12100</b>	-1.87	-2.39	-2.69	pmt2 methyltransferase
<b>Afu5g12110</b>	-2.35	-2.99	-3	conserved hypothetical protein
<b>Afu5g12120</b>	-2.11	-2.08	-2.9	autophagy protein Apg16, putative
<b>Afu5g12150</b>	-2.24	-2.39	-3.05	PH domain protein
<b>Afu5g12180</b>	-0.61	-1.05	-2.22	Ran/spi1 binding protein
<b>Afu5g12230</b>	-3.46	-2.91	-2.96	MYND domain protein (SamB), putative
<b>Afu5g12440</b>	-1.99	-2.82	-3.23	cell cycle control protein (Cwf23), putative
<b>Afu5g12580</b>	-1.88	-2.59	-3.33	GTP binding protein (GTPBP1), putative
<b>Afu5g12590</b>	-1.65	-2.17	-2.12	solid-state culture expressed protein (Aos23), putative
<b>Afu5g12630</b>	-3.76	-3	-3.56	hypothetical protein
<b>Afu5g12640</b>	-0.68	-1.82	-2.4	DNA polymerase gamma
<b>Afu5g13050</b>	-3.27	-1.52	-2.24	kinesin family protein
<b>Afu5g13070</b>	-2.47	-2.12	-1.76	hypothetical protein
<b>Afu5g13270</b>	-1.63	-2.51	-2.82	PalH
<b>Afu5g13560</b>	-0.01	-1.59	-2.33	FHA domain protein
<b>Afu5g13590</b>	-0.87	-2.06	-2.14	conserved hypothetical protein
<b>Afu5g13630</b>	-2.73	-1.15	-0.56	EF-hand superfamily protein
<b>Afu5g13760</b>	-2.53	-2.16	-2.23	hypothetical protein
<b>Afu5g13840</b>	-3.13	-2.32	-3.18	NUDIX domain, putative
<b>Afu5g13870</b>	-3.36	-4.53	-4.97	mlo3 protein
<b>Afu5g13930</b>	-1.06	-2.36	-2.64	CCCH finger DNA binding protein, putative
<b>Afu5g13950</b>	-2.08	-0.68	-1.5	conserved hypothetical protein

<b>Afu5g14020</b>	-0.73	-2.43	-2.73	hypothetical protein
<b>Afu5g14070</b>	-2	-0.87	-1.56	conserved hypothetical protein
<b>Afu5g14080</b>	-1.47	-2.68	-2.4	hypothetical protein
<b>Afu5g14200</b>	-1.94	-2.13	-2.75	hypothetical protein
<b>Afu5g14210</b>	-3.1	-0.83	-1.65	glucose-repressible gene protein-related protein
<b>Afu5g14290</b>	-3.58	-2.68	-2.73	C6 transcription factor, putative
<b>Afu5g14300</b>	-1.27	-2.57	-2.78	alpha,alpha-trehalose-phosphate synthase subunit, putative
<b>Afu5g14310</b>	-1.6	-2.49	-2.17	short chain dehydrogenase/reductase family protein
<b>Afu5g14320</b>	-2.68	-3.25	-2.55	hypothetical protein
<b>Afu5g14340</b>	-2.55	-0.75	0.63	oxidoreductase, short-chain dehydrogenase/reductase family, putative
<b>Afu5g14350</b>	-3.96	-4.67	-4.92	c-24(28) sterol reductase
<b>Afu5g14650</b>	-2.32	0.74	1.89	RING finger protein
<b>Afu5g14830</b>	-2.47	-1.49	-1.64	glyoxalase family protein
<b>Afu5g14930</b>	-2.4	-0.32	-0.32	conserved hypothetical protein
<b>Afu5g14990</b>	-3.23	-1.98	-2.49	hypothetical protein
<b>Afu5g15010</b>	-1.73	-1.94	-2.22	arsenite permease (ArsB), putative
<b>Afu6g00170</b>	-2.07	-0.99	-0.04	hypothetical protein
<b>Afu6g00460</b>	-2.75	-3.23	-2.99	hypothetical protein
<b>Afu6g00770</b>	-3.74	-3.94	-4.51	extracellular arabinanase, putative
<b>Afu6g00780</b>	-5.48	-2.79	-4.18	LINE-1 class reverse transcriptase, RNaseH, putative
<b>Afu6g01980</b>	-3.65	-2.05	-2.51	haemolysin-III family protein
<b>Afu6g02020</b>	-3.66	-3.58	-4.66	hypothetical protein
<b>Afu6g02070</b>	-1.29	-2.07	-2.56	phospholipid-translocating P-type ATPase domain-containing protein
<b>Afu6g02110</b>	-2.24	-2.55	-2.99	SRF-type transcription factor (Umc1), putative
<b>Afu6g02290</b>	-3.49	-1.95	-3.11	hypothetical protein
<b>Afu6g02330</b>	-2.5	-2.22	-1.96	hypothetical protein
<b>Afu6g02420</b>	-1.3	-1.48	-2.49	ubiquitin conjugating enzyme (UbcM), putative
<b>Afu6g02580</b>	-3.92	-3.55	-3.82	hypothetical protein
<b>Afu6g02640</b>	-1.59	-2.36	-2.26	hypothetical protein
<b>Afu6g02660</b>	-1.32	-1.79	-2.31	conserved hypothetical protein
<b>Afu6g02680</b>	-3.25	-3.92	-4.69	ankyrin repeat and BTB/POZ domain protein
<b>Afu6g02820</b>	-1.11	-1.98	-3.09	metalloreductase, putative
<b>Afu6g02830</b>	-2.67	-0.98	-0.85	hypothetical protein
<b>Afu6g03080</b>	-3.86	-3.11	-3.54	ABC multidrug transporter, putative
<b>Afu6g03090</b>	-3.65	-2.89	-2.99	cytochrome P450 alkane hydroxylase, putative
<b>Afu6g03120</b>	-1.9	-2.28	-2.52	hypothetical protein

<b>Afu6g03130</b>	-4.14	-3.76	-4.22	hypothetical protein
<b>Afu6g03140</b>	-4.34	-3.78	-3.75	isp4 protein, putative
<b>Afu6g03210</b>	-5.13	-3.77	-5.61	conidiation-specific protein 10
<b>Afu6g03320</b>	-2.35	-1.26	0.7	MFS drug transporter, putative
<b>Afu6g03370</b>	-1.54	-2.62	-2.17	oxidoreductase, short-chain dehydrogenase/reductase family
<b>Afu6g03400</b>	-2.22	0.23	0.14	hypothetical protein
<b>Afu6g03800</b>	-2.11	-0.37	-0.67	hypothetical protein
<b>Afu6g03890</b>	-0.28	-1.36	-2.09	catalase A
<b>Afu6g04310</b>	-1.64	-2.26	-2.57	Pumilio 2
<b>Afu6g04360</b>	-2.29	-2.39	-1.92	ABC drug exporter AtrF
<b>Afu6g04390</b>	-3.06	-4	-4.72	conserved hypothetical protein
<b>Afu6g04470</b>	-4.13	-2.82	-3.11	hypothetical protein
<b>Afu6g04580</b>	-1.7	-1.52	-2.35	NIF domain protein
<b>Afu6g04630</b>	-2.37	-2.17	-1.95	conserved hypothetical protein
<b>Afu6g04820</b>	-2.61	-2.31	-1.24	para-aminobenzoate synthase PabaA
<b>Afu6g04950</b>	-1.12	-1.72	-2.52	mitochondrial GTPase (Mss1), putative
<b>Afu6g05100</b>	-0.66	-1.52	-2.04	6-phosphofructo-2-kinase, putative
<b>Afu6g05120</b>	-0.93	-1.89	-2.96	glycogen synthase kinase-3, putative
<b>Afu6g05140</b>	-1	-2.45	-2.89	sterol delta 5,6-desaturase ERG3
<b>Afu6g05180</b>	-1.97	-2.76	-3.2	splicing factor 3b subunit 4
<b>Afu6g05330</b>	-2.03	-1.78	-2.72	hypothetical protein
<b>Afu6g06540</b>	-2.27	-2.41	-2.08	proteasome component (Ecm29), putative
<b>Afu6g06550</b>	-1.67	-2.01	-1.45	SNF2 family helicase/ATPase, putative
<b>Afu6g06730</b>	-3.41	-2.04	-1.69	l-fucose permease, putative
<b>Afu6g06790</b>	0.12	-1.39	-2.41	mannosyl-oligosaccharide alpha-1,2-mannosidase
<b>Afu6g07170</b>	-1.85	-1.6	-2.18	conserved hypothetical protein
<b>Afu6g07330</b>	-2.05	-3.07	-3.88	methionine aminopeptidase, type I, putative
<b>Afu6g07440</b>	-2.62	-3.1	-3.08	1-phosphatidylinositol-3-phosphate 5-kinase (Fab1), putative
<b>Afu6g07530</b>	-0.29	-1.01	-2.25	bZIP transcription factor, putative
<b>Afu6g07790</b>	-3.66	-1.5	-1.39	hypothetical protein
<b>Afu6g07830</b>	-1.86	-1.82	-2.82	stromal membrane-associated protein
<b>Afu6g08020</b>	-1.95	-1.62	-3.26	ABC transporter, putative
<b>Afu6g08030</b>	-1.57	-2.26	-2.72	hypothetical protein
<b>Afu6g08180</b>	-2.21	-0.15	-0.05	hypothetical protein
<b>Afu6g08270</b>	-2.3	-1.5	-1.69	hypothetical protein
<b>Afu6g08570</b>	-2.29	-0.74	-0.88	DNA damage repair protein Mus42, putative
<b>Afu6g08730</b>	-0.46	-1.54	-2.03	6-phosphogluconate dehydrogenase, decarboxylating
<b>Afu6g08980</b>	-0.16	-1	-2.21	FF domain protein

<b>Afu6g09020</b>	-1.98	-2.59	-2.98	GPI transamidase component Gpi16, putative
<b>Afu6g09090</b>	-2.67	-1.38	-2.38	conserved hypothetical protein
<b>Afu6g09100</b>	-1.31	-1.02	-2.3	hypothetical protein
<b>Afu6g09310</b>	-3.13	-1.89	-1.82	class V chitinase, putative
<b>Afu6g09340</b>	-3.81	-2.23	-3.15	hypothetical protein
<b>Afu6g09460</b>	-3.07	-1.55	-2.28	NA
<b>Afu6g09470</b>	-5.73	-2.67	-3.9	reverse transcriptase, RNaseH, putative
<b>Afu6g09490</b>	-2.42	-1.17	-1.21	NA
<b>Afu6g09570</b>	-2.46	-3.21	-2.26	conserved hypothetical protein
<b>Afu6g09930</b>	-0.94	-1.66	-2.75	bZIP transcription factor (AP-1), putative
<b>Afu6g09940</b>	-1.06	-1.26	-2.32	transposase
<b>Afu6g10050</b>	-2.14	-1.33	-1.16	small oligopeptide transporter, OPT family
<b>Afu6g10150</b>	-3.71	-2.95	-3.22	hypothetical protein
<b>Afu6g10180</b>	-2.51	-2.13	-2.42	hypothetical protein
<b>Afu6g10190</b>	-2.83	-2.31	-2.26	hypothetical protein
<b>Afu6g10240</b>	-0.04	-2.05	-2.5	sensor histidine kinase/response regulator Fos-1
<b>Afu6g10270</b>	-0.1	-1.92	-2.36	NA
<b>Afu6g10290</b>	-2.36	-1.44	-1.74	receptor L domain protein
<b>Afu6g10500</b>	-1.87	-2.87	-2.19	conserved hypothetical protein
<b>Afu6g10530</b>	-2.73	-0.8	-0.73	transcriptional elongation regulator (Elongin C), putative
<b>Afu6g10720</b>	-2.71	-3.52	-4.19	alpha-ketoglutarate-dependent taurine dioxygenase
<b>Afu6g10780</b>	-2.39	-1.83	-2.04	carboxylesterase, putative
<b>Afu6g10790</b>	-4.09	-3.78	-4.12	MFS amine transporter, putative
<b>Afu6g10800</b>	-1.98	-2.44	-2.75	carboxylesterase, putative
<b>Afu6g10840</b>	-3.91	-2.92	-3.34	hypothetical protein
<b>Afu6g10860</b>	-3.2	-2.76	-2.35	hypothetical protein
<b>Afu6g10900</b>	-2.07	-3.24	-4.45	UV-endonuclease UVE-1
<b>Afu6g10950</b>	-3.63	-2.62	-3.22	NA
<b>Afu6g11060</b>	-2.36	-1.67	-1.49	DnaJ domain protein
<b>Afu6g11180</b>	-2.05	-1.4	-1.93	conserved hypothetical protein
<b>Afu6g11250</b>	-1.26	-1.82	-2.21	C2H2 finger domain protein, putative
<b>Afu6g11550</b>	-3.13	-2.9	-2.28	hypothetical protein
<b>Afu6g11670</b>	-1.07	-3.18	-3.12	conserved hypothetical protein
<b>Afu6g11690</b>	-3.21	-2.06	-2.48	NA
<b>Afu6g11810</b>	-2.52	-1.59	-2.11	RTA1 domain protein, putative
<b>Afu6g12000</b>	-3.13	-1.46	-1.74	hypothetical protein
<b>Afu6g12010</b>	-1.64	-1.5	-2.58	glycosyl hydrolase, family 3, putative
<b>Afu6g12200</b>	-3.06	-0.29	-0.33	hypothetical protein

<b>Afu6g12220</b>	-3.24	-2.34	-2.35	isochorismatase family hydrolase, putative
<b>Afu6g12290</b>	-0.1	-0.99	-2.17	PH domain protein
<b>Afu6g12430</b>	-2.91	-2.39	-2.56	Ran-interacting protein MOG1, putative
<b>Afu6g12440</b>	-2.39	-2.53	-2.83	conserved hypothetical protein
<b>Afu6g12450</b>	-2.78	-1.91	-3.65	chaperone/heat shock protein Hsp12, putative
<b>Afu6g12460</b>	-3.07	-2.05	-3.6	conserved hypothetical protein
<b>Afu6g12540</b>	-1.04	-1.72	-2.36	RING finger protein
<b>Afu6g12570</b>	-0.85	-1.72	-2.01	EH domain binding protein epsin 2
<b>Afu6g12640</b>	-2.66	-3.42	-3.22	conserved hypothetical protein
<b>Afu6g12650</b>	-2.95	-2.36	-1.73	conserved hypothetical protein
<b>Afu6g12920</b>	-2.05	-1.14	-1.64	C2H2 finger domain protein, putative
<b>Afu6g13000</b>	-2.48	-1.57	-1.48	NA
<b>Afu6g13020</b>	-3.66	-2.94	-3.23	AP-3 adaptor complex subunit sigma, putative
<b>Afu6g13060</b>	-2.1	-1.14	-2.3	conserved hypothetical protein
<b>Afu6g13130</b>	-0.99	-1.53	-2.13	transcription initiation factor TFIIE, beta subunit, putative
<b>Afu6g13220</b>	-4.08	-3.45	-3.11	hypothetical protein
<b>Afu6g13290</b>	-3.03	-2.78	-3.49	SNF2 family helicase/ATPase, putative
<b>Afu6g13380</b>	-3.05	-0.72	0.66	hypothetical protein
<b>Afu6g13430</b>	-2.6	-1.41	-1.63	multispanning membrane protein, putative
<b>Afu6g13440</b>	-2.87	-2.41	-2.81	choline sulfatase, putative
<b>Afu6g13470</b>	-1.08	-2.09	-2.06	conserved hypothetical protein
<b>Afu6g13580</b>	-2.63	-1.67	-1.59	hypothetical protein
<b>Afu6g13670</b>	-0.51	-2.3	-2.64	conserved hypothetical protein
<b>Afu6g13780</b>	-2.94	-0.74	0.04	multidrug resistant protein, putative
<b>Afu6g13840</b>	-2.1	1.64	1.84	conserved hypothetical protein
<b>Afu6g13940</b>	-3.49	-3.25	-2.86	P450-monooxygenase, putative
<b>Afu6g14130</b>	-3.01	-2.27	-2.84	ubiquitin conjugating enzyme, putative
<b>Afu6g14270</b>	-2.15	-1.34	-2.26	hypothetical protein
<b>Afu6g14380</b>	-2.75	-1.23	-0.78	hypothetical protein
<b>Afu6g14540</b>	-3.06	1.05	1.46	endo-1,3(4)-beta-glucanase, putative
<b>Afu6g14630</b>	-2.13	-1.99	-2.36	conserved hypothetical protein
<b>Afu6g14660</b>	-5.41	-2.64	-3.95	reverse transcriptase, RNaseH
<b>Afu7g00100</b>	-2.09	-1.63	-1.4	LINE-1 class reverse transcriptase, RNaseH, putative
<b>Afu7g00120</b>	-2.21	-0.65	0.2	metallo-beta-lactamase domain protein
<b>Afu7g00180</b>	-2.21	-0.96	0.36	NAD dependent epimerase/dehydratase, putative
<b>Afu7g00220</b>	-3.4	-3.07	-1.63	plasma membrane hexose transporter, putative
<b>Afu7g00270</b>	-1.82	-3.32	-3.46	FAD binding monooxygenase, putative
<b>Afu7g00300</b>	-2.49	-2.47	-1.38	squalene-hopene-cyclase, putative

<b>Afu7g00390</b>	-3.2	-2.55	-2.07	MFS multidrug transporter, putative
<b>Afu7g00400</b>	-4.61	-3.35	-3.33	hypothetical protein
<b>Afu7g00410</b>	-4.57	-3.16	-2.56	C6 transcription factor, putative
<b>Afu7g00450</b>	-3	-1.5	-1.19	GPI anchored protein, putative
<b>Afu7g00470</b>	-2.86	-3.07	-3.21	hypothetical protein
<b>Afu7g00740</b>	-2.37	-1.85	-2.25	protein kinase, putative
<b>Afu7g00860</b>	-2.22	-1.21	-1.3	lipoygenase, putative
<b>Afu7g00870</b>	-2.26	-1.33	-1.19	exonuclease, putative
<b>Afu7g00880</b>	-2.05	-1.71	-1.45	hypothetical protein
<b>Afu7g00960</b>	-2.11	-1.65	-2.19	extracellular cysteine-rich protein, putative
<b>Afu7g00980</b>	-2.96	-2.08	0.66	NA
<b>Afu7g00990</b>	-3.02	-2.57	-0.72	integral membrane protein
<b>Afu7g01030</b>	-2.29	-0.88	-0.44	Calcium-transporting ATPase 1 (PMC1), putative
<b>Afu7g01120</b>	-3.91	-2.26	-1.91	NA
<b>Afu7g01250</b>	-1.44	-2.14	-1.62	hypothetical protein
<b>Afu7g01350</b>	-1.07	-2.34	-2.54	hypothetical protein
<b>Afu7g01380</b>	-3.38	-1.67	-2.4	anaphase promoting complex subunit Apc11, putative
<b>Afu7g01430</b>	-1.88	-2.94	-3.66	opsin 1
<b>Afu7g01440</b>	-1.05	-1.86	-2.44	hypothetical protein
<b>Afu7g01470</b>	-2.02	-1.56	-1.24	integral membrane protein, Mpv17/PMP22 family, putative
<b>Afu7g01620</b>	-1.23	-2.34	-2.58	hypothetical protein
<b>Afu7g01640</b>	-2.01	-1.97	-2.61	C6 transcription factor, putative
<b>Afu7g01780</b>	-4.61	-1.95	-2.67	hypothetical protein
<b>Afu7g01800</b>	-2.59	-1.73	-1.94	AT DNA binding protein, putative
<b>Afu7g01810</b>	-3.13	-2.38	-2.41	C6 transcription factor, putative
<b>Afu7g01850</b>	-2.26	-2.31	-2.62	RNA polymerase Rpc34 subunit superfamily
<b>Afu7g01920</b>	-2.09	-2.56	-3.61	DNA-dependent RNA polymerase II RPB140
<b>Afu7g02010</b>	-4.82	-1.12	0.76	hypothetical protein
<b>Afu7g02050</b>	-1.13	-1.47	-2.38	hypothetical protein
<b>Afu7g02160</b>	-2.52	-1.37	-1.68	DDE superfamily endonuclease/transposase
<b>Afu7g02170</b>	-1.36	-2.35	-2.38	RNA binding protein, putative
<b>Afu7g02210</b>	-2.32	-2.7	-2.94	conserved hypothetical protein
<b>Afu7g02330</b>	-2.18	-1.66	-1.98	hypothetical protein
<b>Afu7g02390</b>	-2.46	-2.27	-2.77	hypothetical protein
<b>Afu7g02420</b>	-1.1	-2.36	-3.21	malate dehydrogenase, putative
<b>Afu7g02440</b>	-2.75	-2.92	-3.18	extracellular conserved glycine-rich protein
<b>Afu7g02600</b>	-0.01	-1.56	-2.32	hypothetical protein
<b>Afu7g02610</b>	-0.25	-2.09	-2.21	WD repeat protein

<b>Afu7g02620</b>	-3.13	-3.07	-3.37	DNA-directed RNA polymerases N/8 kDa subunit superfamily
<b>Afu7g03770</b>	-2.48	-3.48	-3.88	hypothetical protein
<b>Afu7g03780</b>	-2.22	-2.49	-2.92	YT521-B-like splicing factor, putative
<b>Afu7g03820</b>	-1.69	-2.37	-1.84	DNA excision repair protein (Rad16), putative
<b>Afu7g03910</b>	-2.01	-2.08	-2.96	C2H2 zinc finger protein
<b>Afu7g04030</b>	-2.97	-2.14	-2.14	hypothetical protein
<b>Afu7g04100</b>	-1.77	-2.03	-2.24	conserved hypothetical protein
<b>Afu7g04140</b>	-1.77	-2.24	-2.83	L-galactose dehydrogenase (L-GalDH), putative
<b>Afu7g04150</b>	-1.94	-2.38	-1.98	CGI-136 protein
<b>Afu7g04640</b>	-2.17	-2.28	-2.02	conserved hypothetical protein
<b>Afu7g04710</b>	-2.72	-1.87	-1.26	NF-X1 finger transcription factor, putative
<b>Afu7g04860</b>	-1.03	-2.06	-1.41	dimethyladenosine transferase
<b>Afu7g04880</b>	-2.5	-2.23	-1.72	UDP-glucose,sterol transferase
<b>Afu7g04930</b>	-5.13	-4.92	-4.84	alkaline serine protease (PR1), putative
<b>Afu7g04950</b>	-1.81	-4.22	-4.45	lipase, putative
<b>Afu7g05050</b>	-1.9	-3.11	-3.38	hypothetical protein
<b>Afu7g05200</b>	-3.72	-2.53	-3.04	conserved hypothetical protein
<b>Afu7g05230</b>	-2.18	-1.01	-2.03	conserved hypothetical protein
<b>Afu7g05430</b>	-0.59	-2.27	-2.87	nonsense-mediated mRNA decay factor (Upf2), putative
<b>Afu7g05490</b>	-5.31	-4.11	-5.03	hypothetical protein
<b>Afu7g05500</b>	-3.04	-3.41	-3.98	theta class glutathione S-transferase
<b>Afu7g05650</b>	-3	-1.89	-2.16	glutamine-serine rich protein MS8, putative
<b>Afu7g05660</b>	-1.96	-2.11	-1.05	elongation factor EF-3, putative
<b>Afu7g05830</b>	-2.6	-2.1	-0.39	MFS sugar transporter, putative
<b>Afu7g05910</b>	-1.86	-2.03	-2.41	purine permease, putative
<b>Afu7g05980</b>	-1.45	-2	-2.99	small nuclear ribonucleoprotein SmE, putative
<b>Afu7g06040</b>	-2.41	-0.16	-0.19	integral membrane protein, putative
<b>Afu7g06260</b>	-2.49	-3.31	-3.08	alcohol dehydrogenase, zinc-containing
<b>Afu7g06270</b>	-2.87	-2.56	-2.96	cyanamide hydratase
<b>Afu7g06280</b>	-2.78	-2.59	-2.79	conserved hypothetical protein
<b>Afu7g06320</b>	-1.26	-2.07	-2.1	C6 transcription factor, putative
<b>Afu7g06450</b>	-2.12	-0.73	0.17	hypothetical protein
<b>Afu7g06530</b>	-2.08	-1.2	-1.62	hypothetical protein
<b>Afu7g06640</b>	-2.44	-1.7	-1.63	hypothetical protein
<b>Afu7g06840</b>	-5.4	-5.39	-5.98	class III aminotransferase
<b>Afu7g06860</b>	-2.08	-2.15	-1.96	hypothetical protein
<b>Afu7g06870</b>	-1.23	-2.95	-3.71	Tf1-like reverse transcriptase, integrase, putative
<b>Afu7g06880</b>	-2.43	-2.72	-3.02	hypothetical protein

<b>Afu7g06890</b>	-3.62	-4.22	-5.27	Dyp-type peroxidase family protein
<b>Afu7g06900</b>	-1.02	-3.28	-3.63	branched-chain amino acid aminotransferase, putative
<b>Afu7g07050</b>	-2.52	-0.44	-1.29	hypothetical protein
<b>Afu7g07150</b>	-3.37	-1.15	-2.71	NA
<b>Afu7g07160</b>	-2.01	-1.46	-1.87	NA
<b>Afu7g07190</b>	-2.25	-0.6	-1.45	NA
<b>Afu7g08210</b>	-3.59	-0.04	-2.15	reverse transcriptase, putative
<b>Afu7g08220</b>	-1.9	-2.01	-2.59	hypothetical protein
<b>Afu7g08230</b>	-2.95	-1.08	-1.7	NA
<b>Afu7g08260</b>	-1.71	-2	-2.52	hypothetical protein
<b>Afu7g08280</b>	-3.17	-1.77	-1.33	hypothetical protein
<b>Afu7g08300</b>	-2.9	-0.45	-1.11	hypothetical protein
<b>Afu7g08390</b>	-2.34	-1.85	-1.9	hypothetical protein
<b>Afu7g08410</b>	-4.01	-3.07	-3.87	Tc1-mariner transposase, putative
<b>Afu7g08430</b>	-1.83	-2.17	-2.19	hypothetical protein
<b>Afu7g08500</b>	-2.86	-1.12	-2.28	NACHT and WD40 domain protein
<b>Afu7g08560</b>	-1.66	-2.63	-3.29	hypothetical protein
<b>Afu7g08570</b>	-2.17	-3.59	-4.03	hypothetical protein
<b>Afu7g08580</b>	-2.86	-2.63	-3.74	dynamamin GTPase, putative
<b>Afu8g00310</b>	-5.54	-2.6	-4.08	LINE-1 class reverse transcriptase, RNaseH, putative
<b>Afu8g00330</b>	-3.62	-1.43	-2.84	endonuclease/reverse transcriptase/RNaseH, putative
<b>Afu8g00440</b>	-2.3	-1.37	1.5	steroid monooxygenase, putative
<b>Afu8g00450</b>	-2.44	-2.16	-2.14	NA
<b>Afu8g00460</b>	-1.43	-2.27	-2.22	methionine aminopeptidase, type I, putative
<b>Afu8g00520</b>	-2.95	-1.54	1.4	integral membrane protein
<b>Afu8g00620</b>	-2.27	-1.71	-1.66	dimethylallyl tryptophan synthase, putative
<b>Afu8g00970</b>	-1.91	-1.7	-2.09	hypothetical protein
<b>Afu8g00990</b>	-2.65	-1.9	-2.43	F-box domain protein
<b>Afu8g01040</b>	-6.05	-2.92	-4.56	reverse transcriptase, RNaseH
<b>Afu8g01260</b>	-2.58	-2.21	-4.14	hypothetical protein
<b>Afu8g01300</b>	-1.76	-1.63	-2.13	hypothetical protein
<b>Afu8g01330</b>	-4.25	-4.21	-4.46	hypothetical protein
<b>Afu8g01340</b>	-2.82	-2.94	-3.38	MFS sugar transporter, putative
<b>Afu8g01400</b>	-4.96	-3.57	-3.66	mitochondrial carrier protein (Pet8), putative
<b>Afu8g01410</b>	-3.08	-2.99	-2.63	class V chitinase ChiB1
<b>Afu8g01420</b>	-1.79	-2.11	-1.59	quinone oxidoreductase, putative
<b>Afu8g01480</b>	-3.76	-3.64	-2.76	potassium channel, putative
<b>Afu8g01520</b>	-2.45	-3.07	-3.54	Pectinesterase family

<b>Afu8g01530</b>	-3.06	-2.91	-4.54	HHE domain protein
<b>Afu8g01540</b>	-2.5	-0.82	-1.16	hypothetical protein
<b>Afu8g01570</b>	-4.46	-3.41	-4.26	ADP-ribosylglycohydrolase family protein
<b>Afu8g01600</b>	-2.51	-1.84	-1.59	hypothetical protein
<b>Afu8g01610</b>	-3.28	-2.63	-2.7	hypothetical protein
<b>Afu8g01760</b>	-2.7	-1.6	-2.54	hypothetical protein
<b>Afu8g01860</b>	-2.48	-2.1	-3.11	hypothetical protein
<b>Afu8g01930</b>	-2.31	-1.2	-1.12	methyltransferase
<b>Afu8g02110</b>	-3.44	-3.02	-3.28	hypothetical protein
<b>Afu8g02120</b>	-2.93	-0.67	-1.5	conserved hypothetical protein
<b>Afu8g02170</b>	-2.42	-2.68	-2.94	C6 finger domain protein, putative
<b>Afu8g02260</b>	-3.29	-2.36	-1.36	neutral amino acid permease
<b>Afu8g02270</b>	-3.77	-3.11	-3.06	dihydrodipicolinate synthetase family protein
<b>Afu8g02280</b>	-2.78	-2.42	-2.07	C6 transcription factor, putative
<b>Afu8g02290</b>	-4.77	-3.78	-3.97	conserved hypothetical protein
<b>Afu8g02490</b>	-2.35	-1.18	-1.37	hypothetical protein
<b>Afu8g02630</b>	-2.1	-1.53	-2.86	extracellular exo-polygalacturonase, putative
<b>Afu8g02690</b>	-0.67	-1.83	-2.02	alphaN-acetylglucosamine transferase
<b>Afu8g02720</b>	-1.87	-2.41	-2.55	Hex2 protein
<b>Afu8g02750</b>	-2.25	-1.45	-1.25	nucleolar protein CgrA
<b>Afu8g02810</b>	-1.09	-2.26	-2.49	conserved hypothetical protein
<b>Afu8g03930</b>	-0.14	-2.1	-2.72	Hsp70 chaperone (HscA), putative
<b>Afu8g04020</b>	-1.27	-1.27	-2.08	conserved hypothetical protein
<b>Afu8g04030</b>	-2.3	-1.59	-1.88	LMBR1 domain protein, putative
<b>Afu8g04130</b>	-1.76	-1.69	-2.04	C6 transcription factor (Ctf1B), putative
<b>Afu8g04150</b>	-2.06	-2.67	-2.04	MFS transporter, putative
<b>Afu8g04160</b>	-1.2	-2.01	-2.08	folylpolyglutamate synthetase; FPGS
<b>Afu8g04280</b>	-2.63	-0.84	-2.04	conserved hypothetical protein
<b>Afu8g04290</b>	-2.51	-2.68	-2.25	C2H2 finger domain protein, putative
<b>Afu8g04540</b>	-1.51	-1.48	-2.21	C6 transcription factor, putative
<b>Afu8g04550</b>	-2.69	-3.62	-4.06	sulfonate biosynthesis enzyme, putative
<b>Afu8g04560</b>	-0.44	-1.07	-2.05	integral membrane protein
<b>Afu8g04570</b>	0.01	-1.72	-2.75	PWWP domain protein
<b>Afu8g04630</b>	-1.99	-2.05	-1.83	C4-dicarboxylate transporter/malic acid transport protein, putative
<b>Afu8g04780</b>	-1.14	-2.19	-2.74	24 kDa intrinsic membrane protein
<b>Afu8g04860</b>	-2.42	-2.81	-3.34	GPI anchored glycoprotein, putative
<b>Afu8g04870</b>	-1.64	-2.54	-2.77	NAD binding Rossmann fold oxidoreductase, putative
<b>Afu8g04910</b>	-2.02	-1.73	-2.44	choline transport protein, putative

<b>Afu8g04920</b>	-2.25	-3.06	-5.49	LEA domain protein
<b>Afu8g05030</b>	-4.35	-1.96	-2.2	hypothetical protein
<b>Afu8g05050</b>	-2.15	-1.33	-1.84	hypothetical protein
<b>Afu8g05120</b>	-2.44	-4.26	-4.77	hypothetical protein
<b>Afu8g05130</b>	-2.91	-2.53	-2.69	hypothetical protein
<b>Afu8g05140</b>	-1.29	-1.43	-2.48	oxidoreductin
<b>Afu8g05360</b>	-1.93	-2.35	-2.15	conserved hypothetical protein
<b>Afu8g05380</b>	-2.32	-1.91	-2.18	hypothetical protein
<b>Afu8g05470</b>	-2.54	-1.53	-1.53	hypothetical protein
<b>Afu8g05480</b>	-1.84	-2.05	-3.25	CCCH zinc finger protein
<b>Afu8g05490</b>	-1.27	-1.65	-2.34	transcription initiation factor iif, beta subunit
<b>Afu8g05770</b>	-4.79	-3.91	-4.06	hypothetical protein
<b>Afu8g05780</b>	-2	-2.84	-3.09	NACHT and Ankyrin domain protein
<b>Afu8g05870</b>	-3.59	-2.74	-2.77	2-haloalkanoic acid dehalogenase, putative
<b>Afu8g05880</b>	-4.37	-2.35	-2.23	10 kDa chaperonin (GroES/Cpn10), putative
<b>Afu8g06030</b>	-2.06	-2.41	-3	alpha-1,3-glucanase, putative
<b>Afu8g06040</b>	-3.6	-3.31	-3.25	hypothetical protein
<b>Afu8g06080</b>	-3.22	-4.13	-4.33	flavohepotein, putative
<b>Afu8g06290</b>	-5.39	-2.74	-4.07	LINE-1 class reverse transcriptase, RNaseH, putative
<b>Afu8g06450</b>	-2.87	0.87	0.96	Rieske 2Fe-2S family protein, putative
<b>Afu8g06840</b>	-2.32	-1.66	-0.82	oxidoreductase, short chain dehydrogenase/reductase family
<b>Afu8g07050</b>	-2.68	-1.89	-1.25	hypothetical protein
<b>Afu8g07110</b>	-1.96	-2.08	-1.32	alanyl-tRNA synthetase, putative
<b>Afu8g07150</b>	-3.11	-2.83	-3.19	arsenic resistance protein ArsH, putative
<b>Afu8g07210</b>	-1.83	-2.74	-3.09	hydroxymethylglutaryl-CoA synthase

**Table AD.2.5: List of down-regulated genes in the ATCC46645 *ΔpacC* time course.** Genes significantly down-regulated were included if showing a fold change of -2 on a log<sub>2</sub> scale at least in one of the time point datasets. T0 vs T4 = 4 hrs, T0 vs T8 hrs = 8 hrs, T0 vs T16 = 16 hrs.

ORFs	T4 vs T0	T8 vs T0	T16 vs T0	Annotation	Functional classification
Afu2g05700	-5.08	-1.83	-1.95	hypothetical protein	
Afu7g02010	-4.82	-1.12	0.76	hypothetical protein	cytoplasm/"tryptophan 2,3-dioxygenase activity"/NAD biosynthetic process
Afu1g15690	-4.46	-1.85	-1.18	conserved hypothetical protein	
Afu2g12630	-4.18	-0.96	-1.65	allergen Asp F13	
Afu2g08680	-3.93	-1.96	-1.45	hypothetical protein	

Afu4g08850	-3.9	-1.43	-1.72	hypothetical protein	
Afu5g10250	-3.85	-1.57	-1.92	hypothetical protein	
Afu4g09920	-3.79	-1.16	0.7	conserved hypothetical protein	
Afu1g05400	-3.76	-1.93	-1.63	hypothetical protein	
Afu2g04210	-3.75	-0.92	-0.87	conserved hypothetical protein	
Afu6g07790	-3.66	-1.5	-1.39	hypothetical protein	
Afu4g08750	-3.58	-1.58	-1.25	hypothetical protein	
Afu3g09980	-3.57	-1.81	-1.93	hypothetical protein	
Afu2g17520	-3.51	-1.97	-1.44	GNAT family N-acetyltransferase, putative	N-acetyltransferase activity///secondary metabolic process///metabolic process
Afu5g01190	-3.51	-1.72	1.15	conserved hypothetical protein	
Afu1g06580	-3.45	-1.19	-1.78	high expression lethality protein (Hel10), putative	programmed cell death
Afu4g14180	-3.39	-0.72	-0.33	hypothetical protein	
Afu1g14820	-3.36	-1.7	-0.83	hypothetical protein	
Afu2g02270	-3.33	-0.87	-1.22	ribosomal protein S14p/S29e	structural constituent of ribosome///translation///mitochondrial small ribosomal subunit
Afu2g16190	-3.19	-0.81	-0.47	hypothetical protein	
Afu5g00650	-3.18	0.58	-0.85	hypothetical protein	
Afu7g08280	-3.17	-1.77	-1.33	hypothetical protein	
Afu6g09310	-3.13	-1.89	-1.82	class V chitinase, putative	chitinase activity///chitin catabolic process
Afu6g12000	-3.13	-1.46	-1.74	hypothetical protein	
Afu3g03290	-3.13	-1.03	-0.83	hypothetical protein	
Afu2g08520	-3.1	-1.74	-1.82	50S ribosomal protein L14	structural constituent of ribosome///translation///mitochondrial large ribosomal subunit
Afu5g06820	-3.1	-0.37	-1.16	hypothetical protein	
Afu5g14210	-3.1	-0.83	-1.65	glucose-repressible gene protein-related protein	
Afu5g09710	-3.08	-1.39	-1.59	separin, putative	spindle///mitotic sister chromatid separation///cytoplasm///nucleus///regulation of exit from mitosis///cysteine-type endopeptidase activity
Afu1g02620	-3.07	-1.13	-1.38	hypothetical protein	

**Table AD.2.6: 30 ORFs with the lowest log<sub>2</sub> values among down-regulated genes unique to the 4 hrs time point of the ATCC46645 *ΔpacC* time course.**

ORFs	T4 vs T0	T8 vs T0	T16 vs T0	Annotation	Functional classification
Afu5g04260	-1.91	-2.63	-1.81	arginine transporter, putative	basic amino acid transmembrane transporter activity///arginine permease activity///lysine permease activity///basic amino acid transport///plasma membrane
Afu3g07680	-1.23	-2.54	-1.39	ran GTPase activating protein 1 (RNA1 protein)	rRNA metabolic process///ribosomal subunit export from nucleus///rRNA export from nucleus///protein import into nucleus///cytosol///nucleus///Ran GTPase activator activity

Afu2g11250	-1.58	-2.42	-1.56	aryl-alcohol dehydrogenase (AAD), putative	cellular component unknown///aryl-alcohol dehydrogenase activity///cellular aldehyde metabolic process
Afu7g04150	-1.94	-2.38	-1.98	CGI-136 protein	mitochondrion///protein import into mitochondrial matrix///molecular function unknown
Afu7g03820	-1.69	-2.37	-1.84	DNA excision repair protein (Rad16), putative	nucleotide-excision repair, DNA damage recognition///repairosome///nucleotide-excision repair factor 4 complex///DNA-dependent ATPase activity
Afu4g14450	-1.77	-2.37	-1.91	D-mannonate oxidoreductase	mannitol dehydrogenase activity///cellular component unknown
Afu1g05040	-1.2	-2.27	-1.45	protein mitochondrial targeting protein (Mas1), putative	Hsp70/Hsc70 protein regulator activity///cytosol///protein targeting to mitochondrion///chaperone regulator activity///ATPase activator activity
Afu2g16180	-1.78	-2.27	-1.73	hypothetical protein	
Afu2g08740	-1.99	-2.26	-1.54	ZIP metal ion transporter, putative	zinc ion transport///cellular zinc ion homeostasis///zinc ion transmembrane transporter activity///vacuolar membrane
Afu3g06950	-1.45	-2.26	-1.53	mitochondrial carrier protein (Rim2), putative	mitochondrial genome maintenance///mitochondrion///transporter activity
Afu1g13060	-1.02	-2.24	-1.97	regulator of nonsense transcripts, putative	nucleic acid binding///"nuclear-transcribed mRNA catabolic process, nonsense-mediated decay"///polysome///cytoplasm///ATP-dependent helicase activity///mRNA catabolic process///ATPase activity///regulation of translational termination
Afu5g06330	-1.62	-2.23	-1.93	RSC complex subunit (Sth1), putative	chromatin remodeling///DNA helicase activity///meiosis///nucleus///ATPase activity
Afu1g16850	-1.3	-2.21	-1.94	sur2 protein	sphingolipid biosynthetic process///sphingosine hydroxylase activity///endoplasmic reticulum///sphingolipid metabolic process
Afu1g06220	-1.74	-2.21	-1.32	ATP-dependent RNA helicase , putative	nucleolus///35S primary transcript processing///ATP-dependent RNA helicase activity
Afu5g01500	-1.25	-2.18	-1.65	homocysteine S-methyltransferase, putative	cytoplasm///homocysteine S-methyltransferase activity///sulfur amino acid metabolic process
Afu3g14860	-1.48	-2.18	-1.74	hypothetical protein	
Afu5g06170	-1.2	-2.16	-1.41	conserved hypothetical protein	
Afu7g01250	-1.44	-2.14	-1.62	hypothetical protein	
Afu4g10810	-1.09	-2.13	-1.94	hypothetical protein	
Afu4g12550	-1.62	-2.13	-1.64	hypothetical protein	
Afu1g10610	-1.97	-2.11	-1.75	hypothetical protein	
Afu8g01420	-1.79	-2.11	-1.59	quinone oxidoreductase, putative	oxidoreductase activity///zinc ion binding///metabolic process

Afu7g05660	-1.96	-2.11	-1.05	elongation factor EF-3, putative	cytosolic ribosome (sensu Eukaryota)///translational elongation///ATPase activity///translation elongation factor activity
Afu2g16440	-1.53	-2.1	-1.71	hypothetical protein	
Afu5g01020	-1.51	-2.1	-1.5	DUF858 domain protein	S-adenosylmethionine-dependent methyltransferase activity///cytoplasm///biological process unknown
Afu3g00800	-1.36	-2.08	-1.71	oxidoreductase, 2OG-Fe(II) oxygenase family, putative	oxidoreductase activity///metabolic process
Afu8g07110	-1.96	-2.08	-1.32	alanyl-tRNA synthetase, putative	
Afu7g04860	-1.03	-2.06	-1.41	dimethyladenosine transferase	nucleolus///rRNA modification///35S primary transcript processing///"rRNA (adenine-N6,N6)-dimethyltransferase activity"
Afu3g08670	-1.1	-2.05	-1.22	related to L-fucose permease	

**Table AD.2.7: 30 ORFs with the lowest log<sub>2</sub> values among down-regulated genes unique to the 8 hrs time point of the ATCC46645 *ΔpacC* time course.**

ORFs	T4 vs T0	T8 vs T0	T16 vs T0	Annotation	Functional classification
Afu4g08960	0.03	-1.72	-3.59	GPI anchored protein, putative	
Afu6g08020	-1.95	-1.62	-3.26	ABC transporter, putative	ATP-binding cassette (ABC) transporter activity///transport///integral to membrane
Afu4g09140	-1.24	-1.97	-3.2	ornithine aminotransferase	arginine catabolic process///cytoplasm///nucleus///ornithine-oxo-acid transaminase activity
Afu6g02820	-1.11	-1.98	-3.09	metalloreductase, putative	oxidoreductase activity, oxidizing metal ions, NAD or NADP as acceptor///transition metal ion transport///integral to membrane///cellular iron ion homeostasis
Afu4g06530	-1.3	-1.77	-2.99	bZIP transcription factor (MetR), putative	regulation of sulfur metabolic process///transcription///transcription factor activity///nucleus
Afu6g05120	-0.93	-1.89	-2.96	glycogen synthase kinase-3, putative	proteolysis///sporulation (sensu Saccharomyces)///glycogen synthase kinase 3 activity///cytoplasm///protein amino acid phosphorylation///response to stress
Afu4g11110	-0.44	-1.29	-2.92	C2 domain protein	cellular component unknown///biological process unknown///molecular function unknown
Afu1g14770	-1.05	-1.96	-2.91	tRNA dihydrouridine synthase, putative	tRNA modification///cytoplasm///nucleus///tRNA dihydrouridine synthase activity

Afu6g07830	-1.86	-1.82	-2.82	stromal membrane-associated protein	clathrin-coated vesicle///ER to Golgi vesicle-mediated transport///ARF GTPase activator activity///intra-Golgi vesicle-mediated transport
Afu1g03090	-1.14	-1.82	-2.81	conserved hypothetical protein	fungal-type vacuole///biological process unknown///molecular function unknown
Afu2g07610	-0.17	-1.79	-2.8	alcohol dehydrogenase PAN2	oxidoreductase activity///metabolic process
Afu2g08170	-1.74	-1.92	-2.8	hypothetical protein	
Afu3g10480	-0.4	-1.16	-2.79	conserved hypothetical protein	
Afu2g09630	-0.89	-1.67	-2.79	hypothetical protein	
Afu2g15770	-1.01	-1.94	-2.76	conserved hypothetical protein	cell wall organization///cytoplasm///molecular function unknown
Afu8g04570	0.01	-1.72	-2.75	PWWP domain protein	
Afu6g09930	-0.94	-1.66	-2.75	bZIP transcription factor (AP-1), putative	response to drug///response to oxidative stress///cytoplasm///transcription///transcription factor activity///nucleus
Afu1g09750	-1.21	-1.7	-2.74	aldehyde reductase (AKR1), putative	aldo-keto reductase activity///cytoplasm///nucleus///cellular aldehyde metabolic process
Afu2g04740	-0.44	-1.8	-2.71	vacuolar sorting-associated protein (Vps27), putative	protein retention in Golgi apparatus///endosome///protein binding///zinc ion binding
Afu3g08750	-1.52	-1.99	-2.7	conserved hypothetical protein	cytoplasm///biological process unknown///molecular function unknown
Afu1g03150	-1.17	-1.95	-2.69	c-14 sterol reductase	endoplasmic reticulum///ergosterol biosynthetic process///C-14 sterol reductase activity
Afu1g12900	-1.04	-1.93	-2.67	Leucine Rich Repeat domain protein	negative regulation of microtubule depolymerization///cell wall organization///microtubule///structural constituent of cytoskeleton
Afu2g15650	0.78	-0.69	-2.66	DUF323 domain protein	
Afu1g03410	-1.06	-1.2	-2.66	DNA primase large subunit	DNA replication initiation///lagging strand elongation///"DNA replication, synthesis of RNA primer"///alpha DNA polymerase:primase complex///alpha DNA polymerase activity///DNA synthesis during DNA repair
Afu1g10040	-0.85	-1.57	-2.65	HMG box protein, putative	
Afu2g11180	-1.54	-1.99	-2.65	developmental regulator FlbA	regulation of sporulation resulting in formation of a cellular spore///pheromone-dependent signal transduction involved in conjugation with cellular fusion///response to pheromone during conjugation with cellular fusion///response to stress
Afu3g06260	-1.39	-1.59	-2.63	translation initiation factor SUI1	ribosome///translation initiation factor activity///translational initiation
Afu4g11630	-1.51	-1.69	-2.63	hypothetical protein	
Afu2g05630	-0.86	-1.7	-2.6	hypothetical protein	

Afu6g12010	-1.64	-1.5	-2.58	glycosyl hydrolase, family 3, putative	carbohydrate metabolic process/"hydrolase activity, hydrolyzing O-glycosyl compounds"
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**Table AD.2.8: 30 ORFs with the lowest log<sub>2</sub> values between the down-regulated genes unique to the 16 hrs time point of the ATCC46645  $\Delta pacC$  time course.**

**AD.3 *A. fumigatus* ATCC46645  $\Delta pacC$ /ATCC46645 log<sub>2</sub> ratio comparison during initiation of murine infection**

Locus	T0 vs T4	T0 vs T8	T0 vs T16	Common Name
<b>Afu1g00300</b>	0.86	1.76	1.68	Ankyrin repeat protein
<b>Afu1g00420</b>	1.19	2.51	3.73	carboxypeptidase S1, putative
<b>Afu1g00480</b>	1.18	0.97	1.61	glucosamine-6-phosphate deaminase, putative
<b>Afu1g00540</b>	1.37	0.83	1.81	beta-N-acetylglucosaminidase, putative
<b>Afu1g01050</b>	1.80	0.79	1.57	conserved hypothetical protein
<b>Afu1g01220</b>	1.57	0.23	0.41	conserved hypothetical protein
<b>Afu1g01260</b>		0.26	1.56	MFS transporter, putative
<b>Afu1g01430</b>	1.20	1.20	1.67	hypothetical protein
<b>Afu1g01450</b>	0.51	1.66	3.17	toxin biosynthesis protein, putative
<b>Afu1g01730</b>	2.43	2.13	2.35	glycosyl hydrolase, putative
<b>Afu1g01800</b>	0.86	0.89	1.82	MFS transporter, putative
<b>Afu1g01850</b>	1.17	1.26	1.51	hypothetical protein
<b>Afu1g02730</b>	1.89	1.83	1.82	mitochondrial phosphate carrier protein (Ptp), putative
<b>Afu1g02770</b>	0.49	0.39	1.82	hypothetical protein
<b>Afu1g03440</b>	0.99	0.20	1.59	peroxisomal carrier protein, putative
<b>Afu1g03490</b>	2.61	1.83	1.83	conserved hypothetical protein
<b>Afu1g03570</b>	3.70	5.10	5.09	acid phosphatase PHOa
<b>Afu1g03730</b>	0.84	0.62	2.19	MFS transporter, putative
<b>Afu1g03800</b>	1.59	0.80	0.33	C6 transcription factor, putative
<b>Afu1g04520</b>	1.53	0.26	0.48	Hypothetical protein
<b>Afu1g05170</b>	0.94	0.59	1.93	related to monocarboxylate transporter
<b>Afu1g05550</b>	0.83	0.31	1.53	conserved hypothetical protein
<b>Afu1g05670</b>	2.63	1.78		conserved hypothetical protein
<b>Afu1g05790</b>	0.81	1.33	1.53	GPI anchored serine-rich protein

<b>Afu1g06900</b>	0.67	0.54	1.55	C2H2 transcription factor (Crz1), putative
<b>Afu1g06980</b>	1.51	0.95	0.97	mitochondrial small ribosomal subunit protein S4, putative
<b>Afu1g06990</b>	-2.81	1.85	-1.80	NA
<b>Afu1g07140</b>	1.65	0.10		c-24(28) sterol reductase
<b>Afu1g07350</b>	1.71	1.26	0.54	RNA12 protein, putative
<b>Afu1g08800</b>	-0.98	1.80	-0.66	cytochrome P450 phenylacetate hydroxylase, putative
<b>Afu1g08910</b>	1.02	0.84	2.64	conserved hypothetical protein
<b>Afu1g09140</b>	2.02	0.65		hypothetical protein
<b>Afu1g09630</b>	1.36	0.65	1.68	PAB1 binding protein (Pbp1), putative
<b>Afu1g10130</b>	1.55	0.80	1.19	adenosylhomocysteinase
<b>Afu1g10210</b>	1.56	0.71	0.75	hypothetical protein
<b>Afu1g10220</b>	2.07	1.44	0.52	hypothetical protein
<b>Afu1g10310</b>	1.73	0.56	0.97	RNase L inhibitor of the ABC superfamily, putative
<b>Afu1g10630</b>	1.54	1.34	1.48	S-adenosylmethionine synthetase
<b>Afu1g10950</b>	1.58	0.79	0.44	conserved hypothetical protein
<b>Afu1g11060</b>	2.09	1.90	2.11	ubiquitin domain protein, putative
<b>Afu1g11250</b>	3.06	1.53	2.96	amidohydrolase, putative
<b>Afu1g11280</b>	1.34	1.24	1.90	oxidoreductase, putative
<b>Afu1g11760</b>	2.25	0.98	1.30	hypothetical protein
<b>Afu1g11890</b>	2.28	1.14	0.63	serine palmitoyltransferase 2, putative
<b>Afu1g12240</b>	2.38	4.67	4.83	MFS peptide transporter, putative
<b>Afu1g12900</b>	1.58	1.08	0.78	Leucine Rich Repeat domain protein
<b>Afu1g12930</b>	1.56	1.02	0.43	G protein complex alpha subunit GpaB
<b>Afu1g12950</b>	1.65	1.19	0.98	mKIAA0241 protein
<b>Afu1g13060</b>	0.78	0.22	1.58	regulator of nonsense transcripts, putative
<b>Afu1g13310</b>	0.78	1.51	1.30	hypothetical protein
<b>Afu1g13660</b>	0.74	1.00	1.59	phenol 2-monooxygenase, putative
<b>Afu1g13980</b>	1.96	0.30	1.51	conserved hypothetical protein
<b>Afu1g14890</b>	1.74	0.51	0.20	cpdP protein, putative
<b>Afu1g15260</b>	1.71			hypothetical protein
<b>Afu1g15340</b>	1.78	1.16	0.74	polymerase
<b>Afu1g15440</b>	2.43	2.29	1.82	alpha-1,3-glucan synthase, putative
<b>Afu1g15650</b>	-1.87	1.53		hypothetical protein

<b>Afu1g15850</b>	1.82	1.39	0.56	C6 transcription factor, putative
<b>Afu1g15940</b>	2.10	1.67	1.75	Auxin Efflux Carrier superfamily
<b>Afu1g16920</b>	2.17	2.27	1.25	beta-xylosidase A
<b>Afu1g17430</b>	1.75	0.25		tyrosinase
<b>Afu1g17440</b>	0.67	-0.02	1.92	ABC drug exporter AbcA
<b>Afu1g17480</b>	-0.12	1.00	1.81	conserved hypothetical protein
<b>Afu1g17490</b>	0.85	0.43	1.59	glucokinase regulator family protein, putative
<b>Afu1g17670</b>	-0.21		1.87	salicylate hydroxylase, putative
<b>Afu2g00140</b>	1.14	1.07	2.44	FAD monooxygenase, putative
<b>Afu2g00150</b>	2.46	1.87	0.85	catecholamine-O-methyltransferase, putative
<b>Afu2g00170</b>	0.64	1.55	1.34	glutathione-dependent formaldehyde dehydrogenase
<b>Afu2g00180</b>	1.65	2.35	2.35	neutral amino acid permease
<b>Afu2g00260</b>	0.75	-0.34	1.74	phenylacetaldoxime dehydratase family protein, putative
<b>Afu2g00430</b>	1.02	1.37	1.68	exo-beta-1,3-glucanase, putative
<b>Afu2g00680</b>	0.69	1.48	1.80	glycosyl hydrolase, putative
<b>Afu2g00690</b>	0.86	3.87	4.29	glucan 1,4-alpha-glucosidase, putative
<b>Afu2g00710</b>		2.77	3.15	alpha-amylase, putative
<b>Afu2g01110</b>	-0.46	0.07	2.23	hypothetical protein
<b>Afu2g01230</b>	0.13	0.48	1.63	dihydrodipicolinate synthetase family protein
<b>Afu2g01330</b>	0.91	0.10	1.78	exosome complex subunit Rrp46, putative
<b>Afu2g01410</b>	0.47	0.13	1.96	aldo-keto reductase, putative
<b>Afu2g01430</b>	1.14	0.74	1.65	hypothetical protein
<b>Afu2g02570</b>	0.97	0.53	1.59	F-box domain protein
<b>Afu2g03490</b>	1.55	0.96	0.02	calcium/calmodulin-dependent protein kinase, putative
<b>Afu2g03510</b>	2.10	2.60	3.27	pheromone processing carboxypeptidase (Sxa2), putative
<b>Afu2g03860</b>	2.98	3.33	4.04	plasma membrane low affinity zinc ion transporter, putative
<b>Afu2g03920</b>	1.59	0.18		G1/S-specific cyclin, putative
<b>Afu2g04000</b>	1.72	1.15	-0.15	Png1p
<b>Afu2g04080</b>	0.65	0.84	2.14	GPR/FUN34 family protein
<b>Afu2g04100</b>	1.70	1.04		hypothetical protein
<b>Afu2g05250</b>	1.58	0.68		RfeD
<b>Afu2g05320</b>	1.04	1.70	1.83	ion transporter
<b>Afu2g05330</b>	2.74	2.14		vacuolar H <sup>+</sup> /Ca <sup>2+</sup> exchanger

<b>Afu2g05840</b>	1.24	1.79	1.61	multidrug transporter, putative
<b>Afu2g05880</b>	1.57	0.89	-0.19	ammonium transporter MEAA
<b>Afu2g06080</b>	1.58	1.05	1.52	GTPase activating protein (Gyp1), putative
<b>Afu2g08820</b>	1.02	1.34	2.62	hypothetical protein
<b>Afu2g09150</b>	1.65	1.26	0.76	adenosine deaminase
<b>Afu2g09350</b>	0.36	1.04	1.75	endo-beta-1,6-glucanase, putative
<b>Afu2g09820</b>	1.20	0.73	1.76	conserved hypothetical protein
<b>Afu2g09860</b>	3.36	4.37	4.33	purine-cytosine permease
<b>Afu2g10110</b>	0.99	0.41	1.55	hypothetical protein
<b>Afu2g10690</b>	1.58	2.54	3.41	MFS phosphate transporter, putative
<b>Afu2g11420</b>	1.08	0.47	2.41	MFS transporter, putative
<b>Afu2g11580</b>	2.42	1.18		mfs-multidrug-resistance transporter
<b>Afu2g11620</b>	1.67	1.10	1.78	alpha-glucosidase, putative
<b>Afu2g11740</b>	0.60	0.14	1.74	LON domain serine protease, putative
<b>Afu2g11920</b>	1.52	0.68	1.55	hypothetical protein
<b>Afu2g12550</b>	2.67	0.90	0.15	multidrug resistant protein, putative
<b>Afu2g12850</b>	0.24	2.91	2.60	1,3-beta-glucanosyltransferase Gel3
<b>Afu2g13050</b>	0.15	-0.12	1.65	arylesterase/monooxygenase
<b>Afu2g13390</b>	1.39	0.68	1.53	MFS transporter, putative
<b>Afu2g13510</b>	2.20	0.91	1.67	DUF300 domain protein, putative
<b>Afu2g14330</b>	-0.18	1.50	1.14	hypothetical protein
<b>Afu2g14460</b>	0.30	0.57	1.63	oxidoreductase, short-chain dehydrogenase/reductase family
<b>Afu2g14470</b>	0.82	0.44	1.71	oxidoreductase, FAD-binding, putative
<b>Afu2g14590</b>	2.10	1.51	0.96	MFS monosaccharide transporter, putative
<b>Afu2g14760</b>	1.72	1.08	0.23	BCS1-like ATPase, putative
<b>Afu2g15240</b>	1.82	3.91	5.28	small oligopeptide transporter, OPT family
<b>Afu2g15380</b>	-0.08	-0.44	1.53	hypothetical protein
<b>Afu2g16060</b>	1.44	1.47	1.93	conserved hypothetical protein
<b>Afu2g16180</b>	1.29	1.38	1.64	hypothetical protein
<b>Afu2g16540</b>	2.51	4.03	1.39	C2H2 finger domain protein, putative
<b>Afu2g16860</b>	2.54	3.40	3.14	membrane transporter
<b>Afu2g16930</b>	-0.10	0.64	1.51	succinate:fumarate antiporter (Acr1), putative
<b>Afu2g17140</b>	-0.72	0.35	1.89	conserved hypothetical protein

<b>Afu2g17480</b>	2.08	2.84	1.69	amino acid transporter, putative
<b>Afu2g17600</b>	0.57	1.14	1.82	polyketide synthetase PksP
<b>Afu2g17630</b>	0.10	1.41	1.91	hypothetical protein
<b>Afu2g17730</b>	1.67	2.51	3.17	MFS multidrug transporter, putative
<b>Afu2g17770</b>	1.50	3.49	3.71	conserved hypothetical protein
<b>Afu2g17780</b>	2.38	1.97	2.61	hypothetical protein
<b>Afu2g17790</b>	3.90	5.42	5.17	amino acid transporter, putative
<b>Afu2g17800</b>	2.69	4.33	3.94	C6 transcription factor, putative
<b>Afu2g17830</b>		1.96	3.39	hypothetical protein
<b>Afu2g17840</b>		2.37	3.27	MFS transporter, putative
<b>Afu2g17860</b>	0.97	-0.06	1.72	C6 transcription factor, putative
<b>Afu2g18080</b>	-2.85	1.57	-1.03	LINE-1 class reverse transcriptase, RNaseH, putative
<b>Afu3g00470</b>	1.78	4.62	5.05	endo-1,4-beta-xylanase, putative
<b>Afu3g00550</b>		2.81	2.32	hypothetical protein
<b>Afu3g00560</b>	1.75	2.20	1.51	conserved hypothetical protein
<b>Afu3g00690</b>	1.84	0.66		C6 transcription factor, putative
<b>Afu3g00860</b>	0.77	0.95	1.55	hypothetical protein
<b>Afu3g01940</b>	1.35	2.59	2.49	MFS multidrug transporter, putative
<b>Afu3g01950</b>	0.42	1.33	1.51	alcohol dehydrogenase, zinc-containing
<b>Afu3g02040</b>	3.75	5.25	4.76	glycosyl hydrolase, putative
<b>Afu3g02090</b>	0.14	-0.48	1.53	beta-xylosidase
<b>Afu3g02130</b>			2.24	oxidoreductase, zinc-binding, putative
<b>Afu3g02640</b>	0.58	0.83	2.22	nucleoside-diphosphate-sugar epimerase family protein
<b>Afu3g02970</b>	1.64	4.99	4.89	aspergillopepsin, putative
<b>Afu3g03040</b>	-0.07	1.28	2.21	conserved hypothetical protein
<b>Afu3g03290</b>	-0.08	1.62	1.73	hypothetical protein
<b>Afu3g03330</b>	-0.17	3.24	3.83	mitochondrial enoyl reductase, putative
<b>Afu3g03350</b>	0.82	3.37	4.84	nonribosomal peptide synthase, putative
<b>Afu3g03360</b>	0.26	2.40	4.29	hypothetical protein
<b>Afu3g03600</b>	0.58	1.69	1.60	carboxyl esterase A
<b>Afu3g03660</b>	1.64		0.91	esterase superfamily protein
<b>Afu3g03700</b>	0.04	0.82	2.11	Sugar transporter subfamily
<b>Afu3g03710</b>	2.74	0.96	1.10	D-aminopeptidase putative
<b>Afu3g03720</b>	0.12	0.77	1.52	hypothetical protein

<b>Afu3g04010</b>	1.52	1.41	2.24	MFS transporter, putative
<b>Afu3g04310</b>	1.64	0.54	0.83	snoRNA binding protein, putative
<b>Afu3g05700</b>	0.19	-0.01	2.27	Sec7 domain containing protein
<b>Afu3g05760</b>	1.09	0.82	1.52	C6 transcription factor (Fcr1), putative
<b>Afu3g05780</b>	1.48	1.56	1.29	GATA transcription factor (LreA), putative
<b>Afu3g06000</b>	1.57	1.44	1.21	conserved hypothetical protein
<b>Afu3g06010</b>	1.54	0.97	1.58	Nucleolar essential protein 1, putative
<b>Afu3g06540</b>	1.51	0.47	1.05	3'-phosphoadenosine-5'-phosphosulfate reductase
<b>Afu3g06720</b>	0.97	1.93	1.60	ThiJ/PfpI family protein
<b>Afu3g07400</b>	-0.16	1.95	1.99	hypothetical protein
<b>Afu3g07410</b>	1.49	2.43	2.40	isoamyl alcohol oxidase
<b>Afu3g07420</b>	0.00	1.40	2.96	hypothetical protein
<b>Afu3g08160</b>	1.45	0.86	1.92	eukaryotic translation initiation factor eIF4A, putative
<b>Afu3g08990</b>	1.87	2.08	2.09	hypothetical protein
<b>Afu3g09360</b>	1.85	1.42	1.36	vacuolar sorting ATPase Vps4, putative
<b>Afu3g09960</b>	0.70	0.64	1.51	aureobasidin resistance protein Aur1
<b>Afu3g10120</b>	1.39	1.08	1.57	TATA-box binding protein
<b>Afu3g10150</b>	1.53	0.84	0.83	hypothetical protein
<b>Afu3g10620</b>	1.33	1.52	2.61	transcription initiation protein
<b>Afu3g10760</b>	1.58	1.05	-0.77	phosphoketolase, putative
<b>Afu3g11070</b>	1.64	1.09	0.25	pyruvate decarboxylase PdcA, putative
<b>Afu3g11250</b>	1.65	0.85	0.81	C2H2 transcription factor (Swi5), putative
<b>Afu3g11330</b>	1.63	1.41	1.72	bZIP transcription factor (AtfA), putative
<b>Afu3g11590</b>	1.79			Taz1-interacting factor 1 (TAF1), putative
<b>Afu3g11790</b>	0.62	0.90	1.77	galactose-proton symport, putative
<b>Afu3g12170</b>	0.41	0.64	1.65	MFS sugar transporter, putative
<b>Afu3g12530</b>	1.57	1.18	0.37	sensor histidine kinase/response regulator, putative
<b>Afu3g12580</b>	-0.43	0.35	1.72	related to hexose transporter protein, putative
<b>Afu3g12620</b>	0.89	0.79	1.58	acyl-CoA:6-aminopenicillanic-acid-acyltransferase, putative
<b>Afu3g12960</b>	1.56	1.43	0.91	cytochrome P450 monooxygenase (GliC), putative
<b>Afu3g13080</b>	0.23	0.12	1.50	hypothetical protein
<b>Afu3g13180</b>	1.89	0.32	0.86	hypothetical protein
<b>Afu3g13240</b>	1.00	2.12	2.29	aldose 1-epimerase, putative

<b>Afu3g13570</b>	0.42	0.78	1.54	conserved hypothetical protein
<b>Afu3g13580</b>	2.40	1.51	0.49	dynamain GTPase, putative
<b>Afu3g13610</b>	1.47	1.81	0.52	oxidoreductase, zinc-binding, putative
<b>Afu3g13640</b>	1.56	2.27	2.09	extracellular serine-rich protein
<b>Afu3g13670</b>	0.38	0.46	1.51	siderochrome-iron transporter, putative
<b>Afu3g13810</b>	1.81	0.96	1.93	integral membrane protein, putative
<b>Afu3g13850</b>	1.66	0.70	0.61	LRP16 family protein
<b>Afu3g14170</b>	1.00	0.81	2.51	high-affinity hexose transporter
<b>Afu3g14180</b>	1.81	1.87	0.79	hypothetical protein
<b>Afu3g14190</b>	1.87	1.76	0.24	hypothetical protein
<b>Afu3g14200</b>	0.88	2.54	0.62	hypothetical protein
<b>Afu3g14210</b>	0.64	1.79	0.35	hypothetical protein
<b>Afu3g14540</b>	1.04	2.05	2.63	heat shock protein HSP30, putative
<b>Afu3g14720</b>	1.07	1.90	1.59	MFS transporter, putative
<b>Afu3g14730</b>	0.60	1.35	2.49	LysR family regulatory protein, putative
<b>Afu3g14740</b>	1.17	1.47	2.20	conserved hypothetical protein
<b>Afu3g14920</b>	2.36	0.99	1.54	LaeA-like methyltransferase, putative
<b>Afu4g00150</b>	1.10	1.88	2.83	MFS maltose transporter, putative
<b>Afu4g00820</b>	-2.94	1.68	-1.27	reverse transcriptase, RNaseH
<b>Afu4g00980</b>	-1.06	2.50	1.94	hypothetical protein
<b>Afu4g00990</b>	-0.20	2.01	2.41	MFS quinate transporter, putative
<b>Afu4g01290</b>	-0.27	1.05	2.02	endo-chitosanase, pseudogene
<b>Afu4g01360</b>	0.46	0.28	2.89	MFS transporter of unkown specificity
<b>Afu4g01370</b>	-0.37	0.63	2.70	hypothetical protein
<b>Afu4g01380</b>	0.90	0.90	2.87	4-nitrophenylphosphatase, putative
<b>Afu4g01390</b>	0.86	1.82	1.53	C6 transcription factor, putative
<b>Afu4g01440</b>	0.02	1.12	4.19	glutathione S-transferase family protein
<b>Afu4g01450</b>	0.08	-0.39	1.56	phospho-2-dehydro-3-deoxyheptonate aldolase
<b>Afu4g01470</b>	1.08	3.70	2.80	C6 finger domain protein, putative
<b>Afu4g01480</b>	1.14	1.85	3.51	MSF transporter, putative
<b>Afu4g01580</b>	1.13	1.30	1.79	ankyrin repeat protein
<b>Afu4g06030</b>	1.65	0.71	0.22	hypothetical protein
<b>Afu4g06620</b>	1.31	1.49	1.57	Glutamate/Leucine/Phenylalanine/Valine dehydrogenase, putative

<b>Afu4g07080</b>	1.73	0.66	1.10	dual specificity phosphatase, putative
<b>Afu4g07490</b>	1.73	0.76	1.75	hypothetical protein
<b>Afu4g07580</b>	1.47	0.85	1.57	translation initiation factor EF-2 gamma subunit, putative
<b>Afu4g07760</b>	1.52	0.91	-0.13	Transmembrane amino acid transporter protein family
<b>Afu4g08420</b>	0.61	0.97	1.51	hypothetical protein
<b>Afu4g08440</b>	1.57	1.04	1.23	Patatin-like serine hydrolase, putative
<b>Afu4g08460</b>	1.72	0.54	1.32	conserved hypothetical protein
<b>Afu4g08650</b>	1.63	0.54		hypothetical protein
<b>Afu4g08780</b>	1.87	1.00	0.89	hypothetical protein
<b>Afu4g08790</b>	1.58	1.07	1.03	conserved hypothetical protein
<b>Afu4g08960</b>	1.68	1.09	0.57	GPI anchored protein, putative
<b>Afu4g08970</b>	1.70	1.53	1.28	PAP2 domain protein
<b>Afu4g09150</b>	0.63	1.09	1.55	ABC multidrug transporter, putative
<b>Afu4g09190</b>	1.62	0.31	0.36	S-adenosyl-methionine-sterol-C- methyltransferas
<b>Afu4g09640</b>	-0.09	1.93	1.60	GAJ protein, putative
<b>Afu4g09790</b>	2.02	0.27	0.87	hypothetical protein
<b>Afu4g10120</b>	2.70	1.44	3.59	C6 finger domain protein, putative
<b>Afu4g10130</b>	1.14	3.70	3.86	alpha-amylase (Amy1), putative
<b>Afu4g10140</b>	0.76	1.66	1.84	glucoamylase
<b>Afu4g10150</b>	2.01	2.49	3.19	alpha-glucosidase
<b>Afu4g10790</b>	1.58	1.22	1.07	phosphoribosyl diphosphate synthase isoform 4
<b>Afu4g11130</b>	1.63	0.79	0.41	conserved hypothetical protein
<b>Afu4g11720</b>	1.72	1.13	0.64	phosphatidyl synthase
<b>Afu4g12470</b>	0.71	1.06	1.59	bZIP transcription factor CpcA
<b>Afu4g13120</b>	1.42	1.63	2.30	glutamine synthetase
<b>Afu4g13390</b>	1.09	0.66	2.72	actin-related protein ArpA
<b>Afu4g13660</b>	0.35	1.82	3.16	MFS multidrug resistance transporter, putative
<b>Afu4g13770</b>		1.02	2.71	glycosyl hydrolase, putative
<b>Afu4g13780</b>	0.81	0.82	2.07	polyphenol monooxygenase, putative
<b>Afu4g14000</b>	3.53	4.98	5.63	tripeptidyl peptidase A
<b>Afu4g14150</b>	0.16	0.58	1.69	Diacylglycerol acyltransferase family
<b>Afu4g14380</b>	1.19	0.92	1.58	conserved hypothetical protein
<b>Afu4g14640</b>	0.49	2.27	2.48	low affinity iron transporter, putative
<b>Afu4g14650</b>	-0.27	1.41	3.24	ribokinase

<b>Afu4g14660</b>	-0.89	1.29	2.46	conserved hypothetical protein
<b>Afu4g14670</b>	-0.17	1.13	2.95	MFS quinate transporter, putative
<b>Afu4g14800</b>	1.10	1.13	2.07	short chain dehydrogenase, putative
<b>Afu4g14870</b>	-2.93	1.69	-1.14	LINE-1 class reverse transcriptase, RNaseH, putative
<b>Afu5g00550</b>		0.74	2.33	endoglycoceramidase, putative
<b>Afu5g00600</b>	1.39	0.89	1.79	NPP1 domain protein, putative
<b>Afu5g00700</b>		0.12	1.84	hypothetical protein
<b>Afu5g00730</b>	0.53	2.25	2.69	H /K ATPase alpha subunit, putative
<b>Afu5g00930</b>	1.89	0.52		amino acid permease, putative
<b>Afu5g00980</b>	2.29	1.60	1.23	multidrug resistant protein
<b>Afu5g01010</b>	-0.23	0.51	3.15	hypothetical protein
<b>Afu5g01030</b>	2.42	-0.61	0.47	glyceraldehyde 3-phosphate dehydrogenase (Ccg-7), putative
<b>Afu5g01190</b>	0.08	1.26	3.69	conserved hypothetical protein
<b>Afu5g01200</b>	0.98	2.30	5.16	carboxypeptidase S1, putative
<b>Afu5g01320</b>	0.70	1.11	2.40	phosphate permease
<b>Afu5g01330</b>	1.18	2.25	2.55	acid phosphatase
<b>Afu5g01340</b>	2.15	1.48	2.03	lysophospholipase, putative
<b>Afu5g01420</b>	0.14	-0.43	1.66	conserved hypothetical protein
<b>Afu5g01600</b>	0.33	0.38	2.30	PHP domain protein
<b>Afu5g02280</b>	2.00	1.17	0.98	endo-1,3(4)-beta-glucanase, putative
<b>Afu5g02400</b>	2.02	0.70	0.45	catabolite degradation protein, putative
<b>Afu5g02600</b>	1.24	1.06	1.96	conserved hypothetical protein
<b>Afu5g02700</b>	0.62	1.32	2.88	multidrug resistant protein
<b>Afu5g02920</b>	0.49	0.41	1.75	nitrogen metabolite repression regulator NmrA
<b>Afu5g03010</b>	0.23	0.44	1.53	conserved hypothetical protein
<b>Afu5g03330</b>	1.84	0.82	0.13	conserved hypothetical protein
<b>Afu5g03430</b>	1.70	1.09	0.89	PHD transcription factor (Rum1), putative
<b>Afu5g03510</b>	0.87	0.81	1.91	PQ loop repeat protein
<b>Afu5g03750</b>	2.50	2.64	3.03	WW domain protein
<b>Afu5g03920</b>	1.54	0.24	0.86	bZIP transcription factor (HapX), putative
<b>Afu5g04260</b>	1.32	1.04	1.51	arginine transporter, putative
<b>Afu5g06070</b>	1.43	2.13	1.27	ABC multidrug transporter Mdr1
<b>Afu5g06090</b>	1.14	0.74	1.79	type-III integral membrane protein (Ytp1), putative

<b>Afu5g06190</b>	1.15	0.90	1.89	sexual development transcription factor SteA
<b>Afu5g06290</b>	2.30	1.58	2.88	MFS transporter, putative
<b>Afu5g06670</b>	1.59	2.24	2.82	related to L-fucose permease, putative
<b>Afu5g06980</b>	1.60	0.25	0.90	hypothetical protein
<b>Afu5g07210</b>	1.54	0.99	1.63	homoserine O-acetyltransferase, putative
<b>Afu5g07250</b>	2.24	1.72	1.65	DUF300 domain protein, putative
<b>Afu5g07320</b>	2.08	0.80	0.78	poly(ADP)-ribose polymerase PARP, putative
<b>Afu5g07450</b>	1.57	1.03	1.62	hypothetical protein
<b>Afu5g07740</b>	0.17	1.33	1.54	DSB repair complex subunit Ku70, putative
<b>Afu5g08570</b>	1.63	1.17		cAMP-dependent protein kinase catalytic subunit, putative
<b>Afu5g08580</b>	1.63	0.99	1.22	alpha-1,6-mannosyltransferase subunit (Och1), putative
<b>Afu5g08770</b>	1.86	0.20	0.43	hypothetical protein
<b>Afu5g09020</b>	1.42	0.44	1.78	WSC domain protein, putative
<b>Afu5g09330</b>		3.44	1.94	CipC protein
<b>Afu5g09340</b>	-0.12	1.78	1.94	Phospholipase/Carboxylesterase superfamily
<b>Afu5g10320</b>	2.04	2.75	2.64	toxin biosynthesis protein (GliH), putative
<b>Afu5g10340</b>	1.82	2.31	2.19	MFS transporter, putative
<b>Afu5g10350</b>	1.89	3.17	3.59	conserved hypothetical protein
<b>Afu5g10360</b>	1.79	0.66		actin-binding protein fragmin, putative
<b>Afu5g10420</b>	1.17	1.54	0.22	nitrate reductase, putative
<b>Afu5g10460</b>	2.05	0.48		hypothetical protein
<b>Afu5g10690</b>	1.62	1.17	0.48	monosaccharide transporter
<b>Afu5g10960</b>	-0.21	0.20	1.84	conserved hypothetical protein
<b>Afu5g11240</b>	0.66	0.52	1.68	oxidoreductase, short chain dehydrogenase/reductase family
<b>Afu5g11500</b>	0.37	-0.84	2.03	conserved hypothetical protein
<b>Afu5g11840</b>	1.80	0.71	0.67	protein kinase, putative
<b>Afu5g13040</b>	1.78	0.63	0.45	translation initiation factor eif-2b delta subunit
<b>Afu5g13090</b>	1.68	1.03	1.94	alpha-1,2-mannosyltransferase, putative
<b>Afu5g13300</b>	2.60	4.37	5.72	aspartic endopeptidase Pep1
<b>Afu5g13560</b>	1.63	0.92	0.84	FHA domain protein
<b>Afu5g13970</b>	0.53	1.56	0.58	conserved hypothetical protein
<b>Afu5g14020</b>	1.59	1.25	0.67	hypothetical protein

<b>Afu5g14300</b>	1.79	0.02	-0.52	alpha,alpha-trehalose-phosphate synthase subunit, putative
<b>Afu5g14340</b>	0.43	0.66	2.82	oxidoreductase, short-chain dehydrogenase/reductase family, putative
<b>Afu5g14510</b>	1.49	1.22	3.27	beta-lactamase, putative
<b>Afu5g14810</b>	1.27	0.76	1.73	pyruvate decarboxylase, putative
<b>Afu5g14840</b>	0.90	1.52	1.85	hypothetical protein
<b>Afu6g00160</b>	2.29	1.61	2.41	Ser/Thr protein phosphatase family protein
<b>Afu6g00220</b>	1.69	2.45	2.41	fungus specific transcription factor, putative
<b>Afu6g00230</b>	2.49	1.72	1.92	isoflavone reductase family protein
<b>Afu6g00260</b>	2.10	0.98	2.00	phosphatidylserine decarboxylase family protein
<b>Afu6g00310</b>	0.33	2.74	3.92	serine carboxypeptidase (CpdS), putative
<b>Afu6g00430</b>	2.28	2.25	3.48	IgE-binding protein
<b>Afu6g00630</b>	1.61	0.64	1.00	MFS transporter, putative
<b>Afu6g00640</b>	1.32	0.82	1.55	integral membrane protein
<b>Afu6g00660</b>	2.27	1.27	1.52	conserved hypothetical protein
<b>Afu6g00780</b>	-2.77	1.73	-1.04	LINE-1 class reverse transcriptase, RNaseH, putative
<b>Afu6g02400</b>	0.62	1.83	2.09	MFS drug efflux pump, putative
<b>Afu6g02740</b>	1.68	0.69	0.36	hypothetical protein
<b>Afu6g03060</b>	0.62	0.85	2.18	monosaccharide transporter
<b>Afu6g03230</b>	2.30	3.14	1.82	cell wall glucanase, putative
<b>Afu6g03260</b>	2.10	1.83	2.98	aspartic endopeptidase (AP1), putative
<b>Afu6g03360</b>	3.41	2.83	2.31	oxidoreductase, zinc-binding
<b>Afu6g03370</b>	2.52	1.37	2.28	oxidoreductase, short-chain dehydrogenase/reductase family
<b>Afu6g03680</b>	0.83	1.18	1.85	hypothetical protein
<b>Afu6g04270</b>	3.10	3.23	4.35	fructose symporter
<b>Afu6g04300</b>	2.12	0.93	1.74	conserved hypothetical protein
<b>Afu6g04500</b>	1.95	1.02	0.47	FOG1 protein
<b>Afu6g04550</b>	0.30	0.05	1.91	hypothetical protein
<b>Afu6g04670</b>	1.05	1.74		DER1 protein, putative
<b>Afu6g06460</b>	0.46	0.71	1.73	fumarylacetoacetate hydrolase family protein
<b>Afu6g06470</b>	-0.76	1.27	2.88	heat shock protein HSP30, putative
<b>Afu6g06640</b>	1.48	2.06	2.05	FK506 suppressor Sfk1, putative
<b>Afu6g06840</b>	0.72	0.82	1.65	hypothetical protein

<b>Afu6g07470</b>	1.25	1.00	1.52	conserved hypothetical protein
<b>Afu6g07750</b>	1.91	1.99	2.46	MFS phospholipid transporter (Git1), putative
<b>Afu6g07900</b>	1.65	1.17	0.53	carbon catabolite repression protein CreD, putative
<b>Afu6g07970</b>	0.55	0.46	2.09	calpain-like protein
<b>Afu6g08290</b>	-0.25	-0.03	1.61	ADP-ribosylation factor family protein
<b>Afu6g08770</b>	1.54	1.59	1.22	ankyrin repeat protein
<b>Afu6g08840</b>	-0.25	0.43	1.69	beta-mannosidase
<b>Afu6g09200</b>	0.30	1.11	1.55	conserved hypothetical protein
<b>Afu6g09880</b>	-0.62	-0.17	2.43	monocarboxylate transporter-like protein
<b>Afu6g10130</b>	0.03	1.43	3.11	N,O-diacetyl muramidase, putative
<b>Afu6g10160</b>	1.57	3.42	2.12	hypothetical protein
<b>Afu6g10580</b>	0.22	0.53	2.78	antigenic CFEM domain protein, putative
<b>Afu6g11670</b>	1.74	0.75	1.70	conserved hypothetical protein
<b>Afu6g11860</b>	1.59	0.98	0.05	hypothetical protein
<b>Afu6g12110</b>	0.67	0.31	1.72	salicylate synthetase, putative
<b>Afu6g12120</b>	0.64	1.18	2.19	BNR/Asp-box repeat domain protein
<b>Afu6g12270</b>	1.77	0.43		ubiquitin C-terminal hydrolase, putative
<b>Afu6g12390</b>	1.09	0.31	1.50	serine palmitoyl CoA transferase subunit LcbA
<b>Afu6g12550</b>	1.62	0.65	1.02	mitochondrial carrier protein, putative
<b>Afu6g12840</b>	1.61	0.27	0.17	kinesin family protein
<b>Afu6g12900</b>	0.61	0.36	1.86	mitochondrial carrier protein, putative
<b>Afu6g12930</b>	0.94	1.05	1.69	mitochondrial aconitate hydratase, putative
<b>Afu6g13070</b>	1.51	1.03	0.67	UDP-galactose transporter, putative
<b>Afu6g13180</b>	0.07	0.31	1.52	CECR1 family adenosine deaminase, putative
<b>Afu6g13190</b>	0.63	0.67	1.79	H <sup>+</sup> /nucleoside cotransporter
<b>Afu6g13670</b>	1.91	1.44	1.13	conserved hypothetical protein
<b>Afu6g13710</b>	2.23	2.27	2.41	hypothetical protein
<b>Afu6g13740</b>	-0.18	0.02	1.99	hypothetical protein
<b>Afu6g14010</b>	1.33	3.95	3.96	GPI anchored protein, putative
<b>Afu6g14020</b>	1.71	2.28	2.93	conserved hypothetical protein
<b>Afu6g14040</b>	1.60	1.99		glycosyl transferase, putative
<b>Afu6g14050</b>	1.31	1.91	3.56	FAD binding domain protein
<b>Afu6g14250</b>	1.60	0.88	1.10	endosomal integral membrane protein (P24a), putative
<b>Afu6g14280</b>	2.44	1.08	0.43	hypothetical protein

<b>Afu6g14440</b>	2.29	3.41	4.33	MFS monosaccharide transporter, putative
<b>Afu6g14480</b>	0.69	0.91	1.59	alpha-1,3-mannosyltransferase, putative
<b>Afu6g14540</b>	-1.78	2.01	1.99	endo-1,3(4)-beta-glucanase, putative
<b>Afu6g14660</b>	-2.96	1.86	-1.16	reverse transcriptase, RNaseH
<b>Afu7g00120</b>	0.14	0.82	1.86	metallo-beta-lactamase domain protein
<b>Afu7g00150</b>	0.08	0.62	2.27	FAD-dependent monooxygenase, putative
<b>Afu7g00160</b>	-0.27	-0.17	2.12	polyketide synthase, putative
<b>Afu7g00170</b>	0.76	0.28	1.65	dimethylallyl tryptophan synthase (GliD), putative
<b>Afu7g00230</b>	0.06	-0.78	1.57	MFS multidrug transporter, putative
<b>Afu7g00270</b>	2.07	0.42	-0.02	FAD binding monooxygenase, putative
<b>Afu7g00910</b>	0.10	0.19	2.19	peptide transporter MTD1
<b>Afu7g00990</b>	-0.91	0.51	1.60	integral membrane protein
<b>Afu7g01490</b>	2.34	3.67	4.51	MFS peptide transporter, putative
<b>Afu7g01600</b>	0.91	0.40	1.53	hypothetical protein
<b>Afu7g01720</b>	2.19	1.44	2.67	3-hydroxymethyl-3-methylglutaryl-Coenzyme A lyase
<b>Afu7g01930</b>	2.36	2.26	2.88	sexual development protein EsdC, putative
<b>Afu7g01960</b>	1.60	0.92		conserved hypothetical protein
<b>Afu7g02600</b>	1.53	0.65	0.57	hypothetical protein
<b>Afu7g04190</b>	1.94			cyclopropane-fatty-acyl-phospholipid synthase, putative
<b>Afu7g04570</b>	0.97	2.73	3.31	Na/K ATPase alpha 1 subunit, putative
<b>Afu7g04730</b>	2.00	1.25	2.00	siderochrome-iron transporter, putative
<b>Afu7g04810</b>	1.22	1.62	2.06	hypothetical protein
<b>Afu7g04910</b>	3.92	6.05	5.28	phosphatidylglycerol specific phospholipase C, putative
<b>Afu7g04930</b>	3.08	2.02	3.63	alkaline serine protease (PR1), putative
<b>Afu7g04950</b>	3.93	2.62	2.60	lipase, putative
<b>Afu7g05090</b>	-0.91	0.47	1.53	glucuronyl hydrolase, putative
<b>Afu7g05100</b>	-1.67	0.72	2.55	hexose transporter protein
<b>Afu7g05130</b>	1.27	1.33	1.70	O-methyltransferase
<b>Afu7g05140</b>	0.46	0.63	2.12	class III chitinase, putative
<b>Afu7g05210</b>	0.78	0.19	1.62	CTP synthase
<b>Afu7g05260</b>	1.49	0.85	1.75	transformer-SR ribonucleoprotein
<b>Afu7g05370</b>	1.44	1.20	1.68	septin AspB
<b>Afu7g05380</b>	1.67	1.19	0.72	conserved hypothetical protein
<b>Afu7g05430</b>	1.67	0.99	1.82	nonsense-mediated mRNA decay factor (Upf2), putative

<b>Afu7g05550</b>	4.18	6.32	5.59	sugar transporter family protein
<b>Afu7g05580</b>	1.23	1.50	-0.48	hypothetical protein
<b>Afu7g06140</b>	-0.09	0.43	1.72	beta-D-glucoside glucohydrolase
<b>Afu7g06380</b>	0.68	0.77	1.52	maltase
<b>Afu7g06450</b>	0.37	1.26	1.68	hypothetical protein
<b>Afu7g06570</b>	1.37	1.85	2.46	zinc/cadmium resistance protein
<b>Afu7g06680</b>	0.03	0.56	1.88	AAA family ATPase, putative
<b>Afu7g06750</b>	-1.27	0.92	1.54	phosphoglycerate mutase family protein, putative
<b>Afu7g06840</b>	1.10	0.79	2.40	class III aminotransferase
<b>Afu7g06900</b>	1.81	0.56	1.48	branched-chain amino acid aminotransferase, putative
<b>Afu7g08250</b>	1.53	1.23	0.64	conserved hypothetical protein
<b>Afu7g08540</b>	2.51	2.20	2.05	ankyrin repeat protein
<b>Afu7g08570</b>	1.90	1.08		hypothetical protein
<b>Afu8g00280</b>	1.37	1.76	1.75	short-chain dehydrogenase, putative
<b>Afu8g00290</b>	0.80	1.05	1.69	conserved hypothetical protein
<b>Afu8g00310</b>	-2.66	1.61	-1.24	LINE-1 class reverse transcriptase, RNaseH, putative
<b>Afu8g00370</b>		0.46	2.34	polyketide synthase, putative
<b>Afu8g00390</b>			2.46	O-methyltransferase, putative
<b>Afu8g00420</b>	-0.89	0.73	2.11	C6 finger transcription factor, putative
<b>Afu8g00430</b>		0.62	2.58	conserved hypothetical protein
<b>Afu8g00440</b>	-0.88	-0.05	1.76	steroid monooxygenase, putative
<b>Afu8g00480</b>			2.57	phytanoyl-CoA dioxygenase family protein
<b>Afu8g00490</b>			1.93	polyketide synthase, putative
<b>Afu8g00520</b>			3.05	integral membrane protein
<b>Afu8g00540</b>	-0.31	0.52	3.90	hybrid polyketide synthase/nonribosomal peptide synthase, putative
<b>Afu8g00550</b>		0.77	3.19	SirN-like methyltransferase, putative
<b>Afu8g00560</b>	0.81	0.58	4.28	cytochrome P450, putative
<b>Afu8g00570</b>	0.74	0.50	1.81	alpha/beta hydrolase, putative
<b>Afu8g00640</b>	1.15	1.41	2.73	glycosyl transferase, putative
<b>Afu8g00680</b>	0.37	0.64	2.55	glycosyl transferase, group 2 family protein
<b>Afu8g00700</b>	0.41	1.46	2.47	class III chitinase ChiA2
<b>Afu8g00720</b>	0.86	1.19	1.91	amino acid transporter, putative
<b>Afu8g00760</b>	-0.30	0.78	1.59	cytochrome P450, putative

<b>Afu8g00770</b>	1.30	2.20	3.02	sugar transporter family protein
<b>Afu8g00820</b>	0.93	1.03	1.86	rhamnogalacturonase, putative
<b>Afu8g01040</b>	-2.45	1.67	-0.98	reverse transcriptase, RNaseH
<b>Afu8g01230</b>	-0.72	0.58	2.23	conserved transmembrane protein
<b>Afu8g01260</b>	3.47	4.50	3.94	hypothetical protein
<b>Afu8g01540</b>	0.34	0.46	1.89	hypothetical protein
<b>Afu8g01630</b>		0.80	1.70	pyridine nucleotide-disulphide oxidoreductase family protein
<b>Afu8g01970</b>	2.88	4.26	3.67	extracellular endo-polygalacturonase, putative
<b>Afu8g02040</b>	2.54	3.96	4.15	glycosyl transferase, putative
<b>Afu8g02050</b>	2.97	4.34	4.13	hypothetical protein
<b>Afu8g02060</b>	3.72	5.27	5.05	glycan biosynthesis protein (PigL), putative
<b>Afu8g02070</b>	3.19	4.38	4.19	glycosyl transferase, putative
<b>Afu8g02090</b>	2.60	4.36	4.32	nucleotide-sugar transporter family protein
<b>Afu8g02130</b>	2.29	3.44	2.97	1,3-beta-glucanosyltransferase, putative
<b>Afu8g02140</b>	0.51	1.63	0.90	ankyrin repeat protein
<b>Afu8g02420</b>	-0.50	0.04	1.83	hypothetical protein
<b>Afu8g04060</b>	1.24	0.93	1.69	NA
<b>Afu8g04070</b>	1.16	1.08	1.87	glucosamine-6-phosphate deaminase, putative
<b>Afu8g04110</b>	0.81	0.39	1.55	DUF895 domain membrane protein
<b>Afu8g04120</b>	1.04	2.30	3.33	carboxypeptidase S1, putative
<b>Afu8g04550</b>	1.28	1.13	1.95	sulfonate biosynthesis enzyme, putative
<b>Afu8g04810</b>	1.75	0.61	1.65	casein kinase, putative
<b>Afu8g05120</b>	1.69			hypothetical protein
<b>Afu8g05170</b>	1.60	-0.03	0.75	autophagy protein Apg6, putative
<b>Afu8g05710</b>	1.83	0.56	1.02	MFS sugar transporter St11, putative
<b>Afu8g05780</b>	1.05	0.57	2.70	NACHT and Ankyrin domain protein
<b>Afu8g06090</b>	-0.31	1.27	3.44	amino acid permease, putative
<b>Afu8g06160</b>	1.90	0.29	1.44	conserved hypothetical protein
<b>Afu8g06410</b>	1.24	1.32	2.00	MFS multidrug transporter, putative
<b>Afu8g06490</b>	0.70	0.83	1.74	conserved hypothetical protein
<b>Afu8g06560</b>	1.98	2.36	3.51	DUF895 domain membrane protein
<b>Afu8g06570</b>	-0.22	2.34	3.75	acetyl xylan esterase, putative
<b>Afu8g06580</b>	1.09	2.89	4.02	GABA permease

<b>Afu8g06590</b>	1.26	3.58	4.27	hypothetical protein
<b>Afu8g06760</b>	1.68	1.29	1.93	integral membrane protein
<b>Afu8g06870</b>	1.76	2.95	3.32	MFS sugar transporter, putative
<b>Afu8g06930</b>	2.41	0.95		C6 transcription factor, putative
<b>Afu8g06970</b>	1.11	0.59	1.65	beta-glucosidase
<b>Afu8g07120</b>		0.98	2.23	beta-1,6-glucanase, putative
<b>Afu8g07200</b>	0.77	1.15	1.86	neutral amino acid permease
<b>Afu8g07260</b>	1.76	-0.16		conserved hypothetical protein

**Table AD.3.1: List of up-regulated genes in the ATCC46645 *ApacC*/ATCC46645 dataset.** Genes significantly up-regulated were included if showing a fold change of +1.5 on a log<sub>2</sub> scale at least in one of the time point datasets. T0 vs T4 = 4 hrs, T0 vs T8 hrs = 8 hrs, T0 vs T16 = 16 hrs.

ORFs	T4	T8	T16	Annotation	Functional classification
Afu3g03710	2.737714	0.957446	1.103734	D-aminopeptidase putative	
Afu2g12550	2.6694	0.903991	0.152785	multidrug resistant protein, putative	integral to plasma membrane///multidrug transporter activity///response to toxin
Afu6g14280	2.442983	1.081611	0.427854	hypothetical protein	
Afu2g11580	2.423186	1.176501		mfs-multidrug-resistance transporter	drug transport///drug transporter activity///integral to membrane
Afu5g01030	2.418955	-0.61028	0.467242	glyceraldehyde 3-phosphate dehydrogenase (Ccg-7), putative	lipid particle///fungal-type cell wall///cytoplasm///cytosol///gluconeogenesis///glycolysis///glyceraldehyde-3-phosphate dehydrogenase (phosphorylating) activity
Afu8g06930	2.411022	0.946438		C6 transcription factor, putative	
Afu1g11890	2.281586	1.140555	0.633299	serine palmitoyltransferase 2, putative	serine C-palmitoyltransferase complex///membrane fraction///sphingolipid biosynthetic process///microsome///serine C-palmitoyltransferase activity
Afu1g11760	2.246248	0.9831	1.297836	hypothetical protein	
Afu5g07320	2.084854	0.796519	0.775437	poly(ADP)-ribose polymerase PARP, putative	ascospore formation///programmed cell death///nucleus///protein amino acid ADP-ribosylation
Afu7g00270	2.070118	0.416592	-0.01619	FAD binding monooxygenase, putative	cellular aromatic compound metabolic process///monooxygenase activity

Afu1g10220	2.065073	1.435086	0.516343	hypothetical protein	
Afu5g10460	2.051653	0.475156		hypothetical protein	
Afu1g09140	2.01708	0.652077		hypothetical protein	
Afu4g09790	2.016705	0.268105	0.871365	hypothetical protein	
Afu5g02400	2.016294	0.700609	0.454573	catabolite degradation protein, putative	cytoplasm///nucleus///molecular function unknown///negative regulation of gluconeogenesis
Afu5g02280	1.999782	1.171611	0.981543	endo-1,3(4)-beta-glucanase, putative	hydrolase activity, hydrolyzing O-glycosyl compounds///fungal-type cell wall///"1,3-beta-glucan metabolic process"
Afu6g04500	1.953883	1.023767	0.46636	FOG1 protein	AMP-activated protein kinase activity///protein amino acid phosphorylation///nucleus///signal transduction///cell adhesion///filamentous growth
Afu7g04190	1.941314			cyclopropane-fatty-acyl-phospholipid synthase, putative	cyclopropane-fatty-acyl-phospholipid synthase activity///lipid biosynthetic process
Afu6g13670	1.911538	1.441284	1.128986	conserved hypothetical protein	endoplasmic reticulum///biological process unknown///molecular function unknown
Afu7g08570	1.898359	1.07764		hypothetical protein	
Afu8g06160	1.895054	0.290622	1.44473	conserved hypothetical protein	
Afu3g13180	1.894706	0.32358	0.858888	hypothetical protein	
Afu5g00930	1.885961	0.523825		amino acid permease, putative	amino acid transport///plasma membrane///amino acid permease activity///amino acid transmembrane transporter activity
Afu4g08780	1.872012	0.998307	0.890531	hypothetical protein	
Afu5g08770	1.862777	0.197912	0.426802	hypothetical protein	
Afu3g09360	1.851611	1.418699	1.364285	vacuolar sorting ATPase Vps4, putative	protein retention in Golgi apparatus///late endosome to vacuole transport///cytoplasm///endoplasmic reticulum///ATPase activity
Afu3g00690	1.84368	0.663801		C6 transcription factor, putative	transcription factor activity///regulation of transcription
Afu5g03330	1.838389	0.817449	0.125998	conserved hypothetical protein	
Afu8g05710	1.827636	0.560392	1.016054	MFS sugar transporter St1, putative	membrane///transporter activity///transport
Afu1g15850	1.817327	1.394791	0.559448	C6 transcription factor, putative	transcription factor activity///nucleus///regulation of transcription

**Table AD.3.2: 30 ORFs with the highest log<sub>2</sub> values between the up-regulated genes unique to the 4 hrs time point of the ATCC46645 *ΔpacC*/ATCC46645 comparison.**

ORFs	T4	T8	T16	Description	Annotation
Afu3g14200	0.876814	2.538769	0.615371	hypothetical protein	
Afu5g06070	1.432669	2.127281	1.265371	ABC multidrug transporter Mdr1	ATP-binding cassette (ABC) transporter activity///pathogenesis///integral to plasma membrane///ATP binding///transport
Afu6g14660	-2.9557	1.860377	-1.1636	reverse transcriptase, RNaseH	
Afu3g13610	1.467361	1.807056	0.521209	oxidoreductase, zinc-binding, putative	
Afu1g08800	-0.9773	1.799103	-0.65998	cytochrome P450 phenylacetate hydroxylase, putative	oxidoreductase activity///metabolic process
Afu3g14210	0.640494	1.786179	0.348299	hypothetical protein	
Afu6g04670	1.053427	1.736744		DER1 protein, putative	
Afu6g00780	-2.77278	1.728312	-1.04089	LINE-1 class reverse transcriptase, RNaseH, putative	
Afu4g14870	-2.931	1.691895	-1.14393	LINE-1 class reverse transcriptase, RNaseH, putative	
Afu4g00820	-2.93653	1.675784	-1.27336	reverse transcriptase, RNaseH	
Afu8g01040	-2.45291	1.671414	-0.97913	reverse transcriptase, RNaseH	
Afu8g02140	0.512359	1.629873	0.902237	ankyrin repeat protein	molecular function unknown
Afu8g00310	-2.66174	1.614126	-1.23683	LINE-1 class reverse transcriptase, RNaseH, putative	
Afu2g18080	-2.84645	1.569657	-1.02842	LINE-1 class reverse transcriptase, RNaseH, putative	
Afu5g13970	0.525837	1.560481	0.575816	conserved hypothetical protein	
Afu3g05780	1.480159	1.555111	1.289243	GATA transcription factor (LreA), putative	response to light stimulus///blue light signaling pathway///signal transducer activity///transcription factor activity///nucleus///zinc ion binding///regulation of transcription
Afu2g00170	0.643133	1.549262	1.33784	glutathione-dependent formaldehyde dehydrogenase	cellular component unknown///D-xylulose reductase activity///monosaccharide metabolic process
Afu5g10420	1.172004	1.537118	0.217866	nitrate reductase, putative	endoplasmic reticulum///biological process unknown///molecular function unknown
Afu1g15650	-1.86523	1.525741		hypothetical protein	
Afu1g13310	0.780711	1.513824	1.296539	hypothetical protein	

Afu2g14330	-0.18024	1.502973	1.139134	hypothetical protein	
Afu7g05580	1.228544	1.501547	-0.48059	hypothetical protein	phospholipase D activity///phospholipid metabolic process///response to osmotic stress

**Table AD.3.3: 23 up-regulated ORFs unique to the 8 hrs time point of the ATCC46645 *ΔpacC*/ATCC46645 comparison.**

ORFs	T4	T8	T16	Description	Annotation
Afu8g00560	0.805217	0.577403	4.282449	cytochrome P450, putative	oxidoreductase activity///metabolic process
Afu4g01440	0.015722	1.117132	4.187358	glutathione S-transferase family protein	regulation of nitrogen utilization///soluble fraction///transcription corepressor activity
Afu8g00540	-0.30856	0.518624	3.902841	hybrid polyketide synthase/nonribosomal peptide synthase, putative	polyketide synthase activity
Afu5g01190	0.076751	1.259981	3.6873	conserved hypothetical protein	
Afu8g06090	-0.30684	1.265351	3.444201	amino acid permease, putative	plasma membrane///choline transport///choline transmembrane transporter activity
Afu5g14510	1.48869	1.216701	3.268445	beta-lactamase, putative	beta-lactamase activity///beta-lactam antibiotic catabolic process///response to antibiotic
Afu4g14650	-0.26748	1.413061	3.242713	ribokinase	ribokinase activity///cytoplasm///nucleus///ATP binding///D-ribose metabolic process
Afu8g00550		0.771255	3.193361	SirN-like methyltransferase, putative	
Afu5g01010	-0.22811	0.50861	3.152844	hypothetical protein	
Afu6g10130	0.025108	1.425918	3.105561	N,O-diacetyl muramidase, putative	
Afu8g00520			3.050442	integral membrane protein	
Afu3g07420	-5.79E-04	1.395135	2.955786	hypothetical protein	
Afu4g14670	-0.17023	1.131038	2.948804	MFS quinate transporter, putative	mannose transmembrane transporter activity///hexose transport///fructose transmembrane transporter activity///plasma membrane///glucose transmembrane transporter activity
Afu4g01360	0.458923	0.279962	2.88947	MFS transporter of unknown specificity	cellular component unknown///biological process

					unknown//molecular function unknown
Afu6g06470	-0.75911	1.273413	2.883151	heat shock protein HSP30, putative	
Afu5g02700	0.621452	1.316531	2.878638	multidrug resistant protein	drug transport//drug transporter activity//integral to membrane
Afu4g01380	0.900303	0.899762	2.870861	4-nitrophenylphosphatase, putative	protein amino acid dephosphorylation//alkaline phosphatase activity//histone dephosphorylation//cytoplasm//nucleus//4-nitrophenylphosphatase activity
Afu5g14340	0.427511	0.663077	2.821667	oxidoreductase, short-chain dehydrogenase/reductase family, putative	sporulation (sensu Saccharomyces)//fatty acid catabolic process//peroxisomal matrix//"2,4-dienoyl-CoA reductase (NADPH) activity"
Afu6g10580	0.21607	0.526281	2.783088	antigenic CFEM domain protein, putative	
Afu8g00640	1.150127	1.409414	2.733811	glycosyl transferase, putative	
Afu4g13390	1.091511	0.660816	2.722349	actin-related protein ArpA	sporulation (sensu Saccharomyces)//mitochondrion inheritance//budding cell apical bud growth//protein secretion//actin filament reorganization during cell cycle//exocytosis//structural constituent of cytoskeleton//endocytosis//histone acetyltransferase complex//cell wall organization//establishment of mitotic spindle orientation//response to osmotic stress//regulation of transcription from RNA polymerase II promoter//vacuole inheritance//vesicle transport along actin filament//cytokinesis//actin filament//histone acetylation//budding cell isotropic bud growth
Afu4g13770		1.017059	2.711048	glycosyl hydrolase, putative	carbohydrate metabolic process//"hydrolase activity, hydrolyzing O-glycosyl compounds"
Afu8g05780	1.047412	0.574622	2.698992	NACHT and Ankyrin domain protein	GTP binding//protein binding
Afu4g01370	-0.36595	0.627445	2.696766	hypothetical protein	

Afu1g08910	1.019169	0.841916	2.640441	conserved hypothetical protein	
Afu2g08820	1.017503	1.344053	2.623839	hypothetical protein	
Afu8g00430		0.61711	2.581202	conserved hypothetical protein	
Afu8g00480			2.573668	phytanoyl-CoA dioxygenase family protein	
Afu7g05100	-1.66823	0.722887	2.553792	hexose transporter protein	mannose transmembrane transporter activity///hexose transport///fructose transmembrane transporter activity///plasma membrane///glucose transmembrane transporter activity
Afu8g00680	0.37096	0.644718	2.552493	glycosyl transferase, group 2 family protein	carbohydrate metabolic process///"transferase activity, transferring glycosyl groups"

**Table AD.3.4: 30 ORFs with the highest log<sub>2</sub> values between the up-regulated genes unique to the 16 hrs time point of the ATCC46645  $\Delta$ pacC/ATCC46645 comparison.**

Locus	T0 vs T4	T0 vs T8	T0 vs T16	Common Name
<b>Afu1g00500</b>		-1.94		FMN dependent dehydrogenase, putative
<b>Afu1g01370</b>	-1.91	-0.88	-0.58	glutathione S-transferase, putative
<b>Afu1g01540</b>	-1.67	-1.24	-0.95	Endonuclease/Exonuclease/phosphatase family family
<b>Afu1g02260</b>	-0.46	0.51	-1.62	hypothetical protein
<b>Afu1g02620</b>	-1.68	-0.67	-0.90	hypothetical protein
<b>Afu1g02860</b>	-2.13	-0.05	-1.01	C2H2 transcription factor, putative
<b>Afu1g02890</b>	-2.11	-0.74	-1.71	dUTPase (Dut), putative
<b>Afu1g02930</b>	-1.07	-0.84	-1.52	Ca <sup>2+</sup> binding protein (calmodulin), putative
<b>Afu1g03020</b>	-2.41	-0.40	-1.34	My026 protein
<b>Afu1g03150</b>	-0.07	-1.16	-1.91	c-14 sterol reductase
<b>Afu1g03160</b>	-1.47	-1.00	-2.17	hypothetical protein
<b>Afu1g03200</b>		-0.96	-2.05	MFS transporter, putative
<b>Afu1g03610</b>	0.36	0.59	-1.50	hypothetical protein
<b>Afu1g03720</b>	-1.56	-0.83	-0.49	UPF0136 domain protein
<b>Afu1g04130</b>	-1.60	-0.69	-0.76	FG-GAP repeat protein, putative
<b>Afu1g04150</b>	-0.84	0.14	-1.64	tartrate dehydrogenase
<b>Afu1g04310</b>	-1.51	-0.96	-1.35	hypothetical protein

<b>Afu1g04860</b>	-1.50	-0.61	-0.55	hypothetical protein
<b>Afu1g05400</b>	-2.13	-0.09	-1.26	hypothetical protein
<b>Afu1g05720</b>	0.04	-1.55	-0.97	c-14 sterol reductase
<b>Afu1g05820</b>	-2.32	-0.67	-1.23	conserved hypothetical protein
<b>Afu1g05940</b>	-2.16	-0.58	-0.78	conserved hypothetical protein
<b>Afu1g06100</b>	-2.11	-0.23	-0.61	glutaredoxin
<b>Afu1g06200</b>	-1.63	-1.98	-1.38	Mn <sup>2+</sup> homeostasis protein (Per1), putative
<b>Afu1g06990</b>	-2.81	1.85	-1.80	NA
<b>Afu1g07430</b>	-1.78	-0.70	-1.00	hypothetical protein
<b>Afu1g09360</b>	-1.57	-0.35	-0.92	DUF1242 domain protein, putative
<b>Afu1g09750</b>	-0.39	-0.55	-1.53	aldehyde reductase (AKR1), putative
<b>Afu1g09810</b>	-1.89	-0.90	-1.20	PUA RNA binding domain protein, putative
<b>Afu1g10100</b>	-1.67	0.01	-0.23	3-oxoacyl-(acyl-carrier-protein) reductase
<b>Afu1g10300</b>	-2.65		-0.90	hypothetical protein
<b>Afu1g10460</b>	-2.40	-1.51	-2.15	hypothetical protein
<b>Afu1g10690</b>	-0.75	-1.04	-1.53	conserved hypothetical protein
<b>Afu1g10720</b>	0.10	-0.13	-1.91	origin recognition complex subunit Orc1, putative
<b>Afu1g10820</b>	-1.73	-0.73	-0.62	adenylylsulfate kinase
<b>Afu1g10830</b>	0.06	-1.28	-1.53	succinyl-CoA synthetase, putative
<b>Afu1g10930</b>	1.24	-0.29	-2.36	ammonium transporter
<b>Afu1g11480</b>	-1.81	-0.87	-0.88	hypothetical protein
<b>Afu1g11560</b>	-1.48	-1.87	-3.74	4-hydroxyphenylpyruvate dioxygenase, putative
<b>Afu1g11590</b>	-1.58	-1.45	-0.24	quininate 5-dehydrogenase
<b>Afu1g12270</b>	-2.39	-0.42	-1.46	hypothetical protein
<b>Afu1g12360</b>	-2.05		-1.43	hypothetical protein
<b>Afu1g12740</b>	-1.75	-1.42	-1.31	hypothetical protein
<b>Afu1g12860</b>	-1.10	-1.03	-2.00	DUF718 domain protein
<b>Afu1g13480</b>	-1.90	-0.36	-0.72	ubiquinol-cytochrome C reductase complex subunit UcrQ, putative
<b>Afu1g13550</b>	-1.55	-0.15	-1.62	hypothetical protein
<b>Afu1g14380</b>	-1.52	-0.83	-0.33	3-ketoacyl-acyl carrier protein reductase
<b>Afu1g14390</b>	-2.16	-0.86	-0.77	zinc binding dehydrogenase family protein
<b>Afu1g14820</b>	-2.91	0.09	-1.15	hypothetical protein
<b>Afu1g15040</b>	-0.40	-0.75	-1.54	hypothetical protein

<b>Afu1g15150</b>	-0.40	-1.67	-1.79	alpha-amylase (amyE)
<b>Afu1g15190</b>	-2.27		-0.87	hypothetical protein
<b>Afu1g15280</b>	-1.67	-0.64	-1.32	polysaccharide deacetylase family protein
<b>Afu1g15330</b>	-2.22	-1.03	-0.69	T10O22.24
<b>Afu1g15650</b>	-1.87	1.53		hypothetical protein
<b>Afu1g15710</b>		-1.33	-1.60	cyclosome/APC complex component Cut20/Apc4, putative
<b>Afu1g16250</b>	-3.99	-1.86	-1.91	alpha-glucosidase B
<b>Afu1g16330</b>	-1.82	-0.14	-1.06	ribosome assembly protein Noc2, putative
<b>Afu1g16510</b>	-1.54	-0.47	-0.80	heme/steroid binding domain protein, putative
<b>Afu1g17120</b>	-1.59	-0.49	-0.61	elongation factor-1 gamma
<b>Afu1g17150</b>	-1.51	-2.19	-2.08	C6 transcription factor, putative
<b>Afu1g17160</b>	-1.44	-1.83	-1.43	transporter, putative
<b>Afu1g17170</b>	-1.58	-2.28	-1.45	alpha-ketoglutarate-dependent taurine dioxygenase
<b>Afu1g17190</b>	-0.80	-1.68	-1.51	long-chain-fatty-acid-CoA ligase, putative
<b>Afu1g17200</b>	-0.92	-1.34	-1.86	nonribosomal peptide synthase, putative
<b>Afu1g17370</b>	-2.06	0.51	-0.68	chaperone/heat shock protein Hsp9, putative
<b>Afu1g17590</b>	-1.65	-1.69	-0.34	phosphoesterase superfamily protein
<b>Afu1g17680</b>	-1.58	-0.61	-0.01	MFS transporter, putative
<b>Afu2g00120</b>	0.15	-1.30	-1.67	carboxyvinyl-carboxyphosphonate phosphorylmutase
<b>Afu2g00240</b>	-1.80	-0.62	-1.88	hypothetical protein
<b>Afu2g00320</b>	-0.26	-1.69	-1.75	sterol delta 5,6-desaturase, putative
<b>Afu2g00500</b>	-0.36	-2.76	-2.72	conserved hypothetical protein
<b>Afu2g00520</b>	-1.90			hypothetical protein
<b>Afu2g00540</b>	-2.09	-1.45	-2.67	carboxyphosphoenolpyruvate phosphonmutase, putative
<b>Afu2g00570</b>	-1.35	-1.58	-1.71	GNAT family acetyltransferase, putative
<b>Afu2g00580</b>	-1.77	0.02	-1.04	hypothetical protein
<b>Afu2g00720</b>	-2.80	-2.92	-2.97	aldehyde dehydrogenase, putative
<b>Afu2g00760</b>	-0.53	-1.78	-2.38	pectate lyase A
<b>Afu2g00870</b>	-0.40	-1.52	-0.69	hypothetical protein
<b>Afu2g01130</b>	-2.27	-0.80	-0.12	ubiquitin conjugating enzyme (UbcJ), putative
<b>Afu2g01280</b>	-1.96	0.98	-0.57	D-mandelate dehydrogenase, putative
<b>Afu2g01320</b>	-2.86	-2.45	-2.63	P-type ATPase, putative

<b>Afu2g01490</b>	-0.62	-0.10	-2.43	hypothetical protein
<b>Afu2g01990</b>	-1.68	-0.86	-1.10	Signal recognition particle 14kD protein domain containing protein
<b>Afu2g02090</b>	-1.79	-1.14		methylated-DNA-protein-cysteine methyltransferase
<b>Afu2g02270</b>	-2.43	-0.64	-1.41	ribosomal protein S14p/S29e
<b>Afu2g03000</b>	-1.58	-1.20	-1.21	nucleoside transporter, putative
<b>Afu2g03150</b>	-1.88	-0.81	-1.70	kinesin family protein
<b>Afu2g03470</b>	-1.95	-0.34	-0.89	hypothetical protein
<b>Afu2g03570</b>	-2.08	-0.97	-1.08	transposase
<b>Afu2g04140</b>	-1.17	-1.00	-1.62	conserved hypothetical protein
<b>Afu2g04210</b>	-2.32	-1.45	-1.08	conserved hypothetical protein
<b>Afu2g04260</b>	-1.60	-0.67	-0.62	transcription factor, putative
<b>Afu2g04520</b>	-1.51	-0.43	-0.16	Fe-containing alcohol dehydrogenase, putative
<b>Afu2g04540</b>	-2.01	-1.04	-0.68	hypothetical protein
<b>Afu2g04570</b>	-2.40	-0.95	-1.33	BNR/Asp-box repeat domain protein
<b>Afu2g04730</b>	-2.10			NA
<b>Afu2g05050</b>	-1.95	-0.95	-1.05	hypothetical protein
<b>Afu2g05080</b>	-1.89	-0.95	0.08	hypothetical protein
<b>Afu2g05150</b>	-1.52	-1.01	-0.57	cell wall galactomannoprotein Mp2
<b>Afu2g05180</b>	-1.58	-1.14	-1.42	NF-X1 finger and helicase domain protein, putative
<b>Afu2g05360</b>	-1.76	-1.09	-2.04	C6 transcription factor, putative
<b>Afu2g05700</b>	-2.64	-0.23	-1.14	hypothetical protein
<b>Afu2g05810</b>	-1.56	-0.99	-1.33	dienelactone hydrolase
<b>Afu2g07750</b>	-1.63	-0.71	-0.29	haloacid dehalogenase, type II
<b>Afu2g07840</b>	-3.18	-1.80	-2.74	competence/damage-inducible protein CinA, putative
<b>Afu2g07910</b>	-1.67	-1.62	-1.65	myo-inositol transporter
<b>Afu2g07940</b>	-1.76	-0.52	-1.13	NADPH-cytochrome P450 reductase (CprA), putative
<b>Afu2g08130</b>	-1.67	-0.50	-1.25	ribosomal protein L41
<b>Afu2g08180</b>	-0.73	-1.31	-2.68	flotillin domain protein
<b>Afu2g08320</b>	-1.53	-0.44	-0.42	U3 small nucleolar ribonucleoprotein subunit (Imp3), putative

<b>Afu2g08500</b>	-1.18	-0.39	-1.52	carboxylesterase, putative
<b>Afu2g08680</b>	-1.76	0.25	0.03	hypothetical protein
<b>Afu2g08880</b>	-1.66	-0.73	-1.20	hypothetical protein
<b>Afu2g08950</b>	-1.64	-0.53	0.13	isochorismatase family hydrolase, putative
<b>Afu2g09030</b>	-2.73	-2.51	-3.13	secreted dipeptidyl peptidase
<b>Afu2g09450</b>	-4.15	-4.46	-4.48	carboxylic acid transport protein
<b>Afu2g09580</b>	-1.73	-0.54		UDP-N-acetylenolpyruvoylglucosamine reductase
<b>Afu2g09670</b>	-1.64	-0.35	-1.09	SNARE protein (Ufe1), putative
<b>Afu2g10020</b>	-2.17	-0.79	-2.44	hypothetical protein
<b>Afu2g10580</b>	-1.72	0.07	-0.26	hypothetical protein
<b>Afu2g10920</b>	-1.59	-0.76	0.49	enoyl-CoA hydratase/isomerase family protein
<b>Afu2g11120</b>	0.05	-0.68	-2.10	hypothetical protein
<b>Afu2g11520</b>	1.03	-0.50	-2.24	MFS monosaccharide transporter, putative
<b>Afu2g11820</b>	-1.72	-1.20	-0.73	hypothetical protein
<b>Afu2g12020</b>	-1.61	-1.32	-0.82	U6 snRNA-associated Sm-like protein LSM4, putative
<b>Afu2g12600</b>	-0.75	-1.12	-1.87	hypothetical protein
<b>Afu2g12680</b>	-1.58	-3.40	-4.34	conserved hypothetical protein
<b>Afu2g12740</b>	-1.58	-0.17	0.74	methyltransferase, putative
<b>Afu2g12990</b>	-1.55	-0.83	-0.89	cyclophilin
<b>Afu2g13010</b>	-1.69	-0.46	-1.03	cytochrome c oxidase polypeptide vib
<b>Afu2g13160</b>	-1.58	-0.79	-1.34	hypothetical protein
<b>Afu2g13460</b>	0.55	-0.06	-2.05	alpha-amylase, putative
<b>Afu2g14490</b>	-2.23	-4.64	-4.74	endoglucanase, putative
<b>Afu2g14540</b>	-1.95	-2.10	-1.82	endoglucanase, putative
<b>Afu2g14610</b>	-1.62	0.46	0.36	Oxalate decarboxylase
<b>Afu2g14630</b>	-1.18	-0.59	-1.59	cell wall glycosyl hydrolase family 88 (YteR), putative
<b>Afu2g14850</b>	-1.76	-0.62	-0.97	enoyl-CoA hydratase/isomerase family protein
<b>Afu2g14950</b>	0.08	-0.47	-1.57	exonuclease, putative
<b>Afu2g15150</b>	-1.53	-0.93	-0.80	choline transport protein, putative
<b>Afu2g15510</b>	-2.04	-1.14	-1.35	conserved hypothetical protein
<b>Afu2g15950</b>	-1.14	-3.27	-3.00	aspartic endopeptidase, putative
<b>Afu2g16190</b>	-1.59	-0.06	-0.44	hypothetical protein

<b>Afu2g16710</b>	-1.60	-0.93	-1.33	hypothetical protein
<b>Afu2g16880</b>	-2.02	-0.10	-0.65	ribosomal protein L37a
<b>Afu2g17020</b>	-1.04	-0.41	-1.52	NA
<b>Afu2g17450</b>	-0.54	-1.20	-1.56	3-hydroxyanthranilate 3,4-dioxygenase
<b>Afu2g18080</b>	-2.85	1.57	-1.03	LINE-1 class reverse transcriptase, RNaseH, putative
<b>Afu3g00350</b>	-1.73	-0.74	-1.22	hypothetical protein
<b>Afu3g00490</b>	-3.44	-2.56	-3.99	C6 finger domain protein, putative
<b>Afu3g00650</b>		-1.63	-1.55	aminopeptidase Y, putative
<b>Afu3g00660</b>	-2.30	-1.08	-1.52	conserved hypothetical protein
<b>Afu3g00720</b>	-0.69	-0.82	-1.68	DUF500 and UBA/TS-N domain protein
<b>Afu3g00730</b>	-1.20	-0.68	-1.60	conserved hypothetical protein
<b>Afu3g00760</b>	-0.66	-0.48	-1.56	GNAT family N-acetyltransferase, putative
<b>Afu3g00770</b>	-2.03	-2.90	-2.92	hypothetical protein
<b>Afu3g00960</b>	-1.83	-0.06	0.30	conserved hypothetical protein
<b>Afu3g01210</b>	-1.64	-1.06	-1.22	ThiJ/PfpI family protein
<b>Afu3g01240</b>	-2.69	-0.80	-0.76	hypothetical protein
<b>Afu3g01280</b>	-1.58	-1.82	-0.69	alpha/beta hydrolase, putative
<b>Afu3g01340</b>	-2.10	-1.18	-1.19	DUF636 domain protein
<b>Afu3g01370</b>	-2.06	-0.75	-1.11	MFS transporter, putative
<b>Afu3g01430</b>	-2.34	-0.93	-1.12	benzodiazepine receptor family protein
<b>Afu3g01480</b>	-1.69	-1.49	-2.67	conserved hypothetical protein
<b>Afu3g01530</b>	-3.17	-1.93	-1.09	phosphatidylglycerol specific phospholipase, putative
<b>Afu3g01580</b>	-1.69	-0.62	-0.19	GMC oxidoreductase, putative
<b>Afu3g01610</b>	-2.06	-0.93	-0.81	hypothetical protein
<b>Afu3g01670</b>		-1.98	-0.90	MFS hexose transporter, putative
<b>Afu3g01710</b>	-1.28	-0.57	-1.63	TPR domain protein
<b>Afu3g02260</b>	-1.69	-0.94	-1.44	hypothetical protein
<b>Afu3g02270</b>	-0.89	-0.92	-2.05	mycelial catalase Cat1
<b>Afu3g03000</b>	-3.04	-1.70	-2.64	phosphatidylethanolamine-binding protein, putative
<b>Afu3g03010</b>	-5.35	-2.99	-2.89	phosphate-repressible phosphate permease
<b>Afu3g03070</b>	-1.65	0.24		MYND domain protein, putative
<b>Afu3g03110</b>	-1.73	-0.58	-0.90	NA

<b>Afu3g03120</b>	-2.59	1.04	-1.36	NA
<b>Afu3g03370</b>	-1.51	-0.59	-0.91	cell surface protein, putative
<b>Afu3g03640</b>	-0.17	0.32	-2.07	siderochrome-iron transporter (MirB), putative
<b>Afu3g03650</b>	-0.29	-1.43	-2.03	acetyltransferase, GNAT family, putative
<b>Afu3g03670</b>	0.51	-1.60	-1.11	ABC multidrug transporter, putative
<b>Afu3g03730</b>	-0.61	-0.03	-2.36	hypothetical protein
<b>Afu3g03770</b>	-1.56	-0.56	-0.94	transposase
<b>Afu3g03810</b>	-1.66	-1.09	0.36	hypothetical protein
<b>Afu3g03820</b>	-1.81	-1.27	0.59	MFS transporter, putative
<b>Afu3g03850</b>	-1.78	-1.19	-0.57	hypothetical protein
<b>Afu3g03860</b>	-2.41	-1.83	0.29	3-hydroxyacyl-CoA dehydrogenase, putative
<b>Afu3g03950</b>	0.87		-1.58	endoglucanase, putative
<b>Afu3g04290</b>	-0.90		-1.57	NA
<b>Afu3g05360</b>	-1.72	-0.55	-0.81	histone H2A
<b>Afu3g07140</b>	-2.01	-0.48	-0.77	developmental regulator FluG
<b>Afu3g07300</b>	-1.01	-1.20	-1.86	ABC multidrug transporter, putative
<b>Afu3g07560</b>	-1.93	-0.57	-1.64	enoyl-CoA hydratase/isomerase family protein
<b>Afu3g07860</b>	-1.51	-1.50	-1.99	glycosyl transferase, putative
<b>Afu3g07870</b>	-3.26	-2.58	-3.09	extracellular serine-rich protein
<b>Afu3g07900</b>	-2.36	-1.77	-2.56	conserved hypothetical protein
<b>Afu3g07910</b>	-3.87	-2.69	-3.09	UDP-glucose 4-epimerase, putative
<b>Afu3g07930</b>	-1.53	-0.51	-0.42	putative glutathione S-transferase
<b>Afu3g08130</b>	-2.19	-1.97	-2.50	hypothetical protein
<b>Afu3g08150</b>	-1.53	-0.96	-1.08	hypothetical protein
<b>Afu3g08850</b>	-1.54	-0.14	0.05	FAD dependent sulfhydryl oxidase Erv1, putative
<b>Afu3g09120</b>	-1.80	-0.56	-0.85	hypothetical protein
<b>Afu3g09200</b>	-0.55	-1.38	-1.77	NA
<b>Afu3g09410</b>	-1.83	0.88		reverse transcriptase
<b>Afu3g09430</b>	-2.41	1.02	-0.84	LINE-1 class reverse transcriptase, RNaseH, putative
<b>Afu3g10330</b>	-2.18	-0.69	-1.09	hypothetical protein
<b>Afu3g10500</b>	-1.87	-2.18	-2.77	hypothetical protein
<b>Afu3g10510</b>	-2.75	-0.64	-0.94	hypothetical protein
<b>Afu3g10690</b>	-2.76	-2.37	-3.78	calcium-translocating P-type ATPase(PMCA-

				type),putative
<b>Afu3g10990</b>			-2.12	NA
<b>Afu3g11480</b>	-1.68	-0.74	-0.37	mitochondrial methylglutaconyl-CoA hydratase (Auh), putative
<b>Afu3g11820</b>	-1.89	-0.51	-1.08	mitochondrial oligoribonuclease, putative
<b>Afu3g11880</b>	-4.24	-0.67	-1.11	hypothetical protein
<b>Afu3g11970</b>	-3.95	-2.87	-3.87	C2H2 transcription factor PacC, putative
<b>Afu3g12070</b>	-0.60	-0.42	-2.34	conserved hypothetical protein
<b>Afu3g12090</b>	-1.94	-0.87	-2.36	hypothetical protein
<b>Afu3g12220</b>	-1.55	1.18	-0.98	ABC transporter, putative
<b>Afu3g12740</b>	-1.73	-0.82	-1.16	copper resistance-associated P-type ATPase, putative
<b>Afu3g12790</b>	-1.53	-1.31	-1.90	conserved glutamic acid-rich protein
<b>Afu3g13220</b>	-1.12	0.29	-1.80	hypothetical protein
<b>Afu3g13600</b>	-2.07	-1.87	-2.06	C6 transcription factor, putative
<b>Afu3g13620</b>	-1.20	-0.37	-1.82	conserved hypothetical protein
<b>Afu3g13740</b>	-2.03	-1.72	-0.40	HSP70 family protein
<b>Afu3g13910</b>	-2.02	-0.57	-1.22	NADH-ubiquinone oxidoreductase B18 subunit, putative
<b>Afu3g14030</b>	-4.81	-3.75	-3.92	alkaline phosphatase
<b>Afu3g14600</b>	-1.52	-0.43	-0.59	fungal specific transcription factor, putative
<b>Afu3g14650</b>	-1.87	0.04	-0.02	hypothetical protein
<b>Afu3g14660</b>	-1.75	-0.08	-0.71	hypothetical protein
<b>Afu3g14870</b>	0.26	-0.36	-2.03	hypothetical protein
<b>Afu3g15080</b>	0.42	-0.54	-1.61	hypothetical protein
<b>Afu3g15350</b>	-0.31		-2.00	short chain dehydrogenase family protein, putative
<b>Afu3g15370</b>	-2.70	1.49	-1.16	LINE-1 class reverse transcriptase, RNaseH, putative
<b>Afu4g00750</b>	-2.82	-2.87	-3.51	hypothetical protein
<b>Afu4g00760</b>	-1.43	-2.26	-3.22	hypothetical protein
<b>Afu4g00820</b>	-2.94	1.68	-1.27	reverse transcriptase, RNaseH
<b>Afu4g00930</b>	-3.90	-2.74	-3.68	CorA family metal ion transporter, putative
<b>Afu4g01000</b>	-1.76	-0.59	0.55	MFS transporter, putative
<b>Afu4g01060</b>	-1.69	-0.66	0.06	hypothetical protein
<b>Afu4g01120</b>	-0.25	0.13	-1.81	hypothetical protein

<b>Afu4g01270</b>	-1.76	-0.33	-0.34	hypothetical protein
<b>Afu4g01560</b>	-2.57	-3.05	-4.92	MFS myo-inositol transporter, putative
<b>Afu4g01570</b>	-2.33	-1.44	-2.52	neutral amino acid permease
<b>Afu4g06420</b>	-1.88	-0.10	-0.58	fungal specific transcription factor, putative
<b>Afu4g06470</b>	-0.64	0.27	-2.13	NA
<b>Afu4g06600</b>	-1.54	-0.91	-1.22	hypothetical protein
<b>Afu4g06640</b>	-2.23	-1.30	-0.65	acid sphingomyelinase
<b>Afu4g06650</b>	-2.45	-2.24	-2.72	hypothetical protein
<b>Afu4g06860</b>	-1.73	-0.82	-1.38	conserved hypothetical protein
<b>Afu4g07150</b>	-2.21	-0.81	-1.16	cytochrome-c oxydase chain VIIc-like protein
<b>Afu4g07750</b>	-1.73	-0.51	-0.86	UPF0041 domain protein
<b>Afu4g08640</b>	-1.72	0.13	1.35	hypothetical protein
<b>Afu4g08680</b>	-1.86	-0.40	-0.88	hypothetical protein
<b>Afu4g08750</b>	-2.05	-0.74	-0.82	hypothetical protein
<b>Afu4g08840</b>	-2.26	-2.97	-2.18	RING finger domain protein, putative
<b>Afu4g08850</b>	-1.96	-1.89	-1.92	hypothetical protein
<b>Afu4g08890</b>	-1.98	1.41	-0.82	aldo-keto reductase family protein, putative
<b>Afu4g09300</b>	-1.92	-1.39	-2.00	hypothetical protein
<b>Afu4g09310</b>	-2.50	-2.77	-3.89	hypothetical protein
<b>Afu4g09320</b>	-5.70	-3.69	-6.07	antigenic dipeptidyl-peptidase Dpp4
<b>Afu4g09330</b>	-1.83	-0.27	-0.67	conserved hypothetical protein
<b>Afu4g09340</b>	-2.63	-0.50	-0.74	hypothetical protein
<b>Afu4g09440</b>	-2.74	-2.05	-1.71	sodium P-type ATPase, putative
<b>Afu4g09450</b>	-1.78	-0.18	-0.24	hypothetical protein
<b>Afu4g09560</b>	-2.89	-2.24	-2.92	ZIP Zinc transporter, putative
<b>Afu4g09580</b>	-3.22	-2.25	-2.21	major allergen Asp F2
<b>Afu4g09920</b>	-3.23	-0.87	-1.61	conserved hypothetical protein
<b>Afu4g09980</b>	-1.59	-0.65	-1.46	cytochrome P450 monooxygenase, putative
<b>Afu4g09990</b>	-3.34	-3.10	-3.52	Nucleoside transporter family
<b>Afu4g10370</b>	-2.35	-1.62	-1.34	3-demethylubiquinone-9 3-methyltransferase
<b>Afu4g10610</b>	-3.23	-1.32	-1.39	hypothetical protein
<b>Afu4g11380</b>	-0.39	-1.59	-0.30	hypothetical protein
<b>Afu4g11400</b>	-1.64	-0.26	-0.22	cell surface receptor/MFS transporter (FLVCR), putative

<b>Afu4g11620</b>	-2.11	-0.78	-0.19	conserved hypothetical protein
<b>Afu4g11800</b>	-1.56	-3.83	-1.22	alkaline serine protease Alp1
<b>Afu4g12150</b>	-1.51	-0.82	-0.43	HIT domain protein
<b>Afu4g12430</b>	-1.70	-0.73	-0.42	PSF1 domain protein
<b>Afu4g12490</b>	-2.04	-0.33	-1.26	guanine nucleotide exchange factor VPS9, putative
<b>Afu4g12540</b>	-1.55	-0.67	-0.31	hypothetical protein
<b>Afu4g13090</b>	-0.47	-1.17	-1.54	MFS transporter, putative
<b>Afu4g13260</b>	-1.00	-0.66	-1.68	hypothetical protein
<b>Afu4g13760</b>	-2.05	-2.05	-3.66	hypothetical protein
<b>Afu4g13820</b>	-1.78	0.23	-1.54	multidrug transporter, putative
<b>Afu4g13880</b>	0.95	-0.55	-2.21	ankyrin repeat protein
<b>Afu4g13900</b>	0.14	-0.29	-2.20	MFS transporter, putative
<b>Afu4g13970</b>		-1.02	-2.35	conserved hypothetical protein
<b>Afu4g14070</b>	-0.47	-2.58	-2.40	glycosyl transferase, putative
<b>Afu4g14090</b>	-0.77	-1.74	-1.29	UDP-glucose 4-epimerase
<b>Afu4g14180</b>	-1.71	-1.31	-1.83	hypothetical protein
<b>Afu4g14200</b>			-2.53	conserved hypothetical protein
<b>Afu4g14230</b>	0.10	-0.42	-1.51	MFS transporter, putative
<b>Afu4g14370</b>	-1.78	0.83	-1.74	LINE-1 class reverse transcriptase, RNase H, putative
<b>Afu4g14420</b>	-2.13	-1.69	-1.07	secreted glycosyl hydrolase, putative
<b>Afu4g14860</b>	-1.81	1.41		NA
<b>Afu4g14870</b>	-2.93	1.69	-1.14	LINE-1 class reverse transcriptase, RNaseH, putative
<b>Afu5g00100</b>	-0.99	0.18	-1.74	hypothetical protein
<b>Afu5g00540</b>	-0.67	-1.82	-2.54	extracellular signaling protein FacC, putative
<b>Afu5g00670</b>	-1.71	-1.44	-1.48	glycosyl hydrolase family 35, putative
<b>Afu5g00770</b>	-0.61	-2.28	-2.71	integral membrane protein, putative
<b>Afu5g00790</b>	-2.39	-2.76	-3.69	ABC multidrug transporter, putative
<b>Afu5g00810</b>	-1.65	-0.36		hypothetical protein
<b>Afu5g00870</b>	-2.54	-1.90	-3.25	hypothetical protein
<b>Afu5g01230</b>	-0.24	-2.22	-0.06	RTA1 domain protein, putative
<b>Afu5g01250</b>		-1.83	-2.97	oxidoreductase, putative
<b>Afu5g01440</b>	-2.13	-0.71	-0.61	allergen, putative

<b>Afu5g01570</b>	-3.31	-2.20	-3.34	hypothetical protein
<b>Afu5g01580</b>	-4.90	-1.81	-3.66	oxidoreductase, short chain dehydrogenase/reductase family
<b>Afu5g01710</b>	-2.24	1.11	-1.78	cytochrome P450 phenylacetate 2-hydroxylase, putative
<b>Afu5g01770</b>	-1.73	-0.96	-0.79	conserved hypothetical protein
<b>Afu5g01990</b>	-1.73	-1.82	-0.75	BYS1 domain protein, putative
<b>Afu5g02250</b>	-1.27	-0.42	-2.14	conserved hypothetical protein
<b>Afu5g02350</b>	-1.89	-0.68	-1.02	hydrolase, carbon-nitrogen family, putative
<b>Afu5g02500</b>	-1.65	-0.73	-1.38	hypothetical protein
<b>Afu5g02870</b>	-1.67	-0.87	-0.22	oxidoreductase, short-chain dehydrogenase/reductase family
<b>Afu5g02990</b>	-1.73	-2.01	-2.90	aromatic amino acid aminotransferase, putative
<b>Afu5g03170</b>	-1.84	0.17		hypothetical protein
<b>Afu5g03620</b>	-1.73	-0.20	-0.53	endonuclease/transposase
<b>Afu5g04040</b>	-2.26	-0.27	-0.84	conserved hypothetical protein
<b>Afu5g05910</b>	-1.04	-0.79	-1.70	hypothetical protein
<b>Afu5g06910</b>	-2.98	-0.43	0.18	DUF636 domain protein
<b>Afu5g06960</b>	-1.50	-0.58	-0.31	conserved hypothetical protein
<b>Afu5g07610</b>	-2.17	-0.81	-1.22	NA
<b>Afu5g07670</b>	-1.04	-0.93	-1.75	SH3 domain signalling protein
<b>Afu5g09130</b>	-2.45	-0.95	-1.94	polysaccharide deacetylase family protein
<b>Afu5g09140</b>	-1.77	-0.52	-1.67	amidase, putative
<b>Afu5g09150</b>	-1.70	-0.96	-0.56	oxidoreductase, short-chain dehydrogenase/reductase family
<b>Afu5g09530</b>	-1.64	-1.47	-1.02	conserved hypothetical protein
<b>Afu5g10090</b>	-2.78	-1.33	-1.44	3-demethylubiquinone-9 3-methyltransferase, putative
<b>Afu5g10250</b>	-2.74	-1.61	-3.38	hypothetical protein
<b>Afu5g10290</b>	-1.80	-0.36	-0.38	fructose-bisphosphate aldolase, putative
<b>Afu5g11190</b>	-1.79	-1.77	-2.89	hypothetical protein
<b>Afu5g12600</b>		-1.12	-1.68	DNA excision repair protein (Rad5), putative
<b>Afu5g13030</b>	-1.91	-0.53	-1.13	Apc13 domain protein
<b>Afu5g13100</b>	-1.51	-0.15	-1.10	hypothetical protein
<b>Afu5g13170</b>	0.59	0.28	-1.57	MATE efflux family protein subfamily, putative

<b>Afu5g13630</b>	-1.57	-0.74	-0.36	EF-hand superfamily protein
<b>Afu5g14070</b>	-0.88	-0.50	-1.66	conserved hypothetical protein
<b>Afu5g14210</b>	-2.48	-0.74	-1.27	glucose-repressible gene protein-related protein
<b>Afu5g14290</b>	-1.13	-0.84	-2.49	C6 transcription factor, putative
<b>Afu5g14650</b>	-1.62	-0.93	-0.19	RING finger protein
<b>Afu5g14680</b>	-2.04	0.03	-3.45	hypothetical protein
<b>Afu5g14690</b>	-1.22	0.36	-3.56	phosphorylase, putative
<b>Afu5g14710</b>	0.51	-0.70	-1.83	hypothetical protein
<b>Afu5g14780</b>	-1.54	0.73	-1.95	heat shock trehalose synthase, putative
<b>Afu5g14930</b>	-1.60	0.27	-0.24	conserved hypothetical protein
<b>Afu6g00140</b>	-1.90	-2.33	-2.25	hypothetical protein
<b>Afu6g00400</b>	-0.48	-0.18	-1.73	conserved hypothetical protein
<b>Afu6g00470</b>	-3.85	-2.44	-3.05	plasma membrane zinc ion transporter, putative
<b>Afu6g00710</b>	-2.29	-1.49	-0.67	MFS transporter, putative
<b>Afu6g00780</b>	-2.77	1.73	-1.04	LINE-1 class reverse transcriptase, RNaseH, putative
<b>Afu6g01850</b>	-2.04	-0.42	0.11	hypothetical protein
<b>Afu6g01980</b>	-1.95	-0.31	-0.95	haemolysin-III family protein
<b>Afu6g02040</b>	-1.77	-0.68	-0.08	hypothetical protein
<b>Afu6g02140</b>	-1.29	-1.37	-1.88	peptidyl prolyl cis-trans isomerase (CypC), putative
<b>Afu6g02220</b>	-2.29	-0.99	-1.14	MFS toxin efflux pump, putative
<b>Afu6g02290</b>	-1.33	-0.83	-1.70	hypothetical protein
<b>Afu6g02830</b>	-1.70	-0.28	-0.89	hypothetical protein
<b>Afu6g02960</b>	-1.76	-0.75	-1.25	NADH-ubiquinone oxidoreductase 105 kDa subunit
<b>Afu6g03100</b>	-1.74	-1.16	-0.71	hypothetical protein
<b>Afu6g03140</b>	-1.07	-1.10	-2.09	isp4 protein, putative
<b>Afu6g03170</b>	-2.18	-1.43	-1.22	NA
<b>Afu6g03190</b>	-2.34	-0.33	0.98	hypothetical protein
<b>Afu6g03200</b>	-2.09	-0.56	0.24	solute symporter family transporter
<b>Afu6g03350</b>	-2.41	-3.60	-4.51	acetyltransferase, GNAT family, putative
<b>Afu6g03400</b>	-2.28	-0.67	-0.92	hypothetical protein
<b>Afu6g03460</b>	-2.24	-1.65	-3.11	hypothetical protein
<b>Afu6g03480</b>	-0.08	-2.15	-2.15	nonribosomal peptide synthetase, putative

<b>Afu6g03490</b>	0.35	-1.62	-1.15	phenol 2-monooxygenase, putative
<b>Afu6g03800</b>	-1.68	-0.09	-1.51	hypothetical protein
<b>Afu6g04020</b>	-2.02	-0.71	-0.97	peptidyl-tRNA hydrolase domain protein
<b>Afu6g04370</b>	-0.67	-0.66	-1.58	hypothetical protein
<b>Afu6g04620</b>	-1.89	-0.29	-0.91	NADH-ubiquinone oxidoreductase B14 subunit, putative
<b>Afu6g04700</b>	-1.71	-0.60	-1.27	imidazoleglycerol-phosphate dehydratase
<b>Afu6g07480</b>	-1.20	-0.70	-1.92	endoglucanase C
<b>Afu6g07920</b>	-0.76	-0.88	-1.69	acetyltransferase, GNAT family family
<b>Afu6g08180</b>	-1.91	-0.37	-0.68	hypothetical protein
<b>Afu6g08560</b>	-2.00	-0.71	-1.62	nonribosomal peptide synthase (NRPS), putative
<b>Afu6g08630</b>	-1.69	-0.79	-0.44	hypothetical protein
<b>Afu6g08700</b>	-2.44	-0.63	-1.17	beta glucosidase, putative
<b>Afu6g08830</b>	-1.66	-1.02	-0.53	2-oxoisovalerate dehydrogenase complex alpha subunit, putative
<b>Afu6g09340</b>	-1.67	1.08		hypothetical protein
<b>Afu6g09470</b>	-2.80	1.45	-0.98	reverse transcriptase, RNaseH, putative
<b>Afu6g09610</b>	-0.72	-1.14	-2.07	nonribosomal peptide synthase, putative
<b>Afu6g09640</b>	-1.03	-2.45	-3.79	aminotransferase GliI
<b>Afu6g09650</b>	-0.76	-1.97	-4.06	membrane dipeptidase GliJ
<b>Afu6g09660</b>			-3.31	nonribosomal peptide synthase GliP
<b>Afu6g09670</b>	0.29	-3.38	-6.05	cytochrome P450 oxidoreductase GliC
<b>Afu6g09680</b>		-4.31	-6.94	O-methyltransferase GliM
<b>Afu6g09690</b>	-0.58	-3.98	-7.27	glutathione S-transferase GliG
<b>Afu6g09700</b>	-0.12	-2.98	-6.89	gliotoxin biosynthesis protein GliK
<b>Afu6g09710</b>	0.62	-3.02	-5.56	MFS gliotoxin efflux pump GliA
<b>Afu6g09720</b>		-4.85	-7.37	methyltransferase GliN
<b>Afu6g09730</b>	-0.29	-4.08	-6.18	cytochrome P450 oxidoreductase GliF
<b>Afu6g09740</b>	-1.00	-3.30	-5.05	thioredoxin reductase GliT
<b>Afu6g09830</b>	-2.77	-1.17	-0.21	hypothetical protein
<b>Afu6g10080</b>	-2.21	-1.06	-1.58	conserved hypothetical protein
<b>Afu6g10700</b>	-1.90	-0.83	-1.10	chaperonin, putative
<b>Afu6g11320</b>	0.54	-1.38	-2.48	MFS transporter, putative
<b>Afu6g11330</b>	-1.77	-1.71	-1.33	histidine acid phosphatase, putative

<b>Afu6g11390</b>	-2.11	-2.45	-3.32	1,3-beta-glucanosyltransferase Gel2
<b>Afu6g11600</b>	-2.11	-0.52	-0.10	endoglucanase, putative
<b>Afu6g11680</b>	-1.52	-1.34	-0.90	thiamine pyrophosphate enzyme, putative
<b>Afu6g11690</b>	-1.70	0.72		NA
<b>Afu6g11810</b>	-1.75	1.34		RTA1 domain protein, putative
<b>Afu6g12000</b>	-1.66	-0.47	-0.79	hypothetical protein
<b>Afu6g12150</b>	-0.50	0.08	-1.54	bZIP transcription factor (Atf7), putative
<b>Afu6g12170</b>	-1.70	-0.24	-1.01	FKBP-type peptidyl-prolyl isomerase, putative
<b>Afu6g12200</b>	-1.63	-0.21	-1.18	hypothetical protein
<b>Afu6g12220</b>	-1.79	-1.20	-1.31	isochorismatase family hydrolase, putative
<b>Afu6g12240</b>	-4.95	-4.28	-5.19	Glycerophosphoryl diester phosphodiesterase family family
<b>Afu6g12420</b>	0.21	-1.00	-1.65	SprT family metallopeptidase, putative
<b>Afu6g12450</b>	-1.88	-0.67	-2.99	chaperone/heat shock protein Hsp12, putative
<b>Afu6g12460</b>	-1.83	-0.59	-2.83	conserved hypothetical protein
<b>Afu6g12480</b>	-0.73	-0.69	-1.68	ngg1-interacting factor 3
<b>Afu6g12780</b>	-0.22	-0.03	-1.53	conserved hypothetical protein
<b>Afu6g13280</b>	-1.61	-0.15	-0.75	Fox2 protein
<b>Afu6g13290</b>	-1.14	-0.79	-1.67	SNF2 family helicase/ATPase, putative
<b>Afu6g13310</b>	-1.49	-1.25	-1.50	26S proteasome non-ATPase regulatory subunit 9, putative
<b>Afu6g13750</b>	-5.45	-4.16	-5.55	ferric-chelate reductase, putative
<b>Afu6g13760</b>	-2.58	-2.25	-2.56	alpha-1,2-mannosidase, putative subfamily
<b>Afu6g13780</b>	-2.33	-0.28	-0.66	multidrug resistant protein, putative
<b>Afu6g13840</b>	-4.19	-1.79	-1.63	conserved hypothetical protein
<b>Afu6g13850</b>	-2.48	-2.32	-1.48	GTPase activating protein (Evi5), putative
<b>Afu6g13860</b>	-1.62	-0.56	-1.22	conserved hypothetical protein
<b>Afu6g14000</b>	-1.91	0.63	-0.75	Tri7-like toxin biosynthesis protein, putative
<b>Afu6g14380</b>	-1.66	-0.23	0.22	hypothetical protein
<b>Afu6g14500</b>	-4.11	-3.69	-2.59	MFS sugar transporter, putative
<b>Afu6g14530</b>	-3.29	-1.42	-0.67	L-cystine transporter, putative
<b>Afu6g14540</b>	-1.78	2.01	1.99	endo-1,3(4)-beta-glucanase, putative
<b>Afu6g14570</b>			-1.65	conserved hypothetical protein
<b>Afu6g14660</b>	-2.96	1.86	-1.16	reverse transcriptase, RNaseH

<b>Afu7g00280</b>	-1.16	-2.12	-2.36	conserved hypothetical protein
<b>Afu7g00440</b>	-2.17	-2.42	-2.77	GABA permease, putative
<b>Afu7g00450</b>	-3.54	-2.76	-3.11	GPI anchored protein, putative
<b>Afu7g00580</b>	-3.84	-3.26	-4.68	conserved hypothetical protein
<b>Afu7g00710</b>	-0.98	-1.09	-1.72	oxalate/formate antiporter, putative
<b>Afu7g00780</b>	-2.44	-1.11	-1.09	MFS monocarboxylate transporter, putative
<b>Afu7g00960</b>	-1.63	0.34		extracellular cysteine-rich protein, putative
<b>Afu7g00970</b>	-1.36	-1.33	-2.65	GPI-anchored serine-threonine rich protein
<b>Afu7g00980</b>	-1.87	-1.26	-0.86	NA
<b>Afu7g01000</b>	-1.53	-0.08	0.33	aldehyde dehydrogenase, putative
<b>Afu7g01010</b>	-1.90	-0.74	-0.15	alcohol dehydrogenase, putative
<b>Afu7g01030</b>	-2.79	-1.68	-1.61	Calcium-transporting ATPase 1 (PMC1), putative
<b>Afu7g01040</b>	-2.06	-1.24	-1.37	cytidine deaminase, putative
<b>Afu7g01090</b>	-1.61	-0.58	-0.12	proline permease
<b>Afu7g01120</b>	-1.29	0.16	-1.65	NA
<b>Afu7g01440</b>	0.22	-0.12	-1.73	hypothetical protein
<b>Afu7g01520</b>	-2.47	-1.02	-1.71	BolA domain protein
<b>Afu7g01580</b>	-2.31	-0.99	-1.20	molybdopterin synthase small subunit CnxG
<b>Afu7g01670</b>	-0.93	-0.49	-2.33	MFS amino acid transporter, putative
<b>Afu7g01780</b>	-2.87	-0.62	-1.37	hypothetical protein
<b>Afu7g01900</b>	-1.87	-0.09	-0.81	TOM core complex subunit Tom6, putative
<b>Afu7g02010</b>	-3.21	-1.72	-0.48	hypothetical protein
<b>Afu7g02030</b>	-1.65	-0.25	-0.87	cytochrome c oxidase assembly protein (Pet117), putative
<b>Afu7g02220</b>	-2.65	-1.49	-3.50	hypothetical protein
<b>Afu7g02340</b>	-2.22	-0.85	-1.20	L-PSP endoribonuclease family protein (Hmf1), putative
<b>Afu7g02510</b>	-0.59	-1.66	-1.69	hypothetical protein
<b>Afu7g04280</b>	-1.73	-0.60	-0.38	small nuclear ribonucleoprotein (LSM5), putative
<b>Afu7g04560</b>	-1.55	0.62	-0.65	hypothetical protein
<b>Afu7g04820</b>	0.14	-0.74	-1.82	C6 transcription factor, putative
<b>Afu7g04970</b>	-0.35	-1.70	-0.54	metalloreductase, putative
<b>Afu7g04990</b>		-2.29	-3.79	dUTP diphosphatase Dut, putative
<b>Afu7g05010</b>	-2.17	-0.16	-0.66	glyoxalase family protein

<b>Afu7g05100</b>	-1.67	0.72	2.55	hexose transporter protein
<b>Afu7g05200</b>	-1.51	-1.24	-2.46	conserved hypothetical protein
<b>Afu7g05350</b>	-1.20	-2.06	-2.45	delta-9 fatty acid desaturase; stearoyl-CoA desaturase
<b>Afu7g05490</b>	0.08	0.30	-2.06	hypothetical protein
<b>Afu7g05560</b>	0.34	-0.46	-2.20	hypothetical protein
<b>Afu7g05610</b>	-2.66	-2.40	-2.88	glucanase, putative
<b>Afu7g05840</b>	-1.62	-1.10	-0.76	amidohydrolase family protein
<b>Afu7g05940</b>	-1.72	-0.58	-0.20	hypothetical protein
<b>Afu7g05950</b>	-1.55	-0.59	-0.61	EF-hand protein
<b>Afu7g06040</b>	-1.74	-0.53	-1.05	integral membrane protein, putative
<b>Afu7g06060</b>	-1.03	-1.86	-1.76	siderochrome-iron transporter (Sit1), putative
<b>Afu7g06160</b>	-2.69	-2.23	-1.69	hypothetical protein
<b>Afu7g06360</b>	-2.03	-1.05	-1.16	hypothetical protein
<b>Afu7g06800</b>		-1.14	-2.74	glutamyl-tRNA(Gln) amidotransferase, subunit A
<b>Afu7g07040</b>	-1.78	-0.35	-1.38	hypothetical protein
<b>Afu7g07050</b>	-2.68	0.26	-0.82	hypothetical protein
<b>Afu7g08210</b>	-1.97	1.27	-1.82	reverse transcriptase, putative
<b>Afu7g08230</b>	-1.80	-0.33	-0.60	NA
<b>Afu7g08300</b>	-2.64	0.08	-0.89	hypothetical protein
<b>Afu7g08500</b>	-2.02	1.16	-0.49	NACHT and WD40 domain protein
<b>Afu8g00310</b>	-2.66	1.61	-1.24	LINE-1 class reverse transcriptase, RNaseH, putative
<b>Afu8g00790</b>	-1.75	-0.72	-1.01	hypothetical protein
<b>Afu8g00830</b>	-0.79	-1.62	-2.90	conserved hypothetical protein
<b>Afu8g00960</b>	-2.14	-1.11	-0.91	cytochrome P450, putative
<b>Afu8g00980</b>	-2.92	-2.04	-2.34	hypothetical protein
<b>Afu8g01030</b>	-2.53	-2.91	-2.53	hypothetical protein
<b>Afu8g01040</b>	-2.45	1.67	-0.98	reverse transcriptase, RNaseH
<b>Afu8g01080</b>	-1.24	-2.17	-2.17	hypothetical protein
<b>Afu8g01120</b>	-1.91	-1.07	-1.15	hypothetical protein
<b>Afu8g01310</b>	-1.25	-2.37	-2.42	metalloreductase, putative
<b>Afu8g01400</b>	-2.37	-1.96	-1.59	mitochondrial carrier protein (Pet8), putative
<b>Afu8g01410</b>	-0.32	-1.93	-2.55	class V chitinase ChiB1

<b>Afu8g01840</b>	-1.99	0.35	-1.54	hypothetical protein
<b>Afu8g01850</b>	-5.49	-2.47	-3.55	phosphate-repressible phosphate permease
<b>Afu8g01920</b>	-2.31	-0.31	-1.47	hypothetical protein
<b>Afu8g02200</b>	-2.00	-0.34	0.19	proline permease
<b>Afu8g02270</b>	-1.56	-0.76	-0.71	dihydrodipicolinate synthetase family protein
<b>Afu8g02290</b>	-1.60	-1.20	-0.48	conserved hypothetical protein
<b>Afu8g02440</b>	-1.78	-2.02	-2.57	C-4 methyl sterol oxidase, putative
<b>Afu8g02450</b>	-5.14	-3.62	-4.97	hypothetical protein
<b>Afu8g02470</b>	-0.54	-1.02	-1.59	trihydroxytoluene oxygenase
<b>Afu8g02550</b>	-5.64	-3.68	-2.74	Ptr2-like MFS peptide transporter, putative
<b>Afu8g02560</b>	-1.92	-0.63	-0.17	glyceraldehyde-3-phosphate dehydrogenase, putative
<b>Afu8g02660</b>	-1.94	-2.40	-2.72	chromate ion transporter, putative
<b>Afu8g02670</b>	-1.68	-1.78	-2.06	conserved hypothetical protein
<b>Afu8g04280</b>	-1.57	-0.26	-0.95	conserved hypothetical protein
<b>Afu8g04480</b>	-1.66	0.04	0.98	hexose transporter protein
<b>Afu8g04920</b>	0.08	0.67	-2.25	LEA domain protein
<b>Afu8g05030</b>	-2.70	-0.60	-0.99	hypothetical protein
<b>Afu8g05040</b>	-1.69	-0.86	-0.05	dihydrodipicolinate synthetase family protein
<b>Afu8g05470</b>	-1.89			hypothetical protein
<b>Afu8g05600</b>	-1.40	-0.34	-1.60	hypothetical protein
<b>Afu8g05650</b>	-1.70	-0.47	-0.61	hypothetical protein
<b>Afu8g05690</b>	-1.80	0.21	-0.66	acetyltransferase, GNAT family family
<b>Afu8g05880</b>	-1.54	-0.46	-1.12	10 kDa chaperonin (GroES/Cpn10), putative
<b>Afu8g06130</b>	-1.68	-0.67	-0.80	FluG family protein
<b>Afu8g06220</b>	-0.51	-0.11	-1.52	conserved hypothetical protein
<b>Afu8g06290</b>	-2.68	1.43	-1.43	LINE-1 class reverse transcriptase, RNaseH, putative
<b>Afu8g06440</b>	-1.88	-0.74	0.24	fructosyl amino acid oxidase, putative
<b>Afu8g06450</b>	-2.34	-0.49	-0.29	Rieske 2Fe-2S family protein, putative
<b>Afu8g06470</b>	-1.98	-0.86	-0.30	N,N-dimethylglycine oxidase
<b>Afu8g06830</b>	0.12	-2.01	-1.76	endoglucanase, putative
<b>Afu8g06880</b>	-2.98	-2.71	-2.98	pectin methylesterase, putative
<b>Afu8g06960</b>	-2.48	-2.86	-3.44	hypothetical protein

<b>Afu8g07060</b>	-0.96	-1.25	-1.79	hydrophobin, putative
<b>Afu8g07080</b>	-3.51	-4.13	-7.06	elastinolytic metalloproteinase Mep
<b>Afu8g07090</b>	-3.11	-0.87	-0.33	extracellular proline-serine rich protein
<b>Afu8g07340</b>	-2.05	-2.61	-2.69	HET domain protein

**Table AD.3.5: List of down-regulated genes in the ATCC46645 *ΔpacC* time course.** Genes significantly down-regulated were included if showing a fold change of -1.5 on a log<sub>2</sub> scale at least in one of the time point datasets. T0 vs T4 = 4 hrs, T0 vs T8 hrs = 8 hrs, T0 vs T16 = 16 hrs.

ORFs	T4	T8	T16	Annotation	Functional classification
Afu3g11880	-4.23547	-0.66626	-1.10961	hypothetical protein	
Afu6g14530	-3.28847	-1.42491	-0.66835	L-cystine transporter, putative	L-cystine transport//L-cystine transmembrane transporter activity//integral to membrane
Afu4g10610	-3.22659	-1.31568	-1.39204	hypothetical protein	
Afu8g07090	-3.11086	-0.86701	-0.334	extracellular proline-serine rich protein	
Afu5g06910	-2.97962	-0.42897	0.184572	DUF636 domain protein	
Afu6g14660	-2.9557	1.860377	-1.1636	reverse transcriptase, RNaseH	
Afu4g00820	-2.93653	1.675784	-1.27336	reverse transcriptase, RNaseH	
Afu4g14870	-2.931	1.691895	-1.14393	LINE-1 class reverse transcriptase, RNaseH, putative	
Afu1g14820	-2.90572	0.091875	-1.15382	hypothetical protein	
Afu7g01780	-2.87419	-0.61664	-1.37278	hypothetical protein	
Afu2g18080	-2.84645	1.569657	-1.02842	LINE-1 class reverse transcriptase, RNaseH, putative	
Afu6g09470	-2.80126	1.447962	-0.98003	reverse transcriptase, RNaseH, putative	
Afu5g10090	-2.78253	-1.32544	-1.44416	3-demethylubiquinone-9 3-methyltransferase, putative	
Afu6g00780	-2.77278	1.728312	-1.04089	LINE-1 class reverse transcriptase, RNaseH, putative	
Afu6g09830	-2.76976	-1.17222	-0.21361	hypothetical protein	
Afu3g10510	-2.74832	-0.64028	-0.94419	hypothetical protein	
Afu3g15370	-2.70303	1.492442	-1.15501	LINE-1 class reverse transcriptase, RNaseH, putative	
Afu8g05030	-2.69522	-0.60416	-0.99184	hypothetical protein	
Afu3g01240	-2.69314	-0.7984	-0.76405	hypothetical protein	
Afu7g07050	-2.68214	0.2633	-0.81587	hypothetical protein	
Afu8g06290	-2.67744	1.428126	-1.4259	LINE-1 class reverse transcriptase, RNaseH, putative	
Afu8g00310	-2.66174	1.614126	-1.23683	LINE-1 class reverse transcriptase, RNaseH, putative	

Afu1g10300	-2.64905		-0.90146	hypothetical protein	
Afu7g08300	-2.64434	0.084216	-0.89306	hypothetical protein	
Afu2g05700	-2.64371	-0.23111	-1.14208	hypothetical protein	
Afu4g09340	-2.63448	-0.49654	-0.73921	hypothetical protein	
Afu5g14210	-2.47762	-0.73683	-1.26991	glucose-repressible gene protein-related protein	
Afu8g01040	-2.45291	1.671414	-0.97913	reverse transcriptase, RNaseH	
Afu6g08700	-2.44401	-0.63088	-1.17012	beta glucosidase, putative	carbohydrate metabolic process/"hydrolase activity, hydrolyzing O-glycosyl compounds"

**Table AD.3.6: 30 ORFs with the lowest log<sub>2</sub> values between the down-regulated genes unique to the 4 hrs time point of the ATCC46645  $\Delta pacC$ /ATCC46645 comparison.**

ORFs	T4	T8	T16	Description	Annotation
Afu5g01230	-0.24096	-2.22037	-0.05612	RTA1 domain protein, putative	fatty acid transport///phospholipid- translocating ATPase activity///plasma membrane///endoplasmic reticulum///integral to membrane
Afu3g01670		-1.9796	-0.90466	MFS hexose transporter, putative	mannose transmembrane transporter activity///hexose transport///fructose transmembrane transporter activity///plasma membrane///glucose transmembrane transporter activity///galactose transmembrane transporter activity
Afu1g00500		-1.93631		FMN dependent dehydrogenase, putative	L-lactate dehydrogenase (cytochrome) activity///mitochondrial intermembrane space///electron transport
Afu1g17160	-1.43931	-1.82537	-1.43362	transporter, putative	membrane///transporter activity///transport
Afu4g14090	-0.77326	-1.74198	-1.29176	UDP-glucose 4- epimerase	cellular component unknown///galactose metabolic process///molecular function unknown
Afu7g04970	-0.35248	-1.69981	-0.53531	metalloreductase, putative	ferric-chelate reductase activity///copper ion import///plasma membrane///iron ion transport
Afu6g03490	0.352669	-1.62026	-1.14572	phenol 2- monooxygenase, putative	cellular aromatic compound metabolic process///monooxygenase activity
Afu3g03670	0.511368	-1.59752	-1.11115	ABC multidrug transporter, putative	ATP-binding cassette (ABC) transporter activity///ATP binding///transport

Afu4g11380	-0.39018	-1.59447	-0.30184	hypothetical protein	
Afu1g05720	0.043107	-1.55012	-0.97044	c-14 sterol reductase	endoplasmic reticulum///ergosterol biosynthetic process//C-14 sterol reductase activity
Afu2g00870	-0.40115	-1.51851	-0.68898	hypothetical protein	

**Table AD.3.7: 11 down-regulated ORFs unique to the 8 hrs time point of the ATCC46645  $\Delta pacC$ /ATCC46645 comparison.**

ORFs	T4	T8	T16	Description	Annotation
Afu5g14690	-1.2196	0.362299	-3.55809	phosphorylase, putative	
Afu6g09660			-3.30507	nonribosomal peptide synthase GliP	peptide antibiotic biosynthetic process//nonribosomal peptide biosynthetic process//catalytic activity//secondary metabolic process//amino acid adenylation by nonribosomal peptide synthase
Afu7g06800		-1.1443	-2.73912	glutamyl-tRNA(Gln) amidotransferase, subunit A	
Afu2g08180	-0.72978	-1.31112	-2.68077	flotillin domain protein	membrane
Afu7g00970	-1.36368	-1.33176	-2.65048	GPI-anchored serine-threonine rich protein	
Afu4g14200			-2.52849	conserved hypothetical protein	cellular component unknown//biological process unknown//molecular function unknown
Afu5g14290	-1.13266	-0.8413	-2.49466	C6 transcription factor, putative	transcription factor activity//nucleus//zinc ion binding//regulation of transcription
Afu6g11320	0.54134	-1.37793	-2.47886	MFS transporter, putative	integral to plasma membrane//transporter activity//transport
Afu2g01490	-0.61901	-0.09634	-2.42675	hypothetical protein	
Afu1g10930	1.244659	-0.29084	-2.36323	ammonium transporter	pseudohyphal growth//plasma membrane//ammonium transport//ammonium transmembrane transporter activity
Afu3g03730	-0.61043	-0.028	-2.36022	hypothetical protein	
Afu4g13970		-1.02177	-2.3513	conserved hypothetical protein	
Afu3g12070	-0.60208	-0.41509	-2.33994	conserved hypothetical protein	
Afu7g01670	-0.93085	-0.49365	-2.32899	MFS amino acid transporter, putative	fungus-type vacuole//transporter activity//transport
Afu8g04920	0.076836	0.667887	-2.25142	LEA domain protein	
Afu2g11520	1.030773	-0.4971	-2.23882	MFS monosaccharide transporter, putative	mannose transmembrane transporter activity//hexose transport//fructose transmembrane transporter activity//plasma

					membrane///glucose transmembrane transporter activity
Afu4g13880	0.954418	-0.54824	-2.20732	ankyrin repeat protein	
Afu4g13900	0.144009	-0.28784	-2.19808	MFS transporter, putative	nicotinamide mononucleotide transport///nicotinamide mononucleotide permease activity///integral to plasma membrane
Afu7g05560	0.338728	-0.46484	-2.19781	hypothetical protein	
Afu1g03160	-1.46566	-0.99915	-2.17325	hypothetical protein	
Afu5g02250	-1.27462	-0.41563	-2.14126	conserved hypothetical protein	
Afu2g11120	0.048098	-0.67513	-2.10403	hypothetical protein	
Afu6g03140	-1.07119	-1.10186	-2.08614	isp4 protein, putative	oligopeptide transporter activity///integral to plasma membrane///oligopeptide transport
Afu3g03640	-0.1735	0.317753	-2.07101	siderochrome-iron transporter (MirB), putative	siderophore-iron transport///siderophore-iron (ferrioxamine) uptake transmembrane transporter activity///integral to membrane///cellular iron ion homeostasis
Afu6g09610	-0.71728	-1.1404	-2.06918	nonribosomal peptide synthase, putative	nonribosomal peptide biosynthetic process///pathogenesis
Afu7g05490	0.08085	0.295737	-2.06049	hypothetical protein	
Afu2g13460	0.552806	-0.0569	-2.05493	alpha-amylase, putative	carbohydrate utilization///alpha-amylase activity
Afu1g03200		-0.95734	-2.05467	MFS transporter, putative	integral to plasma membrane///transporter activity///transport

**Table AD.3.8 30 ORFs with the lowest log<sub>2</sub> values between the down-regulated genes unique to the 16 hrs time point of the ATCC46645 *ΔpacC*/ATCC46645 comparison.**