

PPLEMENTAL TABLE 1

Normal vs Aposymbiotic								
Increased in Normal			Increased in Aposymbiotic					
Contig name	Protein name	Padj	Blast vs	Contig name	Protein name	Padj	Blast vs	
Contig_273440	V-type ATP synthase subunit F	0.012472931	Bacteria	Contig_106477	metallopeptidase	0.071866078	Bacteria	
Contig_61915	peptidylprolyl isomerase	0.012472931		Contig_156986	O-acetylhomoserine aminocarboxypropyltransferase/cysteine synthase	0.05405458		
Contig_55287	nadh dehydrogenase subunit 5	0.01775091		Contig_157706	crinkler family protein	0.070687793		
Contig_55333	collagen-like surface protein	0.024090016		Contig_201312	lipopolysaccharide biosynthesis protein	0.016723914		
Contig_158889	aminotransferase	0.0280811		Contig_238382	DNA topoisomerase IV subunit A	0.016723914		
Contig_220009	polymerase	0.038073654		Contig_262191	malonate decarboxylase subunit delta	0.054967488		
Contig_55166	chorismate mutase	0.038073654		Contig_269005	sodium/hydrogen exchanger	0.012626603		
Contig_55141	DNA-directed RNA polymerase subunit beta'	0.040932326		Contig_59342	membrane protein	0.012472931		
Contig_204175	phasin	0.044018908		Contig_200895	methyl accepting chemotaxis protein	0.012472931		
Contig_55083	diphosphate-fructose-6-phosphate 1-phosphotransferase	0.048902651		Contig_59396	gut cathepsin I-like cysteine protease	0.023378011		
Contig_59117	proteinase inhibitor	0.051695464		Contig_59497	DEAD/DEAH box helicase	0.0402445		
Contig_73310	Porin	0.051695464		Contig_61555	cell surface A33 antigen	0.052202094		
Contig_51777	astacin	0.052732041		Contig_59339	tpr repeat-containing protein	0.026333566		Cyanobacteria
Contig_72576	cell-division initiation protein	0.076345247		Contig_50894	dynamitin	0.023378011		Fungi
Contig_261711	cytochrome oxidase II	0.012472931	Contig_156555	DBH-like monoxygenase protein 1	0.096926504	Metazoa		
Contig_264833	hemocentin-2	0.012472931	Contig_156675	ATPase	0.051695464			
Contig_59937	fibronectin	0.012472931	Contig_156684	cartilage intermediate layer protein	0.048902651			
Contig_199414	cytochrome oxidase I	0.016723914	Contig_157717	sulfide/quinone oxidoreductase, mitochondrial-like	0.023378011			
Contig_72552	basement membrane-specific heparan sulfate proteoglycan core protein-like	0.01775091	Contig_200019	death domain-containing protein	0.01775091			
Contig_72648	TNF receptor-associated factor 3-like	0.024090016	Contig_200382	GTPase IMAP family member 7-like isoform X4	0.012472931			
Contig_60858	deleted in malignant brain tumors 1 protein-like, partial	0.0280811	Contig_200388	Ras-related protein	0.023378011			
Contig_204347	lysyl-tRNA synthetase-like	0.035259701	Contig_202294	zinc finger MYM-type protein 1-like	0.013414074			
Contig_199206	RING finger protein	0.03805432	Contig_208315	titin	0.013301206			
Contig_72489	astacin	0.03805432	Contig_208383	GTPase IMAP family member 4 isoform X1	0.012472931			
Contig_157422	ALK tyrosine kinase receptor-like	0.03805432	Contig_211234	hemocentin	0.012472931			
Contig_199383	TNF receptor-associated factor 3-like	0.051067272	Contig_262244	host cell factor 2-like	0.013301206			
Contig_63245	sporulation-specific protein 15-like	0.061312247	Contig_263151	zinc finger MYM-type protein 1-like	0.012472931			
Contig_261743	X-linked retinitis pigmentosa GTPase regulator-interacting protein 1	0.06359639	Contig_264371	short-chain collagen C4-like	0.035259701			
Contig_73070	Ig heavy chain V-II region WAH	0.064679662	Contig_268330	protein sidekick-1	0.091240263			
Contig_55539	tetratricopeptide repeat protein 28-like isoform X3	0.065082182	Contig_268997	immunoglobulin-like and fibronectin type III domain-containing protein 1 isoform X2	0.083728603			
Contig_200816	collagen alpha-(I) chain	0.071566318	Contig_271928	collagen alpha-(I)(XII) chain-like	0.012472931			
Contig_263087	aggregation factor protein 3, form D	0.076345247	Contig_276279	GTPase IMAP family member 4 isoform a	0.020568358			
Contig_55107	TPR repeat-containing protein, variant	0.076345247	Contig_281237	ephryn type A-receptor	0.01775091			
			Contig_56775	interferon-induced very large gtpase 1-like	0.052202094	Metazoa		
			Contig_57113	phenylalanyl hydroxylase	0.083728603			
			Contig_58260	phenylalanyl-tRNA synthetase beta chain	0.01775091			
			Contig_59159	aggregation factor protein 3	0.024025106			
			Contig_59391	cre-nas-21 protein	0.048902651			
			Contig_59411	fibrillin-1- partial	0.012472931			
			Contig_59415	poly [ADP-ribose] polymerase 14	0.020919639			
			Contig_59431	sideroflexin-2	0.044018908			
			Contig_61716	collagen alpha-(I)(XII) chain-like	0.012472931			
			Contig_79428	phenylalanine-tRNA ligase alpha subunit-like	0.034521852			
			Contig_95189	bifunctional aminoacyl-tRNA synthetase	0.012472931			
			Contig_160769	kinesin heavy-chain like protein	0.022995743			
			Contig_268963	E1 protein	0.081709943			
							Virus	
Aposymbiotic vs. Reinfectated								
Increased in Aposymbiotic			Increased in Reinfectated					
Contig name	Protein name	Padj	Blast vs	Contig name	Protein name	Padj	Blast vs	
Contig_263256	valine decarboxylase	0.037757567	Bacteria	Contig_210604	glutamyl endopeptidase	0.000409321	Bacteria	
Contig_117675	anykirin	0.028697348		Contig_210730	glutamyl endopeptidase	0.000480181		
Contig_161887	polymorphic outer membrane protein	0.017569095		Contig_210563	DNA-polymerase	0.004304005		
Contig_269005	sodium/hydrogen exchanger	0.007252336		Contig_159508	collagen-like cell surface-anchored protein ScH	0.017569095		
Contig_59497	type iii restriction protein res subunit	0.053137863		Contig_262626	conserved protein	0.018497501		
Contig_208383	gtpase imap family member 4	0.00023642		Contig_262635	lipoprotein	0.026591576		
Contig_200382	aig1 domain-containing protein	0.000956975		Contig_51363	viral a-type inclusion protein	0.03901343		
Contig_59411	fibrillin-1- partial	0.001201322		Contig_270979	ATP-dependent helicase	0.031414813		
Contig_95189	bifunctional aminoacyl-tRNA synthetase	0.001361404		Contig_99090	beta gamma crystallin	0.072813671		
Contig_271928	collagen alpha-1 chain-like	0.00191647		Contig_212496	perforin-like protein	0.078179642		
Contig_270097	hydrocephalus-inducing protein homolog	0.002657635		Contig_260915	hemocentin 2	0.000448262		
Contig_156716	PREDICTED: hypothetical protein LOC100640736*	0.005679118		Contig_210598	sarcoplasmic calcium-binding	0.000448262		
Contig_59342	membrane protein	0.0063882		Contig_219184	fibrinogen c domain-containing protein 1-a-like	0.000755112		
Contig_221198	PREDICTED: hypothetical protein LOC100631580*	0.007252336		Contig_210698	low quality protein: titin	0.001338735		
Contig_194451	metallothionein	0.010809295	Contig_61652	hypothetical protein BRAFLDRAFT_78705	0.001500212			
Contig_58260	phenylalanyl-tRNA synthetase beta chain	0.016979231	Contig_105978	modified aequorin	0.001598761			
Contig_281237	ephryn type-A receptor 5 isoform X1	0.017569095	Contig_61670	2-Sa oligoadenylate synthetase	0.002195287			
Contig_200019	PREDICTED: hypothetical protein LOC100649474*	0.017569095	Contig_211183	hypothetical protein CGL_10021602	0.002881968			
Contig_106607	dynein heavy chain 6 axonemal-like	0.018033908	Contig_262832	conserved hypothetical protein	0.003376712			
Contig_276279	GTPase IMAP family member	0.020364059	Contig_61779	peptidase m12a astacin	0.003982725			
Contig_59415	poly ADP ribose polymerase 14-like	0.02116981	Contig_156876	proprotein convertase subtilisin kexin type 9-like	0.004751185			
Contig_160769	kinesin heavy-chain-like protein	0.023632164	Contig_51058	scribble	0.011009614			
Contig_59396	cathepsin I-like cysteine protease	0.025254867	Contig_62126	heme-binding protein 2-like	0.020364059			
Contig_59159	aggregation factor protein 3	0.027240666	Contig_51057	interferon-induced very large gtpase 1-like	0.024470435			
Contig_262191	integrase core domain protein	0.030901343	Contig_59765	protein g7c-like	0.033483902			
Contig_79428	phenylalanine-tRNA ligase alpha subunit isoform 1	0.041888037	Contig_271027	fibrinogen-like protein a	0.035792456			
Contig_221381	short-chain collagen c4-like	0.041888037	Contig_176284	calcium binding protein	0.057952929			
Contig_156555	dbh-like monoxygenase protein 1 homolog	0.051920102	Contig_263232	synaptophysin b	0.059542099			
Contig_216885	bcl-2-like protein 1-like	0.052603989	Contig_198461	short-chain collagen c4-like	0.06392224			
Contig_156696	cell surface A33 antigen	0.056916824	Contig_263087	aggregation factor protein 3	0.078179642			
Contig_222064	plekstrin homology-like domain family B member 2-like	0.05765085	Contig_61631	protein isoform a	0.08948477			
Contig_277901	methylmalonyl-CoA carboxyltransferase	0.05795929	Contig_261263	proprotein convertase subtilisin kexin type 9-like	0.094340998			
Contig_59431	sideroflexin 2	0.05795929	Contig_161256	sarcoplasmic calcium-binding	0.094340998			
Contig_59391	cre-nas-21 protein	0.064815123				Metazoa		
Contig_236109	tnf receptor-associated factor 6	0.064815123						
Contig_235499	bhpl protein	0.066699101						
Contig_157717	sulfide/quinone mitochondrial	0.067861887						
Contig_230629	methylmalonic aciduria and homocystinuria type d mitochondrial-like	0.06872428						
Contig_221777	tetraspanin-3-like isoform 2	0.069472619						
Contig_56775	interferon-induced very large gtpase 1-like	0.072813671						
Contig_69803	probable inactive purple acid phosphatase 27-like	0.072813671						
Contig_219193	PREDICTED: uncharacterized protein K02A2.6-like	0.085088634						
Contig_129806	Eph receptor tyrosine kinase	0.085986807						
Contig_156525	membrane protein	0.088260571						
Contig_221292	selenocysteine lyase	0.088260571						
Contig_265659	Anoctamin	0.094340998						
Contig_204298	tollloid-like protein 1	0.094340998						
Contig_157706	crinkler family	0.096901234				Fungi		