

S8 Table. mRNA levels of secondary metabolic clustered genes in *A. flavus*.

Cluster	Gene ID	Log₂ Fold Change	Description
1	AFLA_125780	-	ATP-binding cassette transporter, putative
1	AFLA_125770	-1.76	LysR family regulatory protein, putative
1	AFLA_125760	-1.24	squalene-hopene-cyclase, putative
2	AFLA_126710	-	polyketide synthase, putative
2	AFLA_126720	-	hypothetical protein
2	AFLA_126730	-	conserved hypothetical protein
2	AFLA_126740	-	lipase precursor, putative
3	AFLA_126970	-	arginine permease, putative
3	AFLA_126980	-	conserved hypothetical protein
3	AFLA_126990	-	conserved hypothetical protein
3	AFLA_127000	-	hypothetical protein
3	AFLA_127010	-	conserved hypothetical protein
3	AFLA_127020	-	monooxygenase, putative
3	AFLA_127030	-	conserved hypothetical protein
3	AFLA_127040	-	MFS monocarboxylate transporter, putative
3	AFLA_127050	-	conserved hypothetical protein
3	AFLA_127060	-	conserved hypothetical protein
3	AFLA_127070	-	short-chain dehydrogenase, putative
3	AFLA_127080	-	conserved hypothetical protein
3	AFLA_127100	-	conserved hypothetical protein
3	AFLA_127110	-	MFS transporter, putative
3	AFLA_127120	-	hypothetical protein
3	AFLA_127130	-	conserved hypothetical protein
3	AFLA_127140	-	conserved hypothetical protein
3	AFLA_127150	-	hypothetical protein
3	AFLA_127160	-	NB-ARC and TPR domain protein
3	AFLA_127170	-	penicillin-binding protein, putative
3	AFLA_127090	-2.42	polyketide synthase, putative
4	AFLA_128040	-	efflux pump antibiotic resistance protein, putative
4	AFLA_128060	-	polyketide synthase, putative
4	AFLA_128050	1.12	conserved hypothetical protein
5	AFLA_128160	-	C6 transcription factor, putative
5	AFLA_128170	-	NRPS-like enzyme, putative
6	AFLA_053900	-	conserved hypothetical protein
6	AFLA_053910	-	pantothenate transporter, putative

6	AFLA_053950	-	conserved hypothetical protein
6	AFLA_053880	-2.39	hypothetical protein
6	AFLA_053930	-2.24	multicopper oxidase, putative
6	AFLA_053940	-1.99	multicopper oxidase, putative
6	AFLA_053890	-1.89	acetylcholinesterase, putative
6	AFLA_053870	1.99	polyketide synthase, putative
6	AFLA_053920	3.88	hypothetical protein
7	AFLA_054040	-	conserved hypothetical protein
7	AFLA_054070	-	conserved hypothetical protein
7	AFLA_054090	-	polyketide synthase, putative
7	AFLA_054100	-	DUF341 family oxidoreductase, putative
7	AFLA_054080	-2.74	Na(+)/H(+) antiporter, putative
7	AFLA_054050	1.24	ABC multidrug transporter, putative
7	AFLA_054060	5.22	ATP/GTP-binding protein, putative
8	AFLA_054180	-	conserved hypothetical protein
8	AFLA_054190	-	conserved hypothetical protein
8	AFLA_054200	-	hypothetical protein
8	AFLA_054210	-	ankyrin repeat-containing protein, putative
8	AFLA_054220	-	conserved hypothetical protein
8	AFLA_054230	-	conserved hypothetical protein
8	AFLA_054250	-	conserved hypothetical protein
8	AFLA_054260	-	MFS transporter, putative
8	AFLA_054270	-	NRPS-like enzyme, putative
8	AFLA_054280	-	conserved hypothetical protein
8	AFLA_054290	-	aldehyde reductase I (ARI), putative
8	AFLA_054300	-	pantothenate transporter, putative
8	AFLA_054320	-	NPP1 domain protein, putative
8	AFLA_054370	-3.48	short-chain dehydrogenase, putative
8	AFLA_054310	-3.24	conserved hypothetical protein
8	AFLA_054330	-2.68	conserved hypothetical protein
8	AFLA_054340	-1.28	isoflavone reductase family protein
8	AFLA_054350	-1.27	actin-binding protein Fragmin, putative
8	AFLA_054240	2.53	conserved hypothetical protein
8	AFLA_054360	3.36	conserved hypothetical protein
9	AFLA_008700	-	monooxygenase, putative
9	AFLA_008710	-	monooxygenase, putative
9	AFLA_008740	-	oxidoreductase, short chain dehydrogenase/reductase family
9	AFLA_008760	-	multidrug resistance protein, putative

9	AFLA_008770	-	nonribosomal peptide synthase, putative
9	AFLA_008780	-	asparagine synthetase, putative
9	AFLA_008790	-	conserved hypothetical protein
9	AFLA_008730	-3.17	hypothetical protein
9	AFLA_008720	-1.54	conserved hypothetical protein
9	AFLA_008750	3.63	hypothetical protein
10	AFLA_009980	-	ABC multidrug transporter, putative
10	AFLA_010030	-	oxidoreductase, 2OG-Fe(II) oxygenase family, putative
10	AFLA_010040	-	conserved hypothetical protein
10	AFLA_010050	-3.13	alcohol dehydrogenase, putative
10	AFLA_010020	-1.84	nonribosomal peptide synthase, putative
10	AFLA_010010	-1.18	nonribosomal peptide synthase, putative
10	AFLA_010000	1.98	polyketide synthase, putative
10	AFLA_009990	3.05	1-aminocyclopropane-1-carboxylate oxidase, putative
11	AFLA_010590	-	siderophore biosynthesis lipase/esterase, putative
11	AFLA_010600	-	siderophore biosynthesis acetylase AceI, putative
11	AFLA_010610	-	enoyl-CoA hydratase/isomerase family protein
11	AFLA_010640	-2.52	MFS siderophore transporter, putative
11	AFLA_010630	-2.47	ABC multidrug transporter SidT
11	AFLA_010620	1.56	nonribosomal siderophore peptide synthase Sid2
12	AFLA_079370	-	hypothetical protein
12	AFLA_079380	-	NRPS-like enzyme, putative
12	AFLA_079390	-	hypothetical protein
12	AFLA_079400	-	NRPS-like enzyme, putative
12	AFLA_079420	-	conserved hypothetical protein
12	AFLA_079440	-	allantoate permease, putative
12	AFLA_079460	-	DNA mismatch repair protein Msh1, putative
12	AFLA_079360	-4.14	PKS-like enzyme, putative
12	AFLA_079430	-3.82	amidase, putative
12	AFLA_079450	-2.39	ureidoglycolate hydrolase, putative
12	AFLA_079410	-2.04	MFS transporter, putative
13	AFLA_080490	-	polyketide synthase, putative
13	AFLA_080510	-	conserved hypothetical protein
13	AFLA_080550	-	conserved hypothetical protein
13	AFLA_080500	-1.47	cation-transporting ATPase, putative
13	AFLA_080480	1.10	HD superfamily hydrolase, putative
13	AFLA_080520	1.46	ADP-ribosylglycohydrolase family protein
13	AFLA_080540	1.98	DEAD box helicase Mph1, putative
13	AFLA_080470	3.03	conserved hypothetical protein

13	AFLA_080530	3.07	conserved hypothetical protein
14	AFLA_082050	-	epimerase/dehydratase family protein, putative
14	AFLA_082060	-	conserved hypothetical protein
14	AFLA_082070	-	pantothenate transporter, putative
14	AFLA_082080	-	alpha/beta hydrolase, putative
14	AFLA_082090	-	conserved hypothetical protein
14	AFLA_082100	-	conserved hypothetical protein
15	AFLA_082150	-	polyketide synthase, putative
15	AFLA_082170	-	efflux pump antibiotic resistance protein, putative
15	AFLA_082180	-	hypothetical protein
15	AFLA_082190	-	conserved hypothetical protein
15	AFLA_082210	1.94	conserved hypothetical protein
15	AFLA_082230	2.05	pantothenate transporter, putative
15	AFLA_082160	2.47	MFS glucose transporter, putative
15	AFLA_082220	2.70	short-chain dehydrogenase, putative
15	AFLA_082200	4.14	AAA family ATPase, putative
16	AFLA_082430	-	conserved hypothetical protein
16	AFLA_082440	-	conserved hypothetical protein
16	AFLA_082480	-	NRPS-like enzyme, putative
16	AFLA_082470	2.61	AMP dependent CoA ligase, putative
16	AFLA_082450	3.29	bicyclomycin resistance protein, putative
16	AFLA_082460	4.47	conserved hypothetical protein
17	AFLA_083210	-	conserved hypothetical protein
17	AFLA_083220	-	ATP dependent RNA helicase (Rok1), putative
17	AFLA_083230	-	mitochondrial F1F0-ATP synthase g subunit, putative
17	AFLA_083260	-	hypothetical protein
17	AFLA_083270	2.12	GABA permease, putative
17	AFLA_083250	2.43	dimethylallyl tryptophan synthase, putative
17	AFLA_083240	3.57	xylitol dehydrogenase LadA/XdhB
18	AFLA_087830	-	DNA excision repair protein Rad2
18	AFLA_087850	-	conserved hypothetical protein
18	AFLA_087820	-3.25	cell wall integrity signaling protein Lsp1/Pil1, putative
18	AFLA_087840	-1.43	WD repeat protein
18	AFLA_087810	-1.07	bZIP transcription factor, putative
18	AFLA_087860	1.80	cellulose-binding GDSL lipase/acylhydrolase, putative
18	AFLA_087870	3.02	endoglucanase, putative
18	AFLA_087880	5.24	integral membrane protein
19	AFLA_114820	-	polyketide synthase, putative
19	AFLA_114830	-	aminopeptidase, putative

19	AFLA_114840	-	conserved hypothetical protein
20	AFLA_116140	-	putative secreted protein
20	AFLA_116230	-	conserved hypothetical protein
20	AFLA_116300	-	short-chain dehydrogenase, putative
20	AFLA_116310	-	short-chain dehydrogenase, putative
20	AFLA_116330	-	O-methyltransferase, putative
20	AFLA_116190	-11.46	conserved hypothetical protein
20	AFLA_116180	-11.04	hypothetical protein
20	AFLA_116170	-10.67	hypothetical protein
20	AFLA_116200	-8.39	conserved hypothetical protein
20	AFLA_116210	-4.69	O-methyltransferase, putative
20	AFLA_116290	-3.47	conserved hypothetical protein
20	AFLA_116280	-3.36	dihydroxy-acid dehydratase, putative
20	AFLA_116270	-3.06	paraoxonase, putative
20	AFLA_116220	-3.01	polyketide synthase, putative
20	AFLA_116320	-1.97	hypothetical protein
20	AFLA_116150	-1.67	integral membrane protein
20	AFLA_116160	1.32	zinc-binding dehydrogenase family oxidoreductase
20	AFLA_116250	1.44	conserved hypothetical protein
20	AFLA_116240	4.52	hypothetical protein
20	AFLA_116260	5.58	N-hydroxyarylamine O-acetyltransferase, putative
21	AFLA_116840	-	salicylate 1-monooxygenase SalA
21	AFLA_116850	-	Ankyrin domain protein
21	AFLA_116880	-	C6 transcription factor, putative
21	AFLA_116900	-	conserved hypothetical protein
21	AFLA_116860	-5.73	alpha-N-acetylglucosaminidase, putative
21	AFLA_116870	-2.05	transferase family protein
21	AFLA_116830	-1.28	hypothetical protein
21	AFLA_116890	-1.02	polyketide synthase, putative
22	AFLA_117770	-	DnaJ domain protein
22	AFLA_117780	-	farnesyl-diphosphate farnesyltransferase, putative
22	AFLA_117760	2.10	phytase, putative
23	AFLA_118440	-4.87	NRPS-like enzyme, putative
23	AFLA_118430	-3.82	conserved hypothetical protein
24	AFLA_118820	-	short-chain dehydrogenase, putative
24	AFLA_118830	-	conserved hypothetical protein
24	AFLA_118860	-	hypothetical protein
24	AFLA_118870	-	translation initiation inhibitor, putative
24	AFLA_118880	-	gibberellin 3-beta hydroxylase, putative

24	AFLA_118890	-	eukaryotic translation initiation factor eIF-5A-2
24	AFLA_118900	-	conserved hypothetical protein
24	AFLA_118910	-	conserved hypothetical protein
24	AFLA_118920	-	hypothetical protein
24	AFLA_118930	-	hypothetical protein
24	AFLA_118980	-	mitochondrial carrier protein Leu5
24	AFLA_118840	-4.41	pantothenate transporter, putative
24	AFLA_118850	-3.61	2,4-dihydroxyhept-2-ene-1,7-dioic acid aldolase, putative
24	AFLA_118940	1.18	polyketide synthase, putative
24	AFLA_118960	2.48	polyketide synthase, putative
24	AFLA_118970	3.45	MAK1-like monooxygenase, putative
24	AFLA_118950	4.67	conserved hypothetical protein
24	AFLA_118990	7.89	efflux pump antibiotic resistance protein, putative
25	AFLA_119100	-	hypothetical protein
25	AFLA_119090	-3.44	oxidoreductase, short chain dehydrogenase/reductase family, putative
25	AFLA_119120	-3.25	beta-lactamase family protein
25	AFLA_119110	-1.86	NRPS-like enzyme, putative
25	AFLA_119080	-1.66	hypothetical protein
26	AFLA_119750	-	riboflavin aldehyde-forming enzyme
26	AFLA_119790	-	beta-xylosidase
26	AFLA_119810	-	sensory transduction histidine kinase bacterial, putative
26	AFLA_119860	-	pectin lyase, putative
26	AFLA_119870	-	iron-sulfur protein subunit of succinate dehydrogenase Sdh2, putative
26	AFLA_119850	-2.57	LsdA family protein
26	AFLA_119770	-2.49	conserved hypothetical protein
26	AFLA_119780	-2.14	neutral protease 2 precursor, putative
26	AFLA_119880	-1.51	hypothetical protein
26	AFLA_119840	-1.45	hypothetical protein
26	AFLA_119760	-1.13	conserved hypothetical protein
26	AFLA_119800	1.00	conserved hypothetical protein
26	AFLA_119820	1.59	NRPS-like enzyme, putative
26	AFLA_119830	2.66	MFS multidrug transporter, putative
27	AFLA_121400	-	hypothetical protein
27	AFLA_121410	-	hypothetical protein
27	AFLA_121420	-	hypothetical protein
27	AFLA_121430	-	conserved hypothetical protein
27	AFLA_121440	-	fumarylacetoacetate hydrolase, putative

27	AFLA_121460	-	hypothetical protein
27	AFLA_121470	-	hscarg dehydrogenase, putative
27	AFLA_121540	-	MFS multidrug transporter, putative
27	AFLA_121580	-	C-4 methyl sterol oxidase, putative
27	AFLA_121590	-3.55	zinc-binding alcohol dehydrogenase, putative
27	AFLA_121450	-2.35	trihydroxytoluene oxygenase
27	AFLA_121600	-1.73	conserved hypothetical protein
27	AFLA_121550	1.94	conserved hypothetical protein
27	AFLA_121560	1.97	conserved hypothetical protein
27	AFLA_121570	2.40	conserved hypothetical protein
27	AFLA_121520	2.54	NRPS-like enzyme, putative
27	AFLA_121500	2.78	cytochrome P450, putative
27	AFLA_121490	2.81	NmrA-like family protein
27	AFLA_121530	2.87	NADH-dependent flavin oxidoreductase, putative
27	AFLA_121480	3.14	phytanoyl-CoA dioxygenase family protein
27	AFLA_121510	3.53	conserved hypothetical protein
28	AFLA_089620	-	chalcone synthase, putative
28	AFLA_089630	-	choline transport protein, putative
28	AFLA_089640	-	conserved hypothetical protein
28	AFLA_089650	-	high-affinity iron transporter FtrA
28	AFLA_089660	-	ferrooxidoreductase Fet3, putative
28	AFLA_089670	-3.14	ferric reductase transmembrane component 4 precursor, putative
29	AFLA_090190	-	dimethylallyl tryptophan synthase, putative
29	AFLA_090200	-	nonribosomal peptide synthase, putative
29	AFLA_090180	3.80	alpha/beta hydrolase, putative
30	AFLA_090590	-	alpha-1,2-mannosidase, putative subfamily
30	AFLA_090600	-	conserved hypothetical protein
30	AFLA_090610	-	hypothetical protein
30	AFLA_090620	-	hypothetical protein
30	AFLA_090630	-	cytochrome P450, putative
30	AFLA_090640	-	geranyl geranyl pyrophosphate synthase, putative
30	AFLA_090660	-	conserved hypothetical protein
30	AFLA_090650	-1.23	DUF1115 domain protein
30	AFLA_090670	1.11	hypothetical protein
30	AFLA_090680	1.92	cytochrome P450, putative
30	AFLA_090690	2.38	mycelial catalase Cat1
31	AFLA_096340	-	hypothetical protein
31	AFLA_096350	-	TrkA-N domain dehydrogenase, putative

31	AFLA_096390	-	prenyl transferase AtmC
31	AFLA_096400	-	FAD-dependent monooxygenase AtmM
31	AFLA_096430	-	cytochrome P450, putative
31	AFLA_096410	-3.01	PTH11-like integral membrane protein, putative
31	AFLA_096330	-2.40	C6 and C2H2 transcription factor
31	AFLA_096420	-1.66	hypothetical protein
31	AFLA_096370	2.41	Zn2Cys6 transcription factor
31	AFLA_096360	3.83	hypothetical protein
31	AFLA_096380	4.42	FAD dependent oxidoreductase, putative
32	AFLA_096700	-	NRPS-like enzyme, putative
32	AFLA_096710	-	NRPS-like enzyme, putative
32	AFLA_096720	-	hypothetical protein
32	AFLA_096730	-	conserved hypothetical protein
32	AFLA_096770	-	polyketide synthase, putative
32	AFLA_096740	-8.85	monooxygenase, putative
32	AFLA_096760	-7.35	monocarboxylate transporter, putative
32	AFLA_096750	-5.37	cytochrome P450, putative
33	AFLA_017840	-	NRPS-like enzyme, putative
33	AFLA_017850	-4.85	conserved hypothetical protein
33	AFLA_017860	-2.98	hypothetical protein
34	AFLA_018250	-	conserved hypothetical protein
34	AFLA_018270	-	hypothetical protein
34	AFLA_018280	-	mitochondrial outer membrane protein (Sam35), putative
34	AFLA_018290	-	conserved hypothetical protein
34	AFLA_018300	-	cell division control protein 14
34	AFLA_018310	-	geranylgeranyl diphosphate synthase
34	AFLA_018320	-	Smr domain protein
34	AFLA_018340	-	G-protein complex alpha subunit GpaA/FadA
34	AFLA_018260	-1.42	DUF543 domain protein
34	AFLA_018350	1.72	conserved hypothetical protein
34	AFLA_018330	3.00	hypothetical protein
35	AFLA_038600	-1.10	nonribosomal peptide synthase, putative
35	AFLA_038590	3.93	Ankyrin repeat protein
35	AFLA_038580	4.10	RTA1 domain protein
35	AFLA_038570	4.44	malonyl CoA-acyl carrier protein transacylase, putative
36	AFLA_039200	-	cytochrome P450, putative
36	AFLA_039210	-	cytochrome P450, putative
36	AFLA_039220	-	cytochrome P450, putative
36	AFLA_039230	-	short-chain dehydrogenase, putative

36	AFLA_039240	-	aristolochene synthase, putative
36	AFLA_039270	-	carboxylesterase, putative
36	AFLA_039260	2.02	esterase, putative
36	AFLA_039250	2.04	hypothetical protein
37	AFLA_041590	-	peroxisomal multifunctional beta-oxidation protein (MFP), putative
37	AFLA_041600	-	RING finger protein (Zin), putative
37	AFLA_041610	-	NRPS-like enzyme, putative
37	AFLA_041620	3.61	aquaporin, putative
38	AFLA_042330	-	conserved hypothetical protein
38	AFLA_042340	-	conserved hypothetical protein
38	AFLA_042350	-	conserved hypothetical protein
38	AFLA_042360	-	hypothetical protein
38	AFLA_042370	-	conserved hypothetical protein
39	AFLA_045490	-	dimethylallyl tryptophan synthase, putative
39	AFLA_045510	-	integral membrane protein
39	AFLA_045500	4.36	cytochrome P450, putative
40	AFLA_100320	-	hypothetical protein
40	AFLA_100330	-	FAD dependent oxidoreductase, putative
40	AFLA_100340	-	nonribosomal peptide synthase, putative
40	AFLA_100360	-	amino acid transporter, putative
40	AFLA_100370	-	acetylornithine aminotransferase, putative
40	AFLA_100380	-	hypothetical protein
40	AFLA_100390	-	conserved hypothetical protein
40	AFLA_100400	-	hypothetical protein
40	AFLA_100410	-	hypothetical protein
40	AFLA_100420	-	amidase, putative
40	AFLA_100270	-2.06	aliphatic nitrilase, putative
40	AFLA_100280	-1.96	MFS transporter, putative
40	AFLA_100310	-1.94	oxidoreductase, putative
40	AFLA_100300	-1.44	C6 transcription factor, putative
40	AFLA_100290	-1.43	aliphatic nitrilase, putative
40	AFLA_100350	3.46	conserved hypothetical protein
41	AFLA_101740	-6.59	glycerophosphoinositol/ glycerophosphocholine transporter, putative
41	AFLA_101750	-5.66	molybdopterin synthase small subunit CnxG
41	AFLA_101760	-4.09	molybdenum cofactor biosynthesis protein Gephyrin, putative
41	AFLA_101720	1.27	cytochrome P450, putative
41	AFLA_101730	2.08	ferulate-5-hydroxylase, putative

41	AFLA_101700	2.24	NRPS-like enzyme, putative
41	AFLA_101710	2.37	NmrA-like family protein
41	AFLA_101690	3.10	alcohol dehydrogenase, putative
42	AFLA_102110	-	conserved hypothetical protein
42	AFLA_102150	-	SAM dependent methyltransferase, putative
42	AFLA_102140	1.24	conserved hypothetical protein
42	AFLA_102120	1.25	hypothetical protein
42	AFLA_102160	2.89	lanosterol synthase, putative
42	AFLA_102130	3.34	conserved hypothetical protein
43	AFLA_102480	-	isoamyl alcohol oxidase
43	AFLA_102490	-	conserved hypothetical protein
43	AFLA_102500	-	9-cis-epoxycarotenoid dioxygenase, putative
43	AFLA_102520	-	phytoene dehydrogenase, putative
43	AFLA_102530	-	UMTA methyltransferase family protein
43	AFLA_102540	-	hypothetical protein
43	AFLA_102550	-	G-patch domain protein, putative
43	AFLA_102510	2.71	phytoene synthase, putative
44	AFLA_064250	-	phenol 2-monooxygenase, putative
44	AFLA_064270	-	gibberellin 2-oxidase, putative
44	AFLA_064280	-	N-methyltransferase, putative
44	AFLA_064290	-	O-methyltransferase, putative
44	AFLA_064300	-	fructosyl amino acid oxidase, putative
44	AFLA_064330	-	conserved hypothetical protein
44	AFLA_064340	-	conserved hypothetical protein
44	AFLA_064260	-1.01	oligopeptide transporter, putative
44	AFLA_064320	1.16	oligopeptide transporter, putative
44	AFLA_064310	1.21	hypothetical protein
44	AFLA_064240	1.54	nonribosomal peptide synthase, putative
45	AFLA_064510	-	thioredoxin reductase GliT-like, putative
45	AFLA_064520	-	O-methyltransferase GliM-like, putative
45	AFLA_064610	-	short-chain oxidoreductase, putative
45	AFLA_064630	-	hypothetical protein
45	AFLA_064560	-1.39	nonribosomal peptide synthase GliP-like, putative
45	AFLA_064620	-1.00	conserved hypothetical protein
45	AFLA_064500	1.33	conserved hypothetical protein
45	AFLA_064580	2.12	oxidoreductase, putative
45	AFLA_064570	2.17	uracil permease, putative
45	AFLA_064540	2.31	cytochrome P450 oxidoreductase GliC
45	AFLA_064600	2.34	conserved hypothetical protein

45	AFLA_064550	2.53	membrane dipeptidase GliJ-like, putative
45	AFLA_064530	2.63	glutathione S-transferase GliG-like, putative
45	AFLA_064460	2.88	conserved hypothetical protein
45	AFLA_064440	3.02	transport protein, putative
45	AFLA_064590	3.17	O-methyltransferase, putative
45	AFLA_064480	3.28	conserved hypothetical protein
45	AFLA_064470	3.31	cytochrome P450, putative
45	AFLA_064450	3.74	aminotransferase GliI-like, putative
45	AFLA_064490	3.82	conserved hypothetical protein
45	AFLA_064640	4.45	oxidoreductase, short-chain dehydrogenase/reductase family
46	AFLA_066730	-2.68	alcohol dehydrogenase, putative
46	AFLA_066710	1.68	conserved hypothetical protein
46	AFLA_066700	2.27	P450 family sporulation-specific N-formyltyrosine oxidase Dit2
46	AFLA_066720	2.34	nonribosomal peptide synthase, putative
47	AFLA_066840	-	hybrid PKS/NRPS enzyme, putative
47	AFLA_066850	-	conserved hypothetical protein
47	AFLA_066860	-	conserved hypothetical protein
47	AFLA_066870	-	conserved hypothetical protein
47	AFLA_066900	-1.60	conserved hypothetical protein
47	AFLA_066970	1.28	conserved hypothetical protein
47	AFLA_066890	1.36	cytochrome P450, putative
47	AFLA_066950	2.04	conserved hypothetical protein
47	AFLA_066880	2.08	monocarboxylate transporter, putative
47	AFLA_066920	2.36	alcohol dehydrogenase, putative
47	AFLA_066910	2.48	conserved hypothetical protein
47	AFLA_066960	3.82	hypothetical protein
47	AFLA_066930	3.86	cytochrome P450, putative
47	AFLA_066940	4.39	O-methyltransferase, putative
48	AFLA_069340	-2.33	MSF drug transporter, putative
48	AFLA_069350	-1.42	conserved hypothetical protein
48	AFLA_069330	1.19	nonribosomal peptide synthase Pes1
49	AFLA_070860	-	ACV synthetase PcbAB
49	AFLA_070900	-	conserved hypothetical protein
49	AFLA_070920	-	NRPS-like enzyme, putative
49	AFLA_070890	-3.79	hypothetical protein
49	AFLA_070870	1.52	isopenicillin N synthetase PcbC
49	AFLA_070910	1.79	aminotransferase, putative

49	AFLA_070880	3.90	acyl-coenzyme A:Isopenicillin N acyltransferase PenDE
50	AFLA_002910	-	conserved hypothetical protein
50	AFLA_002930	-	hypothetical protein
50	AFLA_002920	-4.66	flavonoid 3-hydroxylase, putative
50	AFLA_002890	-1.06	AMP-binding enzyme family protein
50	AFLA_002900	2.44	polyketide synthase, putative
51	AFLA_004280	-	C6 transcription factor, putative
51	AFLA_004290	-	conserved hypothetical protein
51	AFLA_004300	-5.05	prenyltransferase, putative
52	AFLA_004440	-10.38	ABC multidrug transporter, putative
52	AFLA_004430	-7.35	conserved hypothetical protein
52	AFLA_004450	-6.59	nonribosomal peptide synthase, putative
53	AFLA_005270	-	conserved hypothetical protein
53	AFLA_005280	-	hypothetical protein
53	AFLA_005300	-	ankyrin repeat-containing protein, putative
53	AFLA_005320	-	polyketide synthase, putative
53	AFLA_005330	-	conserved hypothetical protein
53	AFLA_005340	-	conserved hypothetical protein
53	AFLA_005350	-	hypothetical protein
53	AFLA_005360	-	conserved hypothetical protein
53	AFLA_005380	-	hypothetical protein
53	AFLA_005400	-	ankyrin repeat-containing protein, putative
53	AFLA_005390	-3.83	conserved hypothetical protein
53	AFLA_005290	-1.14	conserved hypothetical protein
53	AFLA_005410	-1.05	5-AMP-activated protein kinase, putative
53	AFLA_005310	5.04	vacuolar ATP synthase proteolipid subunit, putative
53	AFLA_005370	5.80	conserved hypothetical protein
54	AFLA_005440	-1.70	nonribosomal peptide synthase, putative
54	AFLA_005450	1.33	conserved hypothetical protein
55	AFLA_006110	-	conserved hypothetical protein
55	AFLA_006130	-	NADH pyrophosphatase, putative
55	AFLA_006140	-	conserved hypothetical protein
55	AFLA_006150	-	flavin dependent monooxygenase, putative
55	AFLA_006160	-	HDA1 complex subunit, putative
55	AFLA_006180	-	conidial pigment biosynthesis oxidase Arb2/brown2
55	AFLA_006190	-	multicopper oxidase, putative
55	AFLA_006240	-	PHD transcription factor (Rum1), putative
55	AFLA_006170	-5.70	polyketide synthetase PksP
55	AFLA_006100	-2.45	HypA-like protein, putative

55	AFLA_006230	-1.88	1-aminocyclopropane-1-carboxylate deaminase, putative
55	AFLA_006120	-1.26	glutamine dependent NAD ⁺ synthetase, putative
55	AFLA_006220	-1.22	exopolyphosphatase, putative
55	AFLA_006210	1.43	SH3 domain protein (Cyk3), putative
55	AFLA_006200	3.15	hypothetical protein
56	AFLA_006800	-	DNA damage repair protein (Rad9), putative
56	AFLA_006810	-	50S ribosomal protein L27, putative
56	AFLA_006830	-	scramblase family protein
56	AFLA_006860	-	oxidosqualene:lanosterol cyclase
56	AFLA_006870	-	SGT1 and CS domain protein
56	AFLA_006900	-	cyclin-dependent protein kinase PhoA
56	AFLA_006920	-3.09	cAMP receptor-like protein, putative
56	AFLA_006880	-2.68	PQ loop repeat protein
56	AFLA_006890	-1.82	SIR2 family histone deacetylase, putative
56	AFLA_006840	-1.39	ubiquitin conjugating enzyme (UbcH), putative
56	AFLA_006850	1.02	meiosis-specific topoisomerase Spo11, putative
56	AFLA_006820	1.64	conserved hypothetical protein
56	AFLA_006910	2.74	hypothetical protein
57	AFLA_135430	-	cytochrome P450, putative
57	AFLA_135440	-	cytochrome P450, putative
57	AFLA_135450	-	trichodiene synthase, putative
57	AFLA_135470	-	ornithine decarboxylase, putative
57	AFLA_135480	-	galactose-proton symport, putative
57	AFLA_135490	-	nonribosomal peptide synthase, putative
57	AFLA_135460	-1.66	conserved hypothetical protein
58	AFLA_137790	-	cell wall protein, putative
58	AFLA_137800	-	conserved hypothetical protein
58	AFLA_137810	-	pantothenate transporter, putative
58	AFLA_137890	-	conserved hypothetical protein
58	AFLA_137880	1.22	extracellular triacylglycerol lipase, putative
58	AFLA_137830	1.77	hypothetical protein
58	AFLA_137780	2.50	ABC transporter, putative
58	AFLA_137820	2.92	conserved hypothetical protein
58	AFLA_137840	4.15	integral membrane protein
58	AFLA_137870	5.11	polyketide synthase, putative
58	AFLA_137850	5.50	conserved hypothetical protein
58	AFLA_137860	5.64	conserved hypothetical protein
59	AFLA_139160	-	aflX/ ordB/ monooxygenase/ oxidase
59	AFLA_139180	-	aflV/ cypX/ cytochrome P450 monooxygenase

59	AFLA_139190	-	aflK/ vbs/ VERB synthase
59	AFLA_139200	-	aflQ/ ordA/ ord-1/ oxidoreductase/ cytochrome P450 monooxygenase
59	AFLA_139210	-	aflP/ omtA/ omt-1/ O-methyltransferase A
59	AFLA_139220	-	aflO/ omtB/ dmtA/ O-methyltransferase B
59	AFLA_139230	-	aflI/ avfA/ cytochrome P450 monooxygenase
59	AFLA_139250	-	aflL/ verB/ desaturase/ P450 monooxygenase
59	AFLA_139260	-	aflG/ avnA/ ord-1/ cytochrome P450 monooxygenase
59	AFLA_139280	-	aflN/ verA/ monooxygenase
59	AFLA_139300	-	aflM/ ver-1/ dehydrogenase/ ketoreductase
59	AFLA_139310	-	aflE/ norA/ aad/ adh-2/ NOR reductase/ dehydrogenase
59	AFLA_139320	-	aflJ/ estA/ esterase
59	AFLA_139330	-	aflH/ adhA/ short chain alcohol dehydrogenase
59	AFLA_139390	-	aflD / nor-1 / reductase
59	AFLA_139400	-	aflCa / hypC / hypothetical protein
59	AFLA_139440	-	aflF / norB / dehydrogenase
59	AFLA_139340	-3.16	aflS/ pathway regulator
59	AFLA_139360	-2.99	aflR / apa-2 / afl-2 / transcription activator
59	AFLA_139380	-2.57	aflA / fas-2 / hexA / fatty acid synthase alpha subunit
59	AFLA_139150	1.16	aflY/ hypA/ hypP/ hypothetical protein
59	AFLA_139370	1.47	aflB / fas-1 / fatty acid synthase beta subunit
59	AFLA_139410	2.00	aflC / pksA / pksL1 / polyketide synthase
59	AFLA_139170	2.05	aflW/ moxY/ monooxygenase
59	AFLA_139420	2.73	aflT / aflT / transmembrane protein
59	AFLA_139430	4.24	aflU / cypA / P450 monooxygenase
60	AFLA_139590	-	choline dehydrogenase, putative
60	AFLA_139600	-	glucose-methanol-choline (gmc) oxidoreductase, putative
60	AFLA_139620	-	amino acid permease family protein
60	AFLA_139630	-	ABC multidrug transporter, putative
60	AFLA_139640	-	hypothetical protein
60	AFLA_139650	-	hypothetical protein
60	AFLA_139660	-	hypothetical protein
60	AFLA_139670	-	nonribosomal peptide synthase, putative
60	AFLA_139610	1.75	ceramidase, putative
61	AFLA_022840	-	allantoate permease, putative
61	AFLA_022850	-	conserved hypothetical protein
61	AFLA_022870	-	conserved hypothetical protein
61	AFLA_023000	-	Ankyrin domain protein
61	AFLA_023010	-	GA4 desaturase family protein

61	AFLA_023030	-	cytochrome P450 oxidoreductase GliC-like, putative
61	AFLA_023040	-	C6 transcription factor, putative
61	AFLA_023060	-	hypothetical protein
61	AFLA_023080	-	integral membrane protein TmpA
61	AFLA_023070	-2.93	integral membrane protein
61	AFLA_022990	-1.83	conserved hypothetical protein
61	AFLA_022880	-1.54	oligopeptide transporter, putative
61	AFLA_022860	1.73	hypothetical protein
61	AFLA_023050	1.99	MFS transporter, putative
61	AFLA_023020	4.15	NRPS-like enzyme, putative
62	AFLA_027210	-	conserved hypothetical protein
62	AFLA_027220	-	hypothetical protein
62	AFLA_027230	-	alpha-aminoadipate reductase Lys2, putative
62	AFLA_027250	-	aldo-keto reductase, putative
62	AFLA_027260	-	conserved hypothetical protein
62	AFLA_027200	1.28	xanthine dehydrogenase HxA, putative
62	AFLA_027240	1.58	carbonic anhydrase Nce103, putative
63	AFLA_028730	-	conserved hypothetical protein
63	AFLA_028740	-	coenzyme A transferase, putative
63	AFLA_028760	-1.30	C2H2 transcription factor, putative
63	AFLA_028720	-1.20	NRPS-like enzyme, putative
63	AFLA_028710	2.28	short chain type dehydrogenase, putative
63	AFLA_028750	2.49	UMTA methyltransferase family protein
64	AFLA_105000	-	DUF636 domain protein
64	AFLA_105040	-	conserved hypothetical protein
64	AFLA_105060	-	NAD dependent epimerase/dehydratase, putative
64	AFLA_105080	-	terpene synthase family protein
64	AFLA_105030	-2.57	cytosine deaminase, putative
64	AFLA_105010	-2.53	methyltransferase, putative
64	AFLA_105020	-1.54	conserved hypothetical protein
64	AFLA_105050	-1.45	geranylgeranyl pyrophosphate synthetase AtmG, putative
64	AFLA_105070	-1.13	cytochrome P450 oxygenase, putative
65	AFLA_105130	-	conserved hypothetical protein
65	AFLA_105140	-	conserved hypothetical protein
65	AFLA_105150	-	extracellular carboxylesterase, putative
65	AFLA_105160	-	hypothetical protein
65	AFLA_105190	-4.46	NRPS-like enzyme, putative
65	AFLA_105180	-2.54	hypothetical protein
65	AFLA_105170	-2.39	O-methyltransferase, putative

65	AFLA_105120	-1.50	GNAT family acetyltransferase, putative
66	AFLA_105370	-	conserved hypothetical protein
66	AFLA_105380	-	actin-binding protein, putative
66	AFLA_105400	-	kinesin family protein (KlpA), putative
66	AFLA_105440	-	cytochrome P450, putative
66	AFLA_105450	-	polyketide synthase, putative
66	AFLA_105460	-	conserved hypothetical protein
66	AFLA_105490	-	phosphoribulokinase/uridine kinase family protein
66	AFLA_105480	-5.35	DUF636 domain protein
66	AFLA_105470	-3.91	translation initiation factor eIF-2B subunit family protein
66	AFLA_105540	-2.34	MFS multidrug transporter, putative
66	AFLA_105530	-2.27	C6 transcription factor, putative
66	AFLA_105390	-1.20	conserved hypothetical protein
66	AFLA_105520	1.07	conserved hypothetical protein
66	AFLA_105510	1.33	conserved hypothetical protein
66	AFLA_105430	1.37	fatty acid desaturase protein, putative
66	AFLA_105410	1.97	thioester reductase family protein, putative
66	AFLA_105420	2.16	hypothetical protein
66	AFLA_105500	4.17	conserved hypothetical protein
67	AFLA_107100	-	conserved hypothetical protein
67	AFLA_107120	-	conserved hypothetical protein
67	AFLA_107130	-	D-isomer specific 2-hydroxyacid dehydrogenase family protein
67	AFLA_107140	-	conserved hypothetical protein
67	AFLA_107110	-1.93	conserved hypothetical protein
67	AFLA_107150	1.94	conserved hypothetical protein
68	AFLA_108540	-	NADH oxidase, putative
68	AFLA_108550	-	polyketide synthase, putative
68	AFLA_108560	-	O-methyltransferase, putative
68	AFLA_108570	-	conserved hypothetical protein
68	AFLA_108580	-	cytochrome P450, putative
69	AFLA_109390	-	conserved hypothetical protein
69	AFLA_109400	-	extracellular protein, putative
69	AFLA_109410	-	UV-endonuclease UVE-1
69	AFLA_109420	-	actin cytoskeleton organization protein App1, putative
69	AFLA_109440	-	long-chain-fatty-acid-CoA ligase, putative
69	AFLA_109380	-2.84	alcohol dehydrogenase, putative
69	AFLA_109430	4.23	nonribosomal siderophore peptide synthase SidC
70	AFLA_112780	-	conserved hypothetical protein

70	AFLA_112790	-	acyl-CoA thioester hydrolase, putative
70	AFLA_112810	-	tryptophan synthase alpha subunit, putative
70	AFLA_112820	-	toxin biosynthesis ketoreductase, putative
70	AFLA_112830	-	conserved hypothetical protein
70	AFLA_112840	-	polyketide synthase, putative
70	AFLA_112880	-	2,4-dichlorophenol 6-monooxygenase, putative
70	AFLA_112900	-	epoxide hydrolase, putative
70	AFLA_112910	-	conserved hypothetical protein
70	AFLA_112920	-	mitochondrial cytochrome b2-like, putative
70	AFLA_112800	-4.33	L-lactate dehydrogenase
70	AFLA_112870	1.11	monooxygenase, putative
70	AFLA_112890	1.30	MFS transporter, putative
70	AFLA_112860	1.82	conserved hypothetical protein
70	AFLA_112850	3.07	O-methyltransferase, putative
71	AFLA_059980	3.75	choline dehydrogenase, putative
71	AFLA_060020	4.04	PKS-like enzyme, putative
71	AFLA_059960	4.33	conserved hypothetical protein
71	AFLA_059970	4.65	short-chain dehydrogenase, putative
71	AFLA_059990	4.88	O-methyltransferase, putative
71	AFLA_060000	5.07	metallo-beta-lactamase domain protein
71	AFLA_060010	5.88	PKS-like enzyme, putative
71	AFLA_059950	7.37	oxidoreductase, FAD-binding, putative
72	AFLA_060650	-	glutaminyl-tRNA synthetase
72	AFLA_060660	-	AMP-binding enzyme, putative
72	AFLA_060670	-	integral membrane protein
72	AFLA_060680	1.60	conserved hypothetical protein
73	AFLA_062440	-	conserved hypothetical protein
73	AFLA_062450	-	sphingomyelin phosphodiesterase, putative
73	AFLA_062460	-	non-classical export protein Nce102, putative
73	AFLA_062470	-	pentalenene synthase, putative
73	AFLA_062480	-	conserved hypothetical protein
73	AFLA_062500	-	mitogen-activated protein kinase MAF1
73	AFLA_062510	-	myosin heavy chain, embryonic smooth muscle isoform, putative
73	AFLA_062520	-	COPII-coated vesicle protein (Erv41), putative
73	AFLA_062430	-5.13	non-classical export protein Nce102, putative
73	AFLA_062490	1.25	COPII-coated vesicle protein (Erv41), putative
74	AFLA_062830	-	monooxygenase, putative
74	AFLA_062870	-	conserved hypothetical protein

74	AFLA_062880	-	short chain dehydrogenase/oxidoreductase, putative
74	AFLA_062890	-	hypothetical protein
74	AFLA_062900	-	glycerol-3-phosphate O-acyltransferase, putative
74	AFLA_062910	-	proline-specific permease, putative
74	AFLA_062920	-	conserved hypothetical protein
74	AFLA_062930	-	glycosyl hydrolase, family 43, putative
74	AFLA_062840	-3.46	short chain dehydrogenase/oxidoreductase, putative
74	AFLA_062860	-1.15	glycerol-3-phosphate O-acyltransferase, putative
74	AFLA_062810	1.15	fatty acid desaturase, putative
74	AFLA_062850	3.26	hypothetical protein
74	AFLA_062820	3.38	polyketide synthase, putative
74	AFLA_062800	3.98	conserved hypothetical protein