B number	Gene name	mRNA intensity	mRNA present	# of tryptic peptides predicted	Protein detected - total list	# of tryptic peptides detected (total list)	Proteins detected - membrane sample	# of tryptic peptides detected (membrane sample)	Membrane protein assignment	Gene description	Functional category
b0002	thrA	13624	**P**	39	**P**	18	**P(m)**	2		aspartokinase I, homoserine dehydrogenase I	Metabolism of small molecules
b0003	thrB	6781	**P**	9	**P**	3		0		homoserine kinase	Metabolism of small molecules
b0004	thrC	15039	**P**	18	**P**	10		0		threonine synthase	Metabolism of small molecules
b0008	talB	20561	**P**	20	**P**	13		0		transaldolase B	Metabolism of small molecules
b0014	dnaK	13283	**P**	32	**P**	23		0		chaperone Hsp70; DNA biosynthesis; autoregulated heat shock proteins	Cell processes
b0015	dnaJ	4492	**P**	13	**P**	4	**P(m)**	1		chaperone with DnaK; heat shock protein	Cell processes
b0029	lytB	1331	**P**	16	**P**	2		0		control of stringent response; involved in penicillin tolerance	Global functions
b0032	carA	9312	**P**	14	**P**	8		0		carbamoyl-phosphate synthetase, glutamine (small) subunit	Metabolism of small molecules
b0033	carB	7656	**P**	48	**P**	17		0		carbamoyl-phosphate synthase large subunit	Metabolism of small molecules
b0048	folA	1588	**P**	7	**P**	1		0		dihydrofolate reductase type I; trimethoprim resistance	Metabolism of small molecules
b0053	surA	3825	**P**	19	**P**	4	**P(m)**	1	GenProt	peptidyl-prolyl cis-trans isomerase (PPIase), involved in maturation of outer membrane proteins (1st module)	Cell processes
b0054	imp	2737	**P**	42	**P**	5	**P(m)**	5	GenProt	organic solvent tolerance	Cell processes
b0071	leuD	4770	**P**	10	**P**	9		0		isopropylmalate isomerase subunit	Metabolism of small molecules
b0072	leuC	10437	**P**	18	**P**	9		0		3-isopropylmalate isomerase (dehydratase) subunit	Metabolism of small molecules
b0090	murG	1052	**P**	17	**P**	1	**P(m)**	1	GenProt-PHD	UDP-N-acetylglucosamine:N-acetylmuramyl- (pentapeptide) pyrophosphoryl-undecaprenol N-acetylglucosamine transferase	Structural elements
b0094	ftsA	4248	**P**	18		0		0	GenProt	ATP-binding cell division protein, septation process, complexes with FtsZ, associated with junctions of inner and outer membranes	Cell processes
b0095	ftsZ	9268	**P**	22	**P**	6	**P(m)**	2		cell division; forms circumferential ring; tubulin-like GTP-binding protein and GTPase	Cell processes
b0103	yacE	884	**P**	7		0		0		putative DNA repair protein	Miscellaneous
b0104	guaC	3117	**P**	13	**P**	3		0		GMP reductase	Metabolism of small molecules

B number	Gene name	mRNA intensity	mRNA present	# of tryptic peptides predicted	Protein detected - total list	# of tryptic peptides detected (total list)	Proteins detected - membrane sample	# of tryptic peptides detected (membrane sample)	Membrane protein assignment	Gene description	Functional category
b0109	nadC	273	**P**	15		0		0		quinolinate phosphoribosyltransferase	Metabolism of small molecules
b0113	pdhR	311	**P**	8		0		0		transcriptional regulator for pyruvate dehydrogenase complex	Metabolism of small molecules
b0114	aceE	15349	**P**	44	**P**	24	**P(m)**	1		pyruvate dehydrogenase (decarboxylase component)	Metabolism of small molecules
b0115	aceF	8150	**P**	34	**P**	13		0		pyruvate dehydrogenase (dihydrolipoyltransacetylase component)	Metabolism of small molecules
b0116	lpdA	21822	**P**	17	**P**	15	**P(m)**	4		oxodehydrogenase and pyruvate complexes; L-protein of glycine cleavage complex	Metabolism of small molecules
b0118	acnB	4087	**P**	41	**P**	22		0		aconitate hydrase B	Metabolism of small molecules
b0121	speE	11091	**P**	8	**P**	2		0		spermidine synthase = putrescine aminopropyltransferase	Metabolism of small molecules
b0124	gcd	408	**P**	32	**P**	1	**P(m)**	1	GenProt-PHD	glucose dehydrogenase	Metabolism of small molecules
b0125	hpt	2328	**P**	8		0		0		hypoxanthine phosphoribosyltransferase	Metabolism of small molecules
b0127	yadG	952	**P**	16		0		0		putative ATP-binding component of a transport system	Cell processes
b0133	panC	1978	**P**	15	**P**	5		0		pantothenate synthetase	Metabolism of small molecules
b0134	panB	5716	**P**	6	**P**	3		0		3-methyl-2-oxobutanoate hydroxymethyltransferase	Metabolism of small molecules
b0145	dksA	5687	**P**	5		0		0		dnaK suppressor protein	Macromolecule metabolism
b0150	fhuA	1105	**P**	38	**P**	3	**P(m)**	3	MP-GenProt	outer membrane protein receptor for ferrichrome, colicin M, and phages T1, T5, and phi80	Structural elements
b0156	yadR	1779	**P**	4	**P**	2		0		orf, hypothetical protein	Open reading frames
b0159	pfs	1457	**P**	8	**P**	1		0	PHD	orf, hypothetical protein	Metabolism of small molecules
b0161	htrA	1016	**P**	17	**P**	4	**P(m)**	1		periplasmic serine protease Do; heat shock protein HtrA	Macromolecule metabolism
b0163	yaeH	1127	**P**	7	**P**	5		0		putative structural protein	Miscellaneous
b0166	dapD	4162	**P**	13	**P**	9		0		2,3,4,5-tetrahydropyridine-2-carboxylate N-succinyltransferase	Metabolism of small molecules

B number	Gene name	mRNA intensity	mRNA present	# of tryptic peptides predicted	Protein detected - total list	# of tryptic peptides detected (total list)	Proteins detected - membrane sample	# of tryptic peptides detected (membrane sample)	Membrane protein assignment	Gene description	Functional category
b0168	map	3407	**P**	16	**P**	2		0		methionine aminopeptidase	Macromolecule metabolism
b0169	rpsB	22176	**P**	11	**P**	10		0		30S ribosomal subunit protein S2	Structural elements
b0170	tsf	9865	**P**	18	**P**	13		0		protein chain elongation factor EF-Ts	Macromolecule metabolism
b0171	pyrH	8142	**P**	11		0		0		uridylate kinase	Metabolism of small molecules
b0172	frr	3673	**P**	9	**P**	3		0		ribosome releasing factor	Macromolecule metabolism
b0177	yaeT	4380	**P**	40	**P**	12	**P(m)**	12	GenProt	orf, hypothetical protein	Open reading frames
b0180	fabZ	7246	**P**	6		0		0		(3R)-hydroxymyristol acyl carrier protein dehydratase	Metabolism of small molecules
b0185	accA	1969	**P**	18	**P**	6		0		acetylCoA carboxylase, carboxytransferase component, alpha subunit	Metabolism of small molecules
b0194	proS	1361	**P**	29	**P**	11		0		proline tRNA synthetase	Macromolecule metabolism
b0197	yaeC	16241	**P**	13	**P**	7	**P(m)**	7		putative lipoprotein	Miscellaneous
b0200	yaeD	1976	**P**	9		0		0		putative phosphatase	Miscellaneous
b0220	ykfE	3358	**P**	8	**P**	1		0		orf, hypothetical protein	Open reading frames
b0222	gmhA	3000	**P**	10	**P**	4		0		phosphoheptose isomerase	Structural elements
b0237	pepD	1500	**P**	19	**P**	8		0		aminoacyl-histidine dipeptidase (peptidase D)	Macromolecule metabolism
b0243	proA	794	**P**	20	**P**	4		0		gamma-glutamylphosphate reductase	Metabolism of small molecules
b0325	yahK	2065	**P**	16	**P**	5		0		putative oxidoreductase	Miscellaneous
b0381	ddlA	465	**P**	15	**P**	1		0		D-alanine-D-alanine ligase A	Structural elements
b0386	proC	1126	**P**	8		0		0		pyrroline-5-carboxylate reductase	Metabolism of small molecules
b0410	yajD	1429	**P**	4		0		0		orf, hypothetical protein	Open reading frames

B number	Gene name	mRNA intensity	mRNA present	# of tryptic peptides predicted	Protein detected - total list	# of tryptic peptides detected (total list)	Proteins detected - membrane sample	# of tryptic peptides detected (membrane sample)	Membrane protein assignment	Gene description	Functional category
b0411	tsx	2270	**P**	10	**P**	1	**P(m)**	1	GenProt	nucleoside channel; receptor of phage T6 and colicin K	Cell processes
b0415	ribH	3781	**P**	5	**P**	2		0		riboflavin synthase, beta chain	Metabolism of small molecules
b0416	nusB	3916	**P**	8	**P**	1		0		transcription termination; L factor	Macromolecule metabolism
b0419	yajO	1747	**P**	19	**P**	2		0		putative NAD(P)H-dependent xylose reductase	Open reading frames
b0421	ispA	2792	**P**	12		0		0		geranyltranstransferase (farnesyldiphosphate synthase)	Metabolism of small molecules
b0424	thiJ	512	**P**	7	**P**	1		0		4-methyl-5(beta-hydroxyethyl)-thiazole monophosphate synthesis	Metabolism of small molecules
b0426	yajQ	3822	**P**	10	**P**	3		0		orf, hypothetical protein	Open reading frames
b0434	yajG	3525	**P**	7	**P**	4	**P(m)**	4		putative polymerase/proteinase	Miscellaneous
b0436	tig	7545	**P**	24	**P**	17		0		trigger factor; a molecular chaperone involved in cell division	Cell processes
b0437	clpP	4300	**P**	7		0		0		ATP-dependent proteolytic subunit of clpA-clpP serine protease, heat shock protein F21.5	Macromolecule metabolism
b0438	clpX	2012	**P**	22	**P**	8		0		ATP-dependent specificity component of clpP serine protease, chaperone	Macromolecule metabolism
b0439	lon	3719	**P**	37	**P**	8		0		DNA-binding, ATP-dependent protease La; heat shock K-protein	Global functions
b0441	ybaU	1170	**P**	33	**P**	7	**P(m)**	7		putative protease maturation protein	Open reading frames
b0450	glnK	98	**A**	7	**P**	2		0		nitrogen regulatory protein P-II 2	Metabolism of small molecules
b0463	acrA	5723	**P**	21	**P**	5	**P(m)**	5	GenProt	acridine efflux pump	Cell processes
b0469	apt	3354	**P**	8	**P**	4		0		adenine phosphoribosyltransferase	Metabolism of small molecules
b0473	htpG	970	**P**	37	**P**	14		0		chaperone Hsp90, heat shock protein C 62.5	Cell processes
b0474	adk	7814	**P**	13	**P**	4		0		adenylate kinase activity; pleiotropic effects on glycerol-3-phosphate acyltransferase activity	Metabolism of small molecules
b0480	ushA	1930	**P**	21	**P**	4		0		UDP-sugar hydrolase (5'-nucleotidase)	Metabolism of small molecules

B number	Gene name	mRNA intensity	mRNA present	# of tryptic peptides predicted	Protein detected - total list	# of tryptic peptides detected (total list)	Proteins detected - membrane sample	# of tryptic peptides detected (membrane sample)	Membrane protein assignment	Gene description	Functional category
b0490	ybbL	442	**P**	12		0		0		putative ATP-binding component of a transport system	Cell processes
b0492	ybbN	2692	**P**	12	**P**	4		0		putative thioredoxin-like protein	Miscellaneous
b0523	purE	3543	**P**	5		0		0	PHD	phosphoribosylaminoimidazole carboxylase = AIR carboxylase, catalytic subunit	Metabolism of small molecules
b0525	ppiB	8209	**P**	7	**P**	1		0		peptidyl-prolyl cis-trans isomerase B (rotamase B)	Macromolecule metabolism
b0565	ompT	47106	**P**	17	**P**	6	**P(m)**	6	MP-GenProt	outer membrane protein 3b (a), protease VII	Structural elements
b0578	nfnB	2638	**P**	11	**P**	4		0		oxygen-insensitive NAD(P)H nitroreductase	Cell processes
b0596	entA	371	**P**	11		0		0		2,3-dihydro-2,3-dihydroxybenzoate dehydrogenase, enterochelin biosynthesis	Metabolism of small molecules
b0605	ahpC	38698	**P**	9	**P**	9		0		alkyl hydroperoxide reductase, C22 subunit; detoxification of hydroperoxides	Cell processes
b0606	ahpF	3105	**P**	24	**P**	6		0		alkyl hydroperoxide reductase, F52a subunit; detoxification of hydroperoxides	Cell processes
b0607	ybdQ	1709	**P**	6	**P**	1		0		orf, hypothetical protein	Open reading frames
b0623	cspE	6086	**P**	5	**P**	4	**P(m)**	1		cold shock protein	Miscellaneous
b0632	dacA	2227	**P**	22	**P**	5	**P(m)**	5	GenProt	D-alanyl-D-alanine carboxypeptidase, fraction A; penicillin-binding protein 5	Cell processes
b0633	rlpA	1907	**P**	10	**P**	3	**P(m)**	3	GenProt	a minor lipoprotein	Macromolecule metabolism
b0655	gltI	5452	**P**	14	**P**	5		0		glutamate/aspartate transport system periplasmic binding transport protein	Cell processes
b0660	ybeZ	3091	**P**	18	**P**	5		0		putative ATP-binding protein in pho regulon	Cell processes
b0674	asnB	736	**P**	30	**P**	5		0		asparagine synthetase B	Metabolism of small molecules
b0679	nagE	892	**P**	17	**P**	5	**P(m)**	5	GenProt-PHD	PTS system, N-acetylglucosamine-specific enzyme IIABC	Cell processes
b0680	glnS	1254	**P**	31	**P**	6		0		glutamine tRNA synthetase	Macromolecule metabolism
b0683	fur	4618	**P**	8	**P**	4		0		negative regulator	Global functions

B number	Gene name	mRNA intensity	mRNA present	# of tryptic peptides predicted	Protein detected - total list	# of tryptic peptides detected (total list)	Proteins detected - membrane sample	# of tryptic peptides detected (membrane sample)	Membrane protein assignment	Gene description	Functional category
b0684	fldA	6895	**P**	7	**P**	2		0		flavodoxin 1	Metabolism of small molecules
b0686	ybfF	386	**P**	13	**P**	1		0		orf, hypothetical protein	Open reading frames
b0688	pgm	1043	**P**	24	**P**	6		0		phosphoglucomutase	Metabolism of small molecules
b0710	ybgI	3721	**P**	9	**P**	4		0		orf, hypothetical protein	Open reading frames
b0720	gltA	11527	**P**	17	**P**	12	**P(m)**	2	PHD	citrate synthase	Metabolism of small molecules
b0723	sdhA	18927	**P**	29	**P**	12	**P(m)**	11		succinate dehydrogenase, flavoprotein subunit	Metabolism of small molecules
b0724	sdhB	5467	**P**	15	**P**	11	**P(m)**	11		succinate dehydrogenase, iron sulfur protein	Metabolism of small molecules
b0727	sucB	20532	**P**	15	**P**	5		0		2-oxoglutarate dehydrogenase (dihydrolipoyltranssuccinase E2 component)	Metabolism of small molecules
b0729	sucD	7268	**P**	15	**P**	5		0		succinyl-CoA synthetase, alpha subunit	Metabolism of small molecules
b0740	tolB	6246	**P**	15	**P**	5		0		periplasmic protein involved in the tonb-independent uptake of group A colicins	Extrachromosomal
b0741	pal	13638	**P**	7	**P**	5	**P(m)**	5	GenProt	peptidoglycan-associated lipoprotein	Macromolecule metabolism
b0742	ybgF	6035	**P**	8	**P**	3		0		orf, hypothetical protein	Open reading frames
b0750	nadA	2364	**P**	9		0		0		quinolinate synthetase, A protein	Metabolism of small molecules
b0754	aroG	5196	**P**	17	**P**	5		0		3-deoxy-D-arabinoheptulosonate-7-phosphate synthase (DAHP synthetase, phenylalanine repressible)	Metabolism of small molecules
b0755	gpmA	5169	**P**	13	**P**	13		0		phosphoglyceromutase 1	Metabolism of small molecules
b0756	galM	4960	**P**	13	**P**	6		0		galactose-1-epimerase (mutarotase)	Metabolism of small molecules
b0759	galE	1742	**P**	15	**P**	2		0		UDP-galactose-4-epimerase	Metabolism of small molecules
b0763	modA	999	**P**	17		0		0		molybdate-binding periplasmic protein; permease	Cell processes
b0772	ybhC	2605	**P**	12	**P**	4	**P(m)**	4		putative pectinesterase	Miscellaneous

B number	Gene name	mRNA intensity	mRNA present	# of tryptic peptides predicted	Protein detected - total list	# of tryptic peptides detected (total list)	Proteins detected - membrane sample	# of tryptic peptides detected (membrane sample)	Membrane protein assignment	Gene description	Functional category
b0775	bioB	3252	**P**	16		0		0		biotin synthesis, sulfur insertion?	Metabolism of small molecules
b0778	bioD	1308	**P**	7	**P**	2		0		dethiobiotin synthetase	Metabolism of small molecules
b0782	moaB	3559	**P**	9	**P**	4		0		molybdopterin biosynthesis, protein B	Metabolism of small molecules
b0805	b0805	366	**P**	29		0		0	MP-GenProt	putative outer membrane receptor for iron transport	Miscellaneous
b0809	glnQ	3281	**P**	6	**P**	2	**P(m)**	2		ATP-binding component of glutamine high-affinity transport system	Cell processes
b0811	glnH	16120	**P**	14	**P**	5		0		periplasmic glutamine-binding protein; permease	Cell processes
b0812	dps	22609	**P**	12	**P**	6		0		global regulator, starvation conditions	Global functions
b0814	ompX	6175	**P**	6	**P**	2	**P(m)**	2	MP-GenProt	outer membrane protein X	Structural elements
b0819	ybiS	2262	**P**	12	**P**	1		0		orf, hypothetical protein	Open reading frames
b0826	moeB	193	**A**	9		0		0	PHD	molybdopterin biosynthesis	Metabolism of small molecules
b0830	b0830	1054	**P**	21	**P**	3		0		putative transport protein	Cell processes
b0854	potF	2781	**P**	14		0		0		periplasmic putrescine-binding protein; permease protein	Cell processes
b0863	artI	4421	**P**	12	**P**	2		0		arginine 3rd transport system periplasmic binding protein	Cell processes
b0864	artP	4200	**P**	5		0		0		ATP-binding component of 3rd arginine transport system	Cell processes
b0865	ybjP	2647	**P**	7	**P**	4	**P(m)**	4		putative enzyme	Miscellaneous
b0878	b0878	514	**P**	21		0		0	MP-GenProt	putative membrane protein	Miscellaneous
b0888	trxB	1462	**P**	12	**P**	4		0		thioredoxin reductase	Metabolism of small molecules
b0891	lolA	2667	**P**	12	**P**	3		0		periplasmic protein effects translocation of lipoproteins from inner membrane to outer	Cell processes
b0893	serS	643	**P**	22	**P**	9		0		serine tRNA synthetase; also charges selenocystein tRNA with serine	Macromolecule metabolism

B number	Gene name	mRNA intensity	mRNA present	# of tryptic peptides predicted	Protein detected - total list	# of tryptic peptides detected (total list)	Proteins detected - membrane sample	# of tryptic peptides detected (membrane sample)	Membrane protein assignment	Gene description	Functional category
b0902	pflA	875	**P**	14		0		0		pyruvate formate lyase activating enzyme 1	Metabolism of small molecules
b0903	pflB	5044	**P**	38	**P**	15	**P(m)**	1		formate acetyltransferase 1	Metabolism of small molecules
b0907	serC	5838	**P**	17	**P**	10		0		3-phosphoserine aminotransferase	Metabolism of small molecules
b0910	cmk	2547	**P**	10	**P**	3		0		cytidylate kinase	Metabolism of small molecules
b0911	rpsA	29325	**P**	23	**P**	20	**P(m)**	3		30S ribosomal subunit protein S1	Structural elements
b0914	msbA	751	**P**	26	**P**	3	**P(m)**	3	GenProt-PHD	ATP-binding transport protein; multicopy suppressor of htrB	Cell processes
b0927	ycbL	1614	**P**	8	**P**	1		0		orf, hypothetical protein	Open reading frames
b0928	aspC	8281	**P**	23	**P**	16		0		aspartate aminotransferase	Metabolism of small molecules
b0929	ompF	32813	**P**	16	**P**	6	**P(m)**	6	MP-GenProt	outer membrane protein 1a (Ia;b;F)	Structural elements
b0945	pyrD	1955	**P**	20	**P**	2	**P(m)**	2		dihydro-orotate dehydrogenase	Metabolism of small molecules
b0948	ycbY	794	**P**	36	**P**	1		0		putative oxidoreductase	Open reading frames
b0957	ompA	36891	**P**	16	**P**	19	**P(m)**	19	MP-GenProt	outer membrane protein 3a (II*;G;d)	Structural elements
b0963	mgsA	3808	**P**	6		0		0		methylglyoxal synthase	Metabolism of small molecules
b0965	b0965	730	**P**	8	**P**	2		0		orf, hypothetical protein	Open reading frames
b1002	agp	2197	**P**	15	**P**	6	**P(m)**	1		periplasmic glucose-1-phosphatase	Metabolism of small molecules
b1004	wrbA	6589	**P**	9	**P**	7		0		trp repressor binding protein; affects association of trp repressor and operator	Metabolism of small molecules
b1014	putA	358	**P**	57	**P**	2		0		proline dehydrogenase, P5C dehydrogenase	Metabolism of small molecules
b1018	ycdO	1237	**P**	21		0		0		orf, hypothetical protein	Open reading frames
b1048	mdoG	3791	**P**	25	**P**	7		0		periplasmic glucans biosynthesis protein	Cell processes

B number	Gene name	mRNA intensity	mRNA present	# of tryptic peptides predicted	Protein detected - total list	# of tryptic peptides detected (total list)	Proteins detected - membrane sample	# of tryptic peptides detected (membrane sample)	Membrane protein assignment	Gene description	Functional category
b1062	pyrC	4514	**P**	16	**P**	5		0		dihydro-orotase	Metabolism of small molecules
b1075	flgD	216	**P**	2		0		0		flagellar biosynthesis, initiation of hook assembly	Structural elements
b1076	flgE	63	**A**	9		0		0		flagellar biosynthesis, hook protein	Structural elements
b1077	flgF	175	**P**	9		0		0		flagellar biosynthesis, cell-proximal portion of basal-body rod	Structural elements
b1078	flgG	253	**A**	8		0		0		flagellar biosynthesis, cell-distal portion of basal-body rod	Structural elements
b1083	flgL	68	**A**	17		0		0		flagellar biosynthesis; hook-filament junction protein	Structural elements
b1084	rne	1642	**P**	43	**P**	5	**P(m)**	3	MP	RNase E, membrane attachment, mRNA turnover, maturation 5S RNA	Macromolecule metabolism
b1088	yceD	23085	**P**	6	**P**	2		0		orf, hypothetical protein	Open reading frames
b1091	fabH	5633	**P**	13	**P**	4		0	PHD	3-oxoacyl-[acyl-carrier-protein] synthase III; acetylCoA ACP transacylase	Metabolism of small molecules
b1092	fabD	8101	**P**	11	**P**	2		0		malonyl-CoA-[acyl-carrier-protein] transacylase	Metabolism of small molecules
b1093	fabG	24478	**P**	10	**P**	4		0		3-oxoacyl-[acyl-carrier-protein] reductase	Metabolism of small molecules
b1094	acpP	42769	**P**	3	**P**	3		0		acyl carrier protein	Metabolism of small molecules
b1095	fabF	645	**A**	14	**P**	3		0		3-oxoacyl-[acyl-carrier-protein] synthase II	Metabolism of small molecules
b1100	ycfH	598	**P**	15		0		0		orf, hypothetical protein	Open reading frames
b1107	ycfO	3089	**P**	14	**P**	1		0		orf, hypothetical protein	Open reading frames
b1108	ycfP	4100	**P**	11	**P**	3		0		orf, hypothetical protein	Open reading frames
b1123	potD	5107	**P**	14	**P**	2		0		spermidine/putrescine periplasmic transport protein	Cell processes
b1126	potA	1171	**P**	19		0		0		ATP-binding component of spermidine/putrescine transport	Cell processes
b1130	phoP	6704	**P**	11	**P**	8		0		transcriptional regulatory protein	Global functions

B number	Gene name	mRNA intensity	mRNA present	# of tryptic peptides predicted	Protein detected - total list	# of tryptic peptides detected (total list)	Proteins detected - membrane sample	# of tryptic peptides detected (membrane sample)	Membrane protein assignment	Gene description	Functional category
b1131	purB	2271	**P**	22	**P**	7		0		adenylosuccinate lyase	Metabolism of small molecules
b1174	minE	2930	**P**	6	**P**	2		0		cell division topological specificity factor, reverses MinC inhibition of ftsZ ring formation	Cell processes
b1175	minD	5617	**P**	14	**P**	5		0	MP-GenProt	cell division inhibitor, a membrane ATPase, activates minC	Cell processes
b1189	dadA	1825	**P**	20	**P**	2		0		D-amino acid dehydrogenase subunit	Metabolism of small molecules
b1197	treA	1352	**P**	27	**P**	3		0		trehalase, periplasmic	Cell processes
b1198	ycgC	618	**P**	21	**P**	7		0		putative PTS system enzyme I	Miscellaneous
b1199	dhaK2	3006	**P**	10	**P**	2		0		putative dihydroxyacetone kinase (EC 2.7.1.2)	Metabolism of small molecules
b1203	ychF	1146	**P**	19	**P**	6		0		putative GTP-binding protein	Miscellaneous
b1207	prsA	2638	**P**	12	**P**	4		0		phosphoribosylpyrophosphate synthetase	Metabolism of small molecules
b1209	hemM	3419	**P**	16	**P**	2	**P(m)**	2	GenProt	an enzyme in main pathway of synthesis of 5-aminolevulinate, possibly glutamyl-tRNA dehydrogenase	Metabolism of small molecules
b1215	kdsA	2855	**P**	15	**P**	4		0		2-dehydro-3-deoxyphosphooctulonate aldolase	Structural elements
b1225	narH	295	**P**	25		0		0	GenProt	nitrate reductase 1, beta subunit	Metabolism of small molecules
b1236	galU	1036	**P**	13	**P**	4		0		glucose-1-phosphate uridylyltransferase	Metabolism of small molecules
b1237	hns	34541	**P**	7	**P**	4		0		DNA-binding protein HLP-II (HU, BH2, HD, NS); pleiotropic regulator	Macromolecule metabolism
b1241	adhE	4865	**P**	41	**P**	24	**P(m)**	1		CoA-linked acetaldehyde dehydrogenase and iron-dependent alcohol dehydrogenase; pyruvate-formate-lyase deactivase	Metabolism of small molecules
b1243	oppA	7098	**P**	26	**P**	18		0		oligopeptide transport; periplasmic binding protein	Cell processes
b1246	oppD	1533	**P**	20		0		0		homolog of Salmonella ATP-binding protein of oligopeptide ABC transport system	Cell processes
b1251	yciI	2853	**P**	2	**P**	1		0		orf, hypothetical protein	Open reading frames
b1256	yciD	341	**P**	8		0		0	MP-GenProt	putative outer membrane protein	Miscellaneous

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b1258	yciF	943	**P**	8	**P**	1		0		putative structural proteins	Open reading frames
b1260	trpA	1889	**P**	14	**P**	9		0		tryptophan synthase, alpha protein	Metabolism of small molecules
b1261	trpB	7588	**P**	18	**P**	4		0		tryptophan synthase, beta protein	Metabolism of small molecules
b1263	trpD	3403	**P**	15	**P**	2		0		anthranilate synthase component II, glutamine amidotransferase and phosphoribosylanthranilate transferase	Metabolism of small molecules
b1267	yciO	2495	**P**	8	**P**	3		0		orf, hypothetical protein	Open reading frames
b1272	sohB	1147	**P**	18	**P**	1		0	PHD	putative protease	Miscellaneous
b1281	pyrF	982	**P**	10	**P**	2		0		orotidine-5'-phosphate decarboxylase	Metabolism of small molecules
b1284	b1284	248	**P**	15		0		0		putative DEOR-type transcriptional regulator	Miscellaneous
b1288	fabI	5468	**P**	11	**P**	5		0		enoyl-[acyl-carrier-protein] reductase (NADH)	Metabolism of small molecules
b1323	tyrR	662	**P**	27		0		0		transcriptional regulation of aroF, aroG, tyrA and aromatic amino acid transport	Cell processes
b1324	tpx	7051	**P**	7	**P**	9		0		thiol peroxidase	Cell processes
b1329	mppA	457	**P**	27	**P**	1		0		periplasmic murein tripeptide transport protein, also negative regulator of multiple antibiotic resistance	Cell processes
b1333	ydaA	38	**A**	16		0		0		orf, hypothetical protein	Open reading frames
b1381	ydbH	208	**P**	41		0		0		orf, hypothetical protein	Open reading frames
b1406	ydbC	486	**P**	12		0		0		putative dehydrogenase	Open reading frames
b1415	aldA	8892	**P**	23	**P**	19	**P(m)**	2		aldehyde dehydrogenase, NAD-linked	Metabolism of small molecules
b1424	ydcG	282	**P**	29	**P**	3		0		putative glycoprotein	Miscellaneous
b1430	tehB	648	**P**	12	**P**	4		0		tellurite resistance	Cell processes
b1440	b1440	598	**P**	22	**P**	5		0		putative transport protein	Cell processes

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b1452	b1452	2465	**P**	15	**P**	6		0		putative receptor	Miscellaneous
b1466	narW	299	**P**	14		0		0		cryptic nitrate reductase 2, delta subunit, assembly function	Metabolism of small molecules
b1482	osmC	5905	**P**	6	**P**	6		0		osmotically inducible protein	Cell processes
b1494	pqqL	67	**A**	48		0		0		putative peptidase	Miscellaneous
b1498	b1498	654	**P**	22		0		0		putative sulfatase	Open reading frames
b1583	b1583	11538	**P**	6	**P**	1	**P(m)**	1		orf, hypothetical protein	Open reading frames
b1602	pntB	3267	**P**	13	**P**	6	**P(m)**	6	GenProt-PHD	pyridine nucleotide transhydrogenase, beta subunit	Metabolism of small molecules
b1604	b1604	1185	**P**	19	**P**	10		0		orf, hypothetical protein	Open reading frames
b1614	ydgA	3778	**P**	26	**P**	4	**P(m)**	4		orf, hypothetical protein	Open reading frames
b1619	hdhA	2814	**P**	12	**P**	1		0		NAD-dependent 7alpha-hydroxysteroid dehydrogenase, dehydroxylation of bile acids	Metabolism of small molecules
b1623	add	867	**P**	11		0		0		adenosine deaminase	Metabolism of small molecules
b1631	b1631	467	**P**	9		0		0		orf, hypothetical protein	Open reading frames
b1636	pdxY	549	**P**	12		0		0		pyridoxal kinase 2 / pyridoxine kinase	Metabolism of small molecules
b1641	slyB	15928	**P**	4	**P**	2	**P(m)**	2	MP-GenProt	putative outer membrane protein	Open reading frames
b1646	sodC	1595	**P**	10		0		0		superoxide dismutase precursor (Cu-Zn)	Cell processes
b1650	nemA	429	**P**	18	**P**	1		0		N-ethylmaleimide reductase	Metabolism of small molecules
b1652	rnt	849	**P**	9		0		0		RNase T, degrades tRNA	Macromolecule metabolism
b1654	ydhD	6502	**P**	5	**P**	3		0		orf, hypothetical protein	Open reading frames
b1656	sodB	12459	**P**	8	**P**	2		0		superoxide dismutase, iron	Cell processes

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b1658	purR	1323	**P**	18	**P**	2		0		transcriptional repressor for pur regulon, glyA, glnB, prsA, speA	Metabolism of small molecules
b1662	ribE	628	**P**	11	**P**	3		0		riboflavin synthase, alpha chain	Metabolism of small molecules
b1664	b1664	925	**P**	14	**P**	4		0		possible enzyme	Miscellaneous
b1667	b1667	4312	**P**	5	**P**	1		0		orf, hypothetical protein	Open reading frames
b1676	pykF	3969	**P**	27	**P**	13		0		pyruvate kinase I (formerly F), fructose stimulated	Metabolism of small molecules
b1677	lpp	55069	**P**	3	**P**	3	**P(m)**	3	GenProt	murein lipoprotein	Structural elements
b1682	ynhD	1745	**P**	14		0		0		putative ATP-binding component of a transport system	Cell processes
b1687	ydiJ	1795	**P**	47	**P**	5	**P(m)**	5		putative oxidase	Miscellaneous
b1693	aroD	909	**P**	15	**P**	1		0		3-dehydroquinate dehydratase	Metabolism of small molecules
b1703	ydiA	1279	**P**	12		0		0	PHD	orf, hypothetical protein	Open reading frames
b1710	btuE	2419	**P**	10	**P**	6		0		vitamin B12 transport	Cell processes
b1714	pheS	4088	**P**	18	**P**	8		0		phenylalanine tRNA synthetase, alpha-subunit	Macromolecule metabolism
b1723	pfkB	4224	**P**	16	**P**	3		0		6-phosphofructokinase II; suppressor of pfkA	Metabolism of small molecules
b1739	osmE	2821	**P**	4	**P**	2	**P(m)**	2		activator of ntrL gene	Global functions
b1749	xthA	1584	**P**	16	**P**	2		0		exonuclease III	Macromolecule metabolism
b1757	b1757	612	**P**	20		0		0		putative thiosulfate sulfur transferase	Metabolism of small molecules
b1761	gdhA	2794	**P**	23	**P**	8		0		NADP-specific glutamate dehydrogenase	Metabolism of small molecules
b1764	selD	2441	**P**	15	**P**	4		0		selenophosphate synthase, H(2)Se added to acrylyl-tRNA	Macromolecule metabolism
b1765	ydjA	2812	**P**	9	**P**	1		0		orf, hypothetical protein	Open reading frames

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b1766	sppA	667	P	26	P	1	P(m)	1		protease IV, a signal peptide peptidase	Macromolecule metabolism
b1767	ansA	1743	P	9	P	2		0		cytoplasmic L-asparaginase I	Metabolism of small molecules
b1779	gapA	41263	P	20	P	13	P(m)	2		glyceraldehyde-3-phosphate dehydrogenase A	Metabolism of small molecules
b1780	yeaD	1358	P	11	P	5		0		orf, hypothetical protein	Open reading frames
b1782	mipA	9156	P	10	P	3	P(m)	3	GenProt	Scaffolding protein for murein-synthesising holoenzyme.	Structural elements
b1807	yeaZ	1064	P	8		0		0		orf, hypothetical protein	Open reading frames
b1817	manX	5528	P	15	P	1	P(m)	1		PTS enzyme IIAB, mannose-specific	Cell processes
b1823	cspC	30711	P	5	P	4	P(m)	1		cold shock protein	Miscellaneous
b1830	prc	1360	P	35	P	6		0		carboxy-terminal protease for penicillin-binding protein 3	Macromolecule metabolism
b1832	b1832	4057	P	10	P	2		0		orf, hypothetical protein	Open reading frames
b1834	b1834	238	P	38	P	1	P(m)	1		orf, hypothetical protein	Open reading frames
b1850	eda	1831	P	9	P	2		0		2-keto-3-deoxygluconate 6-phosphate aldolase and 2-keto-4-hydroxyglutarate aldolase	Metabolism of small molecules
b1857	yebL	1559	P	14	P	2		0	PHD	putative adhesin	Miscellaneous
b1864	yebC	3190	P	6	P	3		0		orf, hypothetical protein	Open reading frames
b1870	yecO	997	P	15	P	2		0		orf, hypothetical protein	Open reading frames
b1875	yecM	1119	P	10	P	2		0		orf, hypothetical protein	Open reading frames
b1882	cheY	231	A	5		0		0		chemotaxis regulator transmits chemoreceptor signals to flagelllar motor components	Cell processes
b1886	tar	196	A	27		0		0	GenProt-PHD	methyl-accepting chemotaxis protein II, aspartate sensor receptor	Cell processes
b1888	cheA	148	A	29		0		0		sensory transducer kinase between chemo- signal receptors and CheB and CheY	Cell processes

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b1889	motB	83	**A**	19		0		0	GenProt-PHD	enables flagellar motor rotation, linking torque machinery to cell wall	Cell processes
b1901	araF	235	**P**	19		0		0		L-arabinose-binding periplasmic protein	Cell processes
b1919	yedO	1906	**P**	13	**P**	3		0		putative 1-aminocyclopropane-1-carboxylate deaminase	Miscellaneous
b1920	fliY	5516	**P**	18	**P**	6		0		putative periplasmic binding transport protein	Cell processes
b1922	fliA	94	**A**	15		0		0		flagellar biosynthesis; alternative sigma factor 28; regulation of flagellar operons	Structural elements
b1923	fliC	392	**P**	22		0		0		flagellar biosynthesis; flagellin, filament structural protein	Structural elements
b1924	fliD	103	**A**	19		0		0		flagellar biosynthesis; filament capping protein; enables filament assembly	Structural elements
b1928	yedD	2060	**P**	9	**P**	2	**P(m)**	2		orf, hypothetical protein	Open reading frames
b1939	fliG	213	**A**	15		0		0		flagellar biosynthesis, component of motor switching and energizing, enabling rotation and determining its direction	Structural elements
b1940	fliH	113	**A**	12		0		0		flagellar biosynthesis; export of flagellar proteins?	Structural elements
b1945	fliM	222	**P**	17		0		0		flagellar biosynthesis, component of motor switch and energizing, enabling rotation and determining its direction	Structural elements
b1967	yedU	3393	**P**	10	**P**	3		0		orf, hypothetical protein	Open reading frames
b2000	flu	565	**P**	39	**P**	3	**P(m)**	3	MP	outer membrane fluffing protein, similar to adhesin	Structural elements
b2019	hisG	5358	**P**	14	**P**	2		0		ATP phosphoribosyltransferase	Metabolism of small molecules
b2020	hisD	3584	**P**	12	**P**	5		0		L-histidinal:NAD+ oxidoreductase; L-histidinol:NAD+ oxidoreductase	Metabolism of small molecules
b2024	hisA	4310	**P**	13	**P**	1		0		N-(5'-phospho-L-ribosyl-formimino)-5-amino-1-(5'- phosphoribosyl)-4-imidazolecarboxamide isomerase	Metabolism of small molecules
b2025	hisF	3366	**P**	15	**P**	2		0		imidazole glycerol phosphate synthase subunit in heterodimer with HisH = imidazole glycerol phsphate synthase holoenzyme	Metabolism of small molecules
b2026	hisI	1384	**P**	4	**P**	1		0		phosphoribosyl-amp cyclohydrolase; phosphoribosyl-ATP pyrophosphatase	Metabolism of small molecules
b2027	wzzB	1679	**P**	14	**P**	1	**P(m)**	1	PHD	regulator of length of O-antigen component of lipopolysaccharide chains	Structural elements

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b2029	gnd	4998	**P**	24	**P**	19		0		gluconate-6-phosphate dehydrogenase, decarboxylating	Metabolism of small molecules
b2036	glf	1393	**P**	20	**P**	7		0		UDP-galactopyranose mutase	Metabolism of small molecules
b2038	rfbC	956	**P**	9	**P**	1		0		dTDP-6-deoxy-D-glucose-3,5 epimerase	Metabolism of small molecules
b2041	rfbB	2839	**P**	19	**P**	9		0		dTDP-glucose 4,6 dehydratase	Metabolism of small molecules
b2042	galF	5460	**P**	13	**P**	3		0		homolog of Salmonella UTP--glucose-1-P uridyltransferase, probably a UDP-gal transferase	Metabolism of small molecules
b2066	udk	654	**P**	13		0		0		uridine/cytidine kinase	Metabolism of small molecules
b2096	gatY	47588	**P**	13	**P**	7	**P(m)**	1		tagatose-bisphosphate aldolase 1	Metabolism of small molecules
b2103	thiD	949	**P**	13	**P**	2		0		phosphomethylpyrimidine kinase	Metabolism of small molecules
b2113	mrp	2110	**P**	13	**P**	1		0		putative ATPase	Miscellaneous
b2114	metG	1194	**P**	34	**P**	11		0		methionine tRNA synthetase	Macromolecule metabolism
b2131	yehZ	974	**P**	15	**P**	2		0		putative ABC superfamily (peri_bind) transport protein (possibly glycine betaine choline transport for osmoprotection)	Cell processes
b2132	bglX	728	**P**	37		0		0		beta-D-glucoside glucohydrolase, periplasmic	Metabolism of small molecules
b2150	mglB	7569	**P**	20	**P**	12		0		galactose-binding transport protein; receptor for galactose taxis	Cell processes
b2155	cirA	1209	**P**	30	**P**	5	**P(m)**	5	MP-GenProt	outer membrane receptor for iron-regulated colicin I receptor; porin; requires tonB gene product	Structural elements
b2169	fruB	878	**P**	14		0		0		PTS system, fructose-specific IIA/fpr component	Cell processes
b2171	yeiP	1445	**P**	9	**P**	2		0		putative elongation factor	Miscellaneous
b2183	rsuA	1276	**P**	9	**P**	1		0		16S pseudouridylate 516 synthase	Macromolecule metabolism
b2209	eco	746	**P**	8	**P**	1		0		ecotin, a serine protease inhibitor	Macromolecule metabolism
b2215	ompC	39955	**P**	18	**P**	5	**P(m)**	5	MP-GenProt	outer membrane protein 1b (Ib;c)	Structural elements

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b2239	glpQ	5247	**P**	18	**P**	10	**P(m)**	1		glycerophosphodiester phosphodiesterase, periplasmic	Metabolism of small molecules
b2242	glpB	3240	**P**	14	**P**	1		0	MP-GenProt	sn-glycerol-3-phosphate dehydrogenase (anaerobic), membrane anchor subunit	Metabolism of small molecules
b2243	glpC	1441	**P**	27		0		0	GenProt	sn-glycerol-3-phosphate dehydrogenase (anaerobic), K-small subunit	Metabolism of small molecules
b2262	menB	1392	**P**	10		0		0		dihydroxynaphtoic acid synthetase	Metabolism of small molecules
b2263	yfbB	331	**P**	7		0		0		putative enzyme	Miscellaneous
b2283	nuoG	8178	**P**	40	**P**	8	**P(m)**	5		NADH dehydrogenase I chain G	Metabolism of small molecules
b2285	nuoE	15463	**P**	7	**P**	1		0		NADH dehydrogenase I chain E	Metabolism of small molecules
b2287	nuoB	9713	**P**	10	**P**	2	**P(m)**	1		NADH dehydrogenase I chain B	Metabolism of small molecules
b2294	b2294	8848	**P**	10	**P**	3		0		orf, hypothetical protein	Open reading frames
b2296	ackA	5299	**P**	15	**P**	3		0		acetate kinase	Metabolism of small molecules
b2297	pta	1290	**P**	31	**P**	9		0		phosphotransacetylase	Metabolism of small molecules
b2299	b2299	639	**P**	7		0		0		putative regulator	Open reading frames
b2300	yfcE	2986	**P**	5		0		0		orf, hypothetical protein	Open reading frames
b2309	hisJ	6475	**P**	12	**P**	4		0		histidine-binding periplasmic protein of high-affinity histidine transport system	Cell processes
b2310	argT	3551	**P**	15	**P**	10		0		lysine-, arginine-, ornithine-binding periplasmic protein	Cell processes
b2316	accD	2828	**P**	16	**P**	3		0	PHD	acetylCoA carboxylase, carboxytransferase component, beta subunit	Metabolism of small molecules
b2319	usg	1262	**P**	12	**P**	2		0		putative PTS system enzyme II A component	Miscellaneous
b2320	pdxB	792	**P**	21	**P**	5		0		erythronate-4-phosphate dehyrogenase	Metabolism of small molecules
b2323	fabB	7891	**P**	13	**P**	6		0		3-oxoacyl-[acyl-carrier-protein] synthase I	Metabolism of small molecules

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b2329	aroC	2496	**P**	13	**P**	1		0		chorismate synthase	Metabolism of small molecules
b2330	yfcB	3474	**P**	15	**P**	2		0		putative adenine-specific methylase	Open reading frames
b2344	fadL	652	**P**	13	**P**	2	**P(m)**	2	GenProt	transport of long-chain fatty acids; sensitivity to phage T2	Cell processes
b2369	evgA	1039	**P**	11		0		0		putative positive transcription regulator (sensor EvgS)	Miscellaneous
b2400	gltX	1430	**P**	23	**P**	7		0		glutamate tRNA synthetase, catalytic subunit	Macromolecule metabolism
b2411	lig	920	**P**	32		0		0		DNA ligase	Macromolecule metabolism
b2414	cysK	26197	**P**	13	**P**	15	**P(m)**	2		cysteine synthase A, O-acetylserine sulfhydrolase A	Metabolism of small molecules
b2416	ptsI	20122	**P**	28	**P**	8		0		PEP-protein phosphotransferase system enzyme I	Cell processes
b2417	crr	8031	**P**	6	**P**	5		0		PTS system, glucose-specific IIA component	Cell processes
b2418	pdxK	672	**P**	10		0		0		pyridoxal/pyridoxine/pyridoxamine kinase	Metabolism of small molecules
b2426	ucpA	857	**P**	17	**P**	1		0		putative oxidoreductase	Miscellaneous
b2431	b2431	720	**P**	15	**P**	1		0		orf, hypothetical protein	Open reading frames
b2464	talA	7999	**P**	21	**P**	6		0		transaldolase A	Metabolism of small molecules
b2476	purC	6714	**P**	13	**P**	6		0		phosphoribosylaminoimidazole-succinocarboxamide synthetase = SAICAR synthetase	Metabolism of small molecules
b2477	nlpB	3434	**P**	17	**P**	4	**P(m)**	4	GenProt	lipoprotein-34	Macromolecule metabolism
b2478	dapA	8978	**P**	11	**P**	2		0		dihydrodipicolinate synthase	Metabolism of small molecules
b2480	bcp	5167	**P**	10	**P**	5		0		thiol peroxidase, thioredoxin dependent	Cell processes
b2494	b2494	1327	**P**	17		0		0		orf, hypothetical protein	Open reading frames
b2498	upp	6828	**P**	10	**P**	4		0		uracil phosphoribosyltransferase	Metabolism of small molecules

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b2499	purM	3990	**P**	9	**P**	5	**P(m)**	1		phosphoribosylaminoimidazole synthetase = AIR synthetase	Metabolism of small molecules
b2508	guaB	5523	**P**	17	**P**	5		0		IMP dehydrogenase	Metabolism of small molecules
b2512	yfgL	1897	**P**	15	**P**	5	**P(m)**	5		putative serine/threonine protein kinase	Macromolecule metabolism
b2513	b2513	2958	**P**	10	**P**	1	**P(m)**	1		orf, hypothetical protein	Open reading frames
b2514	hisS	3338	**P**	23	**P**	9		0		histidine tRNA synthetase	Macromolecule metabolism
b2515	gcpE	1419	**P**	22	**P**	6		0		orf, hypothetical protein	Open reading frames
b2518	ndk	19329	**P**	6	**P**	10		0		nucleoside diphosphate kinase	Metabolism of small molecules
b2521	sseA	2053	**P**	13	**P**	6		0	PHD	putative thiosulfate sulfurtransferase	Miscellaneous
b2523	pepB	3045	**P**	25	**P**	16		0		aminopeptidase B, a cyteinylglycinase (2nd module)	Macromolecule metabolism
b2527	yfhE	1758	**P**	9	**P**	1		0		orf, hypothetical protein	Cell processes
b2528	iscA	5460	**P**	6	**P**	3		0		putative regulator believed to be involved in Fe-S protein formation or repair	Cell processes
b2529	iscU	6702	**P**	7	**P**	5		0		putative FeS assembly protein	Miscellaneous
b2532	b2532	1221	**P**	8	**P**	2		0		putative ATP synthase beta subunit	Open reading frames
b2533	suhB	479	**A**	16	**P**	6		0		enhances synthesis of sigma32 in mutant; extragenic suppressor, may modulate RNAse III lethal action	Global functions
b2551	glyA	10756	**P**	19	**P**	14		0		serine hydroxymethyltransferase	Metabolism of small molecules
b2553	glnB	882	**P**	7	**P**	1		0		regulatory protein P-II for glutamine synthetase	Metabolism of small molecules
b2567	rnc	1797	**P**	13	**P**	3		0		RNase III, ds RNA	Macromolecule metabolism
b2571	rseB	1302	**P**	11	**P**	1		0		regulates activity of sigma-E factor	Global functions
b2573	rpoE	3926	**P**	9		0		0		RNA polymerase, sigma-E factor; heat shock and oxidative stress	Global functions

B number	Gene name	mRNA intensity	mRNA present	# of tryptic peptides predicted	Protein detected - total list	# of tryptic peptides detected (total list)	Proteins detected - membrane sample	# of tryptic peptides detected (membrane sample)	Membrane protein assignment	Gene description	Functional category
b2579	yfiD	394	**P**	9	**P**	4		0		putative formate acetyltransferase	Metabolism of small molecules
b2582	trxC	641	**P**	8	**P**	1		0		putative thioredoxin-like protein	Metabolism of small molecules
b2592	clpB	1606	**P**	46	**P**	14		0		heat shock protein	Macromolecule metabolism
b2595	b2595	3791	**P**	16	**P**	2	**P(m)**	2		orf, hypothetical protein	Macromolecule metabolism
b2608	rimM	37205	**P**	9	**P**	1		0		16S rRNA processing protein	Macromolecule metabolism
b2614	grpE	2920	**P**	6	**P**	2		0		phage lambda replication; host DNA synthesis; heat shock protein; protein repair	Extrachromosomal
b2665	ygaU	3443	**P**	12	**P**	3	**P(m)**	3		orf, hypothetical protein	Open reading frames
b2679	proX	6568	**P**	11	**P**	7		0		high-affinity transport system for glycine betaine and proline	Cell processes
b2687	ygaG	3559	**P**	7	**P**	3		0		orf, hypothetical protein	Miscellaneous
b2697	alaS	6894	**P**	49	**P**	13		0		alanyl-tRNA synthetase	Macromolecule metabolism
b2699	recA	3341	**P**	15	**P**	6	**P(m)**	2		DNA strand exchange and renaturation, DNA-dependent ATPase, DNA- and ATP-dependent coprotease	Macromolecule metabolism
b2779	eno	11093	**P**	19	**P**	15	**P(m)**	2		enolase	Metabolism of small molecules
b2780	pyrG	7990	**P**	27	**P**	7		0		CTP synthetase	Metabolism of small molecules
b2797	sdaB	247	**P**	14		0		0	PHD	L-serine dehydratase (deaminase), L-SD2	Metabolism of small molecules
b2799	fucO	190	**P**	15	**P**	1		0		L-1,2-propanediol oxidoreductase	Metabolism of small molecules
b2821	ptr	868	**P**	40	**P**	1		0		protease III	Macromolecule metabolism
b2891	prfB	8676	**P**	17	**P**	4		0		peptide chain release factor RF-2	Macromolecule metabolism
b2893	dsbC	1808	**P**	10	**P**	1		0		protein disulfide isomerase II	Structural elements
b2898	ygfZ	1971	**P**	16	**P**	6		0		orf, hypothetical protein	Open reading frames

B number	Gene name	mRNA intensity	mRNA present	# of tryptic peptides predicted	Protein detected - total list	# of tryptic peptides detected (total list)	Proteins detected - membrane sample	# of tryptic peptides detected (membrane sample)	Membrane protein assignment	Gene description	Functional category
b2905	gcvT	2003	**P**	13		0		0		aminomethyltransferase (T protein; tetrahydrofolate-dependent) of glycine cleavage system	Metabolism of small molecules
b2914	rpiA	2279	**P**	7	**P**	3		0		ribosephosphate isomerase, constitutive	Metabolism of small molecules
b2924	yggB	4032	**P**	11	**P**	4	**P(m)**	4	PHD	Component of the MscS mechanosensitive channel	Miscellaneous
b2925	fba	5147	**P**	12	**P**	14	**P(m)**	1		fructose-bisphosphate aldolase, class II	Metabolism of small molecules
b2926	pgk	16984	**P**	18	**P**	19		0		phosphoglycerate kinase	Metabolism of small molecules
b2935	tktA	1912	**P**	20	**P**	9		0		transketolase 1 isozyme	Metabolism of small molecules
b2942	metK	2768	**P**	20	**P**	8		0		methionine adenosyltransferase 1 (AdoMet synthetase); methyl and propylamine donor, corepressor of met genes	Metabolism of small molecules
b2947	gshB	1431	**P**	15	**P**	3		0		glutathione synthetase	Metabolism of small molecules
b2948	yqgE	1164	**P**	10		0		0		orf, hypothetical protein	Open reading frames
b2951	yggS	2563	**P**	12	**P**	1		0		orf, hypothetical protein	Open reading frames
b2957	ansB	164	**A**	15		0		0		periplasmic L-asparaginase II	Metabolism of small molecules
b2958	yggN	1229	**P**	12		0		0		orf, hypothetical protein	Open reading frames
b2996	hybA	227	**P**	20		0		0		hydrogenase-2 small subunit	Metabolism of small molecules
b3011	yqhD	1184	**P**	17	**P**	2		0		putative oxidoreductase	Miscellaneous
b3012	yqhE	1421	**P**	14	**P**	4		0		2,5-diketo-D-gluconate reductase A	Metabolism of small molecules
b3017	sufI	255	**P**	20	**P**	1		0		suppressor of ftsI	Miscellaneous
b3024	ygiW	2675	**P**	6	**P**	3		0		orf, hypothetical protein	Open reading frames
b3035	tolC	3776	**P**	22	**P**	10	**P(m)**	10	MP-GenProt	outer membrane channel; specific tolerance to colicin E1; segregation of daughter chromosomes	Cell processes
b3041	ribB	1210	**P**	9	**P**	2		0		3,4 dihydroxy-2-butanone-4-phosphate synthase	Metabolism of small molecules

B number	Gene name	mRNA intensity	mRNA present	# of tryptic peptides predicted	Protein detected - total list	# of tryptic peptides detected (total list)	Proteins detected - membrane sample	# of tryptic peptides detected (membrane sample)	Membrane protein assignment	Gene description	Functional category
b3042	b3042	4471	**P**	10	**P**	1		0		orf, hypothetical protein	Open reading frames
b3051	b3051	222	**A**	25		0		0	MP-GenProt-PHD	putative membrane protein	Miscellaneous
b3052	b3052	749	**P**	25	**P**	3		0		putative kinase	Metabolism of small molecules
b3064	ygjD	827	**P**	16		0		0		putative O-sialoglycoprotein endopeptidase	Miscellaneous
b3098	yqjD	11454	**P**	4	**P**	2	**P(m)**	1		orf, hypothetical protein	Open reading frames
b3147	yraM	1102	**P**	30	**P**	3	**P(m)**	3		putative glycosylase	Miscellaneous
b3150	yraP	1789	**P**	9	**P**	2	**P(m)**	2		putative periplasmic protein	Miscellaneous
b3152	yraR	350	**P**	10		0		0		orf, hypothetical protein	Open reading frames
b3156	yhbS	508	**P**	5	**P**	2		0	GenProt	orf, hypothetical protein	Cell processes
b3164	pnp	5346	**P**	29	**P**	8	**P(m)**	1		polynucleotide phosphorylase; cytidylate kinase activity	Macromolecule metabolism
b3169	nusA	11021	**P**	24	**P**	7		0		transcription pausing; L factor	Macromolecule metabolism
b3172	argG	2077	**P**	24	**P**	6		0		argininosuccinate synthetase	Metabolism of small molecules
b3176	mrsA	2106	**P**	23	**P**	4		0		similar to phosphoglucomutases and phosphomannomutases	Metabolism of small molecules
b3178	hflB	3175	**P**	32	**P**	8	**P(m)**	8	MP-GenProt	degrades sigma32, integral membrane peptidase, cell division protein	Macromolecule metabolism
b3181	greA	925	**P**	10	**P**	4		0		transcription elongation factor: cleaves 3' nucleotide of paused mRNA	Macromolecule metabolism
b3182	dacB	328	**A**	21		0		0		D-alanyl-D-alanine carboxypeptidase, fraction B; penicillin-binding protein 4	Structural elements
b3189	murA	1459	**P**	21	**P**	1		0		first step in murein biosynthesis;UDP-N-glucosamine 1-carboxyvinyltransferase	Structural elements
b3192	yrbC	3960	**P**	13	**P**	1		0		orf, hypothetical protein	Cell processes
b3195	yrbF	1343	**P**	10		0		0		putative ATP-binding component of a transport system	Cell processes

B number	Gene name	mRNA intensity	mRNA present	# of tryptic peptides predicted	Protein detected - total list	# of tryptic peptides detected (total list)	Proteins detected - membrane sample	# of tryptic peptides detected (membrane sample)	Membrane protein assignment	Gene description	Functional category
b3200	yhbN	2682	**P**	4		0		0		orf, hypothetical protein	Open reading frames
b3201	yhbG	2705	**P**	13	**P**	1		0		putative ATP-binding component of a transport system	Cell processes
b3209	yhbL	1071	**P**	9	**P**	1		0		sigma cross-reacting protein 27A (SCRP-27A)	Miscellaneous
b3228	sspB	1618	**P**	5	**P**	1		0		stringent starvation protein B	Global functions
b3229	sspA	4258	**P**	9	**P**	2		0		regulator of transcription; stringent starvation protein A	Global functions
b3234	degQ	685	**P**	20	**P**	2		0		serine endoprotease	Macromolecule metabolism
b3236	mdh	18040	**P**	13	**P**	25		0		malate dehydrogenase	Metabolism of small molecules
b3244	tldD	806	**P**	17		0		0		suppresses inhibitory activity of CsrA	Miscellaneous
b3248	yhdE	1447	**P**	9	**P**	1		0		orf, hypothetical protein	Open reading frames
b3251	mreB	3268	**P**	17	**P**	5	**P(m)**	2		regulator of ftsI, penicillin binding protein 3, septation function	Cell processes
b3253	yhdH	1362	**P**	13	**P**	3		0		putative dehydrogenase	Miscellaneous
b3255	accB	10847	**P**	6		0		0		acetylCoA carboxylase, BCCP subunit; carrier of biotin	Metabolism of small molecules
b3256	accC	2703	**P**	22	**P**	9		0		acetyl CoA carboxylase, biotin carboxylase subunit	Metabolism of small molecules
b3261	fis	4945	**P**	2		0		0		site-specific DNA inversion stimulation factor; DNA-binding protein; a trans activator for transcription	Macromolecule metabolism
b3279	yrdA	1766	**P**	14	**P**	2		0	PHD	putative transferase	Miscellaneous
b3282	yrdC	895	**P**	9	**P**	2		0		orf, hypothetical protein	Open reading frames
b3288	fmt	1413	**P**	13	**P**	4		0		10-formyltetrahydrofolate:L-methionyl-tRNA(fMet) N-formyltransferase	Macromolecule metabolism
b3295	rpoA	33843	**P**	17	**P**	12		0		RNA polymerase, alpha subunit	Miscellaneous
b3301	rplO	45038	**P**	6	**P**	4		0		50S ribosomal subunit protein L15	Structural elements

B number	Gene name	mRNA intensity	mRNA present	# of tryptic peptides predicted	Protein detected - total list	# of tryptic peptides detected (total list)	Proteins detected - membrane sample	# of tryptic peptides detected (membrane sample)	Membrane protein assignment	Gene description	Functional category
b3339	tufA	55718	P	22	P	36	P(m)	3		protein chain elongation factor EF-Tu (duplicate of tufB)	Macromolecule metabolism
b3340	fusA	56613	P	32	P	29		0		GTP-binding protein chain elongation factor EF-G	Macromolecule metabolism
b3347	fkpA	1544	P	13	P	6		0		FKBP-type peptidyl-prolyl cis-trans isomerase (rotamase)	Macromolecule metabolism
b3349	slyD	5225	P	5	P	1		0		FKBP-type peptidyl-prolyl cis-trans isomerase (rotamase)	Macromolecule metabolism
b3384	trpS	858	P	12	P	3		0		tryptophan tRNA synthetase	Macromolecule metabolism
b3385	gph	3910	P	7		0		0		phosphoglycolate phosphatase	Metabolism of small molecules
b3386	rpe	2239	P	8	P	2		0		D-ribulose-5-phosphate 3-epimerase	Metabolism of small molecules
b3390	aroK	5176	P	14	P	2		0		shikimate kinase I	Metabolism of small molecules
b3396	mrcA	516	P	45	P	2	P(m)	2	GenProt-PHD	peptidoglycan synthetase; penicillin-binding protein 1A	Structural elements
b3397	yrfE	619	P	10		0		0		orf, hypothetical protein	Open reading frames
b3401	hslO	668	P	11	P	4		0		Hsp33. Redox regulated chaperone	Cell processes
b3403	pckA	7786	P	24	P	15		0		phosphoenolpyruvate carboxykinase	Metabolism of small molecules
b3405	ompR	1241	P	13	P	1		0		response regulator (sensor, EnvZ) affecting transcription of ompC and ompF: outer membrane protein synthesis	Global functions
b3414	yhgI	4562	P	6	P	3		0		orf, hypothetical protein	Miscellaneous
b3422	rtcR	149	A	27		0		0		Sigma54-dependent regulator of rtcBA expression	Macromolecule metabolism
b3426	glpD	7847	P	30	P	23	P(m)	12		sn-glycerol-3-phosphate dehydrogenase (aerobic)	Metabolism of small molecules
b3433	asd	7201	P	12	P	12		0		aspartate-semialdehyde dehydrogenase	Metabolism of small molecules
b3438	gntR	529	P	14		0		0		regulator of gluconate (gnt) operon	Metabolism of small molecules
b3453	ugpB	760	P	25	P	5		0		sn-glycerol 3-phosphate transport system; periplasmic binding protein	Cell processes

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b3458	livK	5530	P	17	P	11		0		high-affinity leucine-specific transport system; periplasmic binding protein	Cell processes
b3460	livJ	26232	P	13	P	11	P(m)	1		high-affinity amino acid transport system; periplasmic binding protein	Cell processes
b3472	b3472	2715	P	10		0		0		orf, hypothetical protein	Open reading frames
b3476	nikA	43	A	25		0		0		periplasmic binding protein for nickel	Cell processes
b3495	uspA	21127	P	4		0		0		universal stress protein; broad regulatory function?	Cell processes
b3500	gor	2280	P	17	P	3		0		glutathione oxidoreductase	Metabolism of small molecules
b3506	slp	1442	P	9	P	5	P(m)	5	MP-GenProt	outer membrane protein induced after carbon starvation	Structural elements
b3509	hdeB	3775	P	7	P	1		0		orf, hypothetical protein	Open reading frames
b3510	hdeA	21552	P	2	P	2		0		orf, hypothetical protein	Open reading frames
b3513	yhiU	332	A	21		0		0	MP-GenProt	putative membrane protein	Miscellaneous
b3524	yhjG	245	A	29	P	1	P(m)	1		orf, hypothetical protein	Open reading frames
b3526	kdgK	571	A	11	P	2		0		ketodeoxygluconokinase	Metabolism of small molecules
b3544	dppA	13089	P	24	P	15	P(m)	2		dipeptide transport protein	Cell processes
b3553	yiaE	1432	P	13	P	3		0		putative dehydrogenase	Miscellaneous
b3554	yiaF	1741	P	10	P	2	P(m)	2		orf, hypothetical protein	Open reading frames
b3559	glyS	2239	P	36	P	18		0		glycine tRNA synthetase, beta subunit	Macromolecule metabolism
b3591	selA	1887	P	29		0		0		selenocysteine synthase: L-seryl-tRNA (Ser) selenium transferase	Macromolecule metabolism
b3599	mtlA	913	P	20	P	2	P(m)	2	GenProt-PHD	PTS system, mannitol-specific enzyme IIABC components	Cell processes
b3605	lldD	782	A	21		0		0	GenProt	L-lactate dehydrogenase	Metabolism of small molecules

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b3612	yibO	1790	**P**	19	**P**	4		0		putative 2,3-bisphosphoglycerate-independent phosphoglycerate mutase	Miscellaneous
b3617	kbl	1216	**P**	15	**P**	1		0		2-amino-3-ketobutyrate CoA ligase (glycine acetyltransferase)	Metabolism of small molecules
b3619	rfaD	4177	**P**	18	**P**	12		0		ADP-L-glycero-D-mannoheptose-6-epimerase	Structural elements
b3639	dfp	3195	**P**	17		0		0		flavoprotein affecting synthesis of DNA and pantothenate metabolism	Macromolecule metabolism
b3640	dut	1867	**P**	4	**P**	1		0		deoxyuridinetriphosphatase	Metabolism of small molecules
b3649	rpoZ	4820	**P**	5	**P**	3		0		RNA polymerase, omega subunit	Miscellaneous
b3661	nlpA	1002	**P**	11	**P**	3	**P(m)**	1	GenProt	lipoprotein-28	Macromolecule metabolism
b3697	yidA	509	**P**	12	**P**	1		0		orf, hypothetical protein	Open reading frames
b3699	gyrB	983	**P**	40	**P**	6		0		DNA gyrase subunit B, type II topoisomerase, ATPase activity	Macromolecule metabolism
b3708	tnaA	1915	**P**	22	**P**	8		0		tryptophanase	Metabolism of small molecules
b3728	pstS	2111	**P**	22		0		0		high-affinity phosphate-specific transport system; periplasmic phosphate-binding protein	Cell processes
b3730	glmU	3616	**P**	19	**P**	2		0		N-acetyl glucosamine-1-phosphate uridyltransferase	Metabolism of small molecules
b3731	atpC	4613	**P**	3		0		0	MP-GenProt	membrane-bound ATP synthase, F1 sector, epsilon-subunit	Cell processes
b3732	atpD	5523	**P**	23	**P**	11	**P(m)**	11	MP-GenProt	membrane-bound ATP synthase, F1 sector, beta-subunit	Cell processes
b3733	atpG	11853	**P**	17	**P**	7	**P(m)**	7	MP-GenProt	membrane-bound ATP synthase, F1 sector, gamma-subunit	Metabolism of small molecules
b3734	atpA	16689	**P**	25	**P**	17	**P(m)**	17	MP-GenProt	membrane-bound ATP synthase, F1 sector, alpha-subunit	Cell processes
b3735	atpH	36217	**P**	7	**P**	2	**P(m)**	1	MP-GenProt	membrane-bound ATP synthase, F1 sector, delta-subunit	Metabolism of small molecules
b3736	atpF	28649	**P**	10	**P**	3	**P(m)**	3	MP-GenProt	membrane-bound ATP synthase, F0 sector, subunit b	Cell processes
b3744	asnA	412	**P**	13	**P**	2		0		asparagine synthetase A	Metabolism of small molecules

B number	Gene name	mRNA intensity	mRNA present	# of tryptic peptides predicted	Protein detected - total list	# of tryptic peptides detected (total list)	Proteins detected - membrane sample	# of tryptic peptides detected (membrane sample)	Membrane protein assignment	Gene description	Functional category
b3751	rbsB	11090	**P**	13	**P**	3		0		D-ribose periplasmic binding protein	Cell processes
b3752	rbsK	876	**P**	13		0		0		ribokinase	Metabolism of small molecules
b3764	yifE	1367	**P**	8	**P**	1		0		orf, hypothetical protein	Open reading frames
b3781	trxA	5763	**P**	8	**P**	5		0		thioredoxin 1	Metabolism of small molecules
b3783	rho	2414	**P**	21	**P**	11	**P(m)**	1		transcription termination factor Rho; polarity suppressor	Macromolecule metabolism
b3785	wzzE	964	**P**	16	**P**	1	**P(m)**	1	GenProt	putative transport protein	Open reading frames
b3803	hemX	2492	**P**	21	**P**	5	**P(m)**	5		uroporphyrinogen III methylase	Metabolism of small molecules
b3805	hemC	2018	**P**	17		0		0		porphobilinogen deaminase = hydroxymethylbilane synthase	Metabolism of small molecules
b3809	dapF	3481	**P**	8		0		0		diaminopimelate epimerase	Metabolism of small molecules
b3826	yigL	714	**P**	10		0		0		orf, hypothetical protein	Open reading frames
b3831	udp	1535	**P**	10	**P**	1		0		uridine phosphorylase	Metabolism of small molecules
b3833	ubiE	2156	**P**	12	**P**	1		0		2-octaprenyl-6-methoxy-1,4-benzoquinone --> 2-octaprenyl-3-methyl-6 methoxy-1,4-benzoquinone	Metabolism of small molecules
b3836	tatA	3868	**P**	6	**P**	1	**P(m)**	1	GenProt	Component of translocase	Open reading frames
b3838	b3838	2343	**P**	8		0		0		orf, hypothetical protein	Miscellaneous
b3847	pepQ	2496	**P**	20	**P**	5		0		proline dipeptidase	Macromolecule metabolism
b3860	dsbA	2297	**P**	10	**P**	1		0		protein disulfide isomerase I, essential for cytochrome c synthesis and formate-dependent reduction	Macromolecule metabolism
b3870	glnA	3685	**P**	20	**P**	12	**P(m)**	3		glutamine synthetase	Metabolism of small molecules
b3871	yihK	2901	**P**	20	**P**	9		0		putative GTP-binding factor	Miscellaneous
b3908	sodA	20896	**P**	8	**P**	9		0		superoxide dismutase, manganese	Cell processes

B number	Gene name	mRNA intensity	mRNA present	# of tryptic peptides predicted	Protein detected - total list	# of tryptic peptides detected (total list)	Proteins detected - membrane sample	# of tryptic peptides detected (membrane sample)	Membrane protein assignment	Gene description	Functional category
b3916	pfkA	2928	**P**	18	**P**	2		0		6-phosphofructokinase I	Metabolism of small molecules
b3919	tpiA	7653	**P**	10	**P**	1		0		triosephosphate isomerase	Metabolism of small molecules
b3926	glpK	17449	**P**	28	**P**	22	**P(m)**	3		glycerol kinase	Metabolism of small molecules
b3928	yiiU	1607	**P**	4	**P**	2		0		orf, hypothetical protein	Open reading frames
b3931	hslU	1558	**P**	26	**P**	7		0		heat shock protein hslVU, ATPase subunit, homologous to chaperones	Cell processes
b3945	gldA	217	**P**	13		0		0	PHD	glycerol dehydrogenase, (NAD)	Metabolism of small molecules
b3956	ppc	2997	**P**	47	**P**	18		0		phosphoenolpyruvate carboxylase	Metabolism of small molecules
b3965	trmA	590	**P**	19		0		0		tRNA (uracil-5-)-methyltransferase	Macromolecule metabolism
b3966	btuB	299	**P**	31	**P**	4	**P(m)**	4	MP-GenProt	outer membrane receptor for transport of vitamin B12, E colicins, and bacteriophage BF23	Structural elements
b3982	nusG	5933	**P**	10	**P**	5		0		component in transcription antitermination	Macromolecule metabolism
b3984	rplA	28105	**P**	12	**P**	9	**P(m)**	3		50S ribosomal subunit protein L1, regulates synthesis of L1 and L11	Structural elements
b3985	rplJ	34311	**P**	8	**P**	7		0		50S ribosomal subunit protein L10	Structural elements
b3986	rplL	23694	**P**	5	**P**	6	**P(m)**	1		50S ribosomal subunit protein L7/L12	Structural elements
b3987	rpoB	8885	**P**	63	**P**	31		0		RNA polymerase, beta subunit	Miscellaneous
b3991	thiG	4139	**P**	13	**P**	3		0		thiamin biosynthesis, thiazole moiety	Metabolism of small molecules
b3993	thiE	4076	**P**	9	**P**	2		0		thiamin biosynthesis, thiazole moiety	Metabolism of small molecules
b3997	hemE	1145	**P**	14		0		0		uroporphyrinogen decarboxylase	Metabolism of small molecules
b4005	purD	1053	**P**	17	**P**	5		0		phosphoribosylglycinamide synthetase = GAR synthetase	Metabolism of small molecules
b4006	purH	3168	**P**	28	**P**	10		0		phosphoribosylaminoimidazolecarboxamideformyltransferase = AICAR formyltransferase; IMP cyclohydrolase	Metabolism of small molecules

B number	Gene name	mRNA intensity	mRNA present	# of tryptic peptides predicted	Protein detected - total list	# of tryptic peptides detected (total list)	Proteins detected - membrane sample	# of tryptic peptides detected (membrane sample)	Membrane protein assignment	Gene description	Functional category
b4015	aceA	30099	P	20	P	34	P(m)	7		isocitrate lyase	Metabolism of small molecules
b4034	malE	3061	P	24	P	3		0		periplasmic maltose-binding protein; substrate recognition for transport and chemotaxis	Cell processes
b4035	malK	1416	P	17		0		0		ATP-binding component of transport system for maltose	Cell processes
b4036	lamB	3422	P	17	P	1	P(m)	1	GenProt	phage lambda receptor protein; maltose high-affinity receptor	Cell processes
b4043	lexA	1002	P	10		0		0		regulator for SOS(lexA) regulon	Global functions
b4052	dnaB	1658	P	28	P	1		0		replicative DNA helicase; part of primosome	Macromolecule metabolism
b4054	tyrB	1196	P	17	P	5		0		tyrosine aminotransferase, tyrosine repressible	Metabolism of small molecules
b4066	yjcF	19	A	17		0		0		orf, hypothetical protein	Open reading frames
b4108	phnA	2675	P	4		0		0		orf, hypothetical protein	Open reading frames
b4122	fumB	43	A	32		0		0		fumarase B= fumarate hydratase Class I; anaerobic isozyme	Metabolism of small molecules
b4139	aspA	1704	P	20	P	3		0		aspartate ammonia-lyase (aspartase)	Metabolism of small molecules
b4142	mopB	35460	P	6	P	5	P(m)	1		GroES, 10 Kd chaperone binds to Hsp60 in pres. Mg-ATP, suppressing its ATPase activity	Cell processes
b4143	mopA	10097	P	26	P	13	P(m)	4		GroEL, chaperone Hsp60, peptide-dependent ATPase, heat shock protein	Cell processes
b4147	efp	6703	P	4	P	2		0		elongation factor P (EF-P)	Macromolecule metabolism
b4153	frdB	883	P	9	P	2	P(m)	2		fumarate reductase, anaerobic, iron-sulfur protein subunit	Metabolism of small molecules
b4154	frdA	1593	P	32	P	1		0		fumarate reductase, anaerobic, flavoprotein subunit	Metabolism of small molecules
b4160	psd	1157	P	12	P	4	P(m)	4	GenProt	phosphatidylserine decarboxylase; phospholipid synthesis	Macromolecule metabolism
b4162	yjeR	835	P	8	P	2		0		orf, hypothetical protein	Open reading frames
b4175	hflC	2685	P	16	P	4	P(m)	4		protease specific for phage lambda cII repressor	Macromolecule metabolism

B number	Gene name	mRNA intensity	mRNA present	# of tryptic peptides predicted	Protein detected - total list	# of tryptic peptides detected (total list)	Proteins detected - membrane sample	# of tryptic peptides detected (membrane sample)	Membrane protein assignment	Gene description	Functional category
b4177	purA	2778	P	21	P	15		0		adenylosuccinate synthetase	Metabolism of small molecules
b4180	yjfH	173	A	9	P	1		0		orf, hypothetical protein	Macromolecule metabolism
b4200	rpsF	23491	P	7	P	2		0		30S ribosomal subunit protein S6	Structural elements
b4203	rplI	2574	P	10	P	5	P(m)	3		50S ribosomal subunit protein L9	Structural elements
b4207	fklB	3787	P	10	P	4		0		FKBP-type 22KD peptidyl-prolyl cis-trans isomerase (rotamase)	Macromolecule metabolism
b4213	cpdB	524	P	31	P	2		0		2':3'-cyclic-nucleotide 2'-phosphodiesterase	Metabolism of small molecules
b4214	cysQ	464	P	10	P	1		0		affects pool of 3'-phosphoadenosine-5'-phosphosulfate in pathway of sulfite synthesis	Metabolism of small molecules
b4216	ytfJ	1019	P	7		0		0		orf, hypothetical protein	Open reading frames
b4219	msrA	1447	P	7	P	2		0		peptide methionine sulfoxide reductase	Macromolecule metabolism
b4226	ppa	3081	P	11	P	4		0		inorganic pyrophosphatase	Metabolism of small molecules
b4227	ytfQ	908	P	13	P	2		0		putative LACI-type transcriptional regulator	Cell processes
b4232	fbp	2607	P	14	P	3		0		fructose-bisphosphatase	Metabolism of small molecules
b4235	pmbA	1085	P	25	P	2		0		maturation of antibiotic MccB17, see tld genes	Macromolecule metabolism
b4243	yjgF	11796	P	7	P	2		0		orf, hypothetical protein	Open reading frames
b4244	pyrI	36636	P	9	P	8		0		aspartate carbamoyltransferase, regulatory subunit	Metabolism of small molecules
b4245	pyrB	39294	P	19	P	14	P(m)	2		aspartate carbamoyltransferase, catalytic subunit	Metabolism of small molecules
b4291	fecA	211	A	31		0		0	MP-GenProt	outer membrane receptor; citrate-dependent iron transport, outer membrane receptor	Cell processes
b4328	iadA	224	P	19		0		0		isoaspartyl dipeptidase	Macromolecule metabolism
b4355	tsr	359	A	29		0		0	GenProt	methyl-accepting chemotaxis protein I, serine sensor receptor	Cell processes

B number	Gene name	mRNA intensity	mRNA present	# of tryptic peptides predicted	Protein detected - total list	# of tryptic peptides detected (total list)	Proteins detected - membrane sample	# of tryptic peptides detected (membrane sample)	Membrane protein assignment	Gene description	Functional category
b4375	prfC	1117	P	23	P	3		0		peptide chain release factor RF-3	Macromolecule metabolism
b4376	osmY	6115	P	7	P	3		0		hyperosmotically inducible periplasmic protein	Cell processes
b4383	deoB	2940	P	19	P	7		0		phosphopentomutase	Metabolism of small molecules
b4392	slt	746	P	41	P	4		0		soluble lytic murein transglycosylase	Structural elements

Lopez-Campistrous et al. (2005) identified 575 proteins of E.coli on 2D gel maps. The data was extracted from supplementary data pdf file. One protein could not be matched to a B number and thus was removed from consideration.

Annotation information according to Blattner et al (1997). Functional categories are assigned as defined by Riley and Labedan (1996).

Membrane protein assignment (see Corbin et al. 2003): MP - list # 1, GenProt - list #2, PHD - list #3.