ID	log2FoldChange	padj	gene	time	Uniprot	Notes	Class	pa14_locus_tag
BPAMKIAM_	-1.020613641	8.61E-19	NA	60	NA	NA	NA	PA14_00080
BPAMKIAM_	-1.004907666	5.53E-19	NA	120	NA	NA	NA	PA14_00080
BPAMKIAM_	-1.350052836	0.005076332	cheB	120	Q9I6V9	chemotaxis signal transduction pathway	motility	PA14_02180
BPAMKIAM_	-1.175495368	0.000423359	cheD	120	NA	chemotaxis signal transduction pathway	motility	PA14_02190
BPAMKIAM_	-1.295630899	2.10E-19	cheR	120	P07801	chemotaxis protein methyltransferase	motility	PA14_02200
BPAMKIAM_	-1.195188553	3.77E-27	NA	120	NA	NA	NA	PA14_02220
BPAMKIAM_	-1.382317743	6.91E-20	cheW	120	P0A964	chemotaxis	motility	PA14_02230
BPAMKIAM_	-1.484476962	4.25E-26	NA	120	NA	NA	NA	PA14_02250
BPAMKIAM_	-1.108727148	4.49E-24	NA	60	NA	NA	NA	PA14_02250
BPAMKIAM_	-1.089001479	9.87E-26	cheY	120	P0AE67	chemotaxis protein; sensory regulation of flagellum	motility	PA14_02260
BPAMKIAM_	-1.287054304	9.87E-26	NA	120	NA	NA	NA	PA14_02270
BPAMKIAM_	-1.247839255	1.56E-06	NA	60	NA	NA	NA	PA14_02270
BPAMKIAM_	-1.323468868	0.000232877	pntA	120	P07001	NADPH regenration; proton transmembrane transport	transport	PA14_02460
BPAMKIAM_	-1.132404706	0.000986538	pntA	60	P07001	NADPH regenration; proton transmembrane transport	transport	PA14_02460
BPAMKIAM_	1.463302059	3.34E-18	cysA	120	P16676	sulfate transport	transport	PA14_03650
BPAMKIAM_	1.274837984	5.90E-08	cysA	60	P16676	sulfate transport	transport	PA14_03650
BPAMKIAM_	1.30541315	7.21E-06	cysW	120	P0AEB0	sulfate transport	transport	PA14_03670
BPAMKIAM_	1.152831095	2.13E-05	ygiW	120	P0ADU5	biofilm formation; ceullar response	signalling	PA14_04180
BPAMKIAM_	1.39824038	5.67E-08	ygiW	60	P0ADU5	biofilm formation; ceullar response	signalling	PA14_04180
BPAMKIAM_	-1.291015796	6.88E-07	dht	60	Q9I676	dihydropyriminase	metabolism	PA14_05770
BPAMKIAM_	-1.170191366	2.50E-05	dht	120	Q9I676	dihydropyriminase	metabolism	PA14_05770
BPAMKIAM_	2.034594708	5.30E-38	yfdE	120	P76518	acetyl coenzyme A	metabolism	PA14_05820
BPAMKIAM_	1.589101759	2.01E-29	mmgC	60	P45857	acyl-coA dehydrogenase; sporulation	metabolism	PA14_05840
BPAMKIAM_	3.129428403	1.70E-161	mmgC	120	P45857	acyl-coA dehydrogenase; sporulation	metabolism	PA14_05840
BPAMKIAM_	1.261713032	0.000986538	norB	60	Q59647	nitric oxide reducatse	metabolism	PA14_06830
BPAMKIAM_	1.326300564	0.001665032	NA	60	NA	NA	NA	PA14_06840
BPAMKIAM_	1.101798382	0.000104258	NA	60	NA	NA	NA	PA14_06860
BPAMKIAM_	1.251241295	4.84E-08	NA	120	NA	NA	NA	PA14_06860
BPAMKIAM_	1.822416308	0.000892989	NA	120	NA	NA	NA	PA14_06940
BPAMKIAM_	3.583346214	1.11E-166	puuB	120	P37906	putrescine breakdown	metabolism	PA14_06960
BPAMKIAM_	3.068314182	8.47E-27	puuB	35	P37906	putrescine breakdown	metabolism	PA14_06960
BPAMKIAM_	4.430895213	1.27E-82	puuB	60	P37906	putrescine breakdown	metabolism	PA14_06960
BPAMKIAM_	3.484844334	2.72E-32	NA	60	NA	NA	NA	PA14_06970
BPAMKIAM_	1.66046939	2.44E-05	NA	35	NA	NA	NA	PA14_06970
BPAMKIAM_	3.624704908	3.69E-86	NA	120	NA	NA	NA	PA14_06970
BPAMKIAM_	-3.127269925	3.83E-85	paiB	120	P21341	protease synthase; sporulation	metabolism	PA14_09790
BPAMKIAM_	-4.667730889	8.48E-09	NA	120	NA	NA	NA	PA14_09810
BPAMKIAM_	1.064248358	2.81E-05	NA	120	NA	NA	NA	PA14_11790
BPAMKIAM_	1.127374744	6.66E-20	ald	60	Q9FDS1	nicotine catabolism	metabolism	NA
BPAMKIAM_	1.198568914	2.10E-19	ald	120	Q9FDS1	nicotine catabolism	metabolism	NA
BPAMKIAM_	1.136604033	7.46E-14	ald	35	Q9FDS1	nicotine catabolism	metabolism	NA
BPAMKIAM_	1.94263108	5.46E-05	NA	120	NA	NA	NA	PA14_40820
BPAMKIAM_	1.75938133	0.000182681	moaB	60	P0AEZ9	molybdopterin biosynthesis	metabolism	PA14_13260
BPAMKIAM_	1.51738951	0.011160926	moaB	35	P0AEZ9	molybdopterin biosynthesis	metabolism	PA14_13260
BPAMKIAM_	1.8664432	0.006555852	NA	120	NA	NA	NA	NA
BPAMKIAM_	2.413147737	0.000391149	NA	35	NA	NA	NA	NA
BPAMKIAM_	2.373435002	2.04E-06	NA	60	NA	NA	NA	NA

BPAMKIAM_	2.296220886	9.34E-06	narK	60	P10903	nitrate transporter	metabolism	PA14_13770
BPAMKIAM_	1.976165361	2.30E-06	narK	120	P10903	nitrate transporter	metabolism	PA14_13770
BPAMKIAM_	2.16366339	1.25E-06	narK	35	P10903	nitrate transporter	metabolism	PA14_13770
BPAMKIAM_	1.556581059	7.47E-05	narG	120	P09152	nitrate metabolism	metabolism	PA14_13780
BPAMKIAM_	2.396664768	1.93E-08	narG	60	P09152	nitrate metabolism	metabolism	PA14_13780
BPAMKIAM_	2.091021915	3.31E-06	narG	35	P09152	nitrate metabolism	metabolism	PA14_13780
BPAMKIAM_	1.471038285	0.000602092	narY	60	P19318	nitrate reducatse	metabolism	PA14_13800
BPAMKIAM_	1.505981983	9.91E-07	narY	120	P19318	nitrate reducatse	metabolism	PA14_13800
BPAMKIAM_	2.070110242	1.61E-08	narV	120	P0AF32	nitrate reducatse	metabolism	PA14_13830
BPAMKIAM_	1.556588698	0.006072436	narV	60	P0AF32	nitrate reducatse	metabolism	PA14_13830
BPAMKIAM_	2.184216909	0.010191371	surA	60	NA	outermembrane assemly; required for pilus formation	transport	PA14_13840
BPAMKIAM_	2.063479155	1.26E-05	surA	120	NA	outermembrane assemly; required for pilus formation	transport	PA14_13840
BPAMKIAM_	1.689073226	0.000334861	moaA	120	Q44118	molybdopterin biosynthesis	metabolism	PA14_13850
BPAMKIAM_	-1.43161934	3.31E-06	NA	35	NA	NA	NA	PA14_14420
BPAMKIAM_	-1.652940974	1.66E-14	NA	60	NA	NA	NA	PA14_14420
BPAMKIAM_	-1.057180464	1.63E-06	NA	120	NA	NA	NA	PA14_14420
BPAMKIAM_	-1.027239824	5.48E-21	NA	35	NA	NA	NA	PA14_16020
BPAMKIAM_	-1.03309146	0.000780744	NA	120	NA	NA	NA	PA14_16100
BPAMKIAM_	1.109640768	0.003683592	yaeQ	120	NA	unknown	NA	PA14_16210
BPAMKIAM_	1.382636808	1.22E-10	yodB	120	P76345	transcriptional regulator; degradation of aromatic compounds	metabolism	PA14_18060
BPAMKIAM_	1.431345134	6.81E-08	NA	120	NA	NA	NA	PA14_18680
BPAMKIAM_	-1.054461308	0.038791867	NA	120	NA	NA	NA	PA14_18820
BPAMKIAM_	1.581227634	8.25E-13	NA	60	NA	NA	NA	PA14_20460
BPAMKIAM_	1.064680167	1.51E-08	NA	120	NA	NA	NA	PA14_20460
BPAMKIAM_	1.46767688	1.43E-06	NA	35	NA	NA	NA	PA14_20460
BPAMKIAM_	1.618412106	1.84E-10	NA	60	NA	NA	NA	PA14_20470
BPAMKIAM_	1.503655555	6.44E-10	NA	35	NA	NA	NA	PA14_20470
BPAMKIAM_	1.459067278	1.45E-10	NA	35	NA	NA	NA	PA14_20480
BPAMKIAM_	1.040518713	7.80E-06	NA	60	NA	NA	NA	PA14_20480
BPAMKIAM_	1.622110375	1.15E-10	NA	35	NA	NA	NA	PA14_20740
BPAMKIAM_	1.335817868	3.15E-13	fecA	120	P13036	siderophore uptake; signalling receptor	signalling	NA
BPAMKIAM_	1.226020664	5.30E-05	NA	120	NA	NA	NA	NA
BPAMKIAM_	-1.167187208	0.005575216	NA	120	NA	NA	NA	PA14_21920
BPAMKIAM_	-1.531956708	3.43E-12	yjcH	120	P0AF54	membrane protein	transport	PA14_22340
BPAMKIAM_	-1.699905004	4.22E-06	yjcH	60	P0AF54	membrane protein	transport	PA14_22340
BPAMKIAM_	1.077137174	0.000584158	NA	120	NA	NA	NA	PA14_22720
BPAMKIAM_	1.331790303	0.000267114	sasA	60	NA	adaptive response; signal transduction	signalling	PA14_22730
BPAMKIAM_	1.815233833	2.41E-09	sasA	120	NA	adaptive response; signal transduction	signalling	PA14_22730
BPAMKIAM_	2.006893878	1.07E-19	NA	120	NA	NA	NA	PA14_22740
BPAMKIAM_	1.6618377	5.03E-11	NA	60	NA	NA	NA	PA14_22740
BPAMKIAM_	1.186951658	0.00896385	NA	35	NA	NA	NA	PA14_22740
BPAMKIAM_	1.459508248	0.000786816	pgl	120	P74618	glucose metabolism	metabolism	PA14_23080
BPAMKIAM_	1.251608477	0.010054773	NA	120	NA	NA	NA	NA
BPAMKIAM_	1.197355066	3.26E-05	NA	35	NA	NA	NA	PA14_25820
BPAMKIAM_	1.326409984	0.006388049	NA	35	NA	NA	NA	PA14_25830
BPAMKIAM_	1.460821148	0.000460888	NA	60	NA	NA	NA	PA14_25830
BPAMKIAM_	1.603434499	0.014984759	NA	35	NA	NA	NA	NA
BPAMKIAM_	1.020078382	0.033864537	NA	120	NA	NA	NA	NA

BPAMKIAM_	1.325898714	3.29E-20	NA	35	NA	NA	NA	PA14_28600
BPAMKIAM_	-1.041190412	1.02E-12	NA	120	NA	NA	NA	PA14_29330
BPAMKIAM_	1.096828632	0.012490521	pfeS	120	Q04804	sensor protein	signalling	PA14_29360
BPAMKIAM_	-1.197541843	7.97E-15	lecA	120	Q05097	carbohydrate binding; cell-cell adhesion	metabolism	PA14_31290
BPAMKIAM_	-1.139862981	0.00154533	lecA	60	Q05097	carbohydrate binding; cell-cell adhesion	metabolism	PA14_31290
BPAMKIAM_	-1.023371774	2.01E-14	sqr	60	O67931	quinone binding; nucleotide binding	nucleotide_binding	PA14_31350
BPAMKIAM_	-1.24472775	8.17E-24	sqr	120	O67931	quinone binding; nucleotide binding	nucleotide_binding	PA14_31350
BPAMKIAM_	-1.044011371	3.69E-07	NA	60	NA	NA	NA	PA14_31450
BPAMKIAM_	-1.070742159	4.76E-07	acsA	60	P39062	acetyl coenzyme A	metabolism	PA14_31500
BPAMKIAM_	1.310641316	3.43E-11	mdtA	120	P76397	transmembrane transport; xenobiotic efflux	transport	PA14_31870
BPAMKIAM_	1.158471934	2.42E-18	mdtB	120	B7M458	transmembrane transport; xenobiotic efflux	transport	NA
BPAMKIAM_	1.168281676	1.95E-16	mdtC	120	B7L9U9	transmembrane transport; xenobiotic efflux	transport	NA
BPAMKIAM_	1.631197663	2.49E-07	ttgF	120	Q9KWV3	efflux pump	transport	PA14_31920
BPAMKIAM_	1.022887055	0.028040091	fhuA	120	P06971	ferrichrome outer membrane transporter; phage receptor; siderophore uptake	signalling	NA
BPAMKIAM_	-1.064248073	6.82E-05	NA	120	NA	NA	NA	PA14_34050
BPAMKIAM_	-1.294262111	1.31E-10	NA	120	NA	NA	NA	PA14_34070
BPAMKIAM_	1.13692632	0.003700916	NA	120	NA	NA	NA	PA14_34490
BPAMKIAM_	1.445918653	9.43E-08	cmpB	120	Q55106	transmembrane transport; SAPI excision	transport	PA14_34520
BPAMKIAM_	1.137867644	0.00091736	NA	60	NA	NA	NA	PA14_53150
BPAMKIAM_	1.293022843	0.000725663	NA	120	NA	NA	NA	PA14_35570
BPAMKIAM_	1.204710599	3.69E-07	mltF	60	NA	membrane bound murein; flagella construction	motility	PA14_36200
BPAMKIAM_	1.707569624	2.52E-14	mltF	120	NA	membrane bound murein; flagella construction	motility	PA14_36200
BPAMKIAM_	-1.020822807	9.59E-11	NA	120	NA	NA	NA	PA14_36470
BPAMKIAM_	1.1583614	5.18E-09	NA	35	NA	NA	NA	PA14_36560
BPAMKIAM_	1.311388046	0.00078505	ligD	120	Q9I1X7	NHEJ protein	nucleotide_binding	PA14_36910
BPAMKIAM_	1.058363511	6.96E-08	NA	120	NA	NA	NA	PA14_39090
BPAMKIAM_	1.124419469	1.59E-11	NA	60	NA	NA	NA	PA14_39090
BPAMKIAM_	-1.067595193	3.83E-09	NA	120	NA	NA	NA	PA14_39270
BPAMKIAM_	1.101983038	3.21E-05	metE	120	P25665	methyl group transfer	metabolism	PA14_39590
BPAMKIAM_	1.191478537	0.038992177	aroH	120	P80574	aromatic amino acid biosynthesis	metabolism	NA
BPAMKIAM_	-1.187850062	7.96E-07	NA	120	NA	NA	NA	PA14_40100
BPAMKIAM_	1.355412025	0.007673684	rutR	120	P0ACU2	transcriptional regulator; represses degradation of pyrimide and purine	metabolism	PA14_40380
BPAMKIAM_	1.098442641	0.039598909	rfnT	120	A6X7E7	riboflavin transmembrane transport	transport	PA14_40620
BPAMKIAM_	1.083175103	0.006871102	NA	120	NA	NA	NA	PA14_40780
BPAMKIAM_	1.50704939	0.005297368	yfcA	120	P0AD30	membrane transport	transport	PA14_40940
BPAMKIAM_	1.156998741	4.86E-32	NA	120	NA	NA	NA	PA14_43550
BPAMKIAM_	-1.031199915	1.95E-37	ccoN	120	D9IA43	cytochrome c oxidase	metabolism	NA
BPAMKIAM_	-1.455329918	1.61E-08	NA	120	NA	NA	NA	PA14_44390
BPAMKIAM_	-1.087262834	1.60E-22	ccoP	120	D9IA45	cytochrome c oxidase	metabolism	PA14_44360
BPAMKIAM_	4.872301493	4.40E-78	mdtJ	120	P69212	spermidine export protein	transport	PA14_44520
BPAMKIAM_	2.688084983	3.28E-16	mdtJ	60	P69212	spermidine export protein	transport	PA14_44520
BPAMKIAM_	1.334359438	0.000134353	mdtJ	35	P69212	spermidine export protein	transport	PA14_44520
BPAMKIAM_	4.87649411	3.53E-28	mdtI	120	P69210	spermidine export protein	transport	PA14_44530
BPAMKIAM_	-1.063814363	0.00190587	fabR	60	NA	repressor of fabA and fabB	metabolism	PA14_44540
BPAMKIAM_	-1.168947815	1.65E-07	fabR	120	NA	repressor of fabA and fabB	metabolism	PA14_44540
BPAMKIAM_	-2.129942302	0.000134353	NA	35	Q9I3H5	oxidoreductase	metabolism	PA14_44560
BPAMKIAM_	-1.727341696	0.000431222	NA	60	Q9I3H5	oxidoreductase	metabolism	PA14_44560
BPAMKIAM_	-1.342358185	1.06E-08	uacT	120	Q46821	uric acid transport	transport	PA14_44950

BPAMKIAM_	1.746864017	0.00063265	NA	120	NA	NA	NA	PA14_45470
BPAMKIAM_	1.094533451	6.31E-24	ylxH	35	NA	flagellum site determinant	motility	PA14_45640
BPAMKIAM_	1.59304542	3.26E-25	flhF	35	NA	flagellar biosynthesis	motility	PA14_45660
BPAMKIAM_	1.142924667	1.07E-14	flhF	60	NA	flagellar biosynthesis	motility	PA14_45660
BPAMKIAM_	1.857222847	2.46E-43	flhA	35	NA	flagellar rod protein	motility	PA14_45680
BPAMKIAM_	1.334324242	1.09E-28	flhA	60	NA	flagellar rod protein	motility	PA14_45680
BPAMKIAM_	1.086301458	1.23E-09	fliN	35	NA	flagellar moto switch	motility	PA14_45790
BPAMKIAM_	1.174923142	3.28E-34	NA	120	NA	NA	NA	PA14_45830
BPAMKIAM_	1.314504563	1.49E-27	NA	60	NA	NA	NA	PA14_45830
BPAMKIAM_	-1.069510947	0.01140196	NA	60	NA	NA	NA	PA14_46540
BPAMKIAM_	-1.04260299	6.96E-08	NA	120	NA	NA	NA	PA14_46540
BPAMKIAM_	-1.033737539	0.039163764	NA	60	NA	NA	NA	PA14_46550
BPAMKIAM_	-1.028619612	1.36E-07	NA	120	NA	NA	NA	PA14_46550
BPAMKIAM_	-1.141910502	6.30E-05	napB	120	NA	nitrate metabolism	metabolism	PA14_49260
BPAMKIAM_	-1.128860657	3.22E-16	napC	120	NA	nitrate metabolism	metabolism	PA14_49270
BPAMKIAM_	1.691820512	2.17E-13	fliJ	35	NA	flagellar protein chemotaxis	motility	PA14_50080
BPAMKIAM_	1.366872188	2.72E-07	fliJ	60	NA	flagellar protein chemotaxis	motility	PA14_50080
BPAMKIAM_	1.328154333	4.76E-07	fliI	60	NA	flagellar protein	motility	PA14_50100
BPAMKIAM_	1.461162189	2.36E-08	fliI	35	NA	flagellar protein	motility	PA14_50100
BPAMKIAM_	1.17153518	4.58E-06	NA	35	NA	NA	NA	PA14_50110
BPAMKIAM_	1.397326769	5.00E-37	fliG	35	NA	flagellar motor switch	motility	PA14_50130
BPAMKIAM_	1.690740752	2.13E-48	NA	35	NA	NA	NA	PA14_50140
BPAMKIAM_	1.12702555	1.24E-23	NA	60	NA	NA	NA	PA14_50140
BPAMKIAM_	1.072981562	5.02E-05	fliE	35	NA	flagellar hook associated	motility	PA14_50160
BPAMKIAM_	1.804241108	3.05E-24	atoC	60	NA	response to spermidine motility chemotaxis and flagellum regulation	motility	PA14_50180
BPAMKIAM_	2.182598141	1.93E-17	atoC	35	NA	response to spermidine motility chemotaxis and flagellum regulation	motility	PA14_50180
BPAMKIAM_	1.016185503	2.85E-24	NA	60	NA	NA	NA	PA14_50340
BPAMKIAM_	1.262878895	4.09E-27	NA	60	NA	NA	NA	PA14_50360
BPAMKIAM_	1.043370799	5.51E-25	NA	35	NA	NA	NA	PA14_50360
BPAMKIAM_	1.281123889	5.71E-11	NA	35	NA	NA	NA	PA14_50380
BPAMKIAM_	1.405569625	7.89E-18	NA	60	NA	NA	NA	PA14_50380
BPAMKIAM_	1.065002375	1.49E-10	flgI	120	NA	flagellar rod protein	motility	PA14_50410
BPAMKIAM_	1.204051232	5.72E-05	flgI	35	NA	flagellar rod protein	motility	PA14_50410
BPAMKIAM_	1.503268278	2.08E-12	flgI	60	NA	flagellar rod protein	motility	PA14_50410
BPAMKIAM_	1.676232555	2.08E-12	flgH	60	NA	flagellar rod protein	motility	PA14_50420
BPAMKIAM_	1.577401053	1.98E-10	flgH	35	NA	flagellar rod protein	motility	PA14_50420
BPAMKIAM_	1.269951549	6.01E-10	flgG	35	NA	flagellar rod protein	motility	PA14_50430
BPAMKIAM_	1.423850357	1.46E-15	flgG	60	NA	flagellar rod protein	motility	PA14_50430
BPAMKIAM_	1.498064847	2.80E-26	flgF	60	NA	flagellar rod protein	motility	PA14_50440
BPAMKIAM_	1.280184239	1.22E-21	flgF	120	NA	flagellar rod protein	motility	PA14_50440
BPAMKIAM_	1.240885682	2.37E-27	flgE	60	NA	flagellar hook associated	motility	PA14_50450
BPAMKIAM_	1.395180803	2.45E-16	flgD	60	NA	flagellar rod protein	motility	PA14_50460
BPAMKIAM_	1.031690981	0.002344433	flgC	60	NA	flagellar rod protein	motility	PA14_50470
BPAMKIAM_	1.353172571	1.21E-12	flgB	60	NA	flagellar rod protein	motility	PA14_50480
BPAMKIAM_	1.086537276	0.000211569	baeR	120	P69229	transcriptional regulator; responds to membane stress; links to CRISPR	transcriptional_regulat	PA14_52250
BPAMKIAM_	1.282146537	0.000462698	baeR	60	P69229	transcriptional regulator; responds to membane stress; links to CRISPR	transcriptional_regulat	PA14_52250
BPAMKIAM_	-1.080980824	0.002940596	NA	120	P32382	NADH oxidase	metabolism	PA14_53400
BPAMKIAM_	-1.110443863	0.036822144	NA	60	NA	NA	NA	PA14_28680

BPAMKIAM_	-1.060375447	4.37E-06	NA	60	NA	NA	NA	PA14_55750
BPAMKIAM_	-1.123868098	2.38E-07	NA	120	NA	NA	NA	PA14_55750
BPAMKIAM_	-1.1016342	3.76E-05	NA	35	NA	NA	NA	PA14_55750
BPAMKIAM_	-1.105292811	2.32E-08	NA	120	NA	NA	NA	PA14_55790
BPAMKIAM_	-1.046628384	7.52E-12	NA	120	NA	NA	NA	PA14_55940
BPAMKIAM_	-6.086510847	3.42E-20	NA	120	NA	NA	NA	PA14_56750
BPAMKIAM_	-5.574445463	7.70E-19	argO	120	NA	arginine export	transport	PA14_56770
BPAMKIAM_	1.102864217	5.13E-05	NA	60	NA	NA	NA	PA14_56830
BPAMKIAM_	1.199956023	8.48E-09	NA	120	NA	NA	NA	PA14_56830
BPAMKIAM_	1.279287927	5.23E-05	NA	120	NA	NA	NA	PA14_56840
BPAMKIAM_	1.109353032	0.003669209	NA	60	NA	NA	NA	PA14_56840
BPAMKIAM_	1.148770548	6.76E-06	NA	120	NA	NA	NA	PA14_56850
BPAMKIAM_	-1.093148534	0.01615761	NA	35	NA	NA	NA	PA14_57640
BPAMKIAM_	-1.181562117	2.59E-06	NA	60	NA	NA	NA	PA14_57640
BPAMKIAM_	1.303923547	5.67E-31	cysNC	120	NA	sulfate transport	transport	PA14_57710
BPAMKIAM_	1.345191748	8.43E-08	NA	60	NA	NA	NA	PA14_58560
BPAMKIAM_	1.444799439	6.71E-14	NA	120	NA	NA	NA	PA14_58560
BPAMKIAM_	1.128692086	0.002795044	NA	120	NA	NA	NA	PA14_58580
BPAMKIAM_	1.368636291	0.019314339	esiB	120	NA	immunoglobulin binding protein; inhibits ROS	metabolism	PA14_58600
BPAMKIAM_	-1.164357601	0.009899312	NA	60	NA	NA	NA	PA14_59630
BPAMKIAM_	-1.177290379	2.97E-14	NA	120	NA	NA	NA	PA14_61380
BPAMKIAM_	1.035314352	0.044226138	NA	120	NA	NA	NA	PA14_63880
BPAMKIAM_	-1.467974094	2.31E-05	NA	120	NA	NA	NA	PA14_65840
BPAMKIAM_	1.123506304	0.031702472	NA	120	NA	NA	NA	PA14_65940
BPAMKIAM_	2.039194822	9.91E-51	ynfM	120	P43531	transmembrane protein	transport	PA14_66510
BPAMKIAM_	1.021919301	5.78E-07	NA	35	NA	NA	NA	PA14_67440
BPAMKIAM_	1.084988561	0.00137536	NA	120	NA	NA	NA	PA14_68440
BPAMKIAM_	1.000979304	0.001794574	NA	60	NA	NA	NA	PA14_68890
BPAMKIAM_	1.126540701	2.32E-19	NA	120	NA	NA	NA	PA14_68900
BPAMKIAM_	1.397794222	1.59E-11	NA	60	NA	NA	NA	PA14_68900
BPAMKIAM_	1.172371885	6.96E-07	aspA	60	P0AC38	aspartate ammonia-lyase	metabolism	PA14_71650
BPAMKIAM_	1.454660705	1.98E-18	aspA	120	P0AC38	aspartate ammonia-lyase	metabolism	PA14_71650
BPAMKIAM_	-1.046449467	2.41E-05	NA	120	NA	NA	NA	PA14_72060
BPAMKIAM_	1.423668598	3.31E-06	ivy	35	Q9HXB1	inhibitor of vertebrate lysozyme	stress	PA14_72360
BPAMKIAM_	1.413515077	6.27E-16	ivy	60	Q9HXB1	inhibitor of vertebrate lysozyme	stress	PA14_72360
BPAMKIAM_	1.318105322	0.000360099	NA	35	NA	NA	NA	PA14_72370
BPAMKIAM_	1.551554114	2.62E-05	kgtP	120	P0AEX3	cation symporter; membrane transport	transport	PA14_72960
BPAMKIAM_	1.657123321	5.50E-05	kgtP	60	P0AEX3	cation symporter; membrane transport	transport	PA14_72960