

Table S1. Proteins identified by LC-MS from cultures of *B. ambifaria* T16 grown in M9 minimal medium with sodium citrate (M9+CA) or fusaric acid (M9+FA) as sole carbon source.

The sign + indicates significant differences in protein abundance between the two cultivation conditions

Protein ID	Predicted function	Log ₂ LQ(FA-CA)	Student's T-test
NHL70922.1	LLM class flavin-dependent oxidoreductase	10.8779	+
NHL70923.1	enoyl-CoA hydratase	9.99548	+
NHL70917.1	3,4-dihydroxy-2-butanone-4-phosphate synthase	8.95027	+
NHL70920.1	enoyl-CoA hydratase/isomerase family protein	8.94157	+
NHL70924.1	AMP-binding protein	8.89944	+
NHL70914.1	dihydrolipoyllysine-residue acetyltransferase	7.88209	+
NHL70913.1	alpha-ketoglutarate dehydrogenase	7.67605	+
NHL70918.1	acyl-CoA synthetase	7.54677	+
NHL70921.1	creatininase family protein	7.22397	+
NHL70094.1	CoA transferase	7.20016	+
NHL65703.1	formate dehydrogenase subunit alpha	6.65666	+
NHL70916.1	Lrp/AsnC family transcriptional regulator	6.24661	+
NHL69612.1	acyl-CoA dehydrogenase	6.17527	+
NHL70098.1	methylsuccinate lyase PrpB	6.05959	+
NHL70095.1	2-methylaconitate cis-trans isomerase PrpF	5.86579	+
NHL70097.1	2-methylcitrate synthase PrpC	5.72597	+
NHL70239.1	AMP-binding protein	5.56256	+
NHL70096.1	Fe/S-dependent 2-methylsuccinate dehydratase AcnD	5.38894	+
NHL65705.1	formate dehydrogenase	5.32041	+
NHL70420.1	3-hydroxyacyl-CoA dehydrogenase	5.21292	+
NHL69608.1	enoyl-CoA hydratase	5.11912	+
NHL70226.1	acyl-CoA dehydrogenase	5.0336	+
NHL69611.1	AMP-binding protein	4.98733	+
NHL69181.1	MEKHLA domain-containing protein	4.97697	+
NHL65704.1	formate dehydrogenase	4.93761	+
NHL70421.1	AMP-binding protein	4.91595	+
NHL71193.1	3-hydroxybutyryl-CoA dehydrogenase	4.85804	+
NHL71194.1	acetyl-CoA C-acyltransferase family protein	4.6218	+
NHL68896.1	acyl-CoA synthetase	4.4809	+
NHL70908.1	DUF4148 domain-containing protein	4.29526	+
NHL70419.1	acetyl-CoA C-acyltransferase	4.17029	+
NHL66293.1	amino acid adenylation domain-containing protein	4.05543	+
NHL67411.1	CHRD domain-containing protein	4.02644	+
NHL69609.1	3-hydroxyisobutyrate dehydrogenase	3.93346	+
NHL68402.1	dehydrogenase	3.79089	+
NHL71102.1	tryptophan-tRNA ligase	3.65071	+
NHL69610.1	CoA-acylating methylmalonate-semialdehyde dehydrogenase	3.5291	+
NHL66071.1	NUDIX domain-containing protein	3.49351	+
NHL67339.1	glycerol kinase GlpK	3.36444	+
NHL65032.1	4-hydroxyphenylpyruvate dioxygenase	3.25747	+
NHL66022.1	porin	3.20126	+
NHL66109.1	LysR family transcriptional regulator	3.16789	+
NHL70225.1,NHL71195.1,NHL66124.1	electron transfer flavoprotein-ubiquinone oxidoreductase	2.99696	+
NHL68498.1	DUF4148 domain-containing protein	2.97625	+
NHL70004.1	oxidoreductase	2.70688	+
NHL65234.1	anthranilate synthase component I	2.67805	+
NHL69607.1	enoyl-CoA hydratase/isomerase family protein	2.66751	+
NHL67218.1	site-specific tyrosine recombinase XerD	2.65281	+
NHL66091.1	CoA-acylating methylmalonate-semialdehyde dehydrogenase	2.61771	+
NHL66438.1	lipocalin-like domain-containing protein	2.56322	+
NHL65232.1	anthranilate phosphoribosyltransferase	2.54011	+
NHL65976.1	phosphohistidine phosphatase SixA	2.52072	+
NHL67947.1	phosphatase	2.4792	+
NHL64862.1	class IV adenylate cyclase	2.47569	+
NHL67236.1	kynureninase	2.4506	+
NHL66444.1	zinc-binding alcohol dehydrogenase family protein	2.44262	+
NHL69872.1	hypothetical protein EIB72_26190	2.43349	+
NHL64889.1	AMP-binding protein	2.41337	+
NHL65836.1	glucarate dehydratase	2.40829	+
NHL70849.1	amino acid racemase	2.39926	+
NHL69007.1	M4 family metalloproteinase	2.38937	+
NHL65669.1	DNA-directed RNA polymerase subunit omega	2.34394	+
NHL66551.1	glycosyltransferase family 4 protein	2.30574	+
NHL67472.1	16S rRNA (guanine(966)-N(2))-methyltransferase RsmD	2.25918	+
NHL70680.1	ABC transporter substrate-binding protein	2.19513	+
NHL65233.1	aminodeoxychorismate/anthranilate synthase component II	2.14417	+
NHL65231.1	indole-3-glycerol phosphate synthase TrpC	2.04142	+
NHL68728.1	acetyl-CoA hydrolase/transferase family protein	2.02055	+
NHL66748.1	sensor histidine kinase	2.01995	+
NHL66014.1	xanthine dehydrogenase family protein molybdopterin-binding subunit	2.01864	+
NHL68887.1	SDR family oxidoreductase	1.96864	+
NHL65559.1	symmetrical bis(5-nucleosyl)-tetraphosphatase	1.89411	+
NHL67228.1	class I SAM-dependent methyltransferase	1.88029	+
NHL65418.1	non-specific DNA-binding protein DpsA	1.83474	+
NHL69673.1	ABC transporter substrate-binding protein	1.83123	+
NHL67258.1	zinc ABC transporter solute-binding protein	1.83042	+
NHL70390.1,NHL69274.1	fumarylacetoacetase	1.83006	+
NHL66579.1	fatty acid-CoA ligase	1.80494	+
NHL67229.1	DUF72 domain-containing protein	1.79267	+
NHL70744.1	cupin domain-containing protein	1.78307	+
NHL65762.1	class II fumarate hydratase	1.73968	+
NHL64932.1	cytochrome c5 family protein	1.73266	+
NHL67855.1	acetoacetate decarboxylase	1.70752	+
NHL70449.1	DUF4148 domain-containing protein	1.65259	+
NHL70146.1	PRC-barrel domain containing protein	1.65161	+
NHL69916.1	aldehyde dehydrogenase (NADP(+))	1.63026	+
NHL67237.1	tryptophan 2,3-dioxygenase	1.62703	+
NHL70102.1	fumarylacetoacetate hydrolase family protein	1.62459	+
NHL70756.1	haloacid dehalogenase type II	1.61909	+
NHL67989.1	5/3-nucleotidase SurE	1.59991	+
NHL65333.1	16S rRNA (uracil(1498)-N(3))-methyltransferase	1.59734	+
NHL66795.1	phasin family protein	1.59558	+
NHL70154.1	aldolase	1.59418	+

NHL68017.1	ubiquinone-dependent pyruvate dehydrogenase	1.58407	+
NHL68515.1	SRPBCC domain-containing protein	1.57737	
NHL68622.1	DUF427 domain-containing protein	1.54425	+
NHL69046.1	isocitrate lyase	1.54064	+
NHL68923.1	cytosine deaminase	1.53863	
NHL70716.1	SnoL-like domain-containing protein	1.53435	
NHL69821.1	enoyl-CoA hydratase/isomerase family protein	1.52505	
NHL70915.1	dihydropolyl dehydrogenase	1.5232	+
NHL64989.1	pyridoxamine 5-phosphate oxidase	1.51982	+
NHL67701.1	High potential iron-sulfur protein	1.51602	
NHL67616.1	hydroxymethylglutaryl-CoA lyase	1.51198	+
NHL65249.1	division/cell wall cluster transcriptional repressor MraZ	1.51004	
NHL68535.1	glutathione S-transferase	1.48493	
NHL70162.1	SnoL-like domain-containing protein	1.44812	+
NHL67883.1	universal stress protein	1.44773	+
NHL67071.1	aldehyde dehydrogenase family protein	1.44719	
NHL67862.1	hypothetical protein EIB72_15895	1.44548	+
NHL67581.1	MBL fold metallo-hydrolase	1.43525	+
NHL68666.1	phospholipase	1.42518	
NHL67622.1	nitronate monooxygenase	1.41675	+
NHL67820.1	membrane protein insertase YidC	1.40851	
NHL70105.1	GNAT family N-acetyltransferase	1.4064	+
NHL67143.1	SDR family oxidoreductase	1.4033	
NHL65530.1	polyketide cyclase	1.39811	+
NHL66894.1	enoyl-CoA hydratase	1.39469	
NHL67645.1	heavy-metal-associated domain-containing protein	1.38503	+
NHL70531.1	MEKHLA domain-containing protein	1.36346	+
NHL70546.1	YncE family protein	1.36157	+
NHL71138.1	3-deoxy-D-arabino-heptulosonate 7-phosphate synthase	1.35114	+
NHL67438.1	TIGRO1841 family phasin	1.34632	+
NHL69118.1	aldo/keto reductase	1.32054	+
NHL65416.1	catalase/peroxidase HPI	1.30071	+
NHL67086.1	DUF1311 domain-containing protein	1.26373	
NHL66297.1	N(5)-hydroxyornithine transformylase PvdF	1.26353	
NHL70810.1	chaperonin GroEL	1.24759	
NHL65230.1	CYTH domain-containing protein	1.23925	
NHL65877.1	Lrp/AsnC family transcriptional regulator	1.23638	
NHL66879.1;NHL67854.1	3-hydroxybutyrate dehydrogenase	1.22692	+
NHL68867.1	rhodanese-related sulfurtransferase	1.22104	
NHL70496.1	hypothetical protein EIB72_29410	1.21287	+
NHL67614.1	VOC family protein	1.20322	
NHL66764.1	gamma carbonic anhydrase family protein	1.18438	
NHL66077.1	glucose 1-dehydrogenase	1.18065	
NHL66578.1	3-hydroxyacyl-CoA dehydrogenase	1.16955	+
NHL68619.1	iron-containing alcohol dehydrogenase	1.16091	
NHL66134.1	alpha/beta hydrolase	1.15595	
NHL66218.1	heme-degrading domain-containing protein	1.15038	
NHL67231.1	selenium-binding protein	1.14344	
NHL70087.1	N-acylglucosamine 2-epimerase	1.13754	
NHL69785.1	NAD-binding protein	1.12814	+
NHL65426.1	cob(I)yrinic acid a,c-diamide adenosyltransferase	1.12335	+
NHL65116.1	FAD-dependent oxidoreductase	1.12056	+
NHL64890.1	transporter substrate-binding domain-containing protein	1.1196	
NHL70504.1	hypothetical protein EIB72_29450	1.11649	
NHL67253.1	sugar ABC transporter substrate-binding protein	1.11557	
NHL67406.1	DJ-1/PfpI family protein	1.11443	+
NHL69678.1	fumarylacetoacetate hydrolase family protein	1.11418	+
NHL67225.1	thioredoxin	1.11143	+
NHL69677.1	L-fuconate dehydratase	1.09697	
NHL70380.1	nuclear transport factor 2 family protein	1.09631	+
NHL71086.1	bactericin family protein	1.09027	+
NHL65018.1	NAD(P)-dependent oxidoreductase	1.08915	+
NHL65446.1	3-methyl-2-oxobutanoate hydroxymethyltransferase	1.08836	+
NHL71137.1	2-keto-4-pentenoate hydratase	1.08249	
NHL70500.1	amino acid adenylation domain-containing protein	1.08138	+
NHL70494.1	hypothetical protein EIB72_29400	1.07587	+
NHL69588.1	amylase-1,6-glucosidase	1.0701	
NHL69676.1	SDR family oxidoreductase	1.06547	
NHL66918.1	NAD(P)H-quinone oxidoreductase	1.06463	+
NHL68192.1	leucyl aminopeptidase	1.05051	
NHL68584.1	VOC family protein	1.04428	+
NHL69354.1	class I SAM-dependent methyltransferase	1.03983	
NHL65172.1	DotU family type IV/VI secretion system protein	1.03426	
NHL67266.1	efflux RND transporter permease subunit	1.02751	
NHL69357.1	arylamine N-acetyltransferase	1.02656	
NHL68449.1	organic hydroperoxide resistance protein	1.02579	
NHL65861.1	peroxiredoxin	1.02475	+
NHL67268.1	TetR family transcriptional regulator	1.0188	
NHL64871.1	ABC transporter substrate-binding protein	1.01755	+
NHL66487.1	RNA polymerase sigma factor RpoS	1.0128	
NHL70262.1	S-(hydroxymethyl)glutathione synthase	1.00183	
NHL65497.1	SDR family NAD(P)-dependent oxidoreductase	0.991478	+
NHL66457.1	class I poly(R)-hydroxyalkanoic acid synthase	0.986418	+
NHL68998.1	antibiotic biosynthesis monooxygenase	0.983224	
NHL69587.1	hypothetical protein EIB72_24740	0.973213	
NHL68238.1	FAD-containing oxidoreductase	0.973174	+
NHL70553.1	dihydrodipicolinate synthase family protein	0.973125	
NHL66129.1;NHL70935.1	CoA transferase subunit B	0.970384	
NHL67587.1	adenosylmethionine-8-amino-7-oxononanoate transaminase	0.967972	
NHL66895.1	thiol:disulfide oxidoreductase	0.967658	
NHL71112.1	glutathione S-transferase family protein	0.960644	
NHL65663.1	hypothetical protein EIB72_04545	0.960079	+
NHL64897.1	DNA alkylation response protein	0.957767	
NHL67211.1	DUF3579 domain-containing protein	0.954816	
NHL70228.1	SDR family oxidoreductase	0.95291	
NHL65195.1	YegP family protein	0.945419	+
NHL68096.1	helix-turn-helix transcriptional regulator	0.945122	
NHL68520.1	CoA ester lyase	0.943452	

NHL64859.1	4a-hydroxytetrahydrobiopterin dehydratase	0.942357	
NHL67072.1	SDR family oxidoreductase	0.937981	+
NHL67470.1	YfhL family 4Fe-4S dicluster ferredoxin	0.937948	
NHL65933.1	malonate decarboxylase subunit alpha	0.936485	
NHL65880.1	Fe(3+) ABC transporter substrate-binding protein	0.932474	+
NHL67590.1	biotin synthase BioB	0.931899	+
NHL65244.1	enoyl-CoA hydratase	0.927398	+
NHL68232.1	hypothetical protein EIB72_17775	0.926587	+
NHL65537.1	DsbA family oxidoreductase	0.919928	
NHL66807.1	S9 family peptidase	0.916667	
NHL65264.1	peroxiredoxin	0.911151	
NHL70493.1	PLP-dependent aminotransferase family protein	0.909181	
NHL66463.1	YdcH family protein	0.90447	
NHL67589.1	dethiobiotin synthase	0.904186	
NHL64854.1	NADH:flavin oxidoreductase/NADH oxidase	0.902859	
NHL70025.1	ABC transporter substrate-binding protein	0.902599	+
NHL65842.1	LLM class flavin-dependent oxidoreductase	0.901929	
NHL64918.1	thiamine pyrophosphate-binding protein	0.901844	+
NHL66597.1	glycerate kinase	0.901342	
NHL64985.1	dienelactone hydrolase family protein	0.891255	+
NHL65863.1	NYN domain-containing protein	0.890667	
NHL70217.1	alpha/beta fold hydrolase	0.89036	
NHL67244.1	xylulokinase	0.889406	+
NHL65352.1	DNA polymerase III subunit delta	0.888267	
NHL70460.1	TOBE domain-containing protein	0.883684	
NHL67064.1	P-II family nitrogen regulator	0.874025	+
NHL68833.1	DUF3564 family protein	0.866711	+
NHL71122.1	DUF4011 domain-containing protein	0.865105	+
NHL66455.1	3-ketoacyl-ACP reductase	0.862083	+
NHL68376.1	aldehyde dehydrogenase family protein	0.860981	+
NHL67584.1	SDR family oxidoreductase	0.85936	
NHL66899.1	pimeloyl-CoA dehydrogenase large subunit	0.856785	
NHL66135.1	RidA family protein	0.856109	
NHL67407.1	MarR family transcriptional regulator	0.855038	
NHL65549.1	chaperonin GroEL	0.854628	+
NHL66516.1	molybdenum cofactor biosynthesis protein MoaE	0.853041	
NHL67793.1	Paal family thioesterase	0.853012	+
NHL66231.1	GNAT family N-acetyltransferase	0.850117	
NHL69876.1	S8/S53 family peptidase	0.845196	+
NHL67560.1	type III pantothenate kinase	0.844824	
NHL67161.1	L-aspartate oxidase	0.840496	+
NHL66618.1	acetylornithine deacetylase	0.840385	+
NHL66040.1	cellulase	0.836685	
NHL67379.1	nitrate reductase maturation protein NarM	0.836613	
NHL64906.1	Gyrl-like domain-containing protein	0.835655	
NHL66155.1	pyridoxal phosphate-dependent aminotransferase	0.831394	
NHL65929.1	3-hydroxyacyl-CoA dehydrogenase	0.831327	+
NHL65441.1	nucleotide exchange factor GrpE	0.828821	
NHL68300.1	alpha/beta hydrolase	0.828585	+
NHL65298.1	histone H1-like DNA-binding protein	0.827909	
NHL68695.1	cytochrome c	0.824148	+
NHL65720.1	integration host factor subunit beta	0.822378	
NHL67171.1	bifunctional phosphopantetheinylcysteine decarboxylase/phosphopantetheinyl-cysteine ligase	0.822161	
NHL70190.1	OsmC family protein	0.817431	
NHL70049.1	glutathione S-transferase	0.81305	+
NHL70497.1	phosphopantetheine-binding protein	0.812286	
NHL65110.1	transposase	0.811846	+
NHL65256.1	UDP-N-acetylmuramoyl-L-alanine--D-glutamate ligase	0.806209	
NHL67588.1	8-amino-7-oxononanoate synthase	0.803989	
NHL65716.1	prephenate dehydrogenase/arginate dehydrogenase family protein	0.803286	
NHL67474.1	maleylacetoacetate isomerase	0.80139	
NHL66692.1	glutathione peroxidase	0.79817	
NHL66442.1	hypothetical protein EIB72_08590	0.796132	
NHL65104.1	sn-glycerol-3-phosphate ABC transporter substrate-binding protein UgpB	0.795534	+
NHL66898.1	pimeloyl-CoA dehydrogenase small subunit	0.795148	+
NHL67731.1	L-glyceraldehyde 3-phosphate reductase	0.794374	+
NHL69456.1	SDR family NAD(P)-dependent oxidoreductase	0.791907	
NHL69820.1	acetyl/propionyl/methylcrotonyl-CoA carboxylase subunit alpha	0.787162	+
NHL65823.1	GAF domain-containing protein	0.785806	
NHL66859.1;NHL70605.1	acetate--CoA ligase	0.781846	+
NHL65629.1	DUF1993 domain-containing protein	0.773422	+
NHL69002.1	NAD-dependent succinate-semialdehyde dehydrogenase	0.771677	+
NHL67987.1	cupin domain-containing protein	0.769646	
NHL65026.1	flavodoxin family protein	0.767852	+
NHL69661.1	hypothetical protein EIB72_25120	0.766486	
NHL66495.1	thioredoxin TrxA	0.765495	+
NHL70444.1	dienelactone hydrolase family protein	0.757029	+
NHL66456.1	acetyl-CoA C-acetyltransferase	0.754183	+
NHL66383.1	Laci family DNA-binding transcriptional regulator	0.752158	
NHL68497.1	NADP-dependent phosphogluconate dehydrogenase	0.743765	+
NHL65687.1	aminopeptidase N	0.742638	+
NHL66105.1	HlyD family secretion protein	0.742208	
NHL68856.1	MOSC domain-containing protein	0.739541	
NHL69290.1	ABC transporter substrate-binding protein	0.732824	
NHL65124.1	ABC transporter substrate-binding protein	0.728377	+
NHL67938.1	acyl-CoA dehydrogenase	0.721736	
NHL68722.1	phosphonopyruvate decarboxylase	0.719721	
NHL71065.1	sigma-54-dependent Fis family transcriptional regulator	0.71828	
NHL65520.1	2-hydroxyacid dehydrogenase	0.717461	
NHL65225.1	UbiH/UbiF family hydroxylase	0.714683	
NHL67184.1	elongation factor G	0.710492	+
NHL67745.1	ATP-dependent protease subunit HslV	0.71017	+
NHL65392.1	FMN-binding glutamate synthase family protein	0.708843	
NHL66260.1	sugar ABC transporter substrate-binding protein	0.7075	
NHL67267.1	efflux RND transporter periplasmic adaptor subunit	0.703634	+
NHL65178.1	type VI secretion system tube protein Hcp	0.701544	
NHL67471.1	pantetheine-phosphate adenylyltransferase	0.696357	
NHL66806.1	exodeoxyribonuclease III	0.694358	

NHL64987.1	branched-chain amino acid ABC transporter substrate-binding protein	0.69343	+
NHL66201.1	ABC transporter substrate-binding protein	0.689959	+
NHL65096.1	iron donor protein CyaY	0.68987	+
NHL67230.1	peptide-methionine (S)-S-oxide reductase MsrA	0.68798	+
NHL65943.1	glutathione S-transferase	0.68788	
NHL65137.1	imidazole glycerol phosphate synthase subunit HisF	0.686556	
NHL68906.1	2,4-dihydroxyacetophenone dioxygenase	0.684067	
NHL68133.1	cyclic di-GMP phosphodiesterase	0.673603	
NHL71100.1	type VI secretion system tip protein VgrG	0.673267	
NHL69161.1	glutamate/aspartate ABC transporter substrate-binding protein	0.672281	
NHL67151.1	ABC transporter ATP-binding protein	0.670457	
NHL69403.1	transcription elongation factor GreAB	0.670398	
NHL67550.1	alpha/beta hydrolase	0.669722	
NHL66414.1	aldehyde dehydrogenase family protein	0.667632	
NHL65700.1	tetratricopeptide repeat protein	0.666366	
NHL70999.1	NAD(P)-dependent alcohol dehydrogenase	0.66386	
NHL66744.1	RNA methyltransferase	0.662439	
NHL65357.1	bifunctional 4-hydroxy-2-oxoglutarate aldolase/2-dehydro-3-deoxy-phosphogluconate	0.662126	+
NHL65273.1	dephospho-CoA kinase	0.661343	+
NHL64844.1	type II secretion system ATPase GspE	0.660074	
NHL64881.1	FOF1 ATP synthase subunit A	0.657068	
NHL64957.1	H-NS histone family protein	0.654794	
NHL67122.1	DUF2486 family protein	0.654097	
NHL67894.1	3-oxoadipate enol-lactonase	0.647717	
NHL70881.1	glycosyltransferase family 25 protein	0.640355	+
NHL66614.1	carboxymuconolactone decarboxylase family protein	0.637697	
NHL69875.1	peptidase S1	0.636969	
NHL67334.1	gamma-glutamyltransferase family protein	0.635982	
NHL64857.1	response regulator transcription factor	0.63534	+
NHL70885.1	MBL fold metallo-hydrolase	0.626403	
NHL65103.1	deoxyguanosinetriphosphate triphosphohydrolase	0.625925	
NHL65108.1	glycerophosphodiester phosphodiesterase	0.62522	
NHL67803.1	phosphonate utilization associated transcriptional regulator	0.624117	
NHL66513.1	ATP-dependent chaperone ClpB	0.623187	+
NHL64992.1	Lrp/AsnC family transcriptional regulator	0.620548	
NHL67487.1	SIS domain-containing protein	0.618606	
NHL68618.1	antibiotic biosynthesis monooxygenase	0.61244	
NHL69822.1	methylcrotonoyl-CoA carboxylase	0.610435	
NHL65374.1	hypothetical protein EIB72_03065	0.610241	
NHL66613.1	peroxiredoxin	0.609943	+
NHL67208.1	tetratricopeptide repeat protein	0.609455	
NHL66634.1	allantoinase PuuE	0.605169	
NHL67451.1	HAD family hydrolase	0.604417	
NHL69325.1	ATP-binding domain-containing protein	0.602269	
NHL66474.1	RNA chaperone Hfq	0.60166	+
NHL68960.1	universal stress protein	0.5991	
NHL67520.1	molybdopterin-synthase adenylyltransferase MoeB	0.59763	
NHL65789.1	DUF177 domain-containing protein	0.597295	
NHL67818.1	tRNA uridine-5-carboxymethylaminomethyl(34) synthesis GTPase MnmE	0.596999	
NHL67124.1	leucyl aminopeptidase	0.595577	+
NHL66128.1;NHL70936.1	CoA transferase subunit A	0.593249	
NHL65356.1	phosphogluconate dehydratase	0.592736	
NHL69935.1	LysR family transcriptional regulator	0.591894	
NHL66576.1	acetyl-CoA C-acyltransferase	0.59132	
NHL66998.1	MoxR family ATPase	0.590656	+
NHL70498.1	chlorinating enzyme	0.590124	+
NHL64990.1	H-NS histone family protein	0.588321	
NHL64926.1	glycine cleavage system protein GcvH	0.586657	
NHL66281.1	molecular chaperone	0.583934	
NHL65627.1	6,7-dimethyl-8-ribityllumazine synthase	0.583464	
NHL66640.1	DUF1992 domain-containing protein	0.582496	
NHL66220.1	enoyl-CoA hydratase/isomerase family protein	0.581801	
NHL66955.1	quinone oxidoreductase	0.581153	
NHL65830.1	trehalose-phosphatase	0.579094	
NHL70123.1	cupin domain-containing protein	0.57666	
NHL66611.1	two-component system response regulator OmpR	0.575678	+
NHL68390.1	OsmC family protein	0.571621	
NHL67097.1	DUF3460 family protein	0.570415	
NHL65196.1	class I SAM-dependent methyltransferase	0.568356	
NHL69401.1	CBS domain-containing protein	0.567722	
NHL66583.1	BoIA family transcriptional regulator	0.567639	
NHL67863.1	hypothetical protein EIB72_15900	0.566806	
NHL68518.1	bifunctional 2-methylcitrate dehydratase/aconitate hydratase	0.56423	
NHL67446.1	DUF4743 domain-containing protein	0.563692	
NHL65507.1	DUF883 domain-containing protein	0.562731	
NHL67515.1	protein-export chaperone SecB	0.561958	
NHL69552.1	hypothetical protein EIB72_24560	0.561661	
NHL70406.1	alpha/beta hydrolase	0.558993	
NHL67176.1	cold-shock protein	0.554025	
NHL65142.1	Sec-independent protein translocase subunit Tata	0.551369	
NHL69914.1	5-dehydro-4-deoxyglucarate dehydratase	0.549973	
NHL65241.1	2-(1,2-epoxy-1,2-dihydrophenyl)acetyl-CoA isomerase	0.548491	
NHL67001.1	transaldolase	0.547844	+
NHL67659.1	glutathione-disulfide reductase	0.544897	+
NHL66561.1	NRDE family protein	0.543734	
NHL68468.1	NAD(P)/FAD-dependent oxidoreductase	0.541695	+
NHL66625.1	NAD(P)-dependent oxidoreductase	0.540616	+
NHL66546.1	peptidoglycan-binding protein LysM	0.539874	
NHL69400.1	GTP cyclohydrolase II	0.539249	
NHL70115.1	hypothetical protein EIB72_27435	0.535873	
NHL69973.1	Rieske 2Fe-2S domain-containing protein	0.534189	
NHL68469.1	30S ribosomal protein S21	0.534031	
NHL70481.1	dihydroxyacetone kinase subunit Dhak	0.53223	+
NHL68721.1	2-aminoethylphosphonate aminotransferase	0.530941	+
NHL66332.1	glutathione S-transferase	0.529807	
NHL67025.1	DUF4399 domain-containing protein	0.529423	
NHL66183.1	CpaF family protein	0.529236	
NHL65445.1	bifunctional anthranilate synthase component I family protein/class IV aminotransferase	0.528233	

NHL67691.1	5-oxoprolinase subunit PxpB	0.526733	
NHL65517.1	fumarylacetoacetase	0.525132	
NHL70222.1	NAD(P)H-dependent oxidoreductase	0.524754	
NHL65427.1	NO-inducible flavohemoprotein	0.521289	
NHL66286.1	TauD/TfA family dioxygenase	0.518872	
NHL68527.1	succinate dehydrogenase assembly factor 2	0.518597	
NHL66493.1	YbaB/Ebfc family nucleoid-associated protein	0.515059	
NHL66012.1	FadR family transcriptional regulator	0.513286	
NHL67573.1	DUF1840 domain-containing protein	0.513131	
NHL69970.1	tryptophan 7-halogenase	0.512232	
NHL65146.1	Nif3-like dinuclear metal center hexameric protein	0.510902	
NHL67726.1	serine/threonine protein kinase	0.503579	
NHL68940.1	aspartate/tyrosine/aromatic aminotransferase	0.500905	
NHL65153.1	cystine ABC transporter substrate-binding protein	0.497312	+
NHL64867.1	ABC transporter substrate-binding protein	0.495896	
NHL65637.1	glucose-6-phosphate dehydrogenase	0.494884	
NHL66379.1	Spy/CpxP family protein refolding chaperone	0.494778	
NHL67966.1	peptide ABC transporter ATPase	0.494275	
NHL67199.1	DUF3380 domain-containing protein	0.493455	
NHL70499.1	acyl carrier protein	0.491154	
NHL66709.1	malate synthase A	0.490989	
NHL66246.1	tRNA 2-selenouridine(34) synthase MnmH	0.489621	
NHL66999.1	VWA domain-containing protein	0.489319	
NHL65456.1	tRNA (adenosine(37)-N6)-dimethylallyltransferase MiaA	0.486965	
NHL70874.1	OsmC family protein	0.485847	
NHL67711.1	XdhC family protein	0.485643	
NHL68459.1	dienelactone hydrolase family protein	0.484833	
NHL69353.1	NAD-glutamate dehydrogenase	0.48465	
NHL68144.1	isocitrate lyase/phosphoenolpyruvate mutase family protein	0.483954	
NHL66595.1	ATP-dependent Clp endopeptidase proteolytic subunit ClpP	0.482777	+
NHL70495.1	succinylglutamate desuccinylase	0.482595	
NHL67200.1	type VI secretion system tip protein VgrG	0.482047	
NHL69000.1	xanthine dehydrogenase family protein molybdopterin-binding subunit	0.479136	
NHL71002.1	HAD family hydrolase	0.477736	
NHL67965.1	fucose-binding lectin II	0.476523	
NHL67746.1	ATP-dependent protease ATPase subunit HslU	0.476189	+
NHL70047.1	HIT domain-containing protein	0.476026	
NHL67166.1	RsmB/NOP family class I SAM-dependent RNA methyltransferase	0.475195	
NHL65365.1	glutamate/aspartate ABC transporter substrate-binding protein	0.47475	
NHL65893.1	pentapeptide MXKDX repeat protein	0.472959	
NHL66292.1	amino acid adenylation domain-containing protein	0.471443	
NHL65198.1	DUF1415 domain-containing protein	0.470397	
NHL65826.1	GNAT family N-acetyltransferase	0.46919	
NHL68161.1	hsp70 family protein	0.468896	
NHL70424.1	ATPase	0.46866	
NHL65950.1	hydroxyacylglutathione hydrolase	0.468624	
NHL67615.1	glyoxylate/hydroxypropyruvate reductase A	0.468273	
NHL65380.1	D-tyrosyl-tRNA(Tyr) deacylase	0.467927	
NHL66705.1	isocitrate lyase	0.460974	
NHL67475.1	DNA-binding protein YbiB	0.459962	
NHL66518.1	molybdopterin molybdotransferase MoeA	0.459037	
NHL69295.1	ABC transporter substrate-binding protein	0.458761	
NHL66266.1	PrkA family serine protein kinase	0.458455	+
NHL70890.1	diaminobutyrate--2-oxoglutarate transaminase family protein	0.457332	
NHL68724.1	phosphocholine cytidylyltransferase family protein	0.456259	
NHL67788.1	thioredoxin family protein	0.456153	
NHL66581.1	peptide-methionine (R)-S-oxide reductase MsrB	0.456136	
NHL66962.1	nicotinate-nucleotide adenyltransferase	0.453728	
NHL67739.1	diaminopimelate epimerase	0.452986	+
NHL67387.1	dihydroneopterin triphosphate diphosphatase	0.450181	
NHL65093.1	protein-methionine-sulfoxide reductase catalytic subunit MsrP	0.44958	
NHL65432.1	carbon-nitrogen hydrolase family protein	0.448197	
NHL67201.1	superoxide dismutase	0.448188	
NHL65638.1	carbohydrate ABC transporter substrate-binding protein	0.444565	+
NHL65434.1	bifunctional	0.444553	
NHL65548.1	co-chaperone GroES	0.443324	
NHL69910.1	ribose ABC transporter	0.442115	
NHL68387.1	riboflavin synthase subunit alpha	0.441957	+
NHL69107.1	fumarylacetoacetate hydrolase family protein	0.438054	
NHL66144.1	MerR family transcriptional regulator	0.437874	
NHL66680.1	pseudouridine synthase	0.437737	
NHL68927.1	3-keto-5-aminohexanoate cleavage protein	0.437695	
NHL65443.1	molecular chaperone DnaK	0.434821	+
NHL70064.1	IcIR family transcriptional regulator	0.434196	
NHL65429.1	type II toxin-antitoxin system Phd/YefM family antitoxin	0.433247	
NHL69042.1	alpha, alpha-trehalose-phosphate synthase (UDP-forming)	0.428503	
NHL67469.1	histidinol-phosphate transaminase	0.427441	
NHL65711.1	OmpA family protein	0.425616	
NHL65245.1	molybdopterin oxidoreductase family protein	0.425252	
NHL69044.1	acid phosphatase	0.422439	
NHL65695.1	amidase	0.416358	
NHL66580.1	YdiU family protein	0.415556	
NHL67456.1	ribosome-associated translation inhibitor RaiA	0.412403	
NHL67305.1	succinate--CoA ligase subunit alpha	0.412393	
NHL69399.1	hypothetical protein EIB72_23785	0.409712	
NHL67261.1	S-formylglutathione hydrolase	0.409259	+
NHL65772.1	nicotinate phosphoribosyltransferase	0.407604	
NHL66598.1	MarR family transcriptional regulator	0.406848	
NHL65064.1	30S ribosomal protein S3	0.406796	
NHL65798.1	RNA polymerase sigma factor RpoE	0.402394	
NHL65049.1	50S ribosomal protein L7/L12	0.40085	
NHL69874.1	ammonia-dependent NAD(+) synthetase	0.399776	
NHL67547.1	YbeD family protein	0.399127	
NHL69971.1	DUF1864 family protein	0.394388	
NHL67257.1	transcriptional repressor	0.393841	
NHL67210.1	30S ribosomal protein S20	0.393765	
NHL65710.1	bifunctional 2-polyprenyl-6-hydroxyphenol methylase/3-demethylubiquinol 3-O-methylase	0.392649	
NHL65750.1	oligoribonuclease	0.390441	

NHL67394.1	Tim44 domain-containing protein	0.389902	
NHL65630.1	riboflavin synthase	0.388119	
NHL69397.1	hypothetical protein EIB72_23775	0.388105	
NHL65474.1	capsular biosynthesis protein	0.387922	
NHL67219.1	methylated-DNA-[protein]-cysteine S-methyltransferase	0.387795	
NHL65132.1	histidinol-phosphate transaminase	0.386084	
NHL66156.1	SMC-Scp complex subunit ScpB	0.384501	
NHL67207.1	SDR family NAD(P)-dependent oxidoreductase	0.383081	
NHL68852.1	response regulator	0.38299	
NHL70880.1	hypothetical protein EIB72_31385	0.382779	
NHL69557.1	DUF1311 domain-containing protein	0.38231	
NHL65128.1	BoIA family transcriptional regulator	0.380705	
NHL66530.1	peroxiredoxin	0.379444	
NHL67685.1	multifunctional CCA addition/repair protein	0.378412	
NHL66781.1	Fe-S cluster assembly protein IscX	0.377099	
NHL67591.1	copper homeostasis protein CutC	0.375401	
NHL67298.1	hypothetical protein EIB72_13035	0.374235	
NHL66313.1	DUF1993 domain-containing protein	0.373534	
NHL69422.1	SDR family oxidoreductase	0.37311	
NHL70891.1	SDR family oxidoreductase	0.372441	
NHL68205.1	LysR family transcriptional regulator	0.371342	
NHL65981.1	DUF2288 domain-containing protein	0.370471	
NHL64855.1	SET domain-containing protein-lysine N-methyltransferase	0.36954	
NHL65176.1	type VI secretion system contractile sheath small subunit	0.369334	+
NHL70264.1	cold-shock protein	0.368832	
NHL67450.1	KpsF/GutQ family sugar-phosphate isomerase	0.368118	
NHL70535.1	SDR family oxidoreductase	0.366969	
NHL68464.1	1-deoxy-D-xylulose 5-phosphate synthase	0.365613	+
NHL66407.1	polyamine ABC transporter substrate-binding protein	0.360619	
NHL65697.1	type 1 glutamine amidotransferase	0.358919	
NHL66527.1	formyltransferase	0.355216	
NHL70501.1	alpha/beta hydrolase	0.354952	
NHL67116.1	EVE domain-containing protein	0.35495	
NHL65960.1	ATP-dependent metalloproteinase FtsH/Yme1/Tma family protein	0.351354	
NHL69569.1	M20/M25/M40 family metallo-hydrolase	0.350537	
NHL69428.1	alkene reductase	0.348938	
NHL69594.1	response regulator	0.34547	
NHL65177.1	type VI secretion system contractile sheath large subunit	0.343526	
NHL66298.1	acetyltransferase	0.341384	
NHL66117.1	CBS domain-containing protein	0.341087	
NHL66373.1	YciI family protein	0.341084	
NHL68661.1	DUF2891 domain-containing protein	0.338605	
NHL65201.1	nitroreductase family protein	0.33847	
NHL70413.1	dihydropyrimidinase	0.338162	
NHL65450.1	HAD-IB family hydrolase	0.336301	
NHL69323.1	hypothetical protein EIB72_23405	0.335476	
NHL68589.1	L-seryl-tRNA(Sec) selenium transferase	0.331626	
NHL67453.1	lipopolysaccharide transport periplasmic protein LptA	0.329878	
NHL66119.1	chorismate synthase	0.32931	
NHL65320.1	arabinose ABC transporter substrate-binding protein	0.327464	
NHL69851.1	WG repeat-containing protein	0.327122	
NHL66893.1	glutathione S-transferase	0.326604	
NHL67177.1	multicopper oxidase family protein	0.32615	
NHL67457.1	PTS transporter subunit EIIA	0.325615	
NHL66761.1	PHP domain-containing protein	0.321925	
NHL66713.1	glutamate-tRNA ligase	0.321131	
NHL65133.1	imidazoleglycerol-phosphate dehydratase HisB	0.318876	
NHL65187.1	OmpA family protein	0.317052	
NHL66587.1	FAD-dependent oxidoreductase	0.316886	
NHL67359.1	CBS domain-containing protein	0.314868	
NHL66251.1	universal stress protein	0.313405	
NHL71085.1	Dyp-type peroxidase	0.310095	
NHL66929.1	acetolactate synthase small subunit	0.309961	
NHL67402.1	RidA family protein	0.307182	
NHL67838.1	replication initiation protein	0.306314	
NHL65139.1	phosphoribosyl-ATP diphosphatase	0.306089	
NHL65390.1	M24 family metalloproteinase	0.303809	+
NHL69175.1	hypothetical protein EIB72_22615	0.302703	
NHL65655.1	cell division topological specificity factor MinE	0.302237	
NHL70682.1	hypothetical protein EIB72_30365	0.299422	
NHL67115.1	cell division protein ZapA	0.299292	
NHL68526.1	succinate dehydrogenase iron-sulfur subunit	0.299194	
NHL64858.1	DUF3717 domain-containing protein	0.296327	
NHL69337.1	agmatinase	0.295404	
NHL67306.1	ADP-forming succinate-CoA ligase subunit beta	0.292341	
NHL67002.1	VOG family protein	0.291141	
NHL65448.1	2-amino-4-hydroxy-6-hydroxymethylidihydropteridine diphosphokinase	0.290876	
NHL68003.1	molybdopterin-dependent oxidoreductase	0.29051	
NHL65664.1	oxygen-independent coproporphyrinogen III oxidase-like protein	0.289202	
NHL65309.1	UDP-N-acetylmuramate:L-alanyl-gamma-D-glutamyl-meso-diaminopimelate ligase	0.287451	
NHL67847.1	tartrate dehydrogenase	0.285404	
NHL64914.1	aldehyde dehydrogenase	0.283196	
NHL65729.1	histone deacetylase family protein	0.282412	
NHL67100.1	aspartate 1-decarboxylase	0.282392	
NHL65555.1	bifunctional pyr operon transcriptional regulator/uracil phosphoribosyltransferase PyrR	0.281862	
NHL66679.1	[protein-Pil] uridylyltransferase	0.280638	
NHL64929.1	oxidoreductase	0.279811	
NHL70882.1	amino acid adenylation domain-containing protein	0.279195	
NHL70338.1	Flp pilus assembly complex ATPase component TadA	0.278358	
NHL67312.1	MHS family MFS transporter	0.277201	
NHL69691.1	alanine-glyoxylate aminotransferase family protein	0.27702	
NHL68528.1	citrate (5i)-synthase	0.275904	
NHL64963.1	response regulator	0.274974	
NHL65305.1	acetyl-CoA carboxylase biotin carboxyl carrier protein	0.274576	
NHL69149.1	alpha-2-macroglobulin	0.27414	
NHL66817.1	amino-acid N-acetyltransferase	0.273637	
NHL67463.1	tetratricopeptide repeat protein	0.272449	+
NHL65628.1	3,4-dihydroxy-2-butanone-4-phosphate synthase	0.269809	

NHL67317.1	PAAR domain-containing protein	0.269129
NHL66881.1	23S rRNA (adenine(2030)-N(6))-methyltransferase RlmJ	0.268496
NHL65242.1	3-oxoadipyl-CoA thiolase	0.266624
NHL68776.1	gamma-glutamyltransferase	0.264658
NHL67227.1	pyridoxamine 5-phosphate oxidase	0.264402
NHL64924.1	alginate lyase family protein	0.264261
NHL67568.1	IcIR family transcriptional regulator	0.262347
NHL66566.1	Dabb family protein	0.261724
NHL68902.1	MBL fold metallo-hydrolase	0.261173
NHL65631.1	bifunctional diaminohydroxyphosphoribosylaminopyrimidine deaminase	0.260308
NHL69972.1	FAD-dependent oxidoreductase	0.260244
NHL64887.1	FOF1 ATP synthase subunit beta	0.258701
NHL67290.1	zinc-finger domain-containing protein	0.257424
NHL66112.1	FAD-binding oxidoreductase	0.254045
NHL69568.1	malate/lactate/ureidoglycolate dehydrogenase	0.253951
NHL69596.1	transcription elongation factor GreA	0.253347
NHL68456.1	TIGR00730 family Rossmann fold protein	0.252668
NHL69962.1	3-oxoadipyl-CoA thiolase	0.25243
NHL65067.1	30S ribosomal protein S17	0.251847
NHL65796.1	beta-ketoacyl-ACP synthase II	0.251695
NHL65632.1	glutamate-1-semialdehyde 2,1-aminomutase	0.251616
NHL65837.1	FadR family transcriptional regulator	0.250915
NHL64848.1	HU family DNA-binding protein	0.250429
NHL66467.1	phosphoribosyltransferase	0.250266
NHL65984.1	aldose epimerase	0.2502
NHL66900.1	NUDIX hydrolase	0.249992
NHL70215.1	presqualene diphosphate synthase HpnD	0.249349
NHL70209.1	ABC transporter substrate-binding protein	0.246847
NHL67098.1	segregation/condensation protein A	0.246259
NHL67460.1	ATP-dependent protease	0.246122
NHL70147.1	3-deoxy-7-phosphoheptulonate synthase	0.245253
NHL67078.1	class I SAM-dependent methyltransferase	0.244428
NHL69953.1	selenide, water dikinase Seld	0.242696
NHL65735.1	electron transfer flavoprotein subunit alpha/FixB family protein	0.2415
NHL70427.1	AAA family ATPase	0.241269
NHL65136.1	1-(5-phosphoribosyl)-5-[(5-phosphoribosylamino)methylideneamino]imidazole-4-carboxamide isomerase	0.241086
NHL65801.1	DegQ family serine endoprotease	0.241024
NHL65557.1	dihydroorotase	0.240445
NHL67779.1	response regulator	0.240335
NHL65281.1	GTPase ObgE	0.236167
NHL65181.1	type VI secretion system baseplate subunit TssG	0.232636
NHL64934.1	DUF3396 domain-containing protein	0.23222
NHL66242.1	NADP(H)-dependent aldo-keto reductase	0.231487
NHL68999.1	(2Fe-2S)-binding protein	0.230346
NHL68565.1	bifunctional tetrahydrofolate synthase/dihydrofolate synthase	0.230334
NHL66615.1	2-C-methyl-D-erythritol 2,4-cyclodiphosphate synthase	0.229464
NHL67277.1	D-alanyl-D-alanine carboxypeptidase/D-alanyl-D-alanine-endopeptidase	0.228546
NHL67699.1	ABC transporter substrate-binding protein	0.227846
NHL66667.1	UDP-3-O-(3-hydroxymyristoyl)glucosamine N-acyltransferase	0.226618
NHL65207.1	Grx4 family monothiol glutaredoxin	0.226484
NHL69549.1	adenosylmethionine decarboxylase	0.22612
NHL70507.1	branched-chain amino acid ABC transporter substrate-binding protein	0.224932
NHL66638.1	muramoyltetrapeptide carboxypeptidase	0.224425
NHL70053.1	trans-2-enoyl-CoA reductase family protein	0.222809
NHL67101.1	ParA family protein	0.221471
NHL68424.1	FKBP-type peptidyl-prolyl cis-trans isomerase	0.220916
NHL67525.1	glutamate-cysteine ligase	0.220885
NHL67088.1	dCTP deaminase	0.220234
NHL66703.1	acyl-CoA-binding protein	0.217871
NHL65666.1	ribonuclease PH	0.216099
NHL66911.1	NADH-quinone oxidoreductase subunit NuoE	0.215361
NHL66938.1	TetR/AcrR family transcriptional regulator	0.214675
NHL65301.1	thiol peroxidase	0.210206
NHL65795.1	acyl carrier protein	0.209293
NHL65248.1	2-polyprenyl-3-methyl-6-methoxy-1,4-benzoquinone monooxygenase	0.207728
NHL66802.1	M3 family metalloprotease	0.206671
NHL67405.1	amino acid deaminase	0.205938
NHL67544.1	lipoyl(octanoyl) transferase LipB	0.205514
NHL68517.1	aconitate hydratase AcnA	0.205167
NHL66489.1	protein-L-isoaspartate(D-aspartate) O-methyltransferase	0.202945
NHL65269.1	ATP-binding protein	0.202559
NHL66429.1	cephalosporin hydroxylase	0.200581
NHL64849.1	bifunctional tRNA (5-methylaminomethyl-2-thiouridine)(34)-methyltransferase MnmD	0.200222
NHL68090.1	NADP-dependent glyceraldehyde-3-phosphate dehydrogenase	0.200138
NHL64847.1	GTP-binding protein	0.198174
NHL65035.1	TetR/AcrR family transcriptional regulator	0.197882
NHL65180.1	type VI secretion system baseplate subunit TssF	0.197573
NHL67571.1	5-methyltetrahydrofolate-homocysteine methyltransferase	0.196095
NHL65773.1	lactate utilization protein C	0.19556
NHL70886.1	amino acid adenylation domain-containing protein	0.195118
NHL67262.1	carbohydrate kinase	0.194803
NHL69147.1	GMC family oxidoreductase	0.194413
NHL65690.1	guanine deaminase	0.193813
NHL67333.1	ferritin-like domain-containing protein	0.193093
NHL66836.1	urocanate hydratase	0.192765
NHL70337.1	type III secretion system outer membrane ring subunit SctC	0.192751
NHL67099.1	pantoate-beta-alanine ligase	0.192654
NHL64970.1	chemotaxis protein CheY	0.192599
NHL69950.1	purine nucleoside permease	0.192383
NHL65260.1	D-alanine-D-alanine ligase	0.19231
NHL67740.1	DUF484 family protein	0.192163
NHL66702.1	tRNA (adenosine(37)-N6)-threonylcarbamoyltransferase complex dimerization subunit type 1 TsaB	0.190859
NHL69963.1	IcIR family transcriptional regulator	0.189822
NHL67650.1;NHL66829.1	glutamine synthetase	0.187377
NHL70997.1	ATP-binding protein	0.187239
NHL69377.1	cupin domain-containing protein	0.185533
NHL66443.1	hypothetical protein EIB72_08595	0.183928
NHL66454.1	polyhydroxyalkanoate synthesis repressor PhaR	0.183889

NHL70887.1	LLM class flavin-dependent oxidoreductase	0.183503	
NHL65347.1	4-hydroxy-tetrahydrodipicolinate reductase	0.183043	
NHL67562.1	D-glycero-beta-D-manno-heptose 1-phosphate adenylyltransferase	0.180984	
NHL67289.1	branched-chain amino acid transaminase	0.177036	
NHL65141.1	histidine triad nucleotide-binding protein	0.176674	
NHL70883.1	amino acid adenylation domain-containing protein	0.17584	
NHL66491.1	CoA transferase	0.175538	
NHL65435.1	DNA repair protein RecN	0.175096	
NHL65734.1	electron transfer flavoprotein subunit beta/FixA family protein	0.174174	
NHL66811.1	rhodanese-like domain-containing protein	0.173996	
NHL65623.1	UbiD family decarboxylase	0.172305	
NHL65377.1	iron-sulfur cluster insertion protein ErpA	0.167552	
NHL65852.1	aspartate aminotransferase family protein	0.166997	
NHL66783.1	Fe-S protein assembly chaperone HscA	0.166611	
NHL66149.1	hypothetical protein EIB72_07090	0.166239	
NHL66666.1	3-hydroxyacyl-ACP dehydratase FabZ	0.16567	
NHL64853.1	glutamine amidotransferase	0.165338	
NHL70205.1	malate synthase G	0.165126	
NHL67448.1	adenine phosphoribosyltransferase	0.164473	
NHL67075.1	fused uroporphyrinogen-III synthase HemD/membrane protein HemX	0.16361	
NHL66889.1	carboxypeptidase family protein	0.163116	
NHL65653.1	septum site-determining protein MinC	0.162478	
NHL67822.1	ribonuclease P protein component	0.162358	
NHL67135.1	ABC transporter substrate-binding protein	0.158883	
NHL67686.1	glutathione S-transferase family protein	0.158435	
NHL66310.1	AAA domain-containing protein	0.155239	
NHL67234.1	Lrp/AsnC family transcriptional regulator	0.155078	
NHL65227.1	M61 family metalloproteinase	0.154167	
NHL69045.1	phosphoenolpyruvate carboxykinase (GTP)	0.153126	
NHL71015.1	malto-oligosyltrehalose synthase	0.15296	
NHL66264.1	ribokinase	0.152482	
NHL70008.1	glucose-6-phosphate dehydrogenase	0.151818	
NHL64936.1	PAAR domain-containing protein	0.150957	
NHL69519.1	GNAT family N-acetyltransferase	0.150675	
NHL67791.1	D-2-hydroxyacid dehydrogenase family protein	0.149448	
NHL66675.1	UMP kinase	0.148904	
NHL67582.1	bifunctional isocitrate dehydrogenase kinase/phosphatase	0.148486	
NHL70408.1	TetR/AcrR family transcriptional regulator	0.148443	
NHL65553.1	YggE/AlgH family protein	0.146952	
NHL68437.1	HAMP domain-containing histidine kinase	0.146928	
NHL65215.1	HAD-IA family hydrolase	0.146156	
NHL66917.1	triose-phosphate isomerase	0.145363	
NHL67702.1	NAD(P)/FAD-dependent oxidoreductase	0.142988	
NHL66765.1	Hsp33 family molecular chaperone HslO	0.14227	
NHL65119.1	thiamine phosphate synthase	0.142194	
NHL65784.1	HAD-IA family hydrolase	0.139421	
NHL65676.1	chorismate mutase	0.13857	
NHL65042.1	SGNH/GDSL hydrolase family protein	0.13785	
NHL65062.1	30S ribosomal protein S19	0.137681	
NHL71123.1	hypothetical protein EIB72_32620	0.13716	
NHL70457.1	ProQ activator of osmoprotectant transporter prop	0.134538	
NHL66782.1	ISC system 2Fe-2S type ferredoxin	0.134375	
NHL68555.1	3-isopropylmalate dehydrogenase	0.132494	
NHL70213.1	squalene-hopene cyclase	0.130404	
NHL64894.1	branched-chain amino acid ABC transporter substrate-binding protein	0.129061	
NHL70681.1	antibiotic biosynthesis monooxygenase	0.127913	
NHL67065.1	NAD+ synthase	0.127774	
NHL65856.1	N-succinylarginine dihydrolase	0.126689	
NHL71098.1	sel1 repeat family protein	0.123917	
NHL70426.1	bifunctional (p)ppGpp synthetase/guanosine-3,5-bis(diphosphate) 3-pyrophosphohydrolase	0.123535	
NHL64884.1	FOF1 ATP synthase subunit delta	0.1221	+
NHL67005.1	spermidine synthase	0.121634	
NHL67808.1	glutamyl-cysteine ligase	0.121384	
NHL66925.1	2-isopropylmalate synthase	0.119937	
NHL65665.1	RdgB/HAM1 family non-canonical purine NTP pyrophosphatase	0.118066	
NHL66206.1	ribonuclease R	0.117802	
NHL70136.1	4-hydroxy-3-methylbut-2-enyl diphosphate reductase	0.116819	
NHL65644.1	thioredoxin-disulfide reductase	0.116599	
NHL70073.1	low-specificity L-threonine aldolase	0.114548	
NHL66956.1	methylglyoxal synthase	0.11412	
NHL65364.1	Glu/Leu/Phe/Val dehydrogenase	0.113158	
NHL68454.1	AMP nucleosidase	0.112113	
NHL65523.1	alanine-glyoxylate aminotransferase family protein	0.111725	
NHL65278.1	octaprenyl diphosphate synthase	0.110161	
NHL65958.1	YhbY family RNA-binding protein	0.10857	
NHL67737.1	methionine adenosyltransferase	0.10773	
NHL70026.1	succinylglutamate desuccinylase/aspartoacylase family protein	0.107541	
NHL67565.1	alginate biosynthesis protein AlgP	0.106565	
NHL64878.1	ParB/RepB/Spo0J family partition protein	0.106462	
NHL68977.1	UDP-N-acetylglucosamine 1-carboxyvinyltransferase	0.106284	
NHL65289.1	signal recognition particle protein	0.103008	
NHL67811.1	VOC family protein	0.10272	
NHL66627.1	LysR family transcriptional regulator	0.102582	
NHL65490.1	tol-pal system protein YbgF	0.102102	
NHL65674.1	cold-shock protein	0.101539	
NHL66450.1	30S ribosomal protein S12 methylthiotransferase RimO	0.10061	
NHL70875.1	PhzF family phenazine biosynthesis protein	0.10018	
NHL67038.1	SDR family NAD(P)-dependent oxidoreductase	0.0999775	
NHL66589.1	glucose-6-phosphate isomerase	0.0990925	
NHL66143.1	integration host factor subunit alpha	0.0980123	
NHL68151.1	hypothetical protein EIB72_17370	0.0972468	
NHL66885.1	DUF2863 family protein	0.0965436	
NHL68723.1	phosphoenolpyruvate mutase	0.0953318	
NHL66987.1	DNA translocase FtsK	0.0952911	
NHL66966.1	ribonuclease G	0.0949542	
NHL65447.1	deoxynucleoside kinase	0.0934315	
NHL71144.1	alpha/beta hydrolase	0.0929896	
NHL68922.1	VOC family protein	0.0929712	

NHL65463.1	polyisalic acid transporter	0.090203
NHL65753.1	metalloprotease PmbA	0.0899118
NHL64883.1	FOF1 ATP synthase subunit B	0.0898018
NHL66254.1	transcriptional repressor LexA	0.0896263
NHL67054.1	response regulator	0.0895627
NHL69404.1	porin	0.0888462
NHL65156.1	hypothetical protein EIB72_01950	0.0878677
NHL66923.1	carbonic anhydrase	0.0867589
NHL67454.1	LPS export ABC transporter ATP-binding protein	0.0867316
NHL67226.1	tRNA cyclic N6-threonylcarbamoyladenosine(37) synthase TcdA	0.0863679
NHL67130.1	sulfate adenylyltransferase subunit CysD	0.086319
NHL65771.1	ferredoxin family protein	0.0841993
NHL67496.1	hypothetical protein EIB72_14035	0.0837936
NHL66137.1	threonine-tRNA ligase	0.0833988
NHL66942.1	DUF924 domain-containing protein	0.0828679
NHL67061.1	GNAT family N-acetyltransferase	0.0816256
NHL66991.1	Tetr/AcrR family transcriptional regulator	0.0814546
NHL65131.1	histidinol dehydrogenase	0.0807775
NHL65059.1	50S ribosomal protein L4	0.0791734
NHL67403.1	D-aminoacylase	0.0784537
NHL66093.1	sulfurtransferase Tusa family protein	0.0784467
NHL67174.1	ATP-dependent Clp protease ATP-binding subunit ClpA	0.0772896
NHL68399.1	DUF883 domain-containing protein	0.0767899
NHL67465.1	4-(cytidine 5-diphospho)-2-C-methyl-D-erythritol kinase	0.0753384
NHL65254.1	UDP-N-acetylmuramoyl-tripeptide-D-alanyl-D-alanine ligase	0.0737279
NHL66233.1	DUF695 domain-containing protein	0.0736694
NHL67180.1	NADP-dependent isocitrate dehydrogenase	0.0733674
NHL68521.1	malate dehydrogenase	0.0726109
NHL68519.1	hypothetical protein EIB72_19240	0.0719859
NHL66695.1	DNA repair protein RadA	0.071387
NHL66681.1	peptide deformylase	0.0692418
NHL65359.1	gluconokinase	0.0663287
NHL66521.1	pyridoxal phosphate-dependent aminotransferase	0.0644213
NHL65279.1	50S ribosomal protein L21	0.063652
NHL66800.1	response regulator transcription factor	0.0617657
NHL65636.1	6-phosphogluconolactonase	0.060051
NHL64955.1	Cof-type HAD-IB family hydrolase	0.05959
NHL67766.1	Asp-tRNA(Asn)/Glu-tRNA(Gln) amidotransferase subunit GatB	0.0574805
NHL65508.1	peroxiredoxin	0.0572751
NHL68009.1	response regulator	0.0572573
NHL66909.1	NADH-quinone oxidoreductase subunit G	0.0571327
NHL66023.1	hypothetical protein EIB72_06445	0.0569331
NHL66752.1	cupin domain-containing protein	0.0565866
NHL67127.1	cobalamin biosynthesis protein CbiX	0.0544872
NHL65509.1	acyl-CoA dehydrogenase	0.054011
NHL71099.1	phospholipase	0.0527623
NHL65088.1	porphobilinogen synthase	0.0512269
NHL65084.1	DNA-directed RNA polymerase subunit alpha	0.0492433
NHL67956.1	ATP-dependent RNA helicase DbpA	0.0474701
NHL67476.1	2-isopropylmalate synthase	0.0472056
NHL65130.1	ATP phosphoribosyltransferase	0.0471821
NHL67120.1	dihydroxy-acid dehydratase	0.046025
NHL66136.1	bifunctional (p)ppGpp synthetase/guanosine-3,5-bis(diphosphate) 3-pyrophosphohydrolase	0.0452957
NHL66828.1	aspartate aminotransferase family protein	0.0450026
NHL68561.1	tryptophan synthase subunit beta	0.0447521
NHL69523.1	DUF4142 domain-containing protein	0.0440038
NHL65191.1	phage tail protein	0.0431169
NHL67935.1	phosphotransferase	0.0428727
NHL66477.1	tetratricopeptide repeat protein	0.0416997
NHL67436.1	acetoacetyl-CoA reductase	0.0405229
NHL66758.1	tryptophan-tRNA ligase	0.0402991
NHL66565.1	Paal family thioesterase	0.0400155
NHL65752.1	ribosome-associated protein	0.039004
NHL67152.1	ABC transporter ATP-binding protein	0.0376301
NHL70054.1	SDR family oxidoreductase	0.0351779
NHL65112.1	glutamate synthase subunit beta	0.0326678
NHL65727.1	cysteine synthase CysM	0.0321916
NHL70412.1	aromatic ring-hydroxylating dioxygenase subunit alpha	0.0321369
NHL71078.1	response regulator	0.0298856
NHL67214.1	YajQ family cyclic di-GMP-binding protein	0.0294253
NHL68835.1	homoprotocatechuate degradation operon regulator HpaR	0.0290521
NHL66913.1	NADH-quinone oxidoreductase subunit C	0.0290508
NHL66592.1	peptidylprolyl isomerase	0.0283025
NHL67637.1	UDP-N-acetylglucosamine diphosphorylase/glucosamine-1-phosphate N-acetyltransferase	0.0281321
NHL65259.1	UDP-N-acetylmuramate-L-alanine ligase	0.0270596
NHL65534.1	BON domain-containing protein	0.0248775
NHL67524.1	glutathione synthase	0.0234038
NHL67040.1	serine protease inhibitor ecotin	0.0232499
NHL68522.1	GntR family transcriptional regulator	0.0222289
NHL68452.1	homoserine kinase	0.0214895
NHL67310.1	response regulator transcription factor	0.0200704
NHL69753.1	ABC transporter ATP-binding protein	0.0199598
NHL70041.1	hypothetical protein EIB72_27065	0.0185127
NHL68523.1	succinate dehydrogenase, cytochrome b556 subunit	0.0181777
NHL65492.1	Tol-Pal system protein TolB	0.0178668
NHL71134.1	tetratricopeptide repeat protein	0.0162875
NHL66048.1	pirin family protein	0.0156562
NHL66158.1	ribosome maturation factor RimP	0.015426
NHL70145.1	carbon starvation protein A	0.0150312
NHL67400.1	threonine ammonia-lyase, biosynthetic	0.0131512
NHL66988.1	lactonase family protein	0.0118306
NHL67206.1	adenylate kinase	0.0111675
NHL66125.1	SDR family oxidoreductase	0.0110836
NHL65775.1	D-glycerate dehydrogenase	0.00926526
NHL66016.1	NADPH:quinone oxidoreductase family protein	0.00875473
NHL67834.1	arsenate reductase (glutaredoxin)	0.00847371
NHL66665.1	acyl-ACP-UDP-N-acetylglucosamine O-acyltransferase	0.00709597
NHL66785.1	iron-sulfur cluster assembly protein IscA	0.0066452

NHL66525.1	DegT/DnrJ/EryC1/Str5 aminotransferase family protein	0.00524584	
NHL65155.1	RHS repeat protein	0.00345039	
NHL66735.1	tRNA lysidine(34) synthetase TlIS	0.00330162	
NHL66554.1	hypothetical protein EIB72_09160	0.00318782	
NHL67011.1	VOC family protein	0.00125821	
NHL69966.1	alkene reductase	0.000808716	
NHL64808.1	ergothioneine biosynthesis protein EgtB	0	
NHL64845.1	type II secretion system secretin GspD	0	
NHL64900.1	ABC transporter substrate-binding protein	0	
NHL64951.1	flagellin	0	
NHL64965.1	chemotaxis protein CheW	0	
NHL64980.1	RNA polymerase sigma factor FlIA	0	
NHL64993.1	exonuclease	0	
NHL65036.1	DUF1835 domain-containing protein	0	
NHL65109.1	OmpW family protein	0	
NHL65125.1	STAS domain-containing protein	0	
NHL65214.1	cysteine hydrolase	0	
NHL65238.1	murein transglycosylase	0	
NHL65239.1	phenylacetate--CoA ligase	0	
NHL65308.1	UDP-N-acetylmuramate--alanine ligase	0	
NHL65329.1	thiamine-phosphate kinase	0	
NHL65363.1	LysR family transcriptional regulator	0	
NHL65468.1	hypothetical protein EIB72_03540	0	
NHL65488.1	glycosyltransferase family 1 protein	0	
NHL65496.1	tol-pal system-associated acyl-CoA thioesterase	0	
NHL65648.1	DUF2164 domain-containing protein	0	
NHL65701.1	FAD-binding monooxygenase	0	
NHL65702.1	formate dehydrogenase subunit delta	0	
NHL65777.1	GNAT family N-acetyltransferase	0	
NHL65791.1	phosphate acyltransferase PlsX	0	
NHL65822.1	type I methionyl aminopeptidase	0	
NHL65870.1	alpha/beta hydrolase	0	
NHL65875.1	Rrf2 family transcriptional regulator	0	
NHL65905.1	substrate-binding domain-containing protein	0	
NHL65982.1	AMP-binding protein	0	
NHL65983.1	peptidoglycan DD-metalloendopeptidase family protein	0	
NHL66009.1	ABC transporter substrate-binding protein	0	
NHL66044.1	cellulose synthase operon protein YhjQ	0	
NHL66067.1	CoA transferase	0	
NHL66118.1	MFS transporter	0	
NHL66151.1	hypothetical protein EIB72_07100	0	
NHL66162.1	tRNA pseudouridine(55) synthase TruB	0	
NHL66166.1	MarR family transcriptional regulator	0	
NHL66241.1	Paal family thioesterase	0	
NHL66271.1	ABC transporter substrate-binding protein	0	
NHL66276.1	MexX/AxyX family multidrug efflux RND transporter periplasmic adaptor subunit	0	
NHL66302.1	hypothetical protein EIB72_07880	0	
NHL66307.1	uroporphyrinogen-III C-methyltransferase	0	
NHL66341.1	extracellular solute-binding protein	0	
NHL66346.1	ABC transporter substrate-binding protein	0	
NHL66347.1	response regulator	0	
NHL66348.1	EAL domain-containing protein	0	
NHL66361.1	MarR family transcriptional regulator	0	
NHL66362.1	GNAT family N-acetyltransferase	0	
NHL66448.1	hypothetical protein EIB72_08620	0	
NHL66492.1	recombination protein RecR	0	
NHL66514.1	Rrf2 family transcriptional regulator	0	
NHL66538.1	primosomal replication protein N	0	
NHL66547.1	asparaginase	0	
NHL66548.1	phosphate starvation-inducible protein PsIF	0	
NHL66619.1	threonine/serine dehydratase	0	
NHL66655.1	RnfH family protein	0	
NHL66706.1	universal stress protein	0	
NHL66710.1	gamma-glutamylcyclotransferase	0	
NHL66763.1	ferritin-like domain-containing protein	0	
NHL66809.1	PAS domain-containing sensor histidine kinase	0	
NHL66867.1	MotA/ToIQ/ExbB proton channel family protein	0	
NHL66870.1	pirin family protein	0	
NHL66884.1	Cu(I)-responsive transcriptional regulator	0	
NHL66886.1	response regulator transcription factor	0	
NHL66897.1	MaoC family dehydratase	0	
NHL66992.1	electron transport complex subunit RxB	0	
NHL66993.1	endonuclease III	0	
NHL67010.1	PLP-dependent aminotransferase family protein	0	
NHL67016.1	PhzF family phenazine biosynthesis protein	0	
NHL67066.1	N-acetyltransferase	0	
NHL67079.1	helix-turn-helix domain-containing protein	0	
NHL67118.1	prolipoprotein diacylglycerol transferase	0	
NHL67181.1	pseudouridine synthase	0	
NHL67245.1	sugar-binding transcriptional regulator	0	
NHL67272.1	DUF427 domain-containing protein	0	
NHL67279.1	acylhydrolase	0	
NHL67294.1	DUF2946 family protein	0	
NHL67307.1	DUF2889 domain-containing protein	0	
NHL67429.1	MMPL family transporter	0	
NHL67462.1	bifunctional DNA-formamidopyrimidine glycosylase/DNA-(apurinic or apyrimidinic site) lyase	0	
NHL67507.1	cytochrome c oxidase subunit I	0	
NHL67512.1	tRNA (uridine(34)/cytosine(34)/5-carboxymethylaminomethyluridine(34)-2-O)-methyltransferase	0	
NHL67527.1	P-II family nitrogen regulator	0	
NHL67532.1	sigma-54-dependent Fis family transcriptional regulator	0	
NHL67617.1	YbaK/EbsC family protein	0	
NHL67630.1;NHL66200.1	carbohydrate kinase	0	
NHL67633.1	class I SAM-dependent methyltransferase	0	
NHL67634.1	SDR family oxidoreductase	0	
NHL67689.1	5-formyltetrahydrofolate cyclo-ligase	0	
NHL67693.1	5-oxoprolinase subunit PxpA	0	
NHL67704.1	hypothetical protein EIB72_15075	0	
NHL67761.1	M48 family metallopeptidase	0	

NHL67841.1	DUF2471 domain-containing protein	0
NHL67887.1	SDR family oxidoreductase	0
NHL67949.1	LysR family transcriptional regulator	0
NHL68004.1	two-component system response regulator	0
NHL68023.1	DUF3422 domain-containing protein	0
NHL68099.1	FAD-binding oxidoreductase	0
NHL68183.1	hypothetical protein EIB72_17530	0
NHL68245.1	hypothetical protein EIB72_17840	0
NHL68359.1	type VI secretion system baseplate subunit TssF	0
NHL68379.1	methyl-accepting chemotaxis protein	0
NHL68398.1	hypothetical protein EIB72_18630	0
NHL68410.1	mannose-1-phosphate guanylyltransferase/mannose-6-phosphate isomerase	0
NHL68412.1	UDP-glucose/GDP-mannose dehydrogenase family protein	0
NHL68428.1	DUF2384 domain-containing protein	0
NHL68754.1	glycoside hydrolase family 31 protein	0
NHL68774.1	DEAD/DEAH box helicase	0
NHL68780.1	beta-ketoacyl synthase chain length factor	0
NHL68793.1	3-oxoacyl-ACP reductase FabG	0
NHL68882.1	LacI family DNA-binding transcriptional regulator	0
NHL68975.1	helix-turn-helix domain-containing protein	0
NHL68996.1	TetR/AcrR family transcriptional regulator	0
NHL69061.1	translation initiation factor IF-1	0
NHL69144.1	porin	0
NHL69168.1	D-alanyl-D-alanine endopeptidase	0
NHL69351.1	carbamate kinase	0
NHL69359.1	amidase	0
NHL69389.1	FUSC family protein	0
NHL69426.1	amidohydrolase family protein	0
NHL69457.1	dihydrodipicolinate reductase	0
NHL69463.1	entericidin A/B family lipoprotein	0
NHL69488.1	xanthine dehydrogenase family protein molybdopterin-binding subunit	0
NHL69538.1	lysozyme	0
NHL69574.1	rhodanese-like domain-containing protein	0
NHL69670.1	FAD-binding oxidoreductase	0
NHL69718.1	autoinducer 2 ABC transporter substrate-binding protein	0
NHL69721.1	glycine betaine ABC transporter substrate-binding protein	0
NHL69769.1	2-hydroxyacid dehydrogenase	0
NHL69774.1	lytic transglycosylase domain-containing protein	0
NHL69836.1	mannitol dehydrogenase family protein	0
NHL69848.1	FMN-binding negative transcriptional regulator	0
NHL69902.1	shikimate dehydrogenase	0
NHL69932.1	DUF3579 domain-containing protein	0
NHL70005.1	peroxidase-related enzyme	0
NHL70013.1	2,5-didehydrogluconate reductase DkgB	0
NHL70055.1	TetR/AcrR family transcriptional regulator	0
NHL70065.1	2-hydroxychromene-2-carboxylate isomerase	0
NHL70112.1	thioredoxin family protein	0
NHL70128.1	acylphosphatase	0
NHL70141.1	DOPA 4,5-dioxygenase family protein	0
NHL70208.1	response regulator transcription factor	0
NHL70233.1	LysR family transcriptional regulator	0
NHL70235.1	Re/Si-specific NAD(P)(+) transhydrogenase subunit alpha	0
NHL70279.1	helix-turn-helix transcriptional regulator	0
NHL70335.1	response regulator transcription factor	0
NHL70374.1	helix-turn-helix transcriptional regulator	0
NHL70397.1;NHL70401.1	DUF1348 family protein	0
NHL70505.1	thioesterase	0
NHL70526.1	hypothetical protein EIB72_29565	0
NHL70565.1	hypothetical protein EIB72_29780	0
NHL70725.1	hypothetical protein EIB72_30580	0
NHL70740.1	D-xylose ABC transporter ATP-binding protein	0
NHL70768.1	amidohydrolase	0
NHL70841.1	oxidoreductase	0
NHL70926.1	LysR family transcriptional regulator	0
NHL70950.1	TauD/TfdA family dioxygenase	0
NHL70994.1	catechol 1,2-dioxygenase	0
NHL71008.1	DUF2591 family protein	0
NHL71021.1	phosphatidylserine decarboxylase family protein	0
NHL71024.1	type 1 glutamine amidotransferase	0
NHL71108.1	molybdopterin molybdotransferase MoeA	0
NHL71172.1	TetR family transcriptional regulator	0
NHL71174.1	molybdopterin-dependent oxidoreductase	0
NHL68566.1;REV_NHL68566.1	sporulation protein	-1.84E-05
NHL67670.1	flagellar brake protein	-0.00150108
NHL67597.1	glutathione S-transferase	-0.00321325
NHL69884.1	5-methyltetrahydropteroyltrimethylglutamate--homocysteine S-methyltransferase	-0.00619062
NHL67765.1	polyphosphate kinase 2 family protein	-0.00623067
NHL66910.1	NADH-quinone oxidoreductase subunit NuoF	-0.0068442
NHL69556.1	N-acetylmuramoyl-L-alanine amidase	-0.00727336
NHL70888.1	AMP-binding protein	-0.00891622
NHL69790.1	SDR family oxidoreductase	-0.00925255
NHL65173.1	type VI secretion system baseplate subunit TssK	-0.0100047
NHL66996.1	cytochrome c	-0.0104968
NHL66797.1	dihydrolipoyllysine-residue acetyltransferase	-0.0105515
NHL65303.1	50S ribosomal protein L11 methyltransferase	-0.0108185
NHL65805.1	ribonuclease III	-0.0110137
NHL66919.1	polyribonucleotide nucleotidyltransferase	-0.0115636
NHL67299.1	glycosyl hydrolase	-0.0135746
NHL65268.1	bifunctional glutamate N-acetyltransferase/amino-acid acetyltransferase ArgJ	-0.0138022
NHL69049.1	threo-3-hydroxy-L-aspartate ammonia-lyase	-0.0139701
NHL67886.1	serine acetyltransferase	-0.0145976
NHL65000.1	c-type cytochrome	-0.0160516
NHL65521.1	LysR family transcriptional regulator	-0.0162309
NHL67858.1	siderophore-interacting protein	-0.0180047
NHL67156.1	4-hydroxy-3-methylbut-2-enyl diphosphate reductase	-0.018638
NHL70758.1	ABC transporter substrate-binding protein	-0.0188039
NHL65079.1	translation initiation factor IF-1	-0.0189355
NHL65436.1	NAD kinase	-0.0198275

NHL69664.1	type VI secretion system tip protein VgrG	-0.0198797
NHL65831.1	alpha,alpha-trehalose-phosphate synthase (UDP-forming)	-0.0203603
NHL65118.1	thiazole synthase	-0.0223554
NHL65325.1	orotidine-5-phosphate decarboxylase	-0.0230948
NHL65025.1	N-acetyl-gamma-glutamyl-phosphate reductase	-0.0235551
NHL70668.1	lipase	-0.0245266
NHL66535.1	replicative DNA helicase	-0.0250435
NHL66616.1	2-C-methyl-D-erythritol 4-phosphate cytidyltransferase	-0.0264702
NHL65868.1	IcIR family transcriptional regulator	-0.0265942
NHL66690.1	50S ribosomal protein L3 (N5)-glutamine methyltransferase	-0.027689
NHL65183.1	type VI secretion system protein TssA	-0.0280043
NHL66810.1	type I glutamate-ammonia ligase	-0.0298773
NHL64875.1	tRNA uridine-5-carboxymethylaminomethyl(34) synthesis enzyme MnmG	-0.0306358
NHL67789.1	DNA topoisomerase III	-0.0309989
NHL66558.1	dTMP kinase	-0.0313104
NHL69991.1	Tetr/AcrR family transcriptional regulator	-0.0316188
NHL66756.1	4-hydroxy-tetrahydrodipicolinate synthase	-0.0317205
NHL66480.1	DUF4115 domain-containing protein	-0.0320352
NHL65188.1	type VI secretion system-associated protein TagF	-0.0333443
NHL67370.1	4-hydroxythreonine-4-phosphate dehydrogenase PdxA	-0.0339457
NHL64829.1	LysR family transcriptional regulator	-0.0340405
NHL65421.1	YggS family pyridoxal phosphate-dependent enzyme	-0.0365473
NHL67286.1	phosphoglycerate kinase	-0.0375341
NHL67548.1	D-amino acid aminotransferase	-0.0383968
NHL66816.1	ATP-dependent RNA helicase HrpA	-0.0391998
NHL65764.1	RNA-binding S4 domain-containing protein	-0.0397441
NHL67055.1	periplasmic heavy metal sensor	-0.0400244
NHL66447.1	cystathionine beta-lyase	-0.0417811
NHL66267.1	Yeah/YhbH family protein	-0.0419706
NHL66436.1	hypothetical protein EIB72_08560	-0.0424276
NHL65246.1	long-chain fatty acid-CoA ligase	-0.0428619
NHL65757.1	thymidylate synthase	-0.043642
NHL70058.1	SRPBCC family protein	-0.0440362
NHL66676.1	elongation factor Ts	-0.0448036
NHL65948.1	ribonuclease HI	-0.0448074
NHL65724.1	D-glycero-beta-D-manno-heptose-7-phosphate kinase	-0.0454795
NHL67519.1	S41 family peptidase	-0.0459747
NHL66760.1	threonylcarbamoyl-AMP synthase	-0.0464001
NHL69316.1	SDR family oxidoreductase	-0.0467682
NHL65560.1	dTDP-glucose 4,6-dehydratase	-0.0469125
NHL65373.1	OsmC family protein	-0.047212
NHL66818.1	oxidative damage protection protein	-0.047397
NHL65813.1	elongation factor P maturation arginine rhamnosyltransferase EarP	-0.0475038
NHL70970.1	GNAT family N-acetyltransferase	-0.0476322
NHL65389.1	UbiH/UbiF/VisC/COQ6 family ubiquinone biosynthesis hydroxylase	-0.0492859
NHL68957.1	universal stress protein	-0.0521768
NHL71119.1;NHL67781.1	DUF4132 domain-containing protein	-0.052927
NHL65491.1	peptidoglycan-associated lipoprotein Pal	-0.053257
NHL69130.1	pyrimidine/purine nucleoside phosphorylase	-0.0534611
NHL65135.1	imidazole glycerol phosphate synthase subunit HisH	-0.0551135
NHL67090.1	iron-sulfur cluster carrier protein AppC	-0.0554167
NHL67836.1	AAA family ATPase	-0.0576178
NHL67329.1	c-type cytochrome	-0.0579274
NHL67076.1	hydroxymethylbilane synthase	-0.0604769
NHL69915.1	hypothetical protein EIB72_26430	-0.0609926
NHL65635.1	bifunctional transcriptional regulator/glucokinase	-0.063268
NHL66539.1	30S ribosomal protein S6	-0.0638371
NHL66972.1	RcnB family protein	-0.0640729
NHL67163.1	quinolinate synthase NadA	-0.0651099
NHL69823.1	isovaleryl-CoA dehydrogenase	-0.0664934
NHL65466.1	glycosyltransferase	-0.0668659
NHL66126.1	acyl-CoA thioesterase	-0.067009
NHL71120.1	ATP-dependent Clp protease ATP-binding subunit	-0.0671374
NHL67441.1	single-stranded DNA-binding protein	-0.0673618
NHL67150.1	YukJ family protein	-0.0676702
NHL65728.1	lytic murein transglycosylase B	-0.0689437
NHL70537.1	H-NS histone family protein	-0.0692997
NHL65406.1	Ycel family protein	-0.0729733
NHL68554.1	3-isopropylmalate dehydrogenase small subunit	-0.0754662
NHL67508.1	cytochrome c oxidase subunit II	-0.0763454
NHL67825.1	DNA polymerase III subunit beta	-0.0766017
NHL70151.1	SDR family oxidoreductase	-0.0774905
NHL65053.1	30S ribosomal protein S12	-0.0775286
NHL67014.1	PLP-dependent aminotransferase family protein	-0.0777016
NHL66095.1	response regulator transcription factor	-0.0782077
NHL65449.1	polynucleotide adenyltransferase PcnB	-0.0799115
NHL65598.1	sulfurtransferase	-0.0802816
NHL65670.1	bifunctional (p)ppGpp synthetase/guanosine-3,5-bis(diphosphate) 3-pyrophosphohydrolase	-0.0803413
NHL68979.1	4-hydroxyphenylpyruvate dioxygenase	-0.0805162
NHL65793.1	ACP S-malonyltransferase	-0.0806891
NHL65792.1	ketoacyl-ACP synthase III	-0.0821114
NHL65056.1;NHL65043.1	elongation factor Tu	-0.082798
NHL66594.1	ATP-dependent Clp protease ATP-binding subunit ClpX	-0.0832609
NHL66528.1	bifunctional UDP-4-keto-pentose/UDP-xylose synthase	-0.0836646
NHL69866.1	aldehyde dehydrogenase family protein	-0.0853151
NHL70377.1	alpha/beta hydrolase	-0.0859636
NHL65712.1	DNA gyrase subunit A	-0.0867106
NHL65748.1	ribosome small subunit-dependent GTPase A	-0.088953
NHL65189.1	type VI secretion system membrane subunit TssM	-0.0893822
NHL68760.1	glutathione ABC transporter substrate-binding protein GsiB	-0.0907307
NHL71012.1	glycogen debranching protein GlgX	-0.0914815
NHL70184.1	arabinose ABC transporter substrate-binding protein	-0.0922629
NHL67578.1	ABC transporter substrate-binding protein	-0.0927162
NHL65415.1	hydrogen peroxide-inducible genes activator	-0.0936546
NHL69146.1	c-type cytochrome	-0.0939649
NHL69808.1	NIPSNAP family protein	-0.0942453
NHL70884.1	amino acid adenylation domain-containing protein	-0.0952619
NHL67819.1	helix-turn-helix transcriptional regulator	-0.095705

NHL66064.1	glutamine-tRNA ligase/YqeY domain fusion protein	-0.0958576
NHL66975.1	glycosyltransferase	-0.0962613
NHL66460.1	RluA family pseudouridine synthase	-0.0970014
NHL66957.1	SDR family oxidoreductase	-0.0978305
NHL65794.1	3-oxoacyl-ACP reductase FabG	-0.0983868
NHL66660.1	phosphoenolpyruvate synthase	-0.0990766
NHL66737.1	DNA-3-methyladenine glycosylase 2 family protein	-0.101375
NHL65216.1	energy-dependent translational throttle protein EttA	-0.10151
NHL65714.1	3-phosphoserine/phosphohydroxythreonine transaminase	-0.102146
NHL70407.1	organic hydroperoxide resistance protein	-0.104961
NHL70166.1	GNAT family N-acetyltransferase	-0.105748
NHL66248.1	hypothetical protein EIB72_07610	-0.105792
NHL70510.1	nitroreductase	-0.105853
NHL65075.1	30S ribosomal protein S5	-0.107838
NHL67599.1	sulfate ABC transporter substrate-binding protein	-0.108541
NHL65783.1	RluA family pseudouridine synthase	-0.108664
NHL67309.1	recombinase RecA	-0.109104
NHL66473.1	GTPase HflX	-0.110157
NHL66745.1	inositol monophosphatase	-0.110869
NHL67459.1	RNase adapter RapZ	-0.111031
NHL67510.1	methyltransferase domain-containing protein	-0.111197
NHL65336.1	transketolase	-0.111476
NHL67727.1	hypothetical protein EIB72_15190	-0.112108
NHL67087.1	arginine/lysine/ornithine decarboxylase	-0.112627
NHL65718.1	(d)CMP kinase	-0.114824
NHL65654.1	septum site-determining protein MinD	-0.116282
NHL67035.1	CDP-glucose 4,6-dehydratase	-0.116456
NHL67725.1	coniferyl aldehyde dehydrogenase	-0.116613
NHL65407.1	polyisoprenoid-binding protein	-0.117409
NHL65055.1	elongation factor G	-0.118083
NHL65182.1	type VI secretion system ATPase TssH	-0.11942
NHL66959.1	YebC/PmpR family DNA-binding transcriptional regulator	-0.119958
NHL65884.1	exodeoxyribonuclease V subunit gamma	-0.120183
NHL65800.1	sugar dehydratase	-0.120702
NHL65855.1	succinylglutamate-semialdehyde dehydrogenase	-0.125216
NHL67747.1	response regulator transcription factor	-0.12662
NHL68883.1	type 1 glutamine amidotransferase domain-containing protein	-0.127749
NHL65935.1	biotin-independent malonate decarboxylase subunit beta	-0.128668
NHL67285.1	pyruvate kinase	-0.130292
NHL67750.1	acetylglutamate kinase	-0.130919
NHL66746.1	NAD(P)/FAD-dependent oxidoreductase	-0.132365
NHL65288.1	hypoxanthine-guanine phosphoribosyltransferase	-0.132964
NHL67859.1	PadR family transcriptional regulator	-0.133015
NHL68581.1	DNA-binding protein	-0.133935
NHL67162.1	carboxylating nicotinate-nucleotide diphosphorylase	-0.134825
NHL66534.1	DUF47 domain-containing protein	-0.134965
NHL67443.1	excinuclease ABC subunit UvrA	-0.135497
NHL68463.1	polyprenyl synthetase family protein	-0.135658
NHL68560.1	phosphoribosylanthranilate isomerase	-0.136265
NHL66920.1	30S ribosomal protein S15	-0.136612
NHL68231.1	phosphoesterase	-0.137745
NHL69262.1	SagB/TtcOx family dehydrogenase	-0.138092
NHL65300.1	carbohydrate kinase family protein	-0.138346
NHL65570.1	NAD-dependent epimerase/dehydratase family protein	-0.140228
NHL66664.1	lipid-A-disaccharide synthase	-0.140938
NHL67354.1	tRNA (N6-isopentenyl adenosine(37)-C2)-methyltransferase MiaB	-0.141951
NHL66213.1	cystine ABC transporter substrate-binding protein	-0.142529
NHL69770.1	ABC transporter substrate-binding protein	-0.145258
NHL65393.1	tRNA 2-thiouridine(34) synthase MnmA	-0.147771
NHL70791.1	GntR family transcriptional regulator	-0.148244
NHL65469.1	heparinase	-0.149179
NHL65337.1	type I glyceraldehyde-3-phosphate dehydrogenase	-0.152455
NHL66139.1	50S ribosomal protein L35	-0.152598
NHL68588.1	formate dehydrogenase accessory protein FdhE	-0.153411
NHL67758.1	homoserine O-acetyltransferase	-0.153828
NHL64851.1	glutamate-cysteine ligase	-0.154218
NHL67050.1;NHL69416.1	ATP-binding cassette domain-containing protein	-0.154239
NHL66449.1	sugar kinase	-0.154364
NHL67393.1	sterol-binding protein	-0.15458
NHL69481.1	2-dehydropanoate 2-reductase	-0.155965
NHL70751.1	NAD-dependent succinate-semialdehyde dehydrogenase	-0.156131
NHL65372.1	dihydroorotase	-0.157052
NHL67777.1	7-carboxy-7-deazaguanine synthase	-0.157084
NHL66482.1	nucleoside-diphosphate kinase	-0.158145
NHL67837.1	ParB/RepB/Spo0I family partition protein	-0.159207
NHL65717.1	3-phosphoshikimate 1-carboxyvinyltransferase	-0.161276
NHL65626.1	transcription antitermination factor NusB	-0.161799
NHL65742.1	ribosome maturation factor RimM	-0.162296
NHL65077.1	50S ribosomal protein L15	-0.163485
NHL66496.1	transcription termination factor Rho	-0.163786
NHL68692.1	branched-chain amino acid ABC transporter substrate-binding protein	-0.16385
NHL65437.1	heat-inducible transcriptional repressor HrcA	-0.164454
NHL67369.1	16S rRNA (adenine(1518)-N(6)/adenine(1519)-N(6))-dimethyltransferase RsmA	-0.165136
NHL69825.1	winged helix-turn-helix transcriptional regulator	-0.167439
NHL66682.1	NAD-dependent DNA ligase LigA	-0.168954
NHL66684.1	chromosome segregation protein SMC	-0.169187
NHL67767.1	Asp-tRNA(Asn)/Glu-tRNA(Gln) amidotransferase subunit GatA	-0.169273
NHL66621.1	PspA/IM30 family protein	-0.169282
NHL64885.1	FOF1 ATP synthase subunit alpha	-0.170041
NHL66519.1	threonine synthase	-0.170361
NHL67395.1	bifunctional demethylmenaquinone methyltransferase/2-methoxy-6-polyprenyl-1,4-benzoquinol methylase	-0.170732
NHL67437.1	acetyl-CoA C-acetyltransferase	-0.17081
NHL65083.1	30S ribosomal protein S4	-0.170811
NHL66875.1	cupredoxin domain-containing protein	-0.170956
NHL67222.1	AMIN domain-containing protein	-0.173206
NHL65567.1	methyltransferase domain-containing protein	-0.17758
NHL67445.1	formyltetrahydrofolate deformylase	-0.178537
NHL66600.1	2-dehydropanoate 2-reductase	-0.179139

NHL68471.1	DNA primase	-0.181815	
NHL67117.1	SIMPL domain-containing protein	-0.182507	
NHL66481.1	23S rRNA (adenine(2503)-C(2))-methyltransferase RlmN	-0.182704	
NHL65054.1	30S ribosomal protein S7	-0.183472	
NHL68563.1	tryptophan synthase subunit alpha	-0.183908	
NHL67300.1	hypothetical protein EIB72_13045	-0.185538	
NHL66862.1	fumarate hydratase	-0.185989	
NHL67036.1	glucose-1-phosphate cytidyltransferase	-0.186227	
NHL67070.1	inorganic diphosphatase	-0.186334	
NHL65715.1	prephenate dehydratase	-0.186772	
NHL65578.1	UDP-glucose 4-epimerase GalE	-0.186802	
NHL68976.1	hypothetical protein EIB72_21545	-0.187468	
NHL71009.1	DUF3416 domain-containing protein	-0.187719	
NHL65425.1	FAD-binding protein	-0.188808	
NHL66990.1	polyhydroxyalkanoate depolymerase	-0.188231	
NHL67488.1	N-acetylglucosamine-6-phosphate deacetylase	-0.188247	
NHL66793.1	lclR family transcriptional regulator	-0.1883	
NHL65102.1	3-dehydroquinate synthase	-0.189056	
NHL67786.1	peptide deformylase	-0.18926	
NHL66989.1	glycoside hydrolase family 15 protein	-0.189723	
NHL70601.1	alpha/beta fold hydrolase	-0.190464	
NHL65381.1	histidine phosphatase family protein	-0.1906	
NHL68726.1	2OG-Fe(II) oxygenase	-0.190867	
NHL65082.1	30S ribosomal protein S11	-0.191713	
NHL67572.1	methionine synthase	-0.193154	
NHL67281.1	5-(carboxyamino)imidazole ribonucleotide synthase	-0.193551	
NHL65470.1	N-acetyltransferase	-0.19375	
NHL67790.1	LysR family transcriptional regulator	-0.194194	
NHL68392.1	helix-turn-helix domain-containing protein	-0.194379	
NHL67009.1	molecular chaperone HtpG	-0.195518	
NHL67034.1	lipopolysaccharide biosynthesis protein RfbH	-0.196146	
NHL69331.1	MerR family transcriptional regulator	-0.197034	
NHL67378.1	acyl-CoA thioesterase	-0.197124	
NHL66572.1	LysR family transcriptional regulator	-0.198355	
NHL65360.1	TetR family transcriptional regulator	-0.198493	
NHL68159.1	DUF2760 domain-containing protein	-0.198635	
NHL65465.1	UDP-N-acetyl-D-mannosamine dehydrogenase	-0.201007	
NHL66596.1	trigger factor	-0.201137	
NHL66668.1	OmpH family outer membrane protein	-0.201417	
NHL65197.1	SAM-dependent methyltransferase	-0.203548	
NHL66555.1	ankyrin repeat domain-containing protein	-0.203638	
NHL68569.1	O-succinylhomoserine sulfhydrylase	-0.205428	
NHL67212.1	ornithine carbamoyltransferase	-0.209814	
NHL67843.1	glycine C-acetyltransferase	-0.210021	
NHL67559.1	biotin-[acetyl-CoA-carboxylase] ligase	-0.210318	
NHL66768.1	phosphopyruvate hydratase	-0.21092	
NHL67355.1	PhoH family protein	-0.211068	
NHL64964.1	chemotaxis protein CheA	-0.211258	
NHL68557.1	aspartate-semialdehyde dehydrogenase	-0.211578	
NHL68445.1	molybdate ABC transporter substrate-binding protein	-0.212179	
NHL67148.1	acetylornithine transaminase	-0.213825	
NHL65002.1	hypothetical protein EIB72_01090	-0.213899	
NHL68077.1	glutamine-fructose-6-phosphate transaminase (isomerizing)	-0.21508	
NHL68854.1	quinone oxidoreductase	-0.215569	
NHL64877.1	ParA family protein	-0.215737	
NHL64983.1	methylenetetrahydrofolate reductase	-0.216063	
NHL66593.1	endopeptidase La	-0.216422	
NHL70654.1	excinuclease ABC subunit UvrA	-0.219563	
NHL68250.1	NAD(P)H-dependent oxidoreductase	-0.219778	
NHL67179.1	NADP-dependent isocitrate dehydrogenase	-0.22027	+
NHL65751.1	molybdopterin adenyltransferase	-0.221906	
NHL66560.1	folate-binding protein YgfZ	-0.222291	
NHL65667.1	YicC family protein	-0.224251	
NHL64981.1	adenosylhomocysteinase	-0.224635	
NHL65050.1	DNA-directed RNA polymerase subunit beta	-0.225089	
NHL65723.1	UDP-glucose/GDP-mannose dehydrogenase family protein	-0.226643	
NHL65971.1	exopolyphosphatase	-0.228615	
NHL65692.1	adenosine deaminase	-0.22982	
NHL66380.1	hypothetical protein EIB72_08270	-0.230023	
NHL67785.1	methionyl-tRNA formyltransferase	-0.231031	
NHL70450.1	replication initiation protein	-0.231728	
NHL70800.1	H-NS histone family protein	-0.231991	
NHL66739.1	tetratricopeptide repeat protein	-0.233052	
NHL69809.1	NAD(P)H-dependent oxidoreductase	-0.23339	
NHL65081.1	30S ribosomal protein S13	-0.23347	
NHL66479.1	flavodoxin-dependent (E)-4-hydroxy-3-methylbut-2-enyl-diphosphate synthase	-0.233542	
NHL68997.1	NADP-dependent oxidoreductase	-0.233751	
NHL66585.1	N-acetyltransferase	-0.234076	
NHL67999.1	DUF2322 family protein	-0.234189	
NHL66674.1	ribosome recycling factor	-0.236034	
NHL65229.1	uracil-DNA glycosylase	-0.237209	
NHL66531.1	PhoH family protein	-0.237736	
NHL65892.1	phosphomethylpyrimidine synthase ThiC	-0.23819	+
NHL65085.1	50S ribosomal protein L17	-0.238324	
NHL66778.1	peptide chain release factor 2	-0.240547	+
NHL66159.1	transcription termination/antitermination protein NusA	-0.240817	
NHL67458.1	HPr kinase/phosphorylase	-0.242103	
NHL68950.1	proline racemase family protein	-0.242598	
NHL65378.1	anhydro-N-acetylmuramic acid kinase	-0.242772	
NHL66757.1	class I SAM-dependent methyltransferase	-0.242837	
NHL64861.1	Lrp/AsnC family transcriptional regulator	-0.243217	
NHL66475.1	ribosome biogenesis GTPase Der	-0.245165	
NHL66255.1	sulfate ABC transporter substrate-binding protein	-0.24641	
NHL67744.1	RNA polymerase-binding protein DksA	-0.249939	
NHL65375.1	50S ribosomal protein L13	-0.250902	
NHL66786.1	Fe-S cluster assembly scaffold IscU	-0.251918	
NHL67133.1	nitrite/sulfite reductase	-0.252502	
NHL67466.1	ribose-phosphate pyrophosphokinase	-0.255229	

NHL65345.1	ferric iron uptake transcriptional regulator	-0.255882	
NHL68568.1	amidophosphoribosyltransferase	-0.256269	
NHL69869.1	TetR/AcrR family transcriptional regulator	-0.257278	
NHL65561.1	glucose-1-phosphate thymidyltransferase RfbA	-0.259172	
NHL66928.1	ketol-acid reductoisomerase	-0.259277	
NHL68460.1	sulfurtransferase	-0.260408	
NHL67768.1	Asp-tRNA(Asn)/Glu-tRNA(Gln) amidotransferase subunit GatC	-0.26059	
NHL65733.1	MetQ/NlpA family ABC transporter substrate-binding protein	-0.261204	
NHL64886.1	FOF1 ATP synthase subunit gamma	-0.262881	
NHL65467.1	heparinase	-0.264617	
NHL71023.1	DUF1488 domain-containing protein	-0.265875	
NHL67265.1	efflux transporter outer membrane subunit	-0.265993	
NHL66686.1	succinyldiaminopimelate transaminase	-0.270065	
NHL68093.1	CsbD family protein	-0.270363	
NHL67383.1	3-hydroxyacyl-CoA dehydrogenase/enoyl-CoA hydratase family protein	-0.271605	
NHL66787.1	IscS subfamily cysteine desulfurase	-0.272646	
NHL64923.1	L-serine ammonia-lyase	-0.274045	
NHL68949.1	branched-chain amino acid ABC transporter substrate-binding protein	-0.275241	
NHL65713.1	DUF2059 domain-containing protein	-0.275777	
NHL66740.1	peptidyl-prolyl cis-trans isomerase	-0.276576	
NHL66228.1	tRNA dihydrouridine(20/20a) synthase DusA	-0.276814	+
NHL67092.1	methionine-tRNA ligase	-0.277174	+
NHL66191.1	RNA chaperone Hfq	-0.27739	
NHL66912.1	NADH-quinone oxidoreductase subunit D	-0.277828	
NHL65568.1	glycosyltransferase	-0.278547	
NHL69251.1;NHL68986.1	universal stress protein	-0.279622	
NHL67521.1	phosphoenolpyruvate-protein phosphotransferase	-0.281485	
NHL70150.1	DUF480 domain-containing protein	-0.282502	
NHL70560.1	hypothetical protein EIB72_29755	-0.284754	
NHL65074.1	50S ribosomal protein L18	-0.28586	
NHL67382.1	acetyl-CoA C-acyltransferase	-0.286053	
NHL66669.1	outer membrane protein assembly factor BamA	-0.286256	
NHL68122.1	chaperonin GroEL	-0.287831	
NHL65675.1	DNA polymerase III subunit epsilon	-0.287868	
NHL67187.1	GntR family transcriptional regulator	-0.288022	+
NHL68185.1	putative addiction module antidote protein	-0.289434	
NHL70133.1	hypothetical protein EIB72_27525	-0.28945	
NHL68457.1	DNA polymerase I	-0.289755	
NHL65391.1	glutathione S-transferase	-0.289805	
NHL70372.1	hypothetical protein EIB72_28750	-0.289892	
NHL66878.1	aspartate/tyrosine/aromatic aminotransferase	-0.29052	+
NHL66801.1	bifunctional methylenetetrahydrofolate dehydrogenase/methylenetetrahydrofolate cyclohydrolase	-0.291194	
NHL66921.1	branched-chain amino acid ABC transporter substrate-binding protein	-0.291665	
NHL65719.1	30S ribosomal protein S1	-0.2929	+
NHL67371.1	molecular chaperone SurA	-0.292988	
NHL66863.1	bacterioferritin	-0.293562	
NHL70672.1	DUF3696 domain-containing protein	-0.295039	
NHL67167.1	phosphoribosylglycinamide formyltransferase	-0.297091	
NHL67583.1	carbonate dehydratase	-0.297619	
NHL65237.1	Co2+/Mg2+ efflux protein ApaG	-0.297838	
NHL65138.1	phosphoribosyl-AMP cyclohydrolase	-0.298542	
NHL70718.1	S-(hydroxymethyl)glutathione dehydrogenase/class III alcohol dehydrogenase	-0.299007	
NHL65646.1	outer membrane lipoprotein chaperone LolA	-0.300199	
NHL66066.1	alpha/beta hydrolase	-0.302396	
NHL65811.1	sigma-54-dependent Fis family transcriptional regulator	-0.3034	
NHL65129.1	UDP-N-acetylglucosamine 1-carboxyvinyltransferase	-0.303972	
NHL65072.1	30S ribosomal protein S8	-0.304959	
NHL68375.1	acetolactate synthase large subunit	-0.305929	
NHL65262.1	cell division protein FtsA	-0.306081	
NHL65312.1	shikimate dehydrogenase	-0.306697	
NHL67144.1	16S rRNA pseudouridine(516) synthase	-0.307943	+
NHL65376.1	30S ribosomal protein S9	-0.30817	
NHL64888.1	FOF1 ATP synthase subunit epsilon	-0.309828	
NHL70670.1	DEAD/DEAH box helicase	-0.311956	
NHL65605.1	tRNA (guanosine(46)-N7)-methyltransferase TrmB	-0.312407	
NHL66958.1	uracil phosphoribosyltransferase	-0.312641	
NHL66282.1	fimbrial protein	-0.314107	
NHL65060.1	50S ribosomal protein L23	-0.314128	
NHL65203.1	cold-shock protein	-0.314342	
NHL65383.1	Holliday junction branch migration DNA helicase RuvB	-0.315656	
NHL65071.1	30S ribosomal protein S14	-0.316593	
NHL67363.1	glycine-tRNA ligase subunit beta	-0.317435	
NHL67743.1	GTP-binding protein	-0.31835	
NHL70821.1	helicase	-0.318619	
NHL65668.1	guanylate kinase	-0.319349	
NHL67132.1	DUF934 domain-containing protein	-0.321641	
NHL67778.1	7-cyano-7-deazaguanine synthase QueC	-0.324593	
NHL71148.1	galactose mutarotase	-0.325342	
NHL68525.1	succinate dehydrogenase flavoprotein subunit	-0.326206	
NHL67033.1	NAD-dependent epimerase/dehydratase family protein	-0.32669	+
NHL65963.1	phosphate ABC transporter substrate-binding protein PstS	-0.327138	
NHL66324.1	precorrin-8X methylmutase	-0.328604	
NHL68470.1	GatB/YqeY domain-containing protein	-0.329506	
NHL67828.1	ATP-binding protein	-0.333234	
NHL68462.1	exodeoxyribonuclease VII small subunit	-0.333303	
NHL67114.1	ATPase	-0.333944	
NHL67782.1	16S rRNA (cytosine(967)-C(5))-methyltransferase RsmB	-0.334243	
NHL65048.1	50S ribosomal protein L10	-0.334458	
NHL65961.1	dihydropteroate synthase	-0.33488	
NHL70106.1	H-NS histone family protein	-0.337802	
NHL68564.1	acetyl-CoA carboxylase carboxyltransferase subunit beta	-0.338075	+
NHL66661.1	kinase/pyrophosphorylase	-0.338243	
NHL70027.1	MetQ/NlpA family lipoprotein	-0.339947	
NHL68783.1	acyl carrier protein	-0.340529	
NHL66815.1	beta-propeller fold lactonase family protein	-0.341495	
NHL66500.1	type B 50S ribosomal protein L31	-0.341985	
NHL66892.1	pyridoxal phosphate-dependent aminotransferase	-0.34367	
NHL68509.1	ABC transporter substrate-binding protein	-0.345069	

NHL67516.1	glutaredoxin 3	-0.346093	
NHL66755.1	outer membrane protein assembly factor BamC	-0.346099	
NHL66157.1	pseudouridine synthase	-0.346773	
NHL66967.1	DUF469 family protein	-0.346896	
NHL64844.1	hypothetical protein EIB72_24220	-0.348634	
NHL64891.1	uroporphyrinogen decarboxylase	-0.348655	
NHL67769.1	rod shape-determining protein	-0.349682	
NHL66617.1	transcription-repair coupling factor	-0.349764	
NHL65828.1	copper chaperone PCu(A)C	-0.351052	
NHL65123.1	VacJ family lipoprotein	-0.351739	
NHL66769.1	3-deoxy-8-phosphooctulonate synthase	-0.352969	+
NHL69756.1	hypothetical protein EIB72_25595	-0.353267	
NHL66784.1	Fe-S protein assembly co-chaperone HscB	-0.356021	
NHL67367.1	lactoylglutathione lyase	-0.35699	
NHL67839.1	DNA-binding protein	-0.357019	
NHL66749.1	DNA mismatch repair protein MutS	-0.358601	
NHL65430.1	3-deoxy-7-phosphoheptulonate synthase AroG	-0.359637	+
NHL67812.1	YaeQ family protein	-0.359907	
NHL65379.1	tyrosine-tRNA ligase	-0.360043	
NHL66469.1	ATP phosphoribosyltransferase regulatory subunit	-0.360227	
NHL65477.1	SDR family NAD(P)-dependent oxidoreductase	-0.361279	
NHL66062.1	hypothetical protein EIB72_06645	-0.362209	
NHL65154.1	type VI secretion system tip protein VgrG	-0.362457	
NHL66788.1	Fe-S cluster assembly transcriptional regulator IscR	-0.364172	
NHL66808.1	nitrogen regulation protein NR(I)	-0.364711	
NHL65330.1	NADP-dependent malic enzyme	-0.365937	
NHL65250.1	16S rRNA (cytosine(1402)-N(4))-methyltransferase RsmH	-0.368787	
NHL65754.1	dihydrofolate reductase	-0.36927	
NHL67202.1	exodeoxyribonuclease VII large subunit	-0.370495	
NHL70306.1	transporter substrate-binding domain-containing protein	-0.371055	
NHL65070.1	50S ribosomal protein L5	-0.371086	+
NHL66741.1	peptidyl-prolyl cis-trans isomerase	-0.371419	+
NHL65350.1	leucine-tRNA ligase	-0.374437	+
NHL67707.1	ferredoxin-NADP reductase	-0.374709	
NHL69518.1	DUF1653 domain-containing protein	-0.377422	
NHL65955.1	carbamoyl-phosphate synthase large subunit	-0.377426	+
NHL67638.1	glutamine-fructose-6-phosphate transaminase (isomerizing)	-0.377804	+
NHL67157.1	peptidylprolyl isomerase	-0.377937	+
NHL67576.1	thiol:disulfide interchange protein DsbA/DsbL	-0.379632	
NHL70132.1	hypothetical protein EIB72_27520	-0.380013	
NHL66486.1	3-5 exonuclease	-0.380735	
NHL70417.1	Zn-dependent hydrolase	-0.381055	
NHL68777.1	polyphosphate kinase 2	-0.38338	
NHL66557.1	DNA polymerase III subunit delta	-0.384219	
NHL70889.1	TauD/TtdA family dioxygenase	-0.384377	
NHL67022.1	DNA topoisomerase IV subunit A	-0.385628	
NHL65988.1	homocitrate synthase	-0.386718	
NHL65725.1	ADP-glyceromanno-heptose 6-epimerase	-0.386959	
NHL65808.1	pyridoxine 5-phosphate synthase	-0.387035	
NHL66838.1	histidine ammonia-lyase	-0.388395	
NHL67486.1	phosphoenolpyruvate-protein phosphotransferase	-0.389036	+
NHL65399.1	class I SAM-dependent RNA methyltransferase	-0.390891	
NHL67024.1	ATP-binding cassette domain-containing protein	-0.392685	
NHL65599.1	protein-L-isoaspartate O-methyltransferase	-0.393212	
NHL69393.1	DUF4902 domain-containing protein	-0.393273	
NHL66100.1	valine-tRNA ligase	-0.394598	+
NHL65068.1	50S ribosomal protein L14	-0.394862	+
NHL65057.1	30S ribosomal protein S10	-0.395571	
NHL65464.1	UDP-N-acetylglucosamine 2-epimerase (non-hydrolyzing)	-0.396645	
NHL65286.1	proline-tRNA ligase	-0.39673	
NHL66738.1	cysteine-tRNA ligase	-0.397642	
NHL67733.1	phytanoyl-CoA dioxygenase family protein	-0.399706	
NHL67567.1	fumarylacetoacetate hydrolase family protein	-0.400177	
NHL65582.1	phosphomannomutase/phosphoglucomutase	-0.400581	
NHL67636.1	tRNA 2-thiocytidine(32) synthetase TtcA	-0.401045	
NHL67273.1	carboxypeptidase regulatory-like domain-containing protein	-0.401155	
NHL65111.1	glutamate synthase subunit alpha	-0.401557	+
NHL71013.1	malto-oligosyltrehalose trehalohydrolase	-0.401557	
NHL65224.1	redox-regulated ATPase YchF	-0.402868	+
NHL66985.1	formate-dependent phosphoribosylglycinamide formyltransferase	-0.403404	
NHL65047.1	50S ribosomal protein L1	-0.406636	
NHL67129.1	sulfate adenyltransferase subunit 1	-0.407043	
NHL64998.1	SIS domain-containing protein	-0.407059	
NHL65051.1	DNA-directed RNA polymerase subunit beta	-0.408311	+
NHL69658.1	branched-chain amino acid ABC transporter substrate-binding protein	-0.410077	
NHL67284.1	fructose-bisphosphate aldolase class II	-0.411832	+
NHL67077.1	phosphoenolpyruvate carboxylase	-0.413006	
NHL65061.1	50S ribosomal protein L2	-0.413729	+
NHL65962.1	phosphoglucomutase	-0.416082	
NHL67023.1	type IIA DNA topoisomerase subunit B	-0.417725	
NHL67123.1	DNA polymerase III subunit chi	-0.417782	
NHL65267.1	preprotein translocase subunit SecA	-0.419893	
NHL66138.1	translation initiation factor IF-3	-0.420261	+
NHL65649.1	serine-tRNA ligase	-0.421939	+
NHL67688.1	lytic transglycosylase domain-containing protein	-0.422032	
NHL65814.1	excinuclease ABC subunit UvrC	-0.423381	
NHL70452.1	ParA family protein	-0.427263	
NHL66736.1	acetyl-CoA carboxylase carboxyltransferase subunit alpha	-0.428084	
NHL67031.1	transketolase	-0.429081	
NHL66446.1	phosphoserine phosphatase SerB	-0.430431	+
NHL66930.1	acetolactate synthase 3 catalytic subunit	-0.430527	+
NHL65819.1	N-acetyltransferase	-0.430601	
NHL65263.1	cell division protein FtsZ	-0.430733	+
NHL70131.1	type VI secretion system tip protein VgrG	-0.431768	+
NHL66209.1	ribose-5-phosphate isomerase RpiA	-0.431796	
NHL65812.1	elongation factor P	-0.433322	
NHL65625.1	pyridoxal phosphate-dependent aminotransferase	-0.433734	
NHL68734.1	dihydroxy-acid dehydratase	-0.435138	

NHL67543.1	lipoyl synthase	-0.436459	
NHL69394.1	GNAT family N-acetyltransferase	-0.436874	
NHL70104.1	hypothetical protein EIB72_27380	-0.437122	
NHL65947.1	DNA polymerase III subunit epsilon	-0.437126	
NHL67776.1	6-carboxytetrahydropterin synthase QueD	-0.438435	
NHL66099.1	UTP--glucose-1-phosphate uridylyltransferase GalU	-0.438515	
NHL65311.1	RNB domain-containing ribonuclease	-0.440056	
NHL65959.1	RlmE family RNA methyltransferase	-0.440822	
NHL66263.1	substrate-binding domain-containing protein	-0.441807	
NHL66671.1	1-deoxy-D-xylulose-5-phosphate reductoisomerase	-0.442383	
NHL67375.1	AAA family ATPase	-0.442584	
NHL64852.1	winged helix-turn-helix transcriptional regulator	-0.443394	
NHL66484.1	23S rRNA (uracil(1939)-C(5))-methyltransferase RlmD	-0.444188	
NHL66584.1	peptidylprolyl isomerase	-0.444236	+
NHL65063.1	50S ribosomal protein L22	-0.445708	
NHL66141.1	phenylalanine--tRNA ligase subunit alpha	-0.4459	
NHL66677.1	30S ribosomal protein S2	-0.446072	
NHL66586.1	phosphoribosylformylglycinamide synthase	-0.446143	+
NHL67374.1	nucleotidyltransferase family protein	-0.446261	
NHL66864.1	glutamate racemase	-0.449291	
NHL69945.1	putative multidrug efflux transcriptional regulator CeoR	-0.450002	
NHL67830.1	hypothetical protein EIB72_15720	-0.450017	
NHL71073.1	SDR family oxidoreductase	-0.451366	
NHL66451.1	hypothetical protein EIB72_08635	-0.451992	
NHL65788.1	septum formation protein Maf	-0.452574	+
NHL67169.1	isoleucine--tRNA ligase	-0.453685	
NHL65058.1	50S ribosomal protein L3	-0.459394	+
NHL66142.1	phenylalanine--tRNA ligase subunit beta	-0.46147	
NHL69171.1	cysteine hydrolase	-0.461765	
NHL65045.1	transcription termination/antitermination protein NusG	-0.462476	
NHL65431.1	metalloprotease TldD	-0.462554	
NHL70976.1	BON domain-containing protein	-0.462895	
NHL71079.1	four-helix bundle copper-binding protein	-0.463627	
NHL68396.1	NADP-dependent oxidoreductase	-0.464281	
NHL67467.1	50S ribosomal protein L25/general stress protein Ctc	-0.464987	
NHL66770.1	CTP synthase	-0.465045	+
NHL67134.1	CysB family HTH-type transcriptional regulator	-0.465158	
NHL70308.1	catalase/peroxidase HPI	-0.46709	+
NHL67831.1	DNA cytosine methyltransferase	-0.4671	
NHL65179.1	type VI secretion system baseplate subunit TssE	-0.467333	
NHL65243.1	phenylacetic acid degradation protein PaaN	-0.468395	
NHL66478.1	histidine--tRNA ligase	-0.469737	
NHL66068.1	alanine--tRNA ligase	-0.47132	+
NHL65270.1	NUDIX domain-containing protein	-0.471456	
NHL71058.1	SDR family oxidoreductase	-0.471885	
NHL64893.1	trifunctional transcriptional regulator/proline dehydrogenase/L-glutamate gamma-semialdehyde dehydrogenase	-0.473337	+
NHL66696.1	alanine racemase	-0.474749	
NHL69572.1	hypothetical protein EIB72_24665	-0.47577	+
NHL67147.1	CDP-6-deoxy-delta-3,4-glucoseen reductase	-0.476262	
NHL65862.1	SDR family oxidoreductase	-0.476471	
NHL65953.1	glutamine-hydrolyzing carbamoyl-phosphate synthase small subunit	-0.47915	
NHL67330.1	c-type cytochrome	-0.479801	
NHL70673.1	DUF262 domain-containing protein	-0.47987	
NHL66890.1	peroxide stress protein YaaA	-0.480212	
NHL65202.1	Hsp70 family protein	-0.480396	
NHL66689.1	succinyl-diaminopimelate desuccinylase	-0.482875	+
NHL67283.1	phosphoribosylaminoimidazolesuccinocarboxamide synthase	-0.487102	+
NHL67183.1	DUF192 domain-containing protein	-0.489915	
NHL68646.1	DUF4397 domain-containing protein	-0.490431	
NHL68910.1	hypothetical protein EIB72_21215	-0.491984	
NHL65782.1	Rne/Rng family ribonuclease	-0.492003	+
NHL66537.1	30S ribosomal protein S18	-0.492071	+
NHL66258.1	sulfate ABC transporter ATP-binding protein	-0.493983	
NHL67168.1	bifunctional riboflavin kinase/FAD synthetase	-0.494716	
NHL67296.1	cyclic pyranopterin monophosphate synthase MoaC	-0.494775	
NHL66435.1	FRG domain-containing protein	-0.496369	
NHL66779.1	lysine--tRNA ligase	-0.50249	
NHL66494.1	DNA polymerase III subunit gamma/tau	-0.504328	
NHL68552.1	3-isopropylmalate dehydratase large subunit	-0.504461	+
NHL64935.1	VRR-NUC domain-containing protein	-0.510056	
NHL65569.1	GDP-mannose 4,6-dehydratase	-0.510393	+
NHL66520.1	homoserine dehydrogenase	-0.511056	
NHL66259.1	CysB family HTH-type transcriptional regulator	-0.51151	
NHL66693.1	ATP-binding cassette domain-containing protein	-0.512021	
NHL65294.1	ribonucleoside-diphosphate reductase subunit alpha	-0.514999	+
NHL68645.1	DUF3005 domain-containing protein	-0.515879	
NHL67518.1	2,3-diphosphoglycerate-dependent phosphoglycerate mutase	-0.518202	+
NHL65066.1	50S ribosomal protein L29	-0.518262	+
NHL65444.1	molecular chaperone DnaJ	-0.518606	
NHL67829.1	hypothetical protein EIB72_15715	-0.520878	+
NHL65790.1	50S ribosomal protein L32	-0.52155	
NHL66556.1	TatD family hydrolase	-0.522924	+
NHL65353.1	glutamate-5-semialdehyde dehydrogenase	-0.523122	
NHL66161.1	30S ribosome-binding factor RbfA	-0.524	
NHL65387.1	Fis family transcriptional regulator	-0.524068	
NHL67390.1	zinc ribbon domain-containing protein	-0.525422	
NHL65046.1	50S ribosomal protein L11	-0.526795	+
NHL67364.1	D-glycero-beta-D-manno-heptose 1,7-bisphosphate 7-phosphatase	-0.527085	
NHL65327.1	CinA family protein	-0.52737	
NHL70130.1	phage tail protein	-0.532252	+
NHL67205.1	3-deoxy-manno-octulosonate cytidylyltransferase	-0.532782	
NHL65806.1	GTPase Era	-0.534023	
NHL68717.1	ATP-dependent protease	-0.536372	
NHL65686.1	class 1 fructose-bisphosphatase	-0.539606	+
NHL67361.1	tetratricopeptide repeat protein	-0.54936	
NHL66207.1	23S rRNA (guanosine(2251)-2-O)-methyltransferase RlmB	-0.550713	
NHL69620.1	hypothetical protein EIB72_24905	-0.552496	
NHL67764.1	exodeoxyribonuclease III	-0.554219	

NHL65284.1	RNA pyrophosphohydrolase	-0.554885	
NHL67282.1	5-(carboxyamino)imidazole ribonucleotide mutase	-0.555204	
NHL67335.1	DeoR/GlpR transcriptional regulator	-0.557427	
NHL65253.1	UDP-N-acetylmuramoyl-L-alanyl-D-glutamate--2,6-diaminopimelate ligase	-0.557486	
NHL67198.1	hypothetical protein EIB72_12535	-0.559541	
NHL66395.1	MerR family transcriptional regulator	-0.560327	
NHL66171.1	cell division protein ZapE	-0.560977	
NHL66657.1	SsrA-binding protein SmpB	-0.561234	
NHL67621.1	alpha/beta hydrolase	-0.561416	
NHL65452.1	phosphoribosylformylglycinamide cyclo-ligase	-0.562325	
NHL65876.1	NAD(P)H-binding protein	-0.56461	
NHL69466.1	Arc family DNA-binding protein	-0.57173	
NHL65810.1	beta-N-acetylhexosaminidase	-0.573714	+
NHL66982.1	DEAD/DEAH box helicase	-0.575244	+
NHL65787.1	SAM-dependent methyltransferase	-0.576843	
NHL67297.1	type VI secretion system tip protein VgrG	-0.576942	+
NHL66465.1	RNA-binding transcriptional accessory protein	-0.5773	
NHL65205.1	dioxygenase	-0.578767	
NHL67204.1	Trm112 family protein	-0.578962	
NHL66960.1	phosphoribosylamine-glycine ligase	-0.5815	
NHL65817.1	hypothetical protein EIB72_05375	-0.581659	
NHL66678.1	type I methionyl aminopeptidase	-0.58412	+
NHL65272.1	cell division protein ZapD	-0.585979	
NHL65731.1	methionine ABC transporter ATP-binding protein	-0.589891	
NHL66687.1	2,3,4,5-tetrahydropyridine-2,6-dicarboxylate N-succinyltransferase	-0.59117	+
NHL66961.1	oxygen-dependent coproporphyrinogen oxidase	-0.591217	
NHL67331.1	DEAD/DEAH box helicase	-0.592107	
NHL65213.1	aminopeptidase P family protein	-0.592453	
NHL66536.1	50S ribosomal protein L9	-0.595726	+
NHL68378.1	HAMP domain-containing histidine kinase	-0.596413	
NHL66869.1	LysR family transcriptional regulator	-0.599415	+
NHL65226.1	DsbC family protein	-0.599684	
NHL66167.1	translational GTPase TypA	-0.600686	
NHL67401.1	NADPH-dependent 7-cyano-7-deazaguanine reductase QueF	-0.601252	
NHL66871.1	DUF1857 family protein	-0.60393	
NHL67213.1	UDP-N-acetylmuramate dehydrogenase	-0.605465	
NHL67131.1	phosphoadenylyl-sulfate reductase	-0.606588	
NHL69464.1	aspartate carbamoyltransferase	-0.610907	+
NHL65150.1	glutathione S-transferase	-0.612889	
NHL65065.1	50S ribosomal protein L16	-0.613027	
NHL65744.1	50S ribosomal protein L19	-0.617872	+
NHL67566.1	enoyl-CoA hydratase/isomerase family protein	-0.61861	
NHL65386.1	bifunctional phosphoribosylaminoimidazolecarboxamide formyltransferase/IMP cyclohydrolase	-0.627487	+
NHL66639.1	tRNA adenosine(34) deaminase TadA	-0.62781	
NHL68293.1	argininosuccinate synthase	-0.628132	+
NHL65069.1	50S ribosomal protein L24	-0.629512	
NHL66160.1	translation initiation factor IF-2	-0.631419	
NHL65028.1	orotate phosphoribosyltransferase	-0.637381	
NHL66169.1	2-oxoglutarate dehydrogenase complex dihydrolipoyllysine-residue succinyltransferase	-0.639175	+
NHL66214.1	quinone-dependent dihydroorotate dehydrogenase	-0.640748	+
NHL70137.1	adenosyl-hopene transferase HpnH	-0.64169	+
NHL66170.1	dihydrolipoyl dehydrogenase	-0.643198	+
NHL67388.1	aspartate--tRNA ligase	-0.64365	+
NHL66035.1	bifunctional alpha/beta hydrolase/class I SAM-dependent methyltransferase	-0.645072	
NHL67276.1	response regulator	-0.647811	
NHL66965.1	septum formation inhibitor Maf	-0.65538	
NHL69919.1	DUF2167 domain-containing protein	-0.657019	
NHL71031.1	catalse HPII	-0.658463	
NHL65029.1	NADP-dependent malic enzyme	-0.659428	+
NHL71055.1	glucose 1-dehydrogenase	-0.660424	
NHL65362.1	adenylosuccinate lyase	-0.661016	+
NHL66140.1	50S ribosomal protein L20	-0.662329	
NHL67514.1	NAD(P)-dependent glycerol-3-phosphate dehydrogenase	-0.662361	
NHL66673.1	di-trans,poly-cis-decaprenylcistransferase	-0.662739	
NHL70986.1	TetR/AcrR family transcriptional regulator	-0.664031	
NHL67292.1	nuclear transport factor 2 family protein	-0.665399	
NHL65781.1	GTP 3,8-cyclase MoaA	-0.668512	
NHL67575.1	cell division protein	-0.668695	
NHL65304.1	acetyl-CoA carboxylase biotin carboxylase subunit	-0.66904	+
NHL70567.1	GntR family transcriptional regulator	-0.670214	
NHL67026.1	rubredoxin	-0.671117	
NHL70451.1	ParB/RepB/SpoJ family partition protein	-0.677198	+
NHL68870.1	porin	-0.679356	
NHL65413.1	tRNA preQ1(34) S-adenosylmethionine ribosyltransferase-isomerase QueA	-0.68025	+
NHL67528.1	accessory factor Ubik family protein	-0.683073	
NHL65858.1	ABC transporter substrate-binding protein	-0.68331	
NHL68389.1	Dyp-type peroxidase	-0.68993	+
NHL64952.1	30S ribosomal protein S21	-0.69309	
NHL65073.1	50S ribosomal protein L6	-0.696531	+
NHL67660.1	hypothetical protein EIB72_14855	-0.699242	
NHL66683.1	cell division protein FtsZ	-0.699584	
NHL65175.1	tetratricopeptide repeat protein	-0.701633	+
NHL67888.1	GTP cyclohydrolase I FolE	-0.704826	
NHL65235.1	phosphoglycolate phosphatase	-0.707125	
NHL65556.1	aspartate carbamoyltransferase catalytic subunit	-0.707775	+
NHL66663.1	ribonuclease HII	-0.708842	
NHL66488.1	peptidoglycan DD-metalloendopeptidase family protein	-0.71019	
NHL67574.1	arginine--tRNA ligase	-0.711771	+
NHL67291.1	lipopolysaccharide heptosyltransferase II	-0.712218	
NHL68083.1	DUF2384 domain-containing protein	-0.717639	
NHL66295.1	lysine N(6)-hydroxylase/L-ornithine N(5)-oxygenase family protein	-0.718487	
NHL68465.1	GTP cyclohydrolase I FolE2	-0.719213	+
NHL66468.1	adenylosuccinate synthase	-0.722314	+
NHL66876.1	hypothetical protein EIB72_10855	-0.72277	
NHL66776.1	regulator	-0.723412	
NHL67742.1	class I SAM-dependent rRNA methyltransferase	-0.724148	
NHL67084.1	argininosuccinate lyase	-0.726687	
NHL65089.1	YihA family ribosome biogenesis GTP-binding protein	-0.727527	

NHL65394.1	NUDIX hydrolase	-0.727951	
NHL67455.1	RNA polymerase factor sigma-54	-0.732241	
NHL67381.1	enoyl-CoA hydratase	-0.733907	
NHL66877.1	excinuclease ABC subunit UvrB	-0.735997	
NHL66927.1	phosphatidylserine decarboxylase	-0.737036	
NHL67826.1	DNA topoisomerase (ATP-hydrolyzing) subunit B	-0.737513	+
NHL67398.1	DUF3683 domain-containing protein	-0.738441	
NHL66647.1	glutamine-hydrolyzing GMP synthase	-0.738815	+
NHL66963.1	ribosome silencing factor	-0.741564	
NHL69093.1	virulence factor family protein	-0.743846	
NHL65770.1	CreA family protein	-0.749414	
NHL69927.1	MetQ/NlpA family ABC transporter substrate-binding protein	-0.751099	
NHL65401.1	membrane integrity-associated transporter subunit PqiC	-0.754014	
NHL66114.1	NAD(P)H:quinone oxidoreductase	-0.754391	
NHL67373.1	phosphotransferase	-0.761168	+
NHL69737.1	formaldehyde dehydrogenase, glutathione-independent	-0.762255	
NHL65090.1	cytochrome c4	-0.768461	
NHL65743.1	tRNA (guanosine(37)-N1)-methyltransferase TrmD	-0.771436	
NHL65332.1	barstar family protein	-0.77213	
NHL65652.1	GNAT family N-acetyltransferase	-0.772945	
NHL69335.1	cold-shock protein	-0.777128	+
NHL65564.1	mannose-1-phosphate guanylyltransferase/mannose-6-phosphate isomerase	-0.777683	+
NHL66462.1	ATP-dependent DNA helicase	-0.780949	+
NHL66734.1	aspartate kinase	-0.781659	
NHL66607.1	presqualene diphosphate synthase HpnD	-0.782666	
NHL67635.1	dihydroneopterin aldolase	-0.783596	
NHL70006.1	SDR family NAD(P)-dependent oxidoreductase	-0.78389	
NHL64931.1	UvrD-helicase domain-containing protein	-0.78529	
NHL65052.1	DNA helicase RecQ	-0.787158	
NHL67957.1	hypothetical protein EIB72_16375	-0.788246	+
NHL65412.1	tRNA guanosine(34) transglycosylase Tgt	-0.789856	
NHL67085.1	HAD family phosphatase	-0.791915	+
NHL66101.1	UvrD-helicase domain-containing protein	-0.801937	
NHL71142.1	hypothetical protein EIB72_32715	-0.802211	
NHL67384.1	acyl-CoA dehydrogenase	-0.803399	+
NHL65206.1	UbiX family flavin prenyltransferase	-0.804282	
NHL68453.1	hypothetical protein EIB72_18905	-0.807806	
NHL67646.1	aldehyde dehydrogenase	-0.811364	+
NHL67052.1	hypothetical protein EIB72_11780	-0.813129	
NHL67473.1	signal recognition particle-docking protein FtsY	-0.81344	
NHL65803.1	elongation factor 4	-0.819765	+
NHL69062.1	cold-shock protein	-0.826233	
NHL65833.1	glycosyltransferase family 4 protein	-0.831856	+
NHL65420.1	pyrroline-5-carboxylate reductase	-0.832268	
NHL71114.1	bifunctional aconitate hydratase 2/2-methylisocitrate dehydratase	-0.83375	+
NHL67824.1	chromosomal replication initiator protein DnaA	-0.837533	
NHL66751.1	peptidylprolyl isomerase	-0.84155	
NHL66852.1	hypothetical protein EIB72_10735	-0.844104	
NHL65804.1	signal peptidase I	-0.84432	
NHL68472.1	RNA polymerase sigma factor RpoD	-0.848581	+
NHL68562.1	site-specific DNA-methyltransferase	-0.861609	
NHL69746.1	betaine-aldehyde dehydrogenase	-0.862867	+
NHL67149.1	GNAT family acetyltransferase	-0.868083	
NHL66464.1	hypothetical protein EIB72_08700	-0.868552	
NHL67057.1	ABC transporter substrate-binding protein	-0.873631	
NHL71032.1	DUF3022 domain-containing protein	-0.87587	
NHL65563.1	dTDP-4-dehydrorhamnose reductase	-0.880985	
NHL67362.1	glycine-tRNA ligase subunit alpha	-0.886421	
NHL66568.1	AIPR family protein	-0.887604	
NHL67494.1	MetQ/NlpA family ABC transporter substrate-binding protein	-0.889715	+
NHL70609.1	transporter substrate-binding domain-containing protein	-0.891418	
NHL69547.1	bifunctional nicotinamide-nucleotide adenyltransferase/Nudix hydroxylase	-0.894004	
NHL66796.1	dihydropolyl dehydrogenase	-0.897363	+
NHL65334.1	glyoxalase/bleomycin resistance/extradiol dioxygenase family protein	-0.900736	
NHL65709.1	phosphoglycolate phosphatase	-0.904579	
NHL65457.1	DNA mismatch repair endonuclease MutL	-0.90465	+
NHL67397.1	HIT family protein	-0.907289	
NHL65761.1	acyl-CoA thioesterase	-0.919028	
NHL70447.1	adenylosuccinate synthase	-0.920397	
NHL66980.1	sulfurtransferase	-0.922164	+
NHL66210.1	FadR family transcriptional regulator	-0.922576	
NHL67159.1	50S ribosomal protein L28	-0.92473	+
NHL64876.1	16S rRNA (guanine(527)-N(7))-methyltransferase RsmG	-0.924771	
NHL66381.1	DUF3022 domain-containing protein	-0.928651	
NHL68041.1	copper oxidase	-0.928884	+
NHL66305.1	cob(II)yrinic acid a,c-diamide adenosyltransferase	-0.932419	
NHL67015.1	RidA family protein	-0.937407	
NHL68105.1	aromatic alcohol reductase	-0.943359	
NHL64933.1	DUF2971 domain-containing protein	-0.949828	+
NHL65117.1	sulfur carrier protein ThiS	-0.950296	
NHL65647.1	replication-associated recombination protein A	-0.951735	+
NHL66522.1	Xcc1710-like domain-containing protein	-0.952043	+
NHL66552.1	AAA family ATPase	-0.953561	
NHL68947.1	delta(1)-pyrroline-2-carboxylate reductase family protein	-0.955568	
NHL68123.1	co-chaperone GroES	-0.956493	+
NHL69039.1	alcohol dehydrogenase AdhP	-0.957526	+
NHL68037.1	heavy metal response regulator transcription factor	-0.960819	
NHL69413.1	dicarboxylate/amino acid:cation symporter	-0.961175	+
NHL68686.1	alkyl hydroperoxide reductase subunit F	-0.962978	
NHL64813.1	site-specific DNA-methyltransferase	-0.964589	+
NHL68799.1	NAD(P)/FAD-dependent oxidoreductase	-0.967255	
NHL67798.1	phosphonoacetate hydrolase	-0.975357	+
NHL66649.1	IMP dehydrogenase	-0.977537	+
NHL66511.1	helix-hairpin-helix domain-containing protein	-0.980288	
NHL65209.1	peptide chain release factor 1	-0.987919	
NHL66323.1	precorrin-2 C(20)-methyltransferase	-0.991252	+
NHL68797.1	excinuclease ABC subunit A	-0.99604	+
NHL65236.1	ribose-phosphate 3-epimerase	-0.996721	+

NHL66979.1	DNA polymerase III subunit alpha	-0.99818	
NHL69663.1	DcrB-related protein	-1.00421	
NHL66777.1	single-stranded-DNA-specific exonuclease RecJ	-1.00567	+
NHL67468.1	aminoacyl-tRNA hydrolase	-1.01116	
NHL65410.1	protein translocase subunit SecD	-1.01943	
NHL67160.1	50S ribosomal protein L33	-1.02609	
NHL67563.1,NHL70599.1	ferritin-like domain-containing protein	-1.02623	+
NHL71040.1	hypothetical protein EIB72_32205	-1.03437	
NHL65671.1	transcription elongation factor GreB	-1.04332	
NHL66147.1	outer membrane protein assembly factor BamC	-1.04499	+
NHL66437.1	ABC-F family ATPase	-1.05819	+
NHL68787.1	aromatic amino acid lyase	-1.06209	
NHL65296.1	ribonucleotide-diphosphate reductase subunit beta	-1.06892	+
NHL66168.1	2-oxoglutarate dehydrogenase E1 component	-1.07553	+
NHL66354.1	alpha/beta hydrolase	-1.08747	+
NHL67396.1	DUF971 domain-containing protein	-1.08891	
NHL67349.1	HAD-IA family hydrolase	-1.08893	
NHL65299.1	glycine zipper 2TM domain-containing protein	-1.09288	
NHL66688.1	ArsC family reductase	-1.09696	+
NHL71077.1	chemotaxis protein	-1.09836	+
NHL66459.1	peptidoglycan editing factor PgeF	-1.09884	
NHL65280.1	50S ribosomal protein L27	-1.10735	+
NHL65821.1	ParD-like family protein	-1.11123	+
NHL66127.1	PAS and helix-turn-helix domain-containing protein	-1.11264	+
NHL66704.1	DEAD/DEAH box helicase	-1.12116	
NHL69965.1	amidohydrolase	-1.12413	
NHL71081.1	FAD-dependent oxidoreductase	-1.13565	
NHL66939.1	TIGR00730 family Rossmann fold protein	-1.13758	+
NHL70878.1	LuxR family transcriptional regulator	-1.13971	
NHL66164.1	HlyD family efflux transporter periplasmic adaptor subunit	-1.14958	
NHL68260.1	fucose-binding lectin protein	-1.15188	
NHL70683.1	response regulator	-1.15503	
NHL67111.1	nicotinate-nucleotide-dimethylbenzimidazole phosphoribosyltransferase	-1.1554	+
NHL65499.1	transcriptional repressor NrdR	-1.16124	
NHL66914.1	NADH-quinone oxidoreductase subunit B	-1.16342	
NHL69526.1	diaminopimelate decarboxylase	-1.1648	+
NHL64925.1	aminomethyl-transferring glycine dehydrogenase	-1.16839	+
NHL64882.1	FOF1 ATP synthase subunit C	-1.16847	
NHL68583.1	porin	-1.17861	
NHL67221.1	tRNA (adenosine(37)-N6)-threonylcarbamoyltransferase complex ATPase subunit type 1	-1.18005	
NHL69956.1	4-aminobutyrate--2-oxoglutarate transaminase	-1.18535	
NHL67627.1	phosphodiesterase	-1.19044	
NHL70221.1	response regulator	-1.1936	
NHL66995.1	DUF1841 family protein	-1.21135	
NHL68558.1	pilus assembly protein FimV	-1.21212	
NHL66851.1	type VI secretion system tip protein VgrG	-1.21708	+
NHL64996.1	16S rRNA (cytidine[1402]-2-O)-methyltransferase	-1.24587	
NHL71070.1	carbamoyltransferase	-1.24789	
NHL66812.1	competence/damage-inducible protein A	-1.25719	+
NHL70892.1	thioesterase	-1.2693	
NHL67549.1	D-alanyl-D-alanine carboxypeptidase	-1.28058	+
NHL66700.1	uracil-DNA glycosylase	-1.28079	+
NHL64994.1	MBL fold metallo-hydrolase	-1.28271	
NHL67192.1	EAL domain-containing protein	-1.29529	
NHL67224.1	pirin family protein	-1.30806	
NHL68094.1	BON domain-containing protein	-1.3163	+
NHL70251.1	SDR family oxidoreductase	-1.31973	+
NHL65498.1	serine hydroxymethyltransferase	-1.32205	+
NHL67882.1	fumarate/nitrate reduction transcriptional regulator Fnr	-1.3247	+
NHL68713.1	prolyl aminopeptidase	-1.32815	
NHL66322.1	precorrin-3B C(17)-methyltransferase	-1.33184	+
NHL65384.1	Holliday junction branch migration protein RuvA	-1.33508	
NHL67327.1	galactonate dehydratase	-1.34195	
NHL70967.1	alkylphosphonate utilization protein	-1.35105	+
NHL69957.1	NADP-dependent succinate-semialdehyde dehydrogenase	-1.36643	+
NHL68500.1	peptidoglycan DD-metalloendopeptidase family protein	-1.37966	+
NHL68954.1	DUF1311 domain-containing protein	-1.42494	
NHL69607.1	NADH-quinone oxidoreductase subunit Nuol	-1.44212	
NHL67280.1	threonylcarbamoyl-AMP synthase	-1.44336	
NHL65951.1	transglycosylase SLT domain-containing protein	-1.44913	+
NHL71003.1	hypothetical protein EIB72_32020	-1.45705	
NHL71059.1	BON domain-containing protein	-1.46244	
NHL65282.1	glutamate 5-kinase	-1.47445	+
NHL66308.1	cobalamin biosynthesis protein CobW	-1.47778	+
NHL67356.1	rRNA maturation RNase YbeY	-1.49636	
NHL68461.1	aromatic ring-hydroxylating dioxygenase subunit alpha	-1.50129	+
NHL64943.1	tetratricopeptide repeat protein	-1.50406	+
NHL70134.1	PAAR domain-containing protein	-1.5041	+
NHL71080.1	glutathione-dependent formaldehyde dehydrogenase	-1.5083	+
NHL68687.1	peroxiredoxin	-1.51846	+
NHL66888.1	hypothetical protein EIB72_10935	-1.53886	
NHL66853.1	hypothetical protein EIB72_10740	-1.54139	
NHL68847.1	ABC transporter ATP-binding protein	-1.56119	+
NHL66632.1	allantoicase	-1.56493	
NHL69027.1	recombination-associated protein RdgC	-1.57271	
NHL66563.1	alpha/beta hydrolase	-1.59948	
NHL65368.1	amino acid ABC transporter ATP-binding protein	-1.59991	+
NHL68830.1	c-type cytochrome	-1.60282	
NHL67644.1	cupredoxin domain-containing protein	-1.60578	
NHL71125.1	hypothetical protein EIB72_32630	-1.66128	
NHL68908.1	aspartate aminotransferase family protein	-1.6782	+
NHL68160.1	Hsp70 family protein	-1.6784	
NHL64927.1	glycine cleavage system aminomethyltransferase GcvT	-1.69377	
NHL65885.1	exodeoxyribonuclease V subunit beta	-1.72146	+
NHL69923.1	hypothetical protein EIB72_26475	-1.75696	
NHL68794.1	beta-ketoacyl-ACP synthase	-1.77083	+
NHL64812.1	DEAD/DEAH box helicase family protein	-1.78194	+
NHL65265.1	UDP-3-O-acyl-N-acetylglucosamine deacetylase	-1.78202	

NHL67172.1	dUTP diphosphatase	-1.82987	
NHL66190.1	DUF2968 domain-containing protein	-1.85575	
NHL66083.1	sugar ABC transporter substrate-binding protein	-1.88004	
NHL68026.1	trans-aconitate 2-methyltransferase	-1.89573	
NHL65550.1	hydroxymethylpyrimidine/phosphomethylpyrimidine kinase	-1.90308	
NHL66217.1	NUDX hydrolase	-1.92013	
NHL66798.1	pyruvate dehydrogenase (acetyl-transferring), homodimeric type	-1.93717	+
NHL68849.1	ABC transporter substrate-binding protein	-2.04183	+
NHL65799.1	sigma-E factor negative regulatory protein	-2.04931	+
NHL69702.1	peptidase	-2.13943	+
NHL66309.1	cobaltochelataase subunit CobN	-2.14868	
NHL71054.1	DUF4142 domain-containing protein	-2.21782	+
NHL71053.1	DUF892 family protein	-2.24272	+
NHL65451.1	DnaA regulatory inactivator Hda	-2.25132	+
NHL69933.1	alpha/beta hydrolase	-2.2548	+
NHL66222.1	FMNH2-dependent alkanesulfonate monooxygenase	-2.29798	+
NHL67522.1	HPr family phosphocarrier protein	-2.31396	+
NHL68559.1	tRNA pseudouridine(38-40) synthase TruA	-2.3246	+
NHL65331.1	ribonuclease	-2.34891	
NHL68869.1	squalene/phytoene synthase family protein	-2.34956	+
NHL66794.1	D-alanyl-D-alanine endopeptidase	-2.39734	+
NHL65584.1	3-deoxy-D-manno-oct-2-ulosonic acid (Kdo) hydroxylase	-2.49549	
NHL67350.1	3,4-dihydroxy-2-butanone-4-phosphate synthase	-2.50192	+
NHL65010.1	DUF2239 family protein	-2.50311	
NHL65486.1	hypothetical protein E1B72_03630	-2.51645	+
NHL69929.1	2-hydroxycarboxylate transporter family protein	-2.56698	+
NHL64999.1	BON domain-containing protein	-2.69355	+
NHL65306.1	type II 3-dehydroquinate dehydratase	-2.88405	+
NHL70247.1	DUF1842 domain-containing protein	-2.90351	
NHL71057.1	DUF2795 domain-containing protein	-2.92453	+
NHL64947.1;NHL64946.1	tetratricopeptide repeat protein	-3.12401	+
NHL69414.1	gamma-glutamyltransferase	-3.24421	+
NHL69931.1	sigma-54-dependent Fis family transcriptional regulator	-3.43161	+
NHL71042.1	PRC-barrel domain containing protein	-3.49615	+
NHL68782.1	acyl carrier protein	-3.63042	+
NHL69690.1	NADP-dependent malic enzyme	-3.71373	+
NHL71010.1	maltose alpha-D-glucosyltransferase	-3.87764	+
NHL66148.1	DNA-binding protein	-4.03791	+
NHL65076.1	50S ribosomal protein L30	-4.20745	
NHL67274.1	DegQ family serine endoprotease	-5.45983	+
NHL68043.1	copper homeostasis periplasmic binding protein CopC	-5.76143	+
NHL67420.1	M48 family metalloprotease	-6.05311	+
NHL68042.1	copper-binding protein	-6.43107	+

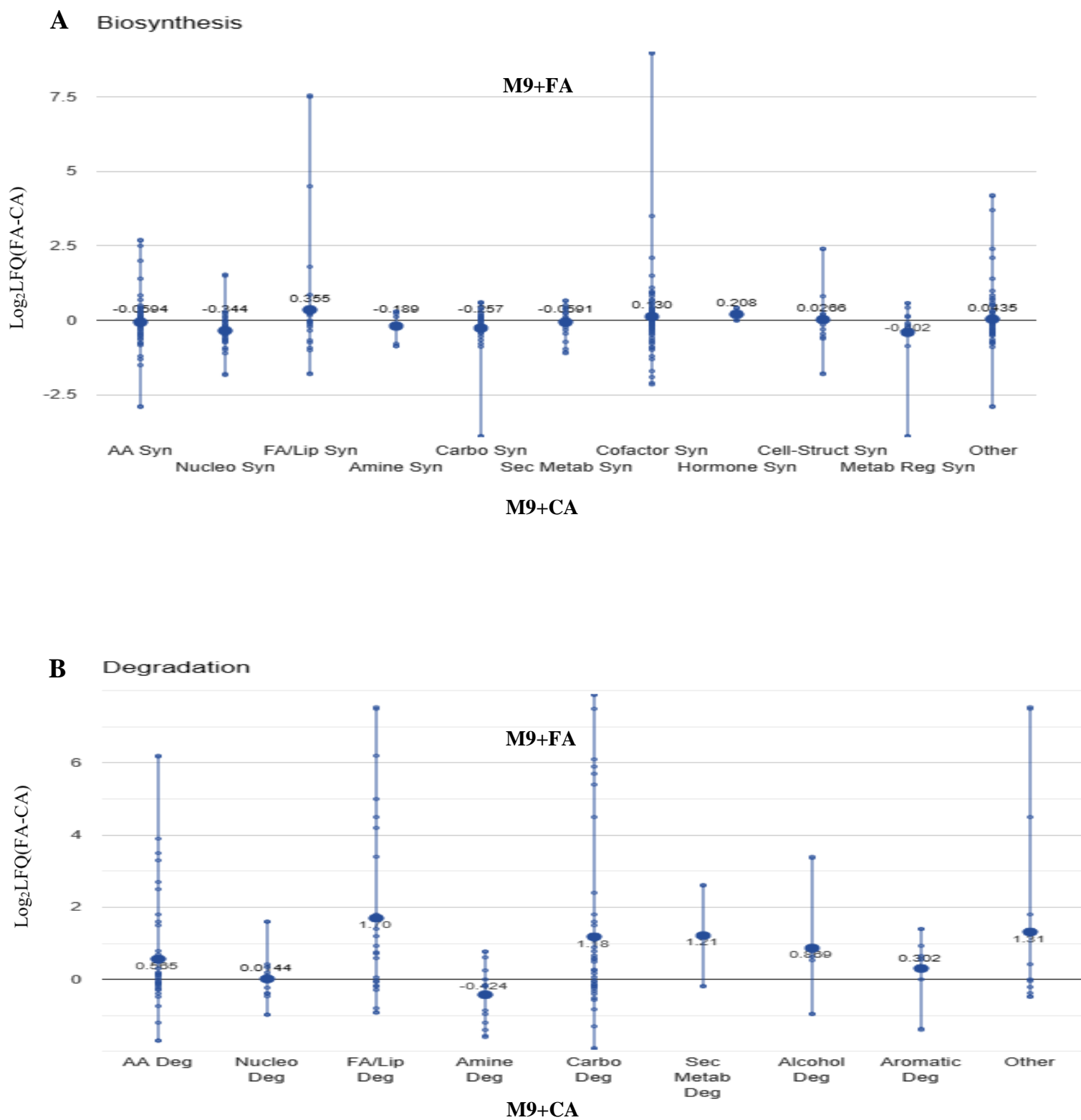


FIG S1 Difference in the abundance of proteins belonging to different metabolic pathways during the cultivation of *B. ambifaria* T16 in M9 minimal medium with fusaric acid (M9+FA) or sodium citrate (M9+CA) as the sole carbon source. Each of the small dots represents a data value ($\log_2\text{LFQ}[\text{FA-CA}]$) for an individual protein within the

metabolic pathway. The line connecting them shows the full range of values for that metabolic pathway. **A.** Metabolic pathways for Biosynthesis: AA: amino acids, Nucleo: nucleotides and nucleosides, FA/Lip: fatty acids and lipids, Amine: amines and polyamines, Carbo: Carbohydrates, Sec Metab: Secondary Metabolites, Cell-struct: Cell structure, Metab Reg: Metabolic Regulator. **B.** Metabolic pathways for Degradation: Carbo: carbohydrates and carboxylates degradation, Aromatic: aromatic compounds. The Proteomic dataset was uploaded in the PGDB of *B. ambifaria* T16 and visualized with the Pathway Tools Omics Dashboard.

TABLE S2 Evaluation of *B. ambifaria* growth in the presence of toluene

<i>B. ambifaria</i> strain	Final OD ₆₀₀ ¹
T16 (wild type)	1.75 ± 0.096
FA3 (<i>mldD::mini-Tn5Tel</i>)	0.56 ± 0.03

¹Cultures were grown during 24 h in screw capped tubes containing M9 minimal medium with 0.2% (wt/vol) sodium citrate and 6 mM toluene. Means ± SD of three independent cultures are shown.

TABLE S3 Sensitivity to SDS/EDTA of *B. ambifaria* strains

<i>B. ambifaria</i> strain	Growth in 0.5%	Growth in 0.5%	Growth in 0.5%
	SDS + 0.5 mM	SDS + 1 mM	SDS + 1.5 mM
	EDTA ¹	EDTA ¹	EDTA ¹
T16 (wild type)	+	+	+
FA3 (<i>mldD::mini-Tn5Tel</i>)	-	-	-

¹Growth was evaluated in LB agar plates containing SDS + EDTA according to Yeow et al. (1).

References

1. Yeow J, Tan KW, Holdbrook DA, Chong Z-S, Marzinek JK, Bond PJ, Chng S-S. 2018. The architecture of the OmpC-MlaA complex sheds light on the maintenance of outer membrane lipid asymmetry in *Escherichia coli*. J Biol Chem 293:11325-11340.