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Comparing the mechanisms of metal action in bacteria: insight into novel genes involved in silver, gallium and copper resistance and toxicity in *Escherichia coli*

Gugala, Natalie

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<http://hdl.handle.net/1880/110682>

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ID	Name	Description	Score	P-value
JW0001	<i>thrA</i>	Bifunctional asparto	0.0472	0.4974
JW0002	<i>thrB</i>	Homoserine kinase	0.4535	0.0103
JW0003	<i>thrC</i>	L-threonine synthas	0.0791	0.0185
JW0004	<i>yaaX</i>	DUF2502 family put	0.0959	0.0095
JW0005	<i>yaaA</i>	Peroxide resistance |	0.0345	0.4262
JW0006	<i>yaaJ</i>	Putative transporter	0.0623	0.1141
JW0008	<i>mog</i>	Molybdochelata	0.0269	0.1935
JW0009	<i>yaaH</i>	Succinate-acetate tra	0.0876	0.0017
JW0010	<i>yaaW</i>	UPF0174 family pro	0.0694	0.2053
JW0012	<i>yaal</i>	UPF0412 family pro	-0.0435	0.1445
JW0018	<i>nhaA</i>	Sodium-proton anti	-0.0091	0.7726
JW0019	<i>nhaR</i>	Transcriptional activ	-0.0725	0.0417
JW0022	<i>rpsT</i>	30S ribosomal subu	0.002	0.9553
JW0024	<i>ileS</i>	Isoleucyl-trna synth	-0.1268	0.1086
JW0026	<i>fkpB</i>	FKBP-type peptidyl-|	0.0334	0.5347
JW0028	<i>rihC</i>	Ribonucleoside hyd	0.0069	0.9094
JW0030	<i>carA</i>	Carbamoyl phospho	0.0893	0.1038
JW0031	<i>carB</i>	Carbamoyl-phospho	0.0651	0.1219
JW0033	<i>caiF</i>	Cai operon transcrip	0.114	0.0898
JW0035	<i>caiD</i>	Carnitiny-coa dehyd	0.025	0.5492
JW0037	<i>caiB</i>	Crotonobetainyl coa	0.0036	0.9101
JW0038	<i>caiA</i>	Crotonobetaine red	-0.0047	0.9263
JW0039	<i>caiT</i>	Putative transporter	0.4032	0.0002
JW0040	<i>fixA</i>	Anaerobic carnitine |	0.058	0.1061
JW0041	<i>fixB</i>	Putative electron tra	-0.0146	0.6336
JW0042	<i>fixC</i>	Putative oxidoreduc	-0.0065	0.8901
JW0043	<i>fixX</i>	Putative 4Fe-4S ferr	0.0114	0.6153
JW0044	<i>yaaU</i>	Putative MFS sugar t	0.237	0.004
JW0045	<i>kefF</i>	Potassium-efflux sy	0.0365	0.4077
JW0046	<i>kefC</i>	Potassium;proton ai	0.0821	0.1587
JW0048	<i>apaH</i>	Diadenosine tetraph	0.0322	0.4279
JW0049	<i>apaG</i>	Protein associated w	0.0018	0.9319
JW0050	<i>ksgA</i>	16S rrna m(6)A1518	0.0183	0.4308
JW0051	<i>pdxA</i>	4-hydroxy-L-threoni	-0.0399	0.2976
JW0052	<i>surA</i>	Peptidyl-prolyl cis-tr	0.0615	0.076
JW0054	<i>djlA</i>	Membrane-anchore	-0.0886	0.0213
JW0055	<i>yabP</i>	Pseudogene, pentap	-0.011	0.7437
JW0057	<i>rluA</i>	Dual specificity 23S	-0.0337	0.3005
JW0058	<i>hepA</i>	RNA polymerase rerr	-0.035	0.0106
JW0059	<i>polB</i>	DNA polymerase II	-0.1108	0.0259
JW0063	<i>araC</i>	Ara regulon transcri	-0.0071	0.6309
JW0065	<i>thiQ</i>	Thiamine/thiamine p	-0.0016	0.9684
JW0066	<i>thiP</i>	Thiamine/thiamine p	-0.0074	0.7744
JW0067	<i>tbpA</i>	Thiamine/thiamine p	-0.0807	0.0846

JW0068	<i>sgrR</i>	Transcriptional DNA	0.0142	0.5347
JW0069	<i>setA</i>	Broad specificity suξ	0.1591	0.0062
JW0070	<i>leuD</i>	3-isopropylmalate d	0.1276	0.0071
JW0071	<i>leuC</i>	3-isopropylmalate d	0.2046	0.0029
JW0073	<i>leuA</i>	2-isopropylmalate sγ	0.3018	0.0007
JW0074	<i>leuL</i>	Leu operon leader pγ	0.1839	0.0154
JW0075	<i>leuO</i>	Global transcription	-0.0954	0.0058
JW0076	<i>ilvI</i>	Acetolactate synthas	-0.0369	0.371
JW0077	<i>ilvH</i>	Acetolactate synthas	-0.0466	0.266
JW0079	<i>mraZ</i>	Rsmh methyltransfer	0.0949	0.0169
JW0080	<i>mraW</i>	16S rrna m(4)C1402	-0.0108	0.7186
JW0090	<i>ddlB</i>	D-alanine:D-alanine	0.0217	0.6523
JW0097	<i>mutT</i>	Dgtp-preferring nucl	0.0637	0.0378
JW0099	<i>yacF</i>	Ftsz stabilizer	0.0369	0.3961
JW0100	<i>coaE</i>	Dephospho-coa kin:	-0.0713	0.2217
JW0101	<i>guaC</i>	GMP reductase	-0.0906	0.0906
JW0102	<i>hofC</i>	Assembly protein in	0.0423	0.2413
JW0103	<i>hofB</i>	T2SE secretion famil	0.1302	0.2282
JW0104	<i>ppdD</i>	Putative prepilin peγ	0.0307	0.2973
JW0105	<i>nadC</i>	Quinolinate phosph	0.0531	0.2658
JW0106	<i>ampD</i>	1,6-anhydro-N-acety	-0.0325	0.2875
JW0107	<i>ampE</i>	Ampicillin resistance	0.0507	0.149
JW0108	<i>aroP</i>	Aromatic amino acid	-0.004	0.9494
JW0109	<i>pdhR</i>	Pyruvate dehydroger	0.3527	0.0006
JW0110	<i>aceE</i>	Pyruvate dehydroger	0.0231	0.6135
JW0111	<i>aceF</i>	Pyruvate dehydroger	-0.0074	0.9198
JW0112	<i>lpd</i>	Dihydrolipoyl dehyd	0.0169	0.6226
JW0114	<i>acnB</i>	Aconitate hydratase	0.0773	0.0493
JW0115	<i>yacl</i>	UPF0231 family pro	-0.0274	0.5653
JW0116	<i>speD</i>	S-adenosylmethionii	0.0504	0.1356
JW0117	<i>speE</i>	Spermidine synthasε	-0.0934	0.0296
JW0118	<i>yacC</i>	Puls_outs family prc	0.0396	0.0607
JW0119	<i>cueO</i>	Multicopper oxidasε	-0.0318	0.2142
JW0120	<i>gcd</i>	Glucose dehydroger	-0.0276	0.4399
JW0123	<i>yadG</i>	Putative ABC transpγ	-0.0423	0.1017
JW0124	<i>yadH</i>	Putative ABC transpγ	-0.0854	0.0743
JW0125	<i>yadI</i>	Putative PTS Enzyme	0.0623	0.1383
JW0126	<i>yadE</i>	Putative polysacchar	0.0522	0.0587
JW0127	<i>panD</i>	Aspartate 1-decarbo	-0.054	0.3328
JW0129	<i>panC</i>	Pantothenate synthγ	0.0956	0.0027
JW0130	<i>panB</i>	3-methyl-2-oxobuta	-0.0001	0.9988
JW0131	<i>yadC</i>	Putative fimbrial-like	-0.0385	0.2861
JW0132	<i>yadK</i>	Putative fimbrial-like	0.0591	0.0284
JW0133	<i>yadL</i>	Putative fimbrial-like	-0.0544	0.3251
JW0134	<i>yadM</i>	Putative fimbrial-like	-0.0475	0.1698

JW0135	<i>htrE</i>	Putative outer memt	0.0886	0.025
JW0136	<i>ecpD</i>	Putative periplasmic	0.0361	0.0565
JW0137	<i>yadN</i>	Putative fimbrial-like	0.0044	0.9023
JW0141	<i>dksA</i>	Transcriptional regul	0.0751	0.169
JW0142	<i>sfsA</i>	Sugar fermentation s	0.0127	0.7298
JW0144	<i>hrpB</i>	Putative ATP-depend	-0.0254	0.2078
JW0145	<i>mrcB</i>	Fused glycosyl trans	0.2493	0.0002
JW0147	<i>fhuC</i>	Iron(3+)-hydroxama	0.011	0.7885
JW0148	<i>fhuD</i>	Iron(3+)-hydroxama	-0.0405	0.6255
JW0149	<i>fhuB</i>	Iron(3+)-hydroxama	0.0109	0.8317
JW0153	<i>yadS</i>	UPF0126 family inn	0.0828	0.0008
JW0154	<i>btuF</i>	Vitamin B12 ABC tra	0.0151	0.5763
JW0155	<i>pfs</i>	5'-methylthiadenos	-0.3293	0.0001
JW0156	<i>dgt</i>	Deoxyguanosine triph	0.0022	0.9574
JW0157	<i>degP</i>	Serine endoprotease	0.0039	0.9025
JW0159	<i>yaeH</i>	UPF0325 family pro	0.0036	0.9317
JW0162	<i>glnD</i>	Uridyltransferase	-0.0336	0.2002
JW0173	<i>hlpA</i>	Periplasmic chapero	0.09	0.0279
JW0178	<i>rnhB</i>	Ribonuclease HII, de	0.0321	0.2498
JW0181	<i>ldcC</i>	Lysine decarboxylas	-0.049	0.2259
JW0182	<i>yaeR</i>	Putative lyase	-0.0432	0.372
JW0185	<i>yaeP</i>	UPF0253 family pro	0.0589	0.0006
JW0186	<i>yaeQ</i>	PDDEXK superfamily	0.0076	0.8627
JW0187	<i>yaeI</i>	Alternative stalled-ri	0.0106	0.8532
JW0188	<i>nlpE</i>	Lipoprotein involvec	-0.0371	0.3837
JW0191	<i>yaeB</i>	Trna-Thr(GGU) m(6)	-0.0365	0.3118
JW0192	<i>rcsF</i>	Putative outer memt	0.0082	0.7331
JW0193	<i>metQ</i>	DL-methionine trans	0.0465	0.1112
JW0194	<i>metI</i>	DL-methionine trans	-0.0544	0.2145
JW0195	<i>metN</i>	DL-methionine trans	0.0282	0.4134
JW0196	<i>gmhB</i>	D,D-heptose 1,7-bis	-0.0387	0.2674
JW0197	<i>dkgB</i>	2,5-diketo-D-glucon	-0.0265	0.4403
JW0198	<i>yafC</i>	Lysr family putative i	-0.0307	0.5736
JW0200	<i>yafE</i>	Putative S-adenosyl-	-0.089	0.1394
JW0202	<i>gloB</i>	Hydroxyacylglutathi	-0.2974	0.0001
JW0203	<i>yafS</i>	Putative S-adenosyl-	0.0639	0.0796
JW0204	<i>rnhA</i>	Ribonuclease HI, de	-0.0779	0.0007
JW0205	<i>dnaQ</i>	DNA polymerase III e	0.0716	0.1749
JW0206	<i>yafT</i>	Lipoprotein	-0.0496	0.3501
JW0207	<i>yafU</i>	Pseudogene	0.2145	0
JW0210	<i>ivy</i>	Inhibitor of c-type ly	0.0009	0.0055
JW0212	<i>lpcA</i>	D-sedoheptulose 7-	-0.0396	0.3807
JW0213	<i>yafJ</i>	Type 2 glutamine am	-0.0893	0.0214
JW0214	<i>yafK</i>	L,D-transpeptidase-i	0.0021	0.9528
JW0215	<i>yafQ</i>	Mrna interferase tox	-0.0373	0.3662

JW0216	<i>dinJ</i>	Antitoxin of yafq-dir	-0.017	0.7214
JW0217	<i>yafL</i>	Putative lipoprotein	0.0532	0.3486
JW0218	<i>yafM</i>	RAYT REP element-m	-0.1104	0.0034
JW0221	<i>dinB</i>	DNA polymerase IV	-0.032	0.0918
JW0222	<i>yafN</i>	Antitoxin of the yafc	-0.003	0.9392
JW0223	<i>yafO</i>	Mrna interferase tox	0.0863	0.1191
JW0224	<i>yafP</i>	GNAT family putativ	0.0498	0.1897
JW0225	<i>ykfJ</i>	Pseudogene	0.0269	0.5742
JW0226	<i>prfH</i>	Putative peptide cha	0.1016	0.003
JW0227	<i>pepD</i>	Aminoacyl-histidine	0.0164	0.4127
JW0228	<i>gpt</i>	Xanthine phosphori	0.0414	0.1513
JW0229	<i>frsA</i>	Fermentation-respiri	0	0.8994
JW0230	<i>crl</i>	Pseudogene, sigma f	-0.0096	0.7782
JW0231	<i>phoE</i>	Outer membrane ph	0.1049	0.0225
JW0232	<i>proB</i>	Gamma-glutamate ki	0.2582	0.0017
JW0233	<i>proA</i>	Gamma-glutamylphc	0.161	0.0047
JW0234	<i>ykfI</i>	CP4-6 prophage; to	0.049	0.0914
JW0235	<i>yafW</i>	CP4-6 prophage; anI	0.0523	0.1142
JW0236	<i>ykfG</i>	CP4-6 prophage; rac	0.0187	0.4978
JW0239	<i>ykfB</i>	CP4-6 prophage; un	0.186	0.1122
JW0242	<i>yafZ</i>	CP4-6 prophage; coi	-0.0039	0.8677
JW0243	<i>ykfA</i>	CP4-6 prophage; pu	0.0559	0.1359
JW0254	<i>afuC</i>	CP4-6 prophage; pu	-0.0989	0.0015
JW0258	<i>ykgN</i>	Putative transposas	0.0367	0.5541
JW0259	<i>yagB</i>	Pseudogene, CP4-6	-0.0165	0.8693
JW0261	<i>yagE</i>	2-keto-3-deoxy gluc	-0.0313	0.4052
JW0262	<i>yagF</i>	D-xylonate dehydrat	0.0062	0.825
JW0264	<i>yagH</i>	CP4-6 prophage; pu	-0.0046	0.8036
JW0265	<i>yagI</i>	CP4-6 prophage; pu	-0.0389	0.1147
JW0266	<i>argF</i>	Ornithine carbamoyl	-0.0267	0.7595
JW0270	<i>yagJ</i>	CP4-6 prophage; un	0.1469	0.061
JW0271	<i>yagK</i>	CP4-6 prophage; coi	0.0009	0.9845
JW0272	<i>yagL</i>	CP4-6 prophage; DN	0.024	0.2312
JW0273	<i>yagM</i>	CP4-6 prophage; un	-0.079	0.2877
JW0274	<i>yagN</i>	Uncharacterized pro	0.0006	0.0001
JW0275	<i>intF</i>	CP4-6 prophage; pu	0.0047	0.903
JW0276	<i>yagP</i>	Pseudogene, lysr far	-0.0518	0.0456
JW0277	<i>yagQ</i>	Moco insertion fact	0.051	0.211
JW0278	<i>yagR</i>	Paoabc aldehyde oxi	-0.0699	0.0961
JW0279	<i>yagS</i>	Paoabc aldehyde oxi	-0.0157	0.5515
JW0280	<i>yagT</i>	Paoabc aldehyde oxi	-0.0531	0.1353
JW0282	<i>ykgJ</i>	UPF0153 cysteine cl	-0.3536	0.052
JW0284	<i>yagW</i>	Polymerized tip adh	0.0478	0.6753
JW0285	<i>yagX</i>	ECP production out	0.0308	0.3952
JW0287	<i>yagZ</i>	ECP pilin	-0.0234	0.8509

JW0291	<i>eaeh</i>	Pseudogene, attachi	0.0683	0.1652
JW0298	<i>ykgD</i>	Reactive chlorine spi	-0.0285	0.283
JW0300	<i>ykgF</i>	Ferridoxin-like lutb f	0.0579	0.0816
JW0302	<i>ykgH</i>	Putative inner memt	-0.1279	0.0094
JW0303	<i>betA</i>	Choline dehydrogen	-0.0105	0.8513
JW0304	<i>betB</i>	NAD/NADP-dependi	-0.0312	0.359
JW0306	<i>betT</i>	Choline transporter	0.0556	0.1489
JW0307	<i>yahA</i>	C-di-GMP-specific p	0.0379	0.2407
JW0308	<i>yahB</i>	Putative DNA-bindn	0.0222	0.5778
JW0309	<i>yahC</i>	Putative inner memt	-0.0527	0.0506
JW0310	<i>yahD</i>	Ankyrin repeat prote	0.0773	0.0036
JW0311	<i>yahE</i>	DUF2877 family pro	0.092	0.2564
JW0312	<i>yahF</i>	Putative NAD(P)-bin	0.1872	0.0094
JW0313	<i>yahG</i>	DUF1116 family pro	0.0166	0.671
JW0315	<i>yahl</i>	Carbamate kinase-lik	-0.016	0.4839
JW0316	<i>yahJ</i>	Putative metallo-deç	0.037	0.2233
JW0317	<i>yahK</i>	Broad specificity NA	-0.0434	0.3082
JW0318	<i>yahL</i>	Uncharacterized pro	-0.0215	0.6557
JW0320	<i>yahN</i>	Amino acid exporter	0.0146	0.5737
JW0321	<i>yahO</i>	Periplasmic protein,	-0.0075	0.699
JW0322	<i>prpR</i>	Propionate catabolis	-0.077	0.0254
JW0323	<i>prpB</i>	2-methylisocitrate ly	0.0842	0.0173
JW0325	<i>prpD</i>	2-methylcitrate dehy	-0.0991	0.0151
JW0326	<i>prpE</i>	Propionate--coa liga	-0.015	0.6642
JW0328	<i>codA</i>	Cytosine/isoguanine	0.0435	0.0912
JW0330	<i>cynT</i>	Carbonic anhydrase	-0.1279	0.0397
JW0331	<i>cynS</i>	Cyanate aminohydr	-0.0099	0.8465
JW0333	<i>lacA</i>	Thiogalactoside acet	0.0013	0.9752
JW0334	<i>lacY</i>	Lactose permease	0.0001	0.3369
JW0336	<i>lacI</i>	Lactose-inducible la	-0.0136	0.82
JW0338	<i>mhpA</i>	3-(3-hydroxyphenyl	-0.0018	0.9629
JW0339	<i>mhpB</i>	2,3-dihydroxypheny	-0.0507	0.2461
JW0340	<i>mhpC</i>	2-hydroxy-6-ketono	-0.035	0.4862
JW0341	<i>mhpD</i>	2-keto-4-pentenoati	0.0175	0.7038
JW0342	<i>mhpF</i>	Acetaldehyde-coa de	-0.0358	0.2176
JW0343	<i>mhpE</i>	4-hydroxy-2-oxovaler	0.0574	0.3375
JW0345	<i>yaiL</i>	DUF2058 family pro	-0.037	0.4138
JW0346	<i>frmB</i>	S-formylglutathione	-0.0195	0.63
JW0347	<i>frmA</i>	Alcohol dehydrogen	-0.0349	0.2536
JW0348	<i>frmR</i>	Regulator protein th	0.0589	0.0482
JW0349	<i>yaiO</i>	Outer membrane prc	0.0184	0.8961
JW0350	<i>yaiX</i>	CP4-44 prophage; p	-0.0538	0.3747
JW0355	<i>yaiP</i>	Putative family 2 gly	0.2771	0.062
JW0356	<i>yaiS</i>	Putative PIG-L famil	-0.0638	0.4803
JW0357	<i>tauA</i>	Taurine ABC transpo	0.0177	0.5973

JW0359	<i>tauC</i>	Taurine ABC transpo	-0.0271	0.6778
JW0360	<i>tauD</i>	Taurine dioxygenase	0.0687	0.1301
JW0362	<i>yaiT</i>	CP4-44 prophage; p	0.0715	0.0112
JW0368	<i>sbmA</i>	Peptide antibiotic tr	-0.0169	0.6344
JW0370	<i>yaiY</i>	DUF2755 family inn	0.1216	0.0233
JW0372	<i>ddlA</i>	D-alanine-D-alanine	0.0382	0.2436
JW0373	<i>yaiB</i>	Anti-rssb factor, rpo	0.0189	0.5881
JW0374	<i>phoA</i>	Bacterial alkaline phc	0.0698	0.1355
JW0376	<i>yaiC</i>	Diguanylate cyclase,	0.013	0.4483
JW0377	<i>proC</i>	Pyrroline-5-carboxyl	0.0135	0.6743
JW0378	<i>yail</i>	UPF0178 family pro	0.069	0.1073
JW0379	<i>aroL</i>	Shikimate kinase II	0.0415	0.3263
JW0380	<i>yaiA</i>	Oxyl-regulated cons	0.1142	0.0673
JW0381	<i>aroM</i>	Arom family protein	0.5247	0.0006
JW0382	<i>yaiE</i>	Pyrimidine/purine n	0.211	0.1711
JW0383	<i>ykiA</i>	Pseudogene	-0.0832	0.0849
JW0384	<i>rdgC</i>	Recombination-assc	-0.0091	0.7698
JW0385	<i>mak</i>	Manno(fructo)kinas	0.0046	0.9371
JW0386	<i>araJ</i>	L-arabinose-inducib	-0.1904	0.0283
JW0387	<i>sbC</i>	Exonuclease, dsdna,	0.1393	0.2692
JW0388	<i>sbD</i>	Exonuclease, dsdna,	0.0375	0.252
JW0389	<i>phoB</i>	Response regulator i	-0.0032	0.9378
JW0390	<i>phoR</i>	Sensory histidine kir	-0.0052	0.8876
JW0391	<i>brnQ</i>	Branched-chain amii	-0.0934	0.015
JW0393	<i>malZ</i>	Maltodextrin glucos	0.0606	0.3683
JW0394	<i>yajB</i>	Acyl carrier protein (	0.0259	0.8446
JW0395	<i>queA</i>	S-adenosylmethionii	0.0056	0.8924
JW0396	<i>tgt</i>	Trna-guanine transgl	-0.0425	0.1912
JW0397	<i>yajC</i>	Secyeg protein trans	0.0564	0.0178
JW0403	<i>ybaD</i>	Nrd regulon repress	0.0533	0.6363
JW0406	<i>nusB</i>	Transcription antiter	0.0588	0.0599
JW0408	<i>pgpA</i>	Phosphatidylglycero	-0.064	0.3239
JW0409	<i>yajO</i>	2-carboxybenzaldehy	-0.0075	0.7981
JW0412	<i>xseB</i>	Exonuclease VII smal	-0.0197	0.7122
JW0413	<i>thiI</i>	Trna s(4)U8 sulfurtr	0.132	0.1927
JW0415	<i>panE</i>	2-dehydropantoate	-0.1197	0.0059
JW0418	<i>cyoE</i>	Protoheme IX farnes	-0.02	0.5023
JW0419	<i>cyoD</i>	Cytochrome o ubiqu	-0.1968	0.2691
JW0420	<i>cyoC</i>	Cytochrome o ubiqu	0.0591	0.2626
JW0421	<i>cyoB</i>	Cytochrome o ubiqu	0.1037	0.0163
JW0423	<i>ampG</i>	Muropeptide transp	-0.0017	0.9576
JW0424	<i>yajG</i>	Putative lipoprotein	-0.0601	0.1249
JW0426	<i>tig</i>	Peptidyl-prolyl cis/tr	0.0212	0.3959
JW0427	<i>clpP</i>	Proteolytic subunit	0.0177	0.6833
JW0428	<i>clpX</i>	Atpase and specificii	0.1388	0.0371

JW0430	<i>hupB</i>	HU, DNA-binding tra	0.1564	0.0219
JW0431	<i>ppiD</i>	Periplasmic folding c	0.0004	0.9896
JW0432	<i>ybaV</i>	Putative competenc	-0.0038	0.897
JW0433	<i>ybaW</i>	Long-chain acyl-coa	0.012	0.8238
JW0434	<i>ybaX</i>	7-cyano-7-deazagua	-0.03	0.2253
JW0435	<i>ybaE</i>	Putative ABC transp	-0.0291	0.5749
JW0437	<i>ybaO</i>	Putative DNA-bindir	-0.0174	0.6375
JW0438	<i>mdIA</i>	Putative multidrug A	0.0208	0.6008
JW0440	<i>glnK</i>	Nitrogen assimilatio	0.0153	0.4342
JW0441	<i>amtB</i>	Ammonium transpo	0.0447	0.307
JW0442	<i>tesB</i>	Acyl-coa thioesteras	0.0952	0.0193
JW0443	<i>ybaY</i>	Outer membrane lipi	0.0293	0.3735
JW0444	<i>ybaZ</i>	Excision repair prote	-0.1142	0.0008
JW0445	<i>ybaA</i>	DUF1428 family pro	-0.0814	0.0517
JW0448	<i>maa</i>	Maltose O-acetyltrar	0.0258	0.5687
JW0449	<i>hha</i>	Modulator of gene e	0.0087	0.7809
JW0450	<i>ybaJ</i>	Hha toxicity attenua	0.0342	0.2269
JW0451	<i>acrB</i>	Multidrug efflux sys	0.0802	0.0227
JW0452	<i>acrA</i>	Multidrug efflux sys	-0.0551	0.1819
JW0453	<i>acrR</i>	Transcriptional repre	0.0461	0.3424
JW0454	<i>kefA</i>	Mechanosensitive cl	-0.273	0.0881
JW0456	<i>priC</i>	Primosomal replicati	0.144	0.0311
JW0457	<i>ybaN</i>	DUF454 family inner	-0.0989	0.417
JW0458	<i>apt</i>	Adenine phosphorit	0.0259	0.3409
JW0460	<i>ybaB</i>	DNA-binding proteir	-0.0422	0.237
JW0461	<i>recR</i>	Gap repair protein	-0.036	0.5634
JW0462	<i>htpG</i>	Protein refolding mc	-0.0186	0.4757
JW0465	<i>aes</i>	Acetyl esterase	0.006	0.8555
JW0466	<i>gsk</i>	Inosine/guanosine k	-0.0357	0.3419
JW0467	<i>ybaL</i>	Inner membrane put	-0.0354	0.1149
JW0468	<i>fsr</i>	Putative fosmidomy	0.0266	0.301
JW0469	<i>ushA</i>	Bifunctional UDP-su	-0.0251	0.5861
JW0470	<i>ybaK</i>	Cys-trna(Pro)/Cys-tr	-0.0696	0.0746
JW0471	<i>ybaP</i>	Trab family protein	0.024	0.7053
JW0472	<i>ybaQ</i>	Putative DNA-bindir	0.048	0.06
JW0474	<i>ybaS</i>	Glutaminase 1	-0.0429	0.1848
JW0476	<i>cueR</i>	Copper-responsive r	-0.0007	0.9813
JW0478	<i>ybbK</i>	PHB domain membr	0.1422	0.0003
JW0479	<i>ybbL</i>	Iron export ABC tran	-0.0732	0.2073
JW0482	<i>ybbO</i>	Short-chain dehydr	-0.0627	0.0937
JW0483	<i>tesA</i>	Acyl-coa thioesteras	-0.1179	0.0065
JW0485	<i>ybbP</i>	Putative ABC transp	0.0037	0.8293
JW0487	<i>ybbC</i>	Putative immunity p	0.0556	0.1033
JW0488	<i>yIbH</i>	Pseudogene, Rhs far	-0.0179	0.2883
JW0489	<i>ybbD</i>	Pseudogene	0.0507	0.2029

JW0491	<i>ybbB</i>	Trna 2-selenouridine	-0.0477	0.0472
JW0492	<i>ybbS</i>	Alld operon transcrip	-0.0998	0.0063
JW0493	<i>allA</i>	Ureidoglycolate lyase	0.0211	0.3841
JW0494	<i>allR</i>	Glyoxylate-inducible	-0.0093	0.8149
JW0495	<i>gcl</i>	Glyoxylate carboliga:	-0.0609	0.2334
JW0497	<i>glxR</i>	Tartronate semialdeh	-0.0103	0.7936
JW0498	<i>ybbV</i>	Uncharacterized pro	0.0005	0.0017
JW0499	<i>ybbW</i>	Putative allantoin tra	0.0442	0.1522
JW0500	<i>allB</i>	Allantoinase	-0.0053	0.8667
JW0501	<i>ybbY</i>	Putative uracil/xanth	-0.0152	0.5182
JW0502	<i>glxK</i>	Glycerate kinase II	-0.0077	0.9058
JW0504	<i>allC</i>	Allantoate amidohyc	0.0047	0.878
JW0505	<i>allD</i>	Ureidoglycolate deh	-0.019	0.7082
JW0506	<i>fdrA</i>	Putative NAD(P)-bin	0.418	0.0365
JW0507	<i>yIbE</i>	CP4-44 prophage; p	0.0341	0.4445
JW0510	<i>ybcF</i>	Putative carbonate k	-0.0142	0.4673
JW0511	<i>purK</i>	N5-carboxyaminoim	0.0805	0.0075
JW0512	<i>purE</i>	N5-carboxyaminoim	-0.0488	0.1404
JW0516	<i>ybcI</i>	DUF457 family inner	0.0084	0.9143
JW0519	<i>sfmA</i>	Fima homolog, funct	-0.0177	0.6092
JW0521	<i>sfmD</i>	Putative outer memt	-0.0324	0.018
JW0525	<i>intD</i>	DLP12 prophage; pu	0.0418	0.1616
JW0526	<i>ybcC</i>	Pseudogene, DLP12	0.0498	0.2276
JW0527	<i>ybcD</i>	CP4-44 prophage; p	-0.0108	0.7997
JW0530	<i>renD</i>	Pseudogene, DLP12	-0.0345	0.1919
JW0531	<i>emrE</i>	DLP12 prophage; mi	-0.0148	0.6497
JW0532	<i>ybcK</i>	DLP12 prophage; pu	-0.0022	0.9614
JW0533	<i>ybcL</i>	DLP12 prophage; in:	0.0731	0.2792
JW0534	<i>ybcM</i>	DLP12 prophage; pu	-0.0278	0.5405
JW0535	<i>ybcN</i>	DLP12 prophage; SS	-0.1333	0.3909
JW0536	<i>ninE</i>	DLP12 prophage; co	-0.013	0.728
JW0537	<i>ybcO</i>	DLP12 prophage; DI	-0.1306	0.4046
JW0539	<i>ybcQ</i>	DLP12 prophage; pu	0.0528	0.2645
JW0543	<i>essD</i>	DLP12 prophage; pu	-0.0694	0.0325
JW0544	<i>ybcS</i>	DLP12 prophage; pu	0.0278	0.5158
JW0546	<i>borD</i>	DLP12 prophage; pu	0.0308	0.4546
JW0548	<i>ybcW</i>	DLP12 prophage; ur	0.0086	0.7936
JW0549	<i>nohB</i>	DLP12 prophage; DI	-0.0564	0.1763
JW0551	<i>ybcY</i>	Pseudogene, DLP12	0.0215	0.626
JW0552	<i>yIcE</i>	Pseudogene, DLP12	-0.0619	0.1824
JW0553	<i>appY</i>	Global transcription	-0.1109	0.0045
JW0554	<i>ompT</i>	DLP12 prophage; ou	0.0259	0.5577
JW0555	<i>envY</i>	Porin thermoregulat	0.1473	0.0304
JW0556	<i>ybcH</i>	PRK09936 family pr	0.1071	0.3901
JW0557	<i>nfrA</i>	Bacteriophage N4 re	0.0609	0.0445

JW0558	<i>nfrB</i>	Bacteriophage N4 re	-0.0262	0.5743
JW0561	<i>cusC</i>	Copper/silver efflux	0.0025	0.9092
JW0563	<i>cusB</i>	Copper/silver efflux	0.0526	0.1601
JW0564	<i>cusA</i>	Copper/silver efflux	0.0226	0.5199
JW0565	<i>pheP</i>	Phenylalanine trans	-0.0111	0.7506
JW0566	<i>ybdG</i>	Mechanosensitive cl	-0.0461	0.4129
JW0567	<i>nfnB</i>	Dihydropteridine rec	-0.0927	0.0224
JW0569	<i>ybdJ</i>	DUF1158 family put	0.0454	0.567
JW0570	<i>ybdK</i>	Weak gamma-glutar	0.0057	0.8625
JW0576	<i>fes</i>	Enterobactin/ferrien	0.253	0.0488
JW0577	<i>ybdZ</i>	Stimulator of entf ac	-0.2336	0.0174
JW0578	<i>entF</i>	Enterobactin syntha	-0.0275	0.5968
JW0579	<i>fepE</i>	Regulator of length c	-0.0466	0.3297
JW0580	<i>fepC</i>	Ferrienterobactin AB	-0.0386	0.7192
JW0581	<i>fepG</i>	Iron-enterobactin Af	0.3122	0.0027
JW0582	<i>fepD</i>	Ferrienterobactin AB	-0.0132	0.6283
JW0583	<i>ybdA</i>	Enterobactin export	-0.152	0.0109
JW0584	<i>fepB</i>	Ferrienterobactin AB	0.0048	0.9616
JW0585	<i>entC</i>	Isochorismate synth	-0.0851	0.0304
JW0586	<i>entE</i>	2,3-dihydroxybenzo	0.035	0.1471
JW0587	<i>entB</i>	Isochorismatase	-0.0869	0.2346
JW0588	<i>entA</i>	2,3-dihydro-2,3-dih	-0.0692	0.0264
JW0589	<i>ybdB</i>	Enterobactin synthe	-0.0149	0.659
JW0590	<i>cstA</i>	Carbon starvation pi	-0.0234	0.6816
JW0591	<i>ybdD</i>	DUF466 family prot	0.0313	0.5646
JW0592	<i>ybdH</i>	Hydroxycarboxylate	-0.025	0.5675
JW0594	<i>ybdM</i>	Spo0J family protein	0.018	0.4605
JW0595	<i>ybdN</i>	PAPS reductase-like	-0.1102	0.459
JW0596	<i>ybdO</i>	Putative DNA-bindir	-0.2785	0.0558
JW0597	<i>dsbG</i>	Thiol:disulfide interc	-0.0494	0.0846
JW0600	<i>uspG</i>	Universal stress prot	0.0837	0.0967
JW0601	<i>ybdR</i>	Uncharacterized zin	-0.0745	0.0715
JW0602	<i>rnk</i>	Regulator of nucleos	0.0436	0.3543
JW0603	<i>rna</i>	Ribonuclease I	-0.0113	0.6756
JW0604	<i>citT</i>	Citrate/succinate an	-0.0265	0.5467
JW0605	<i>citG</i>	2-(5''-triphosphorib	0.0256	0.7108
JW0606	<i>citX</i>	Apo-citrate lyase ph	-0.0694	0.1744
JW0608	<i>citE</i>	Citrate lyase, citryl-A	-0.0231	0.5381
JW0609	<i>citD</i>	Citrate lyase, acyl car	-0.0544	0.1867
JW0610	<i>citC</i>	Citrate lyase ligase; [i	-0.0898	0.0081
JW0611	<i>citA</i>	Sensory histidine kir	0.0633	0.0686
JW0612	<i>citB</i>	Response regulator i	0.0376	0.2979
JW0613	<i>dcuC</i>	CP4-44 prophage; p	-0.007	0.7961
JW0616	<i>dcuC</i>	CP4-44 prophage; p	-0.0117	0.6716
JW0617	<i>crcA</i>	Phospholipid:lipid A	0.0115	0.8187

JW0618	<i>cspE</i>	Constitutive cold sh	-0.0525	0.1275
JW0619	<i>crcB</i>	Fluoride efflux chanı	-0.0199	0.757
JW0620	<i>ybeH</i>	CP4-44 prophage; p	0.0041	0.8888
JW0621	<i>ybeM</i>	CP4-44 prophage; p	0.0447	0.0491
JW0623	<i>lipA</i>	Lipoyl synthase	-0.3178	0.0025
JW0624	<i>ybeF</i>	Lysr family putative i	0.0599	0.0184
JW0626	<i>ybeD</i>	UPF0250 family pro	-0.0671	0.2183
JW0628	<i>rlpA</i>	Septal ring protein, s	0.0846	0.0002
JW0631	<i>ybeA</i>	23S rrna m(3)Psi19:	-0.0555	0.0333
JW0633	<i>cobC</i>	Putative alpha-ribazı	0.1701	0.0253
JW0638	<i>ybeL</i>	DUF1451 family pro	0.2345	0.0633
JW0640	<i>ybeR</i>	DUF1266 family pro	-0.1602	0.2288
JW0642	<i>ybeT</i>	Sel1 family TPR-like r	0.0284	0.3677
JW0644	<i>djlC</i>	J domain-containing	0.0817	0.1717
JW0645	<i>hscC</i>	Hsp70 family chapei	0.035	0.1883
JW0646	<i>rihA</i>	Ribonucleoside hydı	0.0151	0.7904
JW0647	<i>gltL</i>	Glutamate/aspartate	-0.0924	0.027
JW0648	<i>gltK</i>	Glutamate/aspartate	0.0759	0.1957
JW0649	<i>gltJ</i>	Glutamate/aspartate	0.0112	0.6033
JW0655	<i>ybeX</i>	Putative ion transpo	-0.0209	0.5041
JW0656	<i>ybeY</i>	Ssrna-specific endor	-0.0657	0.1086
JW0657	<i>ybeZ</i>	Heat shock protein,	0.0446	0.2721
JW0658	<i>miaB</i>	Trna-i(6)A37 methyl	0.0818	0.2146
JW0659	<i>ubiF</i>	2-octaprenyl-3-metf	-0.0682	0.0589
JW0660	<i>asnB</i>	Asparagine syntheta	0.0326	0.3188
JW0661	<i>nagD</i>	UMP phosphatase	-0.0485	0.1483
JW0662	<i>nagC</i>	N-acetylglucosamine	-0.1908	0.0019
JW0663	<i>nagA</i>	N-acetylglucosamine	0.1164	0.0631
JW0664	<i>nagB</i>	Glucosamine-6-pho	0.078	0.0207
JW0667	<i>ybfM</i>	Chitoporin, uptake c	0.1052	0.0813
JW0668	<i>ybfN</i>	Chitosugar-induced	0.004	0.8985
JW0669	<i>fur</i>	Ferric iron uptake reğ	0.0318	0.5215
JW0674	<i>seqA</i>	Negative modulator	-0.0103	0.843
JW0675	<i>pgm</i>	Phosphoglucomuta:	0.1333	0.1494
JW0676	<i>ybfP</i>	Lipoprotein	-0.0249	0.2222
JW0679	<i>potE</i>	Putrescine/proton s	-0.0089	0.6763
JW0680	<i>speF</i>	Ornithine decarboxy	0.0112	0.8211
JW0683	<i>kdpD</i>	Fused sensory histic	-0.0422	0.3336
JW0684	<i>kdpC</i>	Potassium transloca	-0.0511	0.0371
JW0685	<i>kdpB</i>	Potassium transloca	0.0028	0.8971
JW0686	<i>kdpA</i>	Potassium transloca	-0.0035	0.9545
JW0687	<i>kdpF</i>	Potassium ion acces	-0.0729	0.2746
JW0688	<i>ybfA</i>	DUF2517 family pro	-0.0104	0.5576
JW0689	<i>rhcC</i>	Rhc protein with pul	-0.0051	0.8174
JW0691	<i>ybfB</i>	Putative membrane j	0.025	0.8436

JW0692	<i>ybfO</i>	Pseudogene, Rhs far	0.0148	0.6654
JW0693	<i>ybfC</i>	Putative secreted pri	0.0329	0.7769
JW0695	<i>ybfL</i>	Pseudogene, DDE dc	-0.0033	0.8756
JW0696	<i>ybfD</i>	H repeat-associated	-0.0296	0.5886
JW0697	<i>ybgA</i>	DUF1722 family pro	-0.0525	0.2462
JW0698	<i>phr</i>	Deoxyribodipyrimidi	0.1389	0.03
JW0699	<i>ybgH</i>	Dipeptide and tripep	-0.058	0.0701
JW0700	<i>ybgI</i>	GTP cyclohydrolase-	0.0618	0.0062
JW0701	<i>ybgJ</i>	Putative allophanate	0.0031	0.9149
JW0702	<i>ybgK</i>	Putative allophanate	-0.0326	0.4
JW0703	<i>ybgL</i>	UPF0271 family pro	-0.0599	0.2199
JW0704	<i>nei</i>	Endonuclease VIII an	0.0594	0.1862
JW0707	<i>ybgP</i>	Putative periplasmic	-0.009	0.859
JW0709	<i>ybgD</i>	Putative fimbrial-like	0.0566	0.0579
JW0710	<i>gltA</i>	Citrate synthase	0.0427	0.3401
JW0711	<i>sdhC</i>	Succinate dehydroge	0.2135	0.0188
JW0712	<i>sdhD</i>	Succinate dehydroge	-0.0172	0.7319
JW0714	<i>sdhB</i>	Succinate dehydroge	0.0765	0.214
JW0715	<i>sucA</i>	2-oxoglutarate deca	0.0219	0.2638
JW0716	<i>sucB</i>	Dihydrolipoyl succir	-0.0238	0.4334
JW0717	<i>sucC</i>	Succinyl-coa synthe	-0.0753	0.1184
JW0718	<i>sucD</i>	Succinyl-coa synthe	0.0546	0.0519
JW0719	<i>mngR</i>	Transcriptional repre	0.0091	0.6498
JW0720	<i>mngA</i>	Fused 2-O-a-manno	-0.0396	0.4701
JW0721	<i>mngB</i>	Alpha-mannosidase	-0.0014	0.9606
JW0723	<i>cydB</i>	Cytochrome d termi	0.0692	0.218
JW0724	<i>ybgT</i>	Cytochrome d (bd-l)	-0.012	0.6921
JW0725	<i>ybgE</i>	Putative inner memt	-0.068	0.0691
JW0726	<i>ybgC</i>	Acyl-coa thioester h	-0.0001	0.9978
JW0727	<i>tolQ</i>	Membrane spanning	-0.0427	0.3058
JW0728	<i>tolR</i>	Membrane spanning	0.077	0.037
JW0729	<i>tolA</i>	Membrane anchorec	-0.0187	0.5552
JW0731	<i>pal</i>	Peptidoglycan-assoc	0.0762	0.0685
JW0732	<i>ybgF</i>	Periplasmic tola-bin	-0.0245	0.4913
JW0733	<i>nadA</i>	Quinolate synthas	0.1018	0.0158
JW0734	<i>pnuC</i>	Nicotinamide ribosic	0.0649	0.2637
JW0735	<i>zitB</i>	Zinc efflux system	0.0507	0.3648
JW0736	<i>ybgS</i>	Putative periplasmic	-0.0125	0.7878
JW0737	<i>aroG</i>	3-deoxy-D-arabino-l	-0.0579	0.2842
JW0738	<i>gpmA</i>	Phosphoglyceromut	-0.1748	0.0001
JW0740	<i>galK</i>	Galactokinase	-0.104	0.004
JW0741	<i>galT</i>	Galactose-1-phosph	-0.0491	0.0444
JW0742	<i>galE</i>	UDP-galactose-4-ep	-0.0157	0.5908
JW0743	<i>modF</i>	Molybdate ABC tran	-0.0238	0.627
JW0744	<i>modE</i>	Transcriptional repre	-0.0565	0.0153

JW0746	<i>modA</i>	Molybdate-binding p	0.0623	0.1778
JW0747	<i>modB</i>	Molybdate ABC tran	0.1142	0.0118
JW0748	<i>modC</i>	Molybdate ABC tran	0.0864	0.1413
JW0749	<i>ybhA</i>	Pyridoxal phosphate	0.013	0.627
JW0750	<i>ybhE</i>	6-phosphogluconol	0.029	0.3805
JW0752	<i>ybhH</i>	Putative prpf family	0.023	0.3954
JW0753	<i>ybhI</i>	Putative DASS family	-0.0267	0.5251
JW0756	<i>ybhB</i>	Kinase inhibitor hon	0.0125	0.3522
JW0757	<i>bioA</i>	7,8-diaminopelargor	0.1081	0.009
JW0758	<i>bioB</i>	Biotin synthase	0.157	0.0006
JW0759	<i>bioF</i>	8-amino-7-oxonona	0.1833	0.0004
JW0760	<i>bioC</i>	Malonyl-ACP O-metl	0.0216	0.5398
JW0761	<i>bioD</i>	Dethiobiotin synthe	-0.0268	0.6669
JW0762	<i>uvrB</i>	Exision nuclease of r	0.0747	0.1059
JW0763	<i>ybhK</i>	Putative cofd superf	-0.0518	0.4211
JW0764	<i>moaA</i>	Molybdopterin bios	0.0179	0.6359
JW0766	<i>moaC</i>	Molybdopterin bios	0.0193	0.5725
JW0767	<i>moaD</i>	Molybdopterin synt	0.0997	0.0114
JW0768	<i>moaE</i>	Molybdopterin synt	0.0625	0.0013
JW0769	<i>ybhL</i>	Putative acetate tran	-0.0066	0.8836
JW0770	<i>ybhM</i>	BAX Inhibitor-1 fami	-0.1157	0.0282
JW0771	<i>ybhN</i>	Inner membrane pro	-0.0022	0.9444
JW0772	<i>ybhO</i>	Cardiolipin synthase	0.0059	0.834
JW0774	<i>ybhQ</i>	Inner membrane pro	0.0569	0.0116
JW0777	<i>ybhS</i>	Putative ABC transp	0.0433	0.1267
JW0779	<i>ybhG</i>	Putative membrane i	-0.0261	0.4784
JW0780	<i>ybiH</i>	DUF1956 domain-ci	0.0196	0.5485
JW0781	<i>rhIE</i>	ATP-dependent RNA	-0.0631	0.112
JW0783	<i>ybiA</i>	DUF1768 family pro	0.0505	0.737
JW0784	<i>dinG</i>	ATP-dependent DNA	-0.0633	0.1858
JW0785	<i>ybiB</i>	Putative family 3 gly	0.0867	0.0228
JW0786	<i>ybiC</i>	Hydroxycarboxylate	-0.0213	0.6405
JW0788	<i>ybiI</i>	Dksa-type zinc finge	-0.3346	0.0482
JW0790	<i>fiu</i>	Catecholate sideropl	-0.0526	0.0126
JW0794	<i>glnQ</i>	Glutamine transport	-0.0981	0.0001
JW0795	<i>glnP</i>	Glutamine transport	-0.002	0.9486
JW0796	<i>glnH</i>	Glutamine transport	0.014	0.6115
JW0797	<i>dps</i>	Fe-binding and stor	-0.0237	0.4468
JW0798	<i>rhtA</i>	Threonine and homc	0.0074	0.8357
JW0799	<i>ompX</i>	Outer membrane prc	0.004	0.8955
JW0800	<i>ybiP</i>	OPG biosynthetic tr:	0.024	0.3316
JW0801	<i>mntR</i>	Mn(2+)-responsive i	0.0152	0.7726
JW0802	<i>ybiR</i>	Putative arsb family	-0.0201	0.6142
JW0803	<i>ybiS</i>	L,D-transpeptidase I	-0.0208	0.5051
JW0804	<i>ybiT</i>	ABC-F family putativ	0.0197	0.6556

JW0805	<i>ybiU</i>	DUF1479 family pro	0.066	0.5892
JW0806	<i>ybiV</i>	Sugar phosphatase;	0.0759	0.0068
JW0807	<i>ybiW</i>	Putative pyruvate fo	-0.0767	0.0187
JW0808	<i>ybiY</i>	Putative pyruvate fo	0.0216	0.7201
JW0810	<i>moeB</i>	Molybdopterin synt	0.0454	0.1341
JW0811	<i>moeA</i>	Molybdopterin moly	0.0366	0.3277
JW0812	<i>iaaA</i>	Isoaspartyl peptidas	-0.028	0.3
JW0815	<i>yliC</i>	Glutathione ABC tra	-0.0836	0.014
JW0816	<i>yliD</i>	Glutathione ABC tra	-0.0139	0.6931
JW0817	<i>yliE</i>	Putative membrane-	0.0217	0.5794
JW0818	<i>yliF</i>	Putative membrane-	0.0075	0.8537
JW0819	<i>yliG</i>	Ribosomal protein S	-0.1013	0.0309
JW0820	<i>yliH</i>	Repressor of biofilm	0.0482	0.1943
JW0821	<i>yliI</i>	Soluble aldose sugar	0.0313	0.2685
JW0822	<i>yliJ</i>	Glutathione S-transf	0.0495	0.6729
JW0824	<i>deoR</i>	Deoxyribose-5-phos	-0.1311	0.0281
JW0826	<i>cmr</i>	Multidrug efflux sys	0.0795	0.0002
JW0827	<i>ybjH</i>	Uncharacterized pro	-0.0261	0.6375
JW0829	<i>ybjJ</i>	Putative drug efflux	0.0954	0.0632
JW0831	<i>ybjL</i>	Putative transporter	0.0133	0.3645
JW0832	<i>ybjM</i>	Inner membrane pro	-0.0911	0.0508
JW0833	<i>grxA</i>	Glutaredoxin 1, redc	-0.0167	0.749
JW0834	<i>ybjC</i>	DUF1418 family pro	-0.0335	0.3211
JW0835	<i>nfsA</i>	Nitroreductase A, N/	-0.021	0.3119
JW0836	<i>rimK</i>	Ribosomal protein S	-0.017	0.6719
JW0838	<i>potF</i>	Putrescine ABC tran:	0.1032	0.1739
JW0840	<i>potH</i>	Putrescine ABC tran:	0.0044	0.9087
JW0841	<i>potI</i>	Putrescine ABC tran:	0.0566	0.1569
JW0842	<i>ybjO</i>	DUF2593 family inn	0.0965	0.4684
JW0843	<i>rumB</i>	23S rrna (uracil(747	0.0248	0.5281
JW0844	<i>artJ</i>	Arginine ABC transp	-0.0248	0.4953
JW0845	<i>artM</i>	Arginine ABC transp	0.0232	0.4346
JW0846	<i>artQ</i>	Arginine ABC transp	-0.0419	0.1942
JW0847	<i>artI</i>	Arginine transporter	-0.038	0.5351
JW0848	<i>artP</i>	Arginine ABC transp	-0.0471	0.1816
JW0849	<i>ybjP</i>	Lipoprotein	0.0066	0.8336
JW0850	<i>ybjQ</i>	UPF0145 family pro	-0.0266	0.8436
JW0851	<i>ybjR</i>	1,6-anhydro-N-acet	0.0375	0.1005
JW0854	<i>ltaE</i>	L-allo-threonine ald	0.0341	0.3333
JW0855	<i>poxB</i>	Pyruvate dehydroge	0.0474	0.273
JW0857	<i>hcp</i>	Hydroxylamine redu	0	0.9985
JW0858	<i>ybjE</i>	Putative transporter	-0.0032	0.9209
JW0859	<i>aqpZ</i>	Aquaporin Z	0.1158	0.0013
JW0860	<i>ybjD</i>	Putative OLD family	0.1441	0.2879
JW0861	<i>ybjX</i>	DUF535 family prot	0.0166	0.3596

JW0862	<i>macA</i>	Macrolide transport	-0.0228	0.4021
JW0863	<i>macB</i>	Macrolide ABC trans	-0.0537	0.2148
JW0864	<i>cspD</i>	Inhibitor of DNA rep	0.0385	0.3211
JW0865	<i>clpS</i>	Regulatory protein fi	0.0093	0.7536
JW0866	<i>clpA</i>	Atpase and specificii	-0.0248	0.547
JW0868	<i>aat</i>	Leucyl/phenylalanyl-	0.0498	0.312
JW0870	<i>cydD</i>	Glutathione/cysteini	0.0254	0.6813
JW0871	<i>trxB</i>	Thioredoxin reducta	0.0675	0.2056
JW0872	<i>lrp</i>	Leucine-responsive t	-0.0627	0.2691
JW0875	<i>ycaJ</i>	Recombination inter	-0.026	0.4917
JW0878	<i>dmsB</i>	Dimethyl sulfoxide r	-0.0179	0.5967
JW0879	<i>dmsC</i>	Dimethyl sulfoxide r	0.0091	0.7445
JW0880	<i>ycaC</i>	Putative isochorism:	-0.021	0.5845
JW0881	<i>ycaD</i>	Putative MFS transp	0.0609	0.3984
JW0884	<i>ycaK</i>	Putative NAD(P)H-d	-0.0375	0.2679
JW0885	<i>pflA</i>	Pyruvate formate-lyc	-0.0288	0.261
JW0886	<i>pflB</i>	Formate C-acetyltrar	-0.0817	0.0289
JW0887	<i>focA</i>	Formate channel	-0.0029	0.931
JW0888	<i>ycaO</i>	Ribosomal protein S	0.0542	0.2766
JW0889	<i>ycaP</i>	UPF0702 family put	-0.0411	0.369
JW0890	<i>serC</i>	3-phosphoserine/pl	-0.0944	0.1109
JW0891	<i>aroA</i>	5-enolpyruvylshikim	0.0553	0.073
JW0892	<i>ycaL</i>	Putative peptidase-r	0.132	0.0004
JW0893	<i>cmk</i>	Cytidylate kinase	-0.0668	0.2819
JW0895	<i>ihfB</i>	Integration host fact	0.1517	0.1056
JW0899	<i>ycaQ</i>	DUF1006 family pro	-0.0213	0.4513
JW0900	<i>ycaR</i>	Peroxide and acid re	0.0279	0.6251
JW0902	<i>ycbJ</i>	Uncharacterized pro	0.0575	0.7053
JW0904	<i>smtA</i>	Putative S-adenosyl-	0.0349	0.1272
JW0908	<i>ycbB</i>	Murein L,D-transper	-0.0775	0.0322
JW0909	<i>ycbK</i>	M15A protease-relai	-0.0134	0.6681
JW0910	<i>ycbL</i>	Putative metal-bindi	0.0409	0.4393
JW0912	<i>ompF</i>	Outer membrane po	-0.0076	0.8917
JW0914	<i>pncB</i>	Nicotinate phospho	-0.0718	0.0633
JW0915	<i>pepN</i>	Aminopeptidase N	0.0562	0.2382
JW0916	<i>ssuB</i>	Aliphatic sulfonate A	0.0392	0.1821
JW0918	<i>ssuD</i>	Alkanesulfonate moi	-0.0371	0.5026
JW0919	<i>ssuA</i>	Aliphatic sulfonate A	-0.0591	0.3424
JW0920	<i>ssuE</i>	NAD(P)H-dependen	0.0032	0.9372
JW0922	<i>ycbR</i>	Putative periplasmic	0.0224	0.5539
JW0923	<i>ycbS</i>	Putative outer memt	0.0505	0.2884
JW0924	<i>ycbT</i>	Putative fimbrial-like	-0.2011	0.1055
JW0925	<i>ycbU</i>	Putative fimbriae prc	0.0388	0.7305
JW0928	<i>pyrD</i>	Dihydro-orotate oxi	0.0019	0.9633
JW0931	<i>ycbY</i>	23S rrna m(2)G244	0.0471	0.2322

JW0932	<i>uup</i>	Replication regulator	0.058	0.2104
JW0933	<i>pqiA</i>	Inner membrane sub	0.0173	0.6157
JW0934	<i>pqiB</i>	Periplasmic MCE sub	0.0036	0.9077
JW0936	<i>rmf</i>	Ribosome modulator	-0.0358	0.3865
JW0938	<i>ycbZ</i>	Putative peptidase	-0.0231	0.321
JW0939	<i>ycbG</i>	Ter macrodomain or	-0.0269	0.1743
JW0940	<i>ompA</i>	Outer membrane pro	-0.0042	0.9403
JW0944	<i>yccF</i>	DUF307 family inner	0.0243	0.4447
JW0945	<i>helD</i>	DNA helicase IV	0.0147	0.7413
JW0947	<i>yccT</i>	UPF0319 family pro	0.0165	0.6353
JW0952	<i>yccK</i>	Mnm(5)-s(2)U34-tr	-0.022	0.5169
JW0953	<i>yccA</i>	Modulator of ftsh p	0.052	0.1309
JW0954	<i>hyaA</i>	Hydrogenase 1, sma	-0.0267	0.4669
JW0955	<i>hyaB</i>	Hydrogenase 1, large	-0.018	0.5548
JW0956	<i>hyaC</i>	Hydrogenase 1, b-ty	0.1174	0.0466
JW0957	<i>hyaD</i>	Hydrogenase 1 matu	0.0189	0.688
JW0958	<i>hyaE</i>	Putative hyaa chape	0.0561	0.2015
JW0960	<i>appC</i>	Cytochrome bd-II ox	0.0467	0.1665
JW0961	<i>appB</i>	Cytochrome bd-II ox	-0.0204	0.5795
JW0963	<i>appA</i>	Phosphoanhydride j	0.0246	0.4752
JW0964	<i>yccC</i>	Tyrosine-protein kin	0.0085	0.7371
JW0966	<i>yccZ</i>	Putative O-antigen c	0.0327	0.4699
JW0967	<i>ymcA</i>	Putative O-antigen c	-0.0219	0.569
JW0968	<i>ymcB</i>	Putative O-antigen c	-0.0536	0.1227
JW0969	<i>ymcC</i>	O-antigen capsule pi	-0.1005	0.0136
JW0974	<i>cspG</i>	Cold shock protein I	-0.0301	0.5372
JW0975	<i>ymcE</i>	Cold shock gene	-0.0096	0.8698
JW0976	<i>gnsA</i>	Putative phosphatid	0.0219	0.2765
JW0977	<i>yccM</i>	Putative 4Fe-4S men	0.0595	0.0191
JW0979	<i>torT</i>	Periplasmic protein I	-0.0058	0.8843
JW0980	<i>torR</i>	Response regulator I	-0.0543	0.1217
JW0981	<i>torC</i>	Trimethylamine N-o>	0.2593	0.0025
JW0982	<i>torA</i>	Trimethylamine N-o>	0.003	0.9118
JW0983	<i>torD</i>	Tora-maturation cha	0.0273	0.4712
JW0984	<i>cbpM</i>	Chaperone modulat	0.0468	0.1991
JW0986	<i>yccE</i>	PRK09784 family pr	0.1382	0.0005
JW0987	<i>agp</i>	Glucose-1-phospha	-0.024	0.6534
JW0988	<i>yccJ</i>	Uncharacterized pro	0.0449	0.1605
JW0994	<i>rarA</i>	Putative reactive int	0.0161	0.6213
JW0995	<i>ycdK</i>	Putative aminoacryl	0.0363	0.2183
JW0997	<i>ycdM</i>	Pyrimidine oxygenas	-0.0034	0.9188
JW0998	<i>ycdC</i>	Rut operon transcrip	-0.0607	0.0898
JW0999	<i>putA</i>	Fused DNA-binding	0.0056	0.9214
JW1001	<i>putP</i>	Proline:sodium symj	-0.023	0.5567
JW1002	<i>ycdN</i>	CP4-44 prophage; p	0.0633	0.0696

JW1003	<i>ycdO</i>	Inactive ferrous ion 1	0.0025	0.893
JW1005	<i>phoH</i>	ATP-binding protein	-0.06	0.039
JW1006	<i>ycdP</i>	Biofilm PGA synthas	0.0116	0.5323
JW1007	<i>ycdQ</i>	Biofilm PGA synthas	-0.1451	0.0023
JW1010	<i>ycdS</i>	Biofilm adhesin poly	0.1072	0.0066
JW1015	<i>ycdU</i>	Putative inner memt	-0.042	0.1079
JW1017	<i>ycdX</i>	Alkaline phosphatas	0.0116	0.7615
JW1018	<i>ycdY</i>	Redox enzyme matu	0.062	0.6888
JW1020	<i>csgG</i>	Curli production ass	0.1193	0.0619
JW1021	<i>csgF</i>	Curli nucleation out	0.056	0.0006
JW1022	<i>csgE</i>	Curlin secretion spe	0.007	0.8888
JW1023	<i>csgD</i>	Csgbac operon trans	-0.045	0.5252
JW1024	<i>csgB</i>	Curlin nucleator pro	0.0379	0.3545
JW1026	<i>csgC</i>	Curli assembly prote	-0.0832	0.0919
JW1031	<i>ymdA</i>	Uncharacterized pro	-0.0078	0.8087
JW1032	<i>ymdB</i>	O-acetyl-ADP-ribose	0.1955	0.1643
JW1034	<i>mdoC</i>	OPG biosynthetic tr:	0.0812	0.0023
JW1035	<i>mdoG</i>	OPG biosynthetic pe	0.0764	0.0429
JW1037	<i>mdoH</i>	OPG biosynthetic AC	0.0624	0.0237
JW1039	<i>msyB</i>	Multicopy suppress	-0.0624	0.0872
JW1040	<i>mdtG</i>	Putative drug efflux	0.042	0.0647
JW1041	<i>lpxL</i>	Lauryl-acyl carrier pr	-0.031	0.5969
JW1042	<i>yceA</i>	Putative rhodanese-	-0.0349	0.3689
JW1043	<i>yceI</i>	Periplasmic high ph-	0.0239	0.7737
JW1044	<i>yceJ</i>	Putative cytochrome	0.1338	0.3341
JW1045	<i>yceO</i>	Uncharacterized pro	0.1576	0.0007
JW1048	<i>dinI</i>	DNA damage-inducil	0.1392	0.3094
JW1049	<i>pyrC</i>	Dihydro-otase	0.0446	0.0428
JW1050	<i>yceB</i>	Lipoprotein, DUF14:	0.0333	0.2806
JW1051	<i>grxB</i>	Glutaredoxin 2 (Grx:	-0.0275	0.4561
JW1052	<i>mdtH</i>	Multidrug resistance	0.0954	0.0139
JW1053	<i>rimJ</i>	Ribosomal-protein- ξ	-0.1045	0.0014
JW1054	<i>yceH</i>	UPF0502 family pro	-0.1624	0.0075
JW1055	<i>mviM</i>	Putative oxidoreduc	-0.0498	0.264
JW1057	<i>flgN</i>	Export chaperone fo	0.0589	0.0933
JW1059	<i>flgA</i>	Assembly protein fo	-0.0108	0.7172
JW1060	<i>flgB</i>	Flagellar component	-0.0833	0.0955
JW1061	<i>flgC</i>	Flagellar component	0.0424	0.4548
JW1062	<i>flgD</i>	Flagellar hook assem	0.043	0.1903
JW1063	<i>flgE</i>	Flagellar hook protei	-0.028	0.4663
JW1064	<i>flgF</i>	Flagellar component	-0.0599	0.3005
JW1067	<i>flgI</i>	Putative flagellar bas	0.016	0.708
JW1068	<i>flgJ</i>	Bifunctional flagellar	-0.04	0.1543
JW1069	<i>flgK</i>	Flagellar hook-filame	0.044	0.2118
JW1070	<i>flgL</i>	Flagellar hook-filame	0.0343	0.3256

JW1072	<i>rluC</i>	23S rna pseudouric	0.0297	0.5075
JW1075	<i>rpmF</i>	50S ribosomal subu	-0.0817	0.0552
JW1077	<i>fabH</i>	3-oxoacyl-[acyl-carri	0.0433	0.3873
JW1081	<i>fabF</i>	3-oxoacyl-[acyl-carri	-0.0596	0.1208
JW1082	<i>pabC</i>	4-amino-4-deoxychi	-0.258	0.0003
JW1083	<i>yceG</i>	Septation protein, ar	0.0243	0.3849
JW1086	<i>ycfH</i>	Putative dnase	0.0255	0.4382
JW1087	<i>ptsG</i>	Fused glucose-speci	0.0348	0.5871
JW1089	<i>hinT</i>	Purine nucleoside pl	0.0267	0.3218
JW1090	<i>ycfL</i>	Uncharacterized pro	0.0111	0.6085
JW1092	<i>ycfN</i>	Thiamine kinase	-0.029	0.445
JW1093	<i>nagZ</i>	Beta N-acetyl-glucos	-0.0376	0.492
JW1095	<i>ndh</i>	Respiratory NADH d	-0.0117	0.6204
JW1096	<i>ycfJ</i>	Uncharacterized pro	-0.0056	0.8771
JW1098	<i>ycfR</i>	Biofilm, cell surface :	0.0633	0.0253
JW1100	<i>mfd</i>	Transcription-repair	0.126	0.3375
JW1101	<i>ycfT</i>	Inner membrane pro	-0.0694	0.0723
JW1105	<i>ycfX</i>	N-acetyl-D-glucosan	0.0724	0.0054
JW1106	<i>cobB</i>	Deacetylase of acs ai	-0.0678	0.1934
JW1107	<i>ycfZ</i>	Inner membrane pro	0.0249	0.3718
JW1109	<i>potD</i>	Spermidine/putresci	0.0192	0.6828
JW1110	<i>potC</i>	Spermidine/putresci	0.0339	0.4288
JW1111	<i>potB</i>	Spermidine/putresci	0.0387	0.3627
JW1112	<i>potA</i>	Spermidine/putresci	-0.0471	0.0025
JW1113	<i>pepT</i>	Peptidase T	0.0335	0.2802
JW1114	<i>ycfD</i>	50S ribosomal prote	0.0651	0.2425
JW1115	<i>phoQ</i>	Sensory histidine kir	0.0836	0.0769
JW1116	<i>phoP</i>	Response regulator i	0.0206	0.3042
JW1119	<i>trmU</i>	Trna(Gln,Lys,Glu) Uε	-0.2118	0
JW1120	<i>ymfB</i>	Bifunctional thiamin	-0.0428	0.1319
JW1121	<i>ymfC</i>	23S rna pseudouric	-0.0712	0.0933
JW1122	<i>icd</i>	Isocitrate dehydroge	0.1253	0.0121
JW1123	<i>ymfD</i>	E14 prophage; putat	-0.0113	0.7758
JW1125	<i>lit</i>	T4 phage exclusion ϕ	-0.0301	0.5622
JW1126	<i>intE</i>	E14 prophage; putat	-0.0981	0.0284
JW1127	<i>ymfG</i>	E14 prophage; putat	0.0486	0.0292
JW1128	<i>ymfH</i>	Uncharacterized pro	0.064	0.0259
JW1130	<i>ymfJ</i>	Uncharacterized pro	-0.2599	0
JW1133	<i>ymfL</i>	E14 prophage; putat	0.0274	0.2161
JW1134	<i>ymfM</i>	E14 prophage; unch	-0.0818	0.1192
JW1135	<i>ymfN</i>	Pseudogene, phage i	0.0849	0.1899
JW1136	<i>ymfR</i>	E14 prophage; unch	-0.005	0.7627
JW1137	<i>ymfO</i>	Pseudogene, portal j	-0.0079	0.7487
JW1139	<i>ymfQ</i>	Prohage e14 tail pro	0.0199	0.0784
JW1142	<i>tfaE</i>	E14 prophage; putat	0.0745	0.0093

JW1144	<i>pin</i>	E14 prophage; site-s	0.1127	0.0009
JW1145	<i>mcrA</i>	Putative 5-methylcyl	0.012	0.4671
JW1147	<i>elbA</i>	Rpos stabilizer durin	-0.0699	0.047
JW1148	<i>ycgX</i>	DUF1398 family pro	-0.1008	0.0625
JW1149	<i>ycgE</i>	Repressor of blue lig	-0.0358	0.1806
JW1150	<i>ycgF</i>	Anti-repressor for yc	-0.014	0.7299
JW1151	<i>ycgZ</i>	Rcsb connector proi	-0.0458	0.3618
JW1152	<i>ymgA</i>	Rcsb connector proi	0.0133	0.7015
JW1153	<i>ymgB</i>	Rcsb connector proi	0.037	0.4051
JW1154	<i>ymgC</i>	Blue light, low tempe	-0.0713	0.014
JW1156	<i>ymgF</i>	Inner membrane divi	0.0685	0.0545
JW1162	<i>ycgI</i>	CP4-44 prophage; p	-0.001	0.2181
JW1166	<i>ycgJ</i>	Uncharacterized pro	0.021	0.2
JW1167	<i>ycgK</i>	Periplasmic inhibitor	0.0095	0.7645
JW1168	<i>ycgL</i>	UPF0745 family pro	0.0237	0.6364
JW1169	<i>ycgM</i>	Putative isomerase/t	0.064	0.0868
JW1173	<i>umuC</i>	Translesion error-pri	-0.0328	0.5277
JW1175	<i>nhaB</i>	Sodium:proton antiç	0.0738	0.0547
JW1176	<i>fadR</i>	Fatty acid metabolisı	-0.0235	0.5775
JW1177	<i>ycgB</i>	Spovr family stationi	-0.037	0.17
JW1178	<i>dadA</i>	D-amino acid dehyd	-0.0056	0.8853
JW1179	<i>dadX</i>	Alanine racemase, ca	-0.028	0.4012
JW1181	<i>ldcA</i>	Murein tetrapeptide	0.1598	0
JW1183	<i>ycgR</i>	Flagellar velocity bral	-0.0361	0.3438
JW1184	<i>ymgE</i>	UPF0410 family put	0.0439	0.0311
JW1185	<i>ycgY</i>	Uncharacterized pro	0.0715	0.001
JW1186	<i>treA</i>	Periplasmic trehalası	-0.0091	0.8519
JW1194	<i>ychF</i>	Catalase inhibitor pr	-0.0307	0.1819
JW1196	<i>ychH</i>	DUF2583 family put	-0.0613	0.2009
JW1204	<i>ychQ</i>	SIRB family inner me	-0.0391	0.1718
JW1205	<i>ychA</i>	Transglutaminase-lik	0.0233	0.6063
JW1207	<i>chaA</i>	Calcium/sodium:pro	0.0458	0.31
JW1208	<i>chaB</i>	Cation transport reg	0.0238	0.4896
JW1209	<i>chaC</i>	Cation transport reg	0.0652	0.0219
JW1210	<i>ychN</i>	Uncharacterized pro	0.0274	0.2544
JW1211	<i>ychP</i>	Putative invasin	0.0014	0.9757
JW1212	<i>narL</i>	Response regulator i	-0.0845	0.1688
JW1213	<i>narX</i>	Sensory histidine kir	-0.0363	0.2948
JW1214	<i>narK</i>	Nitrate/nitrite transç	-0.0285	0.4847
JW1215	<i>narG</i>	Nitrate reductase 1,	-0.0763	0.0021
JW1216	<i>narH</i>	Nitrate reductase 1,	-0.0108	0.7194
JW1217	<i>narJ</i>	Molybdenum-cofact	0.1171	0.0166
JW1218	<i>narI</i>	Nitrate reductase 1,	0.0279	0.585
JW1219	<i>tpr</i>	Protamine-like prote	0.0506	0.1003
JW1220	<i>purU</i>	Formyltetrahydrofol	0.1159	0.1572

JW1221	<i>yehJ</i>	UPF0225 family pro	0.0441	0.2793
JW1223	<i>rssB</i>	Pcnb-degradosome	0.1519	0.0016
JW1224	<i>galU</i>	UTP--glucose-1-pho	0.1258	0.0088
JW1225	<i>hns</i>	Global DNA-binding	-0.1748	0.0086
JW1226	<i>tdk</i>	Thymidine kinase/de	-0.0347	0.3113
JW1228	<i>adhE</i>	Fused acetaldehyde-	0.0242	0.6568
JW1229	<i>yehE</i>	UPF0056 family inn	0.0226	0.471
JW1235	<i>oppA</i>	Oligopeptide ABC tra	0.0502	0.2626
JW1237	<i>oppC</i>	Oligopeptide ABC tra	-0.0496	0.0243
JW1238	<i>oppD</i>	Oligopeptide ABC tra	-0.0429	0.0307
JW1239	<i>oppF</i>	Oligopeptide ABC tra	0.0725	0.1608
JW1240	<i>yehU</i>	UPF0263 family pro	-0.0547	0.0563
JW1241	<i>cls</i>	Cardiolipin synthase	-0.1707	0.0007
JW1242	<i>kch</i>	Voltage-gated potas:	0.0148	0.5672
JW1243	<i>yehI</i>	Putative DGPF doma	-0.0081	0.7564
JW1245	<i>yehA</i>	Acyl-coa esterase	0.0046	0.9199
JW1246	<i>yehB</i>	Ispsa family inner mei	-0.0914	0.0239
JW1247	<i>yehC</i>	UPF0259 family inn	-0.0645	0.0125
JW1248	<i>ompW</i>	Outer membrane pro	0.0388	0.4573
JW1249	<i>yehE</i>	Putative rubrerythrin	0.0152	0.6064
JW1250	<i>yehF</i>	Putative rubrerythrin	0.0625	0.0081
JW1251	<i>yehG</i>	KGG family protein	-0.0374	0.4283
JW1252	<i>trpA</i>	Tryptophan synthas	0.2241	0.0528
JW1253	<i>trpB</i>	Tryptophan synthas	0.6111	0.002
JW1254	<i>trpC</i>	Indole-3-glycerolpho	0.0531	0.2637
JW1255	<i>trpD</i>	Fused glutamine ami	0.2732	0.0068
JW1256	<i>trpE</i>	Component I of antf	0.2306	0.0784
JW1257	<i>trpL</i>	Trp operon leader pe	0.0124	0.7462
JW1258	<i>yehV</i>	PHP domain protein	0.0201	0.6064
JW1261	<i>rluB</i>	23S rna pseudouric	0.0425	0.3474
JW1262	<i>btuR</i>	Cob(I)yrinic acid a,c-	0.015	0.7962
JW1263	<i>yehK</i>	Putative emrky-tolc :	-0.0899	0.0001
JW1264	<i>sohB</i>	Inner membrane pro	0.0156	0.6067
JW1265	<i>yehN</i>	DUF2498 protein yc	-0.0302	0.4552
JW1267	<i>cysB</i>	N-acetylserine-respc	0.0012	0.9719
JW1268	<i>acnA</i>	Aconitate hydratase	-0.1841	0.0103
JW1270	<i>pgpB</i>	Phosphatidylglycero	0.04	0.4757
JW1271	<i>yehS</i>	DUF1049 family inn	-0.0688	0.0165
JW1272	<i>yehM</i>	LPS regulatory prote	-0.217	0.0164
JW1273	<i>pyrF</i>	Orotidine-5'-phospl	0.0562	0.0057
JW1274	<i>yehH</i>	Initiation factor func	0.2349	0.0621
JW1275	<i>osmB</i>	Osmotically and stre	0.0742	0.0902
JW1276	<i>yehT</i>	Global regulator of t	0.1154	0.0001
JW1278	<i>gmr</i>	Cyclic-di-GMP phos	-0.021	0.648
JW1279	<i>rnb</i>	Ribonuclease II	0.0196	0.4592

JW1282	<i>ycjD</i>	DUF559 family endc	-0.0557	0.07
JW1283	<i>sapF</i>	Antimicrobial peptid	-0.0056	0.8323
JW1284	<i>sapD</i>	Antimicrobial peptid	0.069	0.1776
JW1285	<i>sapC</i>	Antimicrobial peptid	-0.0187	0.4939
JW1286	<i>sapB</i>	Antimicrobial peptid	-0.0478	0.1034
JW1287	<i>sapA</i>	Antimicrobial peptid	0.0314	0.2113
JW1288	<i>ymjA</i>	DUF2543 family pro	0.0596	0.0209
JW1289	<i>puuP</i>	Putrescine importer	-0.072	0.0049
JW1291	<i>puuD</i>	Gamma-glutamyl-gai	-0.0966	0.1445
JW1292	<i>puuR</i>	Repressor for the di	0.0098	0.8523
JW1293	<i>puuC</i>	Gamma-glutamyl-gai	-0.0217	0.2609
JW1294	<i>puuB</i>	Gamma-glutamylput	-0.08	0.0358
JW1295	<i>puuE</i>	4-aminobutyrate am	0.1173	0.0902
JW1296	<i>pspF</i>	Psp operon transcrij	0.0332	0.5197
JW1297	<i>pspA</i>	Regulatory protein fi	-0.1999	0.135
JW1298	<i>pspB</i>	Psp operon transcrij	-0.1342	0.0002
JW1299	<i>pspC</i>	Psp operon transcrij	0.0202	0.5291
JW1300	<i>pspD</i>	Peripheral inner mer	-0.0056	0.8705
JW1301	<i>pspE</i>	Thiosulfate:cyanide :	-0.0172	0.705
JW1302	<i>ycjM</i>	Alpha amylase cataly	0.0532	0.1754
JW1303	<i>ycjN</i>	Putative ABC sugar t	0.0096	0.6466
JW1304	<i>ycjO</i>	Putative sugar ABC t	-0.0013	0.9673
JW1305	<i>ycjP</i>	Putative sugar ABC t	0.0633	0.0427
JW1306	<i>ycjQ</i>	Putative Zn-depende	-0.0048	0.8781
JW1308	<i>ycjS</i>	Putative NADH-bind	-0.0741	0.0071
JW1309	<i>ycjT</i>	Putative family 65 gl	-0.0587	0.0839
JW1310	<i>ycjU</i>	Beta-phosphoglucoi	0.1125	0.0229
JW1311	<i>ycjV</i>	CP4-44 prophage; p	-0.0453	0.0355
JW1312	<i>ompG</i>	Outer membrane po	0.0877	0.0557
JW1313	<i>ycjW</i>	Laci family putative t	0.0185	0.4799
JW1314	<i>ycjX</i>	DUF463 family prot	-0.0005	0.9913
JW1315	<i>ycjF</i>	UPF0283 family inn	-0.0056	0.8849
JW1316	<i>tyrR</i>	Aromatic amino acid	0.06	0.0352
JW1317	<i>tpx</i>	Lipid hydroperoxide	-0.0381	0.3479
JW1318	<i>ycjG</i>	L-Ala-D/L-Glu epime	-0.0163	0.9003
JW1319	<i>mpaA</i>	Murein peptide amic	-0.1516	0.0005
JW1321	<i>ycjZ</i>	Murein peptide degr	-0.0352	0.4322
JW1322	<i>mppA</i>	Murein tripeptide (L	-0.0535	0.0264
JW1323	<i>ynal</i>	Low conductance m	-0.0145	0.7326
JW1326	<i>ynaJ</i>	DUF2534 family put	-0.0259	0.2807
JW1327	<i>uspE</i>	Stress-induced prot	-0.1056	0.0032
JW1328	<i>fnr</i>	Oxygen-sensing ana	0.1423	0.0143
JW1329	<i>ogt</i>	O-6-alkylguanine-DM	-0.0351	0.3261
JW1331	<i>abgB</i>	P-aminobenzoyl-glu	0.0942	0.0723
JW1333	<i>abgR</i>	Putative DNA-bindir	-0.11	0.0581

JW1334	<i>ydaL</i>	DNA endonuclease	-0.0759	0.2982
JW1336	<i>ydaN</i>	Putative Zn(II) transf	0.0084	0.8283
JW1337	<i>dbpA</i>	ATP-dependent RNA	0.0349	0.316
JW1338	<i>ydaO</i>	Trna s(2)C32 thioltr	-0.0366	0.3909
JW1339	<i>intR</i>	Rac prophage; integr	-0.2696	0.0004
JW1341	<i>ydaC</i>	DUF1187 family pro	-0.0112	0.7825
JW1343	<i>recT</i>	Rac prophage; recon	0.0029	0.9581
JW1344	<i>recE</i>	Rac prophage; exon	-0.0146	0.639
JW1345	<i>racC</i>	Rac prophage; unch	-0.0119	0.5398
JW1346	<i>ydaE</i>	Conserved protein, f	0.032	0.1448
JW1347	<i>kil</i>	Killing protein, Rac p	0.0385	0.2431
JW1349	<i>ydaF</i>	Uncharacterized pro	-0.0057	0.8759
JW1352	<i>ydaS</i>	Rac prophage; putat	0.0112	0.7545
JW1353	<i>ydaT</i>	Rac prophage; unch	-0.0285	0.3622
JW1354	<i>ydaU</i>	Rac prophage; conse	0.0047	0.9208
JW1355	<i>ydaV</i>	Rac prophage; putat	-0.0261	0.5896
JW1358	<i>trkG</i>	Rac prophage; potas	0.0084	0.7672
JW1359	<i>ynaK</i>	Rac prophage; conse	-0.0011	0.9757
JW1360	<i>ydaY</i>	Uncharacterized pro	0.0403	0.4029
JW1361	<i>ynaA</i>	Rac prophage; pseuc	0.0953	0.1813
JW1366	<i>stfR</i>	Rac prophage; putat	-0.0512	0.2429
JW1367	<i>tfaR</i>	Rac prophage; putat	-0.0101	0.7984
JW1368	<i>pinR</i>	Rac prophage; putat	0.03	0.3706
JW1369	<i>ynaE</i>	Cold shock protein,	-0.0391	0.2355
JW1370	<i>uspF</i>	Stress-induced prot	-0.0148	0.5473
JW1371	<i>ompN</i>	Outer membrane po	-0.1022	0.0119
JW1372	<i>ydbK</i>	Pyruvate-flavodoxin	0.0284	0.5607
JW1374	<i>hslJ</i>	Heat-inducible lipop	-0.0511	0.1451
JW1375	<i>ldhA</i>	Fermentative D-lacta	0.0323	0.4492
JW1376	<i>ydbH</i>	Putative membrane-	-0.0099	0.7726
JW1377	<i>ynbE</i>	Lipoprotein	0.0583	0.0277
JW1379	<i>feaR</i>	Transcriptional activ	-0.0731	0.1138
JW1380	<i>feaB</i>	Phenylacetaldehyde	-0.0011	0.9717
JW1381	<i>tynA</i>	Tyramine oxidase, cc	-0.0294	0.4442
JW1382	<i>maoC</i>	Oxepin-coa hydrolas	-0.0049	0.9222
JW1385	<i>paaC</i>	Ring 1,2-phenylacet	0.0614	0.3654
JW1387	<i>paaE</i>	Ring 1,2-phenylacet	0.037	0.3962
JW1388	<i>paaF</i>	2,3-dehydroadipyl-c	0.0554	0.1882
JW1389	<i>paaG</i>	1,2-epoxyphenylace	-0.0531	0.0252
JW1390	<i>paaH</i>	3-hydroxyadipyl-coa	-0.0679	0.0289
JW1392	<i>paaJ</i>	3-oxoadipyl-coa/3-c	-0.0315	0.4184
JW1394	<i>paaX</i>	Transcriptional repre	0.0515	0.3691
JW1395	<i>paaY</i>	Thioesterase require	-0.0173	0.5388
JW1402	<i>ydbA</i>	CP4-44 prophage; p	0.0002	0.9937
JW1403	<i>ydbC</i>	Pyridoxine 4-dehydr	0.031	0.3878

JW1405	<i>ynbA</i>	Inner membrane pro	0.011	0.6868
JW1406	<i>ynbB</i>	Putative CDP-diglyce	-0.0033	0.9247
JW1407	<i>ynbC</i>	Putative esterase	0.0362	0.2652
JW1408	<i>ynbD</i>	Putative phosphatas	-0.0809	0.0811
JW1409	<i>azoR</i>	NADH-azoreductase	0.0198	0.5474
JW1411	<i>ydcF</i>	DUF218 superfamily	0.0422	0.171
JW1412	<i>aldA</i>	Aldehyde dehydroge	0.025	0.396
JW1413	<i>gapC</i>	CP4-44 prophage; p	-0.0205	0.5373
JW1416	<i>ydcA</i>	Putative periplasmic	0.0557	0.2708
JW1419	<i>ydcJ</i>	Putative metalloenz)	-0.011	0.7416
JW1420	<i>mdoD</i>	OPG biosynthetic pe	0.0851	0.0711
JW1423	<i>rimL</i>	Ribosomal-protein-l	-0.0426	0.1302
JW1424	<i>ydcK</i>	Uncharacterized pro	-0.1063	0.019
JW1425	<i>tehA</i>	Potassium-tellurite €	0.0027	0.9417
JW1426	<i>tehB</i>	Tellurite, selenium m	0.0151	0.2225
JW1427	<i>ydcL</i>	Lipoprotein	-0.0835	0.0274
JW1430	<i>ydcN</i>	Putative DNA-bindir	0.0321	0.3128
JW1431	<i>ydcP</i>	Putative peptidase	-0.0217	0.5795
JW1432	<i>yncJ</i>	Uncharacterized pro	0.0697	0.008
JW1433	<i>ydcQ</i>	Antitoxin for the hic	0.0293	0.4044
JW1434	<i>ydcR</i>	Putative DNA-bindir	0.0282	0.3238
JW1436	<i>ydcT</i>	Putative ABC transp	-0.0125	0.7765
JW1437	<i>ydcU</i>	Putative ABC transp	0.0664	0.041
JW1438	<i>ydcV</i>	Putative ABC transp	0.0113	0.4866
JW1439	<i>ydcW</i>	Gamma-aminobuty	0.0547	0.3007
JW1441	<i>ydcY</i>	DUF2526 family pro	0.014	0.6414
JW1442	<i>ydcZ</i>	DUF606 family inner	-0.0006	0.9842
JW1445	<i>yncC</i>	Colanic acid and bio	-0.0482	0.0883
JW1446	<i>yncD</i>	Putative iron outer r	-0.0166	0.7234
JW1447	<i>yncE</i>	ATP-binding protein	0.0592	0.0005
JW1449	<i>yncG</i>	Glutathione S-transf	-0.0271	0.5693
JW1451	<i>rhsE</i>	Pseudogene, Rhs far	0.0168	0.6311
JW1452	<i>ydcD</i>	Putative immunity p	-0.0833	0.0017
JW1453	<i>yncI</i>	CP4-44 prophage; p	-0.0009	0.9789
JW1455	<i>ydcC</i>	H repeat-associated	0.0782	0.0111
JW1456	<i>ydcE</i>	4-oxalocrotonate tai	0.0598	0.6922
JW1457	<i>yddH</i>	Flavin reductase like-	-0.0732	0.1401
JW1458	<i>nhoA</i>	N-hydroxyarylamine	0.0125	0.7433
JW1459	<i>yddE</i>	Phzc-phzf family prc	0.0188	0.7041
JW1460	<i>narV</i>	Nitrate reductase 2 (	-0.0052	0.9255
JW1463	<i>narZ</i>	Nitrate reductase 2 (	-0.0794	0.1096
JW1464	<i>narU</i>	Nitrate/nitrite transp	-0.0238	0.4654
JW1466	<i>yddJ</i>	Uncharacterized pro	0.0331	0.5053
JW1467	<i>yddK</i>	Pseudogene, leucine	0.0656	0.16
JW1468	<i>yddL</i>	Putative lipoprotein	0.2727	0.0694

JW1469	<i>yddG</i>	Aromatic amino acid	0.1695	0.204
JW1470	<i>fdnG</i>	Formate dehydroger	-0.0289	0.4305
JW1471	<i>fdnH</i>	Formate dehydroger	0.012	0.7973
JW1472	<i>fdnI</i>	Formate dehydroger	-0.2512	0.0001
JW1474	<i>adhP</i>	Ethanol-active dehy	0.0724	0.0675
JW1478	<i>ddpF</i>	D,D-dipeptide ABC t	-0.1044	0.1098
JW1479	<i>ddpD</i>	D,D-dipeptide ABC t	-0.0077	0.8674
JW1480	<i>ddpC</i>	D,D-dipeptide ABC t	0.0136	0.7085
JW1481	<i>ddpB</i>	D,D-dipeptide ABC t	-0.0683	0.0711
JW1483	<i>ddpX</i>	D-ala-D-ala dipeptid	0.0363	0.318
JW1484	<i>dos</i>	Oxygen sensor, c-di-	0.011	0.6895
JW1486	<i>yddW</i>	Lipoprotein, glycosyl h	0.0486	0.2375
JW1487	<i>gadC</i>	Glutamate:gamma-ai	-0.0232	0.1687
JW1488	<i>gadB</i>	Glutamate decarbox	0.1821	0.0124
JW1489	<i>pqqL</i>	Putative periplasmic	0.0324	0.5333
JW1490	<i>yddB</i>	Putative tonb-deper	0.0136	0.6018
JW1492	<i>ydeM</i>	Putative yden-specif	0.0329	0.4601
JW1494	<i>ydeO</i>	UV-inducible global	0.03	0.4783
JW1495	<i>ydeP</i>	Putative oxidoreduc	0.0135	0.6889
JW1496	<i>ydeQ</i>	Putative fimbrial-like	0.0266	0.4031
JW1497	<i>ydeR</i>	Putative fimbrial-like	-0.0543	0.0243
JW1498	<i>ydeS</i>	Putative fimbrial-like	0.0352	0.2792
JW1499	<i>ydeT</i>	Pseudogene	-0.0245	0.5725
JW1500	<i>hipA</i>	Inactivating gltx kina	0.0854	0.0542
JW1501	<i>hipB</i>	Antitoxin of hipab tc	-0.0184	0.6414
JW1502	<i>ydeU</i>	Uncharacterized pro	-0.0369	0.4874
JW1503	<i>ydeK</i>	Pseudogene, aida hc	-0.0143	0.6628
JW1504	<i>ydeV</i>	Autoinducer-2 (AI-2	0.1096	0.008
JW1505	<i>ydeW</i>	Lsr operon transcrip	-0.0399	0.1711
JW1506	<i>ego</i>	Autoinducer 2 impo	-0.0784	0.0321
JW1507	<i>lsrC</i>	Autoinducer 2 impo	0.0613	0.1015
JW1508	<i>lsrD</i>	Autoinducer 2 impo	0.042	0.4826
JW1509	<i>lsrB</i>	Autoinducer 2-bindi	0.0577	0.1275
JW1510	<i>lsrF</i>	Putative autoinduce	0.0826	0.0694
JW1511	<i>lsrG</i>	Autoinducer-2 (AI-2	-0.0846	0.0617
JW1512	<i>tam</i>	Trans-aconitate metl	-0.0907	0.0402
JW1514	<i>uxaB</i>	Altronate oxidoredu	0.0135	0.6875
JW1516	<i>yneG</i>	DUF4186 family pro	0.1255	0.3303
JW1517	<i>yneH</i>	Glutaminase 2	0.0633	0.1038
JW1519	<i>yneI</i>	Putative DNA-bindir	-0.0103	0.8398
JW1520	<i>yneK</i>	Uncharacterized pro	-0.0374	0.5094
JW1521	<i>ydeA</i>	Arabinose efflux trar	-0.003	0.9113
JW1522	<i>marC</i>	UPF0056 family inn	-0.0529	0.0996
JW1525	<i>marB</i>	Periplasmic mar ope	-0.0451	0.3165
JW1527	<i>ydeE</i>	Putative transporter	0.0585	0.0461

JW1528	<i>ydeH</i>	Diguanylate cyclase,	0.0288	0.2718
JW1529	<i>ydeI</i>	Hydrogen peroxide r	-0.0285	0.2972
JW1530	<i>ydeJ</i>	Inactive pncc family	0.0884	0.0005
JW1531	<i>dcp</i>	Dipeptidyl carboxyp	0.0214	0.5346
JW1532	<i>ydfG</i>	NADP-dependent 3-	-0.0039	0.9347
JW1533	<i>ydfH</i>	Transcriptional repre	-0.0123	0.7938
JW1534	<i>ydfZ</i>	Selenoprotein, funct	-0.0297	0.5193
JW1535	<i>ydfI</i>	Putative NAD-depen	0.0294	0.4184
JW1536	<i>ydfJ</i>	Pseudogene, MFS tr:	0.0173	0.5369
JW1537	<i>ydfK</i>	Cold shock protein,	0.1202	0.0168
JW1538	<i>pinQ</i>	Qin prophage; putat	-0.0355	0.517
JW1539	<i>tfaQ</i>	Qin prophage; putat	-0.0237	0.7199
JW1540	<i>stfQ</i>	Qin prophage; putat	-0.043	0.0225
JW1541	<i>nohA</i>	Pseudogene, Qin prc	-0.0237	0.6479
JW1545	<i>ydfP</i>	Qin prophage; Rz-lik	-0.0237	0.8452
JW1546	<i>ydfQ</i>	Qin prophage; putat	0.0029	0.8618
JW1547	<i>ydfR</i>	Qin prophage; DUF1	-0.0036	0.9384
JW1549	<i>cspB</i>	Qin prophage; cold s	-0.0019	0.9508
JW1550	<i>cspF</i>	Qin prophage; cold s	-0.1603	0.2667
JW1551	<i>ydfT</i>	Qin prophage; putat	0.0147	0.6673
JW1553	<i>rem</i>	Qin prophage; unch:	0.0285	0.5443
JW1554	<i>hokD</i>	Qin prophage; small	0.1041	0
JW1555	<i>relE</i>	Qin prophage; toxin	0.0713	0.0198
JW1556	<i>relB</i>	Antitoxin of the rele-	0.0365	0.2847
JW1557	<i>ydfV</i>	Qin prophage; unch:	-0.0314	0.0765
JW1558	<i>flxA</i>	Qin prophage; unch:	0.0512	0.0748
JW1559	<i>ydfW</i>	Pseudogene, integra	0.01	0.8163
JW1560	<i>ydfX</i>	Pseudogene, Qin prc	0.0852	0.0086
JW1563	<i>ydfA</i>	Qin prophage; DUF1	-0.015	0.5992
JW1565	<i>ydfC</i>	Qin prophage; unch:	-0.0024	0.9254
JW1567	<i>ydfD</i>	Qin prophage; DUF1	0.0316	0.3731
JW1568	<i>ydfE</i>	Qin prophage; pseuc	0.0524	0.1204
JW1571	<i>intQ</i>	Pseudogene, Qin prc	0.0415	0.4203
JW1572	<i>rspB</i>	Putative Zn-depende	0.0583	0.0474
JW1573	<i>rspA</i>	Bifunctional D-altroi	-0.0004	0.9924
JW1574	<i>ynfA</i>	UPF0060 family inn	0.1294	0.0344
JW1575	<i>ynfB</i>	UPF0482 family put	-0.0525	0.4251
JW1576	<i>speG</i>	Spermidine N(1)-ace	0.2012	0.0085
JW1581	<i>ynfG</i>	Oxidoreductase, Fe-!	0.041	0.295
JW1586	<i>dgsA</i>	Glucosamine anaero	0.0009	0.0271
JW1587	<i>ynfL</i>	Lysr family putative i	0.0102	0.8536
JW1588	<i>ynfM</i>	Putative arabinose e	-0.0185	0.6708
JW1590	<i>ydgD</i>	Putative peptidase	-0.0015	0.9618
JW1591	<i>mdtI</i>	Multidrug efflux sys	-0.0246	0.2225
JW1592	<i>mdtJ</i>	Multidrug efflux sys	-0.093	0.0048

JW1593	<i>ydgG</i>	Pheromone AI-2 trar	0.0967	0.1715
JW1594	<i>pntB</i>	Pyridine nucleotide i	0.0487	0.3965
JW1595	<i>pntA</i>	Pyridine nucleotide i	0.1253	0.0633
JW1596	<i>ydgH</i>	DUF1471 family per	0.051	0.0078
JW1597	<i>ydgl</i>	Putative arginine/orr	-0.0242	0.4821
JW1598	<i>folM</i>	Dihydromonapterin	0.0337	0.6581
JW1599	<i>ydgC</i>	Glpm family inner m	-0.0237	0.492
JW1600	<i>rstA</i>	Response regulator i	0.0336	0.4491
JW1601	<i>rstB</i>	Sensory histidine kir	-0.01	0.8834
JW1602	<i>tus</i>	Inhibitor of replicati	0.0458	0.4309
JW1603	<i>fumC</i>	Fumarate hydratase	-0.1626	0.0185
JW1604	<i>fumA</i>	Fumarate hydratase	0.0781	0.0434
JW1606	<i>ydgA</i>	DUF945 family proti	0.0305	0.2488
JW1607	<i>uidC</i>	Putative outer memt	0.0265	0.4313
JW1608	<i>uidB</i>	Glucuronide transpc	-0.107	0.0013
JW1609	<i>uidA</i>	Beta-D-glucuronidas	-0.0778	0.1656
JW1610	<i>uidR</i>	Transcriptional repre	-0.0149	0.6095
JW1611	<i>hdhA</i>	7-alpha-hydroxyster	-0.0661	0.1613
JW1612	<i>mall</i>	Transcriptional repre	0.0351	0.4235
JW1613	<i>malX</i>	Maltose and glucos€	-0.0081	0.8252
JW1614	<i>malY</i>	PLP-dependent beta	0.0143	0.7829
JW1615	<i>add</i>	Adenosine deaminas	0.0925	0.0046
JW1617	<i>ydgT</i>	Nucleoid-associated	0.0341	0.1752
JW1618	<i>ydgK</i>	Inner membrane pro	-0.0302	0.3271
JW1619	<i>rsxA</i>	Soxr iron-sulfur clus	-0.1181	0.0006
JW1620	<i>rsxB</i>	Soxr iron-sulfur clus	-0.0057	0.8759
JW1621	<i>rsxC</i>	Soxr iron-sulfur clus	0.0218	0.4098
JW1622	<i>rsxD</i>	Soxr iron-sulfur clus	-0.052	0.0856
JW1623	<i>rsxG</i>	Soxr iron-sulfur clus	-0.1489	0.0011
JW1624	<i>rsxE</i>	Soxr iron-sulfur clus	0.0695	0.0151
JW1625	<i>nth</i>	DNA glycosylase anc	0.0778	0.04
JW1626	<i>ydgR</i>	Dipeptide and tripep	-0.0309	0.3721
JW1627	<i>gst</i>	Glutathionine S-tran	-0.0418	0.2068
JW1628	<i>pdxY</i>	Pyridoxamine kinase	0.0178	0.3505
JW1630	<i>pdxH</i>	Pyridoxine 5'-phosp	-0.0397	0.0613
JW1631	<i>ydhA</i>	Inhibitor of c-type ly	0.0757	0.0067
JW1632	<i>ydhH</i>	Anhydro-N-acetylm	-0.058	0.266
JW1635	<i>ydhI</i>	DUF1656 family put	0.1084	0.0017
JW1636	<i>ydhJ</i>	Putative membrane i	-0.0274	0.3299
JW1637	<i>ydhK</i>	Putative efflux prote	-0.0414	0.2313
JW1638	<i>sodC</i>	Superoxide dismuta:	-0.1655	0.0181
JW1639	<i>ydhF</i>	Putative oxidoreduc	-0.0032	0.8743
JW1642	<i>nemA</i>	Chromate reductase	0.0461	0.0165
JW1643	<i>gloA</i>	Glyoxalase I, Ni-depe	-0.0256	0.4461
JW1644	<i>rnt</i>	Rnase T; exoribonuc	-0.3221	0

JW1645	<i>lhr</i>	Putative ATP-depend	-0.0167	0.711
JW1646	<i>ydhD</i>	Glutaredoxin-4	-0.2656	0.0001
JW1648	<i>sodB</i>	Superoxide dismuta	0.0569	0.4067
JW1649	<i>ydhP</i>	Putative MFS transp	0.1055	0.0083
JW1650	<i>purR</i>	Transcriptional repr	0.1169	0.0283
JW1651	<i>ydhB</i>	Lysr family putative	0.0131	0.7844
JW1652	<i>ydhC</i>	Putative arabinose e	0.0202	0.767
JW1653	<i>cfa</i>	Cyclopropane fatty a	-0.0208	0.4369
JW1655	<i>mdtK</i>	Multidrug efflux sys	-0.005	0.8553
JW1656	<i>ydhQ</i>	Autotransporter adf	0.0797	0.088
JW1657	<i>ydhR</i>	Putative monooxyge	-0.1842	0.0016
JW1658	<i>ydhS</i>	Uncharacterized pro	0.0272	0.3298
JW1659	<i>ydhT</i>	FNR, Nar, narp-regul	0.0117	0.6389
JW1662	<i>ydhW</i>	FNR, Nar, narp-regul	0.0235	0.62
JW1664	<i>ydhY</i>	Putative 4Fe-4S ferri	0.0404	0.2439
JW1665	<i>ydhZ</i>	Fumarase D	-0.0258	0.5199
JW1666	<i>pykF</i>	Pyruvate kinase I	0.1693	0.0035
JW1667	<i>lpp</i>	Murein lipoprotein	-0.0109	0.6795
JW1668	<i>ynhG</i>	Murein L,D-transpe	0.0576	0.2273
JW1669	<i>sufE</i>	Sulfur acceptor prot	-0.1495	0.0136
JW1670	<i>sufS</i>	Cysteine desulfurase	-0.1426	0.0087
JW1671	<i>sufD</i>	Component of sufbr	-0.0666	0.102
JW1672	<i>sufC</i>	Sufbcd Fe-S cluster a	-0.078	0.0365
JW1674	<i>sufA</i>	Fe-S cluster assembl	0.0031	0.8984
JW1675	<i>ydiH</i>	Uncharacterized pro	-0.0089	0.8021
JW1676	<i>ydiI</i>	1,4-dihydroxy-2-na	-0.0251	0.5955
JW1677	<i>ydiJ</i>	Putative FAD-linked	-0.0445	0.1759
JW1678	<i>ydiK</i>	UPF0118 family inn	-0.0394	0.3928
JW1680	<i>ydiM</i>	Inner membrane trar	-0.0125	0.7358
JW1682	<i>ydiB</i>	CP4-44 prophage; p	0.0851	0.0477
JW1683	<i>aroD</i>	3-dehydroquinat d	-0.0724	0.0343
JW1686	<i>ydiP</i>	Putative DNA-bindir	0.0235	0.3558
JW1688	<i>ydiR</i>	Putative electron tra	0.1014	0.0346
JW1689	<i>ydiS</i>	Putative oxidoreduc	0.0446	0.234
JW1690	<i>ydiT</i>	Ferredoxin-like prote	-0.1302	0.1236
JW1692	<i>pps</i>	Phosphoenolpyruva	-0.0892	0.0716
JW1693	<i>ydiA</i>	PEP synthase kinase	-0.0125	0.8013
JW1695	<i>ydiE</i>	Hemin uptake protei	-0.0273	0.4701
JW1696	<i>ydiU</i>	UPF0061 family pro	0.1131	0.0503
JW1697	<i>ydiV</i>	Anti-flhd4c2 factor,	0.0525	0.149
JW1699	<i>btuD</i>	Vitamin B12 ABC tra	0.0629	0.0391
JW1700	<i>btuE</i>	Glutathione peroxid	-0.0507	0.2978
JW1701	<i>btuC</i>	Vitamin B12 ABC tra	-0.0391	0.2788
JW1702	<i>ihfA</i>	Integration host fact	-0.0256	0.573
JW1705	<i>pheM</i>	Phenylalanyl-trna sy	0.024	0.5791

JW1707	<i>rpmI</i>	50S ribosomal prote	0.0053	0.8239
JW1710	<i>arpB</i>	CP4-44 prophage; p	-0.0944	0.0165
JW1711	<i>ydiY</i>	Acid-inducible putat	-0.0157	0.5364
JW1713	<i>ydiZ</i>	Uncharacterized pro	0.0542	0.1233
JW1714	<i>yniA</i>	Fructosamine kinase	0.0861	0.0301
JW1715	<i>yniB</i>	Putative inner memt	-0.0018	0.9556
JW1716	<i>yniC</i>	Hexitol phosphatasε	0.0728	0.088
JW1718	<i>ydjN</i>	Putative transporter	-0.0509	0.1327
JW1719	<i>ydjO</i>	Uncharacterized pro	-0.0127	0.7854
JW1721	<i>katE</i>	Catalase HP11, heme i	0.0869	0.0622
JW1722	<i>chbG</i>	Chito-oligosaccharic	0.0152	0.6754
JW1723	<i>chbF</i>	Phospho-chitobiase	0.1122	0.0481
JW1724	<i>chbR</i>	Repressor of chb op	-0.0435	0.4242
JW1725	<i>chbA</i>	N,N'-diacetylchitobi	0.0264	0.3828
JW1726	<i>chbC</i>	N,N'-diacetylchitobi	-0.0801	0.0884
JW1727	<i>chbB</i>	N,N'-diacetylchitobi	0.0196	0.5544
JW1730	<i>ydjQ</i>	Endonuclease of nur	0.0636	0.2695
JW1731	<i>ydjR</i>	Cold- and stress-ind	0.0256	0.4089
JW1732	<i>spy</i>	Periplasmic ATP-indi	-0.0154	0.5393
JW1733	<i>astE</i>	Succinylglutamate di	-0.0507	0.3962
JW1734	<i>astB</i>	Succinylarginine dihy	0.031	0.4681
JW1736	<i>astA</i>	Arginine succinyltrar	0.0313	0.308
JW1737	<i>astC</i>	Succinylornithine tra	-0.0562	0.1087
JW1738	<i>xthA</i>	Exonuclease III	0.0578	0.1686
JW1739	<i>ydjX</i>	TVP38/TMEM64 fan	0.0827	0.0196
JW1741	<i>ydjZ</i>	TVP38/TMEM64 fan	-0.0292	0.2951
JW1742	<i>ynjA</i>	Carboxymuconolact	0.1221	0.009
JW1747	<i>ynjF</i>	CDP-alcohol phosphi	-0.0565	0.3031
JW1748	<i>nudG</i>	CTP pyrophosphohy	-0.0612	0.2189
JW1749	<i>ynjH</i>	DUF1496 family pro	-0.0473	0.047
JW1750	<i>gdhA</i>	Glutamate dehydrog	0.1497	0.0679
JW1752	<i>topB</i>	DNA topoisomerase	-0.0174	0.6203
JW1753	<i>selD</i>	Selenophosphate sy	-0.0018	0.9648
JW1754	<i>ydjA</i>	Putative oxidoreduc	-0.0116	0.7243
JW1755	<i>sppA</i>	Protease IV (signal p	0.0402	0.3145
JW1756	<i>ansA</i>	Cytoplasmic L-aspar	0.0509	0.0772
JW1757	<i>pncA</i>	Nicotinamidase/pyra	-0.0639	0.0754
JW1758	<i>ydjE</i>	Putative MFS sugar t	-0.1059	0.0461
JW1759	<i>ydjF</i>	Putative DNA-bindir	0.1066	0.0157
JW1760	<i>ydjG</i>	Methylglyoxal reduc	-0.0589	0.099
JW1762	<i>ydjI</i>	Putative aldolase	-0.0083	0.7903
JW1763	<i>ydjJ</i>	Putative Zn-dependε	0.0746	0.1494
JW1765	<i>ydjL</i>	Putative Zn-dependε	0.0356	0.2807
JW1766	<i>yeaC</i>	DUF1315 family pro	-0.0006	0.9855
JW1767	<i>yeaA</i>	Methionine sulfoxid	0.053	0.171

JW1769	<i>yeaD</i>	D-hexose-6-phosph	-0.0377	0.4061
JW1770	<i>yeaE</i>	Aldo-keto reductase	0.0252	0.5374
JW1771	<i>mipA</i>	Scaffolding protein f	-0.0194	0.8016
JW1772	<i>yeaG</i>	Protein kinase, endo	-0.0144	0.6906
JW1773	<i>yeaH</i>	UPF0229 family pro	0.049	0.0084
JW1774	<i>yeaI</i>	Inactive diguanylate	0.0816	0.1006
JW1776	<i>yeaK</i>	Aminoacyl-trna editi	0.0137	0.7622
JW1778	<i>yeaL</i>	UPF0756 family put	-0.024	0.1346
JW1779	<i>yeaM</i>	Putative DNA-bindir	-0.0263	0.4888
JW1780	<i>yeaN</i>	Putative MFS transp	-0.0332	0.4319
JW1781	<i>yeaO</i>	DUF488 family proti	0.0149	0.6899
JW1782	<i>yoaF</i>	DUF333 family oute	-0.0039	0.9121
JW1784	<i>yeaQ</i>	UPF0410 family pro	-0.0132	0.6418
JW1786	<i>yeaR</i>	DUF1971 family pro	-0.0255	0.4652
JW1787	<i>yeaS</i>	Leucine efflux protei	-0.062	0.1525
JW1789	<i>yeaU</i>	D-malate oxidase, N,	-0.4181	0.0004
JW1793	<i>rnd</i>	Ribonuclease D	-0.0656	0.1277
JW1794	<i>fadD</i>	Acyl-coa synthetase	0.0058	0.8617
JW1795	<i>yeaY</i>	Slp family lipoproteii	0.0127	0.7361
JW1797	<i>yoaA</i>	Putative ATP-depenc	0.0082	0.8647
JW1800	<i>yoaH</i>	UPF0181 protein yo	0.0093	0.6912
JW1801	<i>pabB</i>	Aminodeoxychorisr	-0.0686	0.0028
JW1802	<i>yeaB</i>	Putative coa pyroph	0.0138	0.5863
JW1803	<i>sdaA</i>	L-serine dehydratas€	-0.0313	0.3834
JW1804	<i>yoaD</i>	Putative membrane-	0.044	0.338
JW1805	<i>yoaE</i>	Putative membrane j	0.0478	0.1018
JW1806	<i>manX</i>	Fused mannose-spe	-0.023	0.4807
JW1807	<i>manY</i>	Mannose-specific er	0.0817	0.0013
JW1808	<i>manZ</i>	Mannose-specific er	-0.0486	0.2751
JW1809	<i>yobD</i>	UPF0266 family inn€	-0.0919	0.0168
JW1811	<i>rrmA</i>	23S rrna m(1)G745	0.1332	0.0001
JW1812	<i>cspC</i>	Stress protein, meml	0.0015	0.0408
JW1813	<i>yobF</i>	DUF2527 family hea	-0.0115	0.8337
JW1814	<i>yebO</i>	Putative inner memt€	0.0142	0.6508
JW1815	<i>yobG</i>	Regulatory peptide f	-0.0605	0.115
JW1816	<i>kdgR</i>	KDG regulon transcr	-0.0317	0.4548
JW1818	<i>htpX</i>	Putative endopeptid	0.0335	0.4153
JW1819	<i>prc</i>	Carboxy-terminal pri	0.0925	0.0359
JW1821	<i>yebR</i>	Free methionine-(R)-	0.0343	0.1492
JW1822	<i>yebS</i>	Inner membrane sut€	-0.0062	0.8625
JW1827	<i>pphA</i>	Serine/threonine-spi	-0.1978	0
JW1828	<i>yebY</i>	DUF2511 family pro	0.0446	0.2308
JW1829	<i>yebZ</i>	Inner membrane pro	0.0091	0.8247
JW1830	<i>yobA</i>	Copc family protein	0.0409	0.1912
JW1831	<i>holE</i>	DNA polymerase III, 1	0.0674	0.0092

JW1832	<i>yobB</i>	C-N hydrolase family	0.0414	0.0913
JW1833	<i>exoX</i>	Exodeoxyribonuclea	-0.0903	0.1903
JW1834	<i>ptrB</i>	Protease II	0.0644	0.2264
JW1835	<i>yebE</i>	DUF533 family inner	0.039	0.216
JW1836	<i>yebF</i>	Extracellular Colicin I	-0.2683	0
JW1837	<i>yebG</i>	DNA damage-inducil	-0.1268	0.0331
JW1838	<i>purT</i>	Phosphoribosylglyci	-0.2156	0.0009
JW1839	<i>eda</i>	KHG/KDPG aldolase	-0.0377	0.503
JW1840	<i>edd</i>	6-phosphogluconat	-0.0214	0.6641
JW1841	<i>zwf</i>	Glucose-6-phospha	-0.0314	0.4993
JW1842	<i>yebK</i>	Putative DNA-bindir	0.0172	0.7604
JW1843	<i>pykA</i>	Pyruvate kinase II	-0.0427	0.2399
JW1847	<i>znuC</i>	Zinc ABC transporter	-0.3609	0.0008
JW1848	<i>znuB</i>	Zinc ABC transporter	-0.0589	0.1908
JW1849	<i>ruvB</i>	ATP-dependent DNA	0.0022	0.9715
JW1850	<i>ruvA</i>	Component of ruvA	-0.0839	0.2911
JW1852	<i>ruvC</i>	Component of ruvA	-0.1836	0.0059
JW1853	<i>yebC</i>	UPF0082 family pro	-0.1362	0.0236
JW1854	<i>nudB</i>	Dihydroneopterin tr	-0.1214	0.0675
JW1857	<i>yecE</i>	UPF0759 family pro	0.0015	0.9691
JW1859	<i>yecO</i>	Carboxy-SAM synth	0.0853	0.2814
JW1860	<i>yecP</i>	Trna U34 carboxyme	0.0562	0.3839
JW1861	<i>torZ</i>	Trimethylamine N-ox	-0.0282	0.3289
JW1862	<i>torY</i>	TMAO reductase III (	-0.0195	0.6679
JW1863	<i>cutC</i>	Putative copper hon	-0.0371	0.098
JW1867	<i>flhE</i>	Proton seal during fl	0.0539	0.1178
JW1868	<i>flhA</i>	Putative flagellar exp	0.0073	0.8689
JW1869	<i>flhB</i>	Flagellin export appa	-0.075	0.0751
JW1870	<i>cheZ</i>	Chemotaxis regulato	-0.0217	0.6429
JW1871	<i>cheY</i>	Chemotaxis regulato	0.0481	0.0099
JW1872	<i>cheB</i>	Fused chemotaxis re	0.1551	0.0361
JW1873	<i>cheR</i>	Chemotaxis regulato	-0.0747	0.1379
JW1875	<i>tar</i>	Methyl-accepting ch	0.0233	0.2533
JW1876	<i>cheW</i>	Purine-binding chen	0.055	0.0575
JW1877	<i>cheA</i>	Fused chemotactic s	0.0481	0.1281
JW1880	<i>flhC</i>	Flagellar class II regul	0.0203	0.3861
JW1881	<i>flhD</i>	Flagellar class II regul	-0.04	0.2642
JW1884	<i>yecG</i>	Universal stress prof	-0.0499	0.363
JW1887	<i>araH</i>	L-arabinose ABC trar	-0.0064	0.8622
JW1888	<i>araG</i>	L-arabinose ABC trar	-0.0032	0.9495
JW1889	<i>araF</i>	L-arabinose ABC trar	0.0281	0.3733
JW1890	<i>yecI</i>	Ferritin B, putative fe	0.0289	0.3868
JW1891	<i>yecJ</i>	DUF2766 family pro	0.0311	0.5885
JW1892	<i>yecR</i>	Lipoprotein, functio	-0.074	0.006
JW1893	<i>ftn</i>	Ferritin iron storage	-0.0008	0.9835

JW1894	<i>yecH</i>	DUF2492 family pro	-0.131	0.0141
JW1895	<i>tyrP</i>	Tyrosine transporter	-0.0044	0.8626
JW1896	<i>yecA</i>	UPF0149 family pro	-0.1144	0.0055
JW1898	<i>uvrC</i>	Excinuclease uvrabc,	0.0296	0.3681
JW1899	<i>uvrY</i>	Response regulator i	0.0573	0.0648
JW1900	<i>yecF</i>	DUF2594 family pro	0.0898	0.0169
JW1901	<i>sdiA</i>	Quorum-sensing tra	0.043	0.3306
JW1902	<i>yecC</i>	Putative ABC transp	0.0052	0.8689
JW1903	<i>yecS</i>	ABC family putative i	0.0358	0.6318
JW1906	<i>fliZ</i>	Rpos antagonist; pu	-0.0554	0.1624
JW1907	<i>fliA</i>	RNA polymerase, sig	-0.0126	0.7819
JW1912	<i>amyA</i>	Cytoplasmic alpha-a	0.0361	0.1818
JW1913	<i>yedD</i>	Lipoprotein	0.0395	0.1096
JW1914	<i>yedE</i>	UPF0394 family sulç	0.058	0.369
JW1915	<i>yedF</i>	Putative tusa family	0.0297	0.438
JW1916	<i>yedK</i>	DUF159 family prot	-0.0666	0.0144
JW1917	<i>yedL</i>	GNAT family putativ	-0.024	0.6986
JW1918	<i>yedN</i>	CP4-44 prophage; p	0.1009	0.0033
JW1920	<i>yedM</i>	Uncharacterized pro	0.0851	0.0009
JW1921	<i>fliE</i>	Flagellar basal-body	0.0785	0.2618
JW1923	<i>fliG</i>	Flagellar motor switc	-0.2349	0.0023
JW1924	<i>fliH</i>	Negative regulator of	-0.0636	0.2452
JW1925	<i>fliI</i>	Flagellum-specific A1	0.1322	0.0001
JW1926	<i>fliJ</i>	Flagellar protein	-0.0734	0.0229
JW1932	<i>fliP</i>	Flagellar biosynthesi	-0.0183	0.6253
JW1934	<i>fliR</i>	Flagellar export pore	-0.1252	0.0157
JW1935	<i>rcaA</i>	Transcriptional regul	0.0001	0.9965
JW1936	<i>dsrB</i>	Uncharacterized pro	-0.0746	0.015
JW1938	<i>yedP</i>	Putative mannosyl-3	-0.1072	0.0043
JW1940	<i>yodC</i>	Uncharacterized pro	-0.0327	0.5073
JW1941	<i>yedI</i>	DUF808 family inner	-0.067	0.2978
JW1942	<i>yedA</i>	Amino acid exporter	-0.0563	0.0988
JW1943	<i>vsr</i>	DNA mismatch endc	0.1165	0.1017
JW1944	<i>dcm</i>	DNA cytosine methy	0.0057	0.8224
JW1945	<i>yedJ</i>	Putative HD superfa	0.0219	0.6468
JW1946	<i>yedR</i>	Inner membrane pro	-0.0046	0.8924
JW1948	<i>yedS</i>	CP4-44 prophage; p	-0.0021	0.9659
JW1949	<i>yedS</i>	CP4-44 prophage; p	-0.0017	0.9554
JW1950	<i>hchA</i>	Glyoxalase III and Hs	0.0609	0.2698
JW1951	<i>yedV</i>	Putative sensory kin	0.0146	0.3008
JW1953	<i>yedX</i>	Hydroxyisourate hyc	0.0605	0.1725
JW1954	<i>yedY</i>	Membrane-anchorei	-0.0658	0.1305
JW1955	<i>yedZ</i>	Inner membrane her	-0.0443	0.3151
JW1956	<i>yodA</i>	Zinc and cadmium b	0.1104	0.001
JW1958	<i>yeel</i>	Anti-repressor for d	-0.0072	0.766

JW1961	<i>yeel</i>	CP4-44 prophage; p	0.0416	0.1946
JW1962	<i>shiA</i>	Shikimate transporte	0.0023	0.9472
JW1963	<i>amn</i>	AMP nucleosidase	-0.0812	0.0083
JW1964	<i>yeaN</i>	UPF0082 family pro	0.0032	0.8716
JW1965	<i>yeoO</i>	Putative multdrug e	0.0349	0.4064
JW1966	<i>cbl</i>	Ssueadcb/tauabcd o	-0.0182	0.7097
JW1967	<i>nac</i>	Nitrogen assimilatio	-0.007	0.8794
JW1968	<i>erfK</i>	L,D-transpeptidase l	-0.0886	0.0373
JW1969	<i>cobT</i>	Nicotinate-nucleotic	0.0476	0.1931
JW1970	<i>cobS</i>	Cobalamin synthase	-0.0151	0.6815
JW1971	<i>cobU</i>	Cobinamide kinase a	-0.0139	0.6458
JW1980	<i>yoeE</i>	Uncharacterized pro	-0.0558	0.1724
JW1982	<i>flu</i>	CP4-44 prophage; ai	0.0024	0.9567
JW1983	<i>yeer</i>	CP4-44 prophage; p	-0.0664	0.1041
JW1984	<i>yees</i>	CP4-44 prophage; p	-0.0012	0.9691
JW1985	<i>yeet</i>	CP4-44 prophage; u	-0.0592	0.1904
JW1986	<i>yeeu</i>	CP4-44 prophage; c	-0.0723	0.0465
JW1987	<i>yeev</i>	CP4-44 prophage; tc	-0.0896	0.0173
JW1988	<i>yeew</i>	CP4-44 prophage; u	0.0121	0.5383
JW1989	<i>yeex</i>	UPF0265 family pro	-0.0502	0.075
JW1990	<i>yeaA</i>	Putative transporter	-0.0097	0.8152
JW1991	<i>sbmC</i>	DNA gyrase inhibitor	-0.0618	0.11
JW1993	<i>sbcB</i>	Exodeoxyribonuclea	-0.0017	0.9652
JW1994	<i>yeed</i>	Putative tusa family	-0.1018	0.0537
JW1995	<i>yeee</i>	UPF0394 family inn	-0.0161	0.7144
JW1998	<i>yeez</i>	Putative epimerase	-0.0687	0.1569
JW2000	<i>hisL</i>	His operon leader p	-0.0006	0.9881
JW2001	<i>hisG</i>	ATP phosphoribosyl	0.0524	0.4006
JW2002	<i>hisD</i>	Bifunctional histidin	0.1163	0.004
JW2003	<i>hisC</i>	Histidinol-phosphat	0.1589	0.0252
JW2005	<i>hisH</i>	Imidazole glycerol p	0.0451	0.2574
JW2006	<i>hisA</i>	N-(5'-phospho-L-rit	-0.0331	0.2197
JW2007	<i>hisF</i>	Imidazole glycerol p	0.0402	0.2759
JW2008	<i>hisI</i>	Phosphoribosyl-AM	-0.0783	0.0112
JW2010	<i>ugd</i>	UDP-glucose 6-dehy	0.085	0.1171
JW2011	<i>gnd</i>	6-phosphogluconat	0.0195	0.4585
JW2012	<i>wbbL</i>	CP4-44 prophage; p	-0.3725	0.0242
JW2016	<i>wbbL</i>	Rhamnosyltransfera	0.0329	0.3468
JW2017	<i>wbbK</i>	Lipopolysaccharide l	0.0067	0.9111
JW2018	<i>wbbJ</i>	Putative lipopolysac	-0.0126	0.2535
JW2019	<i>wbbI</i>	D-Galf:alpha-d-Glc t	0.0288	0.4159
JW2020	<i>wbbH</i>	O-antigen polymeras	-0.0119	0.6937
JW2023	<i>rfbC</i>	Dtdp-4-deoxyrhamr	-0.0114	0.7379
JW2025	<i>rfbD</i>	Dtdp-L-rhamnose s	0.0347	0.6717
JW2026	<i>rfbB</i>	Dtdp-glucose 4,6 de	0.0018	0.9568

JW2027	<i>galF</i>	Putative regulatory s	0.0192	0.3766
JW2028	<i>wcaM</i>	Colanic acid biosynt	0.058	0.087
JW2029	<i>wcaL</i>	Putative glycosyl tra	-0.0626	0.1005
JW2030	<i>wcaK</i>	Colanic acid biosynt	0.0367	0.3361
JW2031	<i>wxC</i>	Putative colanic acid	-0.0057	0.8842
JW2032	<i>wcaJ</i>	Colanic biosynthesis	-0.0199	0.6645
JW2033	<i>cpsG</i>	Phosphomannomut	0.2045	0.0001
JW2034	<i>cpsB</i>	Mannose-1-phosph	-0.0003	0.5767
JW2037	<i>fcl</i>	Bifunctional GDP-fu	0.082	0.0549
JW2038	<i>gmd</i>	GDP-D-mannose de	0.0337	0.5044
JW2039	<i>wcaF</i>	Putative acyl transfe	0.0394	0.018
JW2040	<i>wcaE</i>	Putative glycosyl tra	-0.0205	0.7406
JW2041	<i>wcaD</i>	Putative colanic acid	-0.0437	0.1403
JW2042	<i>wcaC</i>	Putative glycosyl tra	-0.0357	0.1662
JW2043	<i>wcaB</i>	Putative acyl transfe	0.0979	0.07
JW2045	<i>wzc</i>	Colanic acid product	-0.0387	0.383
JW2046	<i>wzb</i>	Colanic acid product	-0.0424	0.3735
JW2047	<i>wza</i>	Colanic acid export p	-0.0183	0.7798
JW2049	<i>asmA</i>	Suppressor of ompf	-0.0108	0.8049
JW2050	<i>dcd</i>	Deoxycytidine triphc	-0.0604	0.1526
JW2051	<i>udk</i>	Uridine-cytidine kinæ	-0.0345	0.39
JW2052	<i>yegE</i>	Putative diguanylate	0.0026	0.9186
JW2053	<i>alkA</i>	3-methyl-adenine DI	-0.0394	0.324
JW2054	<i>yegD</i>	Hsp70 chaperone fa	0.0892	0.0821
JW2055	<i>yegI</i>	Protein kinase-relate	-0.0003	0.9906
JW2056	<i>yegJ</i>	DUF2314 family pro	-0.1285	0.0016
JW2057	<i>yegK</i>	Ser/thr phosphatase	-0.0723	0.0573
JW2058	<i>yegL</i>	VMA domain proteir	0.0191	0.5571
JW2060	<i>mdtB</i>	Multidrug efflux sys	-0.0141	0.7252
JW2061	<i>mdtC</i>	Multidrug efflux sys	0.0342	0.5168
JW2062	<i>mdtD</i>	Putative citrate/iron-	-0.071	0.2059
JW2063	<i>baeS</i>	Sensory histidine kir	-0.0798	0.1587
JW2064	<i>baeR</i>	Response regulator i	-0.0962	0.0208
JW2066	<i>yegQ</i>	Putative peptidase	0.0486	0.2375
JW2067	<i>ogrK</i>	Orphan Ogr protein,	0.0668	0.0197
JW2070	<i>yegS</i>	Phosphatidylglycero	0.0024	0.9387
JW2074	<i>gatR</i>	CP4-44 prophage; p	-0.0209	0.6527
JW2075	<i>gatD</i>	Galactitol-1-phosph	-0.0087	0.7983
JW2076	<i>gatC</i>	Pseudogene, galactit	0.03	0.3643
JW2077	<i>gatB</i>	Galactitol-specific er	0.0219	0.3965
JW2082	<i>gatZ</i>	D-tagatose 1,6-bispl	0.013	0.6951
JW2085	<i>yegT</i>	Nucleoside transpor	-0.0382	0.5287
JW2086	<i>yegU</i>	ADP-ribosylglycohc	-0.014	0.7009
JW2087	<i>yegV</i>	Putative kinase	0.015	0.4858
JW2088	<i>yegW</i>	Putative DNA-bindir	-0.025	0.5361

JW2090	<i>thiD</i>	Hydroxy-methylpyrii	0.0906	0.0088
JW2091	<i>thiM</i>	Hydroxyethylthiazol	-0.0258	0.3268
JW2092	<i>yohL</i>	Transcriptional repre	-0.0244	0.4525
JW2095	<i>yehA</i>	Putative fimbrial-like	-0.0471	0.2481
JW2096	<i>yehB</i>	Putative outer memt	0.0337	0.4039
JW2097	<i>yehC</i>	Putative periplasmic	0.0265	0.3615
JW2098	<i>yehD</i>	Putative fimbrial-like	0.037	0.0219
JW2099	<i>yehE</i>	DUF2574 family pro	-0.0219	0.32
JW2100	<i>mrp</i>	Antiporter inner mer	-0.0031	0.9449
JW2102	<i>molR</i>	CP4-44 prophage; p	0.0487	0.1458
JW2105	<i>yehI</i>	Uncharacterized pro	0.0675	0.0099
JW2106	<i>yehK</i>	Uncharacterized pro	0.0061	0.7993
JW2108	<i>yehM</i>	Uncharacterized pro	0.0225	0.4507
JW2110	<i>yehQ</i>	Pseudogene	-0.015	0.5213
JW2112	<i>yehS</i>	DUF1456 family pro	-0.0581	0.1319
JW2115	<i>mlrA</i>	Transcriptional activ	-0.0411	0.2893
JW2116	<i>yehW</i>	Putative ABC transp	-0.0506	0.0937
JW2117	<i>yehX</i>	Putative ABC transp	0.0077	0.832
JW2119	<i>yehZ</i>	Putative ABC transp	0.0706	0.0019
JW2124	<i>yohD</i>	Deda family inner m	-0.0119	0.6595
JW2125	<i>yohF</i>	Putative oxidoreduc	0.0362	0.5235
JW2128	<i>dusC</i>	Trna-dihydrouridine	0.0352	0.4194
JW2129	<i>yohJ</i>	UPF0299 family inn	-0.0977	0.0684
JW2130	<i>yohK</i>	Lrgb family inner me	0.0372	0.3335
JW2131	<i>cdd</i>	Cytidine/deoxycytdi	0.0198	0.6295
JW2132	<i>sanA</i>	DUF218 superfamily	0.1193	0.0004
JW2133	<i>yeiT</i>	Dihydropyrimidine c	0.0342	0.1042
JW2134	<i>yeiA</i>	Dihydropyrimidine c	0.0607	0.0531
JW2135	<i>mgIC</i>	Methyl-galactoside t	0.0044	0.8796
JW2136	<i>mgIA</i>	Methyl-galactoside /	-0.05	0.24
JW2137	<i>mgIB</i>	Methyl-galactoside t	0.0032	0.9229
JW2139	<i>yeiB</i>	DUF418 family puta	-0.067	0.0586
JW2141	<i>yeiG</i>	S-formylglutathione	-0.0086	0.7509
JW2143	<i>lysP</i>	Lysine transporter	-0.0567	0.079
JW2144	<i>yeiE</i>	Putative DNA-bindir	-0.0088	0.8074
JW2145	<i>yeiH</i>	UPF0324 family inn	0.0243	0.2679
JW2146	<i>nfo</i>	Endonuclease IV witi	0.058	0.0461
JW2147	<i>yeiI</i>	Putative kinase	-0.0193	0.785
JW2148	<i>yeiJ</i>	Nucleoside permeas	0.053	0.2976
JW2149	<i>rihB</i>	Ribonucleoside hyd	0.0555	0.4261
JW2150	<i>yeiL</i>	Nitrogen starvation	0.0047	0.8781
JW2151	<i>yeiM</i>	Putative nucleoside	-0.0555	0.0979
JW2152	<i>yeiN</i>	Pseudouridine 5'-ph	0.0587	0.0436
JW2153	<i>yeiC</i>	Pseudouridine kinas	0.0226	0.6854
JW2154	<i>fruA</i>	Fused fructose-spec	-0.0335	0.2688

JW2155	<i>fruK</i>	Fructose-1-phosphat	0.006	0.8802
JW2156	<i>fruB</i>	Fused fructose-spec	0.0146	0.7427
JW2157	<i>setB</i>	Lactose/glucose effli	-0.1023	0.0269
JW2160	<i>yeyQ</i>	Putative NAD-depen	-0.0239	0.5261
JW2161	<i>yeyR</i>	Zn-stimulated gtpas	-0.1363	0.0097
JW2162	<i>yeyU</i>	Lipid A 1-diphospha	0.0185	0.6284
JW2164	<i>rtn</i>	Resistance protein fi	0.0479	0.2868
JW2165	<i>yeyA</i>	Microcin C ABC tran	0.0633	0.1277
JW2166	<i>yeyB</i>	Microcin C ABC tran	-0.0042	0.8963
JW2167	<i>yeyE</i>	Microcin C ABC tran	-0.0426	0.1904
JW2168	<i>yeyF</i>	Microcin C ABC tran	0.1291	0.0819
JW2169	<i>yeyG</i>	Uncharacterized pro	-0.0595	0.1915
JW2171	<i>rsuA</i>	16S rrna pseudouric	-0.0028	0.8935
JW2172	<i>yeyH</i>	Putative ATP-depenc	0.0099	0.8167
JW2173	<i>rply</i>	50S ribosomal subu	0.0541	0.1488
JW2174	<i>yeyK</i>	Nucleoid-associated	-0.0565	0.1021
JW2175	<i>yeyL</i>	UPF0352 family pro	-0.0321	0.2603
JW2181	<i>narP</i>	Response regulator i	-0.0688	0.1245
JW2182	<i>ccmH</i>	Heme lyase, ccmh su	0.1168	0.0615
JW2184	<i>ccmF</i>	Heme lyase, ccmf su	0.1294	0.0031
JW2185	<i>ccmE</i>	Periplasmic heme ch	-0.0506	0.1968
JW2186	<i>ccmD</i>	Heme exporter prote	0.0242	0.3143
JW2187	<i>ccmC</i>	Heme exporter prote	-0.0867	0.0098
JW2188	<i>ccmB</i>	Heme export ABC tra	-0.0027	0.9235
JW2190	<i>napC</i>	Quinol dehydrogena	-0.0246	0.2464
JW2192	<i>napH</i>	Ferredoxin-type prot	-0.0408	0.1862
JW2193	<i>napG</i>	Ferredoxin-type prot	-0.007	0.847
JW2194	<i>napA</i>	Nitrate reductase, p	-0.0071	0.8267
JW2195	<i>napD</i>	Assembly protein fo	0.0292	0.454
JW2196	<i>napF</i>	Ferredoxin-type prot	-0.0973	0.0339
JW2197	<i>eco</i>	Ecotin, a serine prot	-0.013	0.6974
JW2198	<i>mqa</i>	Malate dehydrogena	-0.0396	0.5094
JW2199	<i>yoyI</i>	Microcin J25 efflux	-0.0312	0.3485
JW2200	<i>alkB</i>	Oxidative demethyla	-0.0339	0.39
JW2203	<i>ompC</i>	Outer membrane po	0.2658	0
JW2204	<i>rcsD</i>	Phosphotransfer int	0.0404	0.2606
JW2205	<i>rcsB</i>	Response regulator i	0.0007	0.9873
JW2213	<i>atoS</i>	Sensory histidine kir	-0.01	0.8805
JW2214	<i>atoC</i>	Fused response regu	-0.0725	0.1221
JW2215	<i>atoD</i>	Acetyl-coa:acetoacet	0.1274	0.0015
JW2216	<i>atoA</i>	Acetyl-coa:acetoacet	0.2461	0
JW2217	<i>atoE</i>	Short chain fatty aci	-0.0643	0.2363
JW2218	<i>atoB</i>	Acetyl-coa acetyltrar	-0.0078	0.7334
JW2219	<i>yfaP</i>	DUF2135 family pro	0.0005	0.0005
JW2220	<i>yfaQ</i>	Tandem DUF2300 d	-0.1597	0.0011

JW2221	<i>yfaS</i>	CP4-44 prophage; p	-0.0612	0.3596
JW2222	<i>yfaS</i>	CP4-44 prophage; p	-0.0106	0.8044
JW2223	<i>yfaT</i>	DUF1175 family pro	0.0187	0.5324
JW2224	<i>yfaA</i>	DUF2138 family pro	0.0185	0.587
JW2226	<i>ubiG</i>	Bifunctional 3-deme	-0.2647	0.0092
JW2230	<i>yfaE</i>	Ferredoxin involved	0.0508	0.2781
JW2231	<i>inaA</i>	Acid-inducible Kdo/1	-0.0365	0.3612
JW2232	<i>yfaH</i>	Pseudogene	-0.0477	0.0451
JW2233	<i>glpQ</i>	Periplasmic glycerop	0.0075	0.898
JW2234	<i>glpT</i>	Sn-glycerol-3-phosp	-0.0302	0.1406
JW2235	<i>glpA</i>	Anaerobic sn-glycer	-0.0011	0.9753
JW2236	<i>glpB</i>	Anaerobic sn-glycer	0.0042	0.815
JW2237	<i>glpC</i>	Anaerobic sn-glycer	0.0007	0.0312
JW2238	<i>yfaD</i>	Transposase_31 farr	-0.024	0.6103
JW2239	<i>yfaU</i>	2-keto-3-deoxy-L-rh	0.0502	0.1384
JW2240	<i>yfaV</i>	Putative L-rhamnoni	-0.039	0.2826
JW2241	<i>yfaW</i>	L-rhamnonate dehy	-0.1182	0.0488
JW2242	<i>yfaX</i>	Putative DNA-bindir	-0.0262	0.2378
JW2243	<i>yfaY</i>	Inactive pncc family	0.0288	0.6315
JW2245	<i>yfaO</i>	Nucleoside triphosp	0.011	0.595
JW2246	<i>ais</i>	Putative LPS core he	-0.0133	0.7101
JW2248	<i>yfbF</i>	Undecaprenyl phos†	-0.0142	0.7757
JW2249	<i>yfbG</i>	Fused UDP-L-Ara4N	0.0369	0.4987
JW2250	<i>yfbH</i>	Undecaprenyl phos†	-0.0625	0.0833
JW2251	<i>arnT</i>	4-amino-4-deoxy-L-	-0.0449	0.2763
JW2252	<i>yfbW</i>	Undecaprenyl phos†	-0.0226	0.6162
JW2254	<i>pmrD</i>	Inactive two-compoi	0.1058	0.042
JW2255	<i>menE</i>	O-succinylbenzoate-	0.0601	0.2071
JW2256	<i>menC</i>	O-succinylbenzoyl-c	0.0434	0.4222
JW2257	<i>menB</i>	Dihydroxynaphthoic	0.001	0.9818
JW2258	<i>yfbB</i>	2-succinyl-6-hydrox	0.0893	0.0171
JW2260	<i>menF</i>	Isochorismate synth	0.0258	0.3723
JW2261	<i>elaB</i>	Putative membrane-	-0.1328	0.0011
JW2263	<i>elaC</i>	Rnase BN, trna proc†	-0.07	0.0423
JW2265	<i>yfbK</i>	Von Willebrand fact†	0.0645	0.0609
JW2267	<i>yfbM</i>	DUF1877 family pro	0.0216	0.6338
JW2269	<i>yfbO</i>	Uncharacterized pro	-0.0134	0.7134
JW2270	<i>yfbP</i>	TPR-like repeats-con	-0.0282	0.534
JW2271	<i>nuoN</i>	NADH:ubiquinone o	0.0424	0.2184
JW2272	<i>nuoM</i>	NADH:ubiquinone o	0.0027	0.9197
JW2273	<i>nuoL</i>	NADH:ubiquinone o	-0.0117	0.8094
JW2274	<i>nuoK</i>	NADH:ubiquinone o	-0.2468	0.0005
JW2275	<i>nuoJ</i>	NADH:ubiquinone o	0.0363	0.2882
JW2276	<i>nuoI</i>	NADH:ubiquinone o	0.1234	0.0047
JW2277	<i>nuoH</i>	NADH:ubiquinone o	-0.0142	0.6402

JW2278	<i>nuoG</i>	NADH:ubiquinone o	-0.0279	0.4603
JW2279	<i>nuoF</i>	NADH:ubiquinone o	0.0696	0.0857
JW2280	<i>nuoE</i>	NADH:ubiquinone o	0.0817	0.0601
JW2283	<i>nuoA</i>	NADH:ubiquinone o	-0.0096	0.7643
JW2284	<i>lrhA</i>	Transcriptional repr	-0.0019	0.9477
JW2287	<i>yfbQ</i>	Glutamate-pyruvate	0.0217	0.5036
JW2288	<i>yfbR</i>	5'-nucleotidase	0.0445	0.0631
JW2289	<i>yfbS</i>	Putative transporter	-0.0863	0.0119
JW2291	<i>yfbU</i>	UPF0304 family pro	0.0428	0.2498
JW2292	<i>yfbV</i>	UPF0208 family inn	0.064	0.138
JW2293	<i>ackA</i>	Acetate kinase A and	0.155	0.0567
JW2295	<i>yfcC</i>	Putative inner memt	-0.0431	0.0118
JW2296	<i>yfcD</i>	Putative NUDIX hyd	0.0649	0.0716
JW2298	<i>yfcF</i>	Glutathione S-transf	-0.0442	0.1852
JW2299	<i>yfcG</i>	GSH-dependent dis	0.0008	0.9795
JW2300	<i>folX</i>	D-erythro-7,8-dihyd	-0.0525	0.0674
JW2301	<i>yfcH</i>	Putative NAD-depen	0.0103	0.8108
JW2303	<i>hisP</i>	Histidine ABC transç	0.0013	0.9697
JW2304	<i>hisM</i>	Histidine ABC transç	-0.0377	0.2304
JW2305	<i>hisQ</i>	Histidine ABC transç	0.0056	0.7696
JW2306	<i>hisJ</i>	Histidine ABC transç	0.0872	0.0196
JW2307	<i>argT</i>	Lysine/arginine/ornit	0.0314	0.5674
JW2308	<i>ubiX</i>	3-octaprenyl-4-hydr	-0.0372	0.3006
JW2309	<i>purF</i>	Amidophosphoribo:	-0.0369	0.4296
JW2310	<i>cvpA</i>	Colicin V productior	0.0754	0.113
JW2314	<i>dedA</i>	Deda family inner m	0.0379	0.5486
JW2315	<i>truA</i>	Trna pseudouridine(	0.0982	0.0394
JW2316	<i>usg</i>	Putative semialdehy	0.0278	0.4513
JW2317	<i>pdxB</i>	Erythronate-4-phosj	-0.0471	0.28
JW2318	<i>flk</i>	Putative flagella asse	-0.0599	0.13
JW2319	<i>yfcJ</i>	Putative arabinose e	-0.0679	0.0447
JW2322	<i>yfcL</i>	Uncharacterized pro	-0.0333	0.4099
JW2324	<i>yfcA</i>	Taue/TSUP family inr	-0.0027	0.9404
JW2325	<i>mepA</i>	Murein DD-endopeç	0.0075	0.8603
JW2326	<i>aroC</i>	Chorismate synthası	0.0602	0.7458
JW2328	<i>yfcN</i>	Putative DNA endon	0.0198	0.6211
JW2329	<i>yfcO</i>	DUF2544 family put	0.0787	0.1179
JW2330	<i>yfcP</i>	Putative fimbrial-like	-0.0172	0.7756
JW2331	<i>yfcQ</i>	Putative fimbrial-like	0.0091	0.8877
JW2332	<i>yfcR</i>	Putative fimbrial-like	-0.0903	0.2022
JW2333	<i>yfcS</i>	Putative periplasmic	-0.0704	0.2501
JW2335	<i>yfcU</i>	CP4-44 prophage; p	0.0254	0.3645
JW2337	<i>sixA</i>	Phosphohistidine pl	0.1489	0.0255
JW2338	<i>yfcX</i>	Enoyl-coa hydratase	-0.0039	0.9186
JW2339	<i>yfcY</i>	Beta-ketoacyl-coa th	0.0117	0.8037

JW2340	<i>yfcZ</i>	UPF0381 family pro	0.0058	0.9092
JW2341	<i>fadL</i>	Long-chain fatty acic	-0.0102	0.8148
JW2343	<i>vacJ</i>	ABC transporter mai	0.0176	0.5937
JW2344	<i>yfdC</i>	Inner membrane pro	-0.0117	0.7675
JW2345	<i>intS</i>	CPS-53 (kple1) prop	0.0514	0.2075
JW2346	<i>yfdG</i>	CPS-53 (kple1) prop	0.0194	0.6073
JW2347	<i>yfdH</i>	CPS-53 (kple1) prop	-0.0156	0.6605
JW2350	<i>yfdK</i>	CPS-53 (kple1) prop	-0.0289	0.5576
JW2352	<i>yfdM</i>	CPS-53 (kple1) prop	0.018	0.6359
JW2355	<i>yfdO</i>	Pseudogene, CPS-53	0.0606	0.0454
JW2356	<i>yfdP</i>	CPS-53 (kple1) prop	0.0704	0.002
JW2357	<i>yfdQ</i>	CPS-53 (kple1) prop	-0.0173	0.7052
JW2358	<i>yfdR</i>	CPS-53 (kple1) prop	0.0245	0.529
JW2359	<i>yfdS</i>	CPS-53 (kple1) prop	-0.0007	0.9663
JW2362	<i>dsdX</i>	D-serine transporter	-0.0548	0.302
JW2363	<i>dsdA</i>	D-serine dehydratas	-0.1358	0.0221
JW2364	<i>emrY</i>	Putative multidrug e	0.0413	0.4121
JW2365	<i>emrK</i>	Multidrug resistance	-0.0019	0.9682
JW2366	<i>evgA</i>	Response regulator i	-0.1664	0.0003
JW2367	<i>evgS</i>	Hybrid sensory histi	0.0758	0.0213
JW2368	<i>yfdE</i>	Acetyl-coa:oxalate cc	-0.0429	0.2476
JW2369	<i>yfdV</i>	Putative transporter	0.1601	0.0124
JW2370	<i>oxc</i>	Oxalyl coa decarbox	0.5186	0.0004
JW2371	<i>frc</i>	Formyl-coa transfer	-0.0236	0.6319
JW2372	<i>yfdX</i>	Uncharacterized pro	0.0448	0.0357
JW2373	<i>ypdI</i>	Putative lipoprotein	0.0121	0.7596
JW2374	<i>yfdY</i>	DUF2545 family put	-0.0543	0.0853
JW2375	<i>ddg</i>	Palmitoleoyl-acyl car	0.1176	0.0158
JW2376	<i>yfdZ</i>	Glutamate-pyruvate	0.0111	0.7891
JW2378	<i>ypdB</i>	Response regulator ;	0.031	0.6281
JW2379	<i>ypdC</i>	Putative DNA-bindir	0.1044	0.1785
JW2381	<i>ypdE</i>	Aminopeptidase	-0.0367	0.4365
JW2382	<i>ypdF</i>	Xaa-Pro aminopepti	-0.0075	0.8239
JW2383	<i>ypdG</i>	Putative enzyme IIC	-0.0132	0.6082
JW2385	<i>glk</i>	Glucokinase	-0.0114	0.7158
JW2386	<i>yfeO</i>	Putative ion channel	0.0168	0.5333
JW2387	<i>ypeC</i>	DUF2502 family put	-0.0678	0.0361
JW2388	<i>mntH</i>	Manganese/divalent	-0.0936	0.1565
JW2389	<i>nupC</i>	Nucleoside (except ξ	0.0702	0.1122
JW2393	<i>yfeC</i>	DUF1323 family put	0.0044	0.883
JW2394	<i>yfeD</i>	DUF1323 family put	-0.0214	0.6095
JW2397	<i>xapB</i>	Xanthosine transpoi	-0.0187	0.6757
JW2398	<i>xapA</i>	Purine nucleoside pl	0.037	0.3119
JW2399	<i>yfeN</i>	Putative outer memt	-0.0242	0.4228
JW2400	<i>yfeR</i>	Transcriptional regul	0.0848	0.0059

JW2406	<i>cysZ</i>	Sulfate transporter, s	-0.0204	0.5065
JW2407	<i>cysK</i>	Cysteine synthase A,	-0.0187	0.7887
JW2408	<i>ptsH</i>	Phosphocarrier prot	-0.0361	0.492
JW2409	<i>ptsI</i>	PEP-protein phosph	0.0621	0.0325
JW2410	<i>crr</i>	Glucose-specific enz	-0.0206	0.544
JW2412	<i>yfeK</i>	Uncharacterized pro	-0.1309	0.0204
JW2413	<i>yfeS</i>	WGR domain protei	-0.0982	0.0587
JW2414	<i>cysM</i>	Cysteine synthase B	-0.1349	0.0016
JW2415	<i>cysA</i>	Sulfate/thiosulfate ti	0.1148	0.1438
JW2416	<i>cysW</i>	Sulfate/thiosulfate A	0.0782	0.0452
JW2417	<i>cysU</i>	Sulfate/thiosulfate A	0.3619	0.0001
JW2418	<i>cysP</i>	Thiosulfate-binding	0.1327	0.0009
JW2420	<i>yfeT</i>	Repressor for murp	-0.2366	0.1325
JW2421	<i>yfeU</i>	N-acetylmuramic aci	0.0646	0.0837
JW2422	<i>murP</i>	N-acetylmuramic aci	-0.0511	0.236
JW2424	<i>yfeX</i>	Porphyrinogen oxid	0.0418	0.2525
JW2425	<i>yfeY</i>	Rpoe-regulated lipo	-0.0128	0.5821
JW2426	<i>yfeZ</i>	Inner membrane pro	-0.0131	0.7615
JW2427	<i>ypeA</i>	GNAT family putativ	-0.0462	0.3861
JW2429	<i>hemF</i>	Oxygen-dependent c	-0.0126	0.7434
JW2430	<i>yfeG</i>	Eut operon transcrip	0.007	0.8138
JW2431	<i>yffI</i>	Putative ethanol util	0.026	0.4564
JW2432	<i>eutL</i>	Putative ethanol util	-0.0079	0.6729
JW2433	<i>eutC</i>	Ethanolamine ammo	-0.0113	0.7513
JW2434	<i>eutB</i>	Ethanolamine ammo	-0.0186	0.7199
JW2435	<i>eutA</i>	Reactivating factor fi	0.0336	0.447
JW2436	<i>eutH</i>	Ethanolamine transp	0.1235	0.0267
JW2437	<i>eutG</i>	Ethanol dehydrogen	0.0017	0.9558
JW2438	<i>eutJ</i>	Ethanolamine utiliza	0.1915	0
JW2439	<i>eutE</i>	Aldehyde oxidoredu	0.0067	0.8603
JW2440	<i>cchB</i>	Ethanolamine catabc	-0.0173	0.7868
JW2441	<i>cchA</i>	Ethanolamine utiliza	-0.0019	0.9538
JW2442	<i>eutI</i>	Phosphate acetyltra	0.0458	0.1561
JW2443	<i>eutT</i>	Cobalamin adenosyl	0.0684	0.2399
JW2444	<i>eutQ</i>	Rmlc-like cupin dom	0.02	0.6135
JW2445	<i>eutP</i>	Putative P-loop ntp	-0.0883	0.0321
JW2446	<i>ypfE</i>	Putative ethanol util	0.0206	0.3951
JW2447	<i>maeB</i>	Malic enzyme: putat	0.1338	0.0664
JW2448	<i>talA</i>	Transaldolase A	-0.0055	0.8633
JW2449	<i>tktB</i>	Transketolase 2, thia	0.0332	0.3452
JW2450	<i>ypfG</i>	DUF1176 family pro	0.0181	0.7001
JW2451	<i>yffH</i>	GDP-mannose pyroj	0.0013	0.9604
JW2452	<i>aegA</i>	Putative oxidoreduc	-0.047	0.1026
JW2453	<i>narQ</i>	Sensory histidine kir	-0.0525	0.0839
JW2454	<i>acrD</i>	Aminoglycoside/mul	0.0491	0.4576

JW2455	<i>yffB</i>	Putative arsc family I	-0.0381	0.3772
JW2457	<i>ypfN</i>	Putative membrane I	0.0053	0.904
JW2459	<i>ypfI</i>	Elongator methionin	-0.1053	0.0123
JW2460	<i>ypfJ</i>	Putative neutral zinc	0.0478	0.1879
JW2461	<i>purC</i>	Phosphoribosylamir	0.0324	0.0025
JW2462	<i>nlpB</i>	Bamabcde complex I	-0.0273	0.5722
JW2464	<i>gcvR</i>	Transcriptional repre	0.097	0.0379
JW2466	<i>hyfA</i>	Hydrogenase 4, 4Fe-	0.0249	0.579
JW2467	<i>hyfB</i>	Hydrogenase 4, men	-0.003	0.9517
JW2468	<i>hyfC</i>	Hydrogenase 4, men	-0.0098	0.8053
JW2469	<i>hyfD</i>	Hydrogenase 4, men	-0.0532	0.1147
JW2470	<i>hyfE</i>	Hydrogenase 4, men	0.117	0.001
JW2471	<i>hyfF</i>	Hydrogenase 4, men	-0.0069	0.8161
JW2472	<i>hyfG</i>	Hydrogenase 4, subI	0.0139	0.7451
JW2473	<i>hyfH</i>	Hydrogenase 4, Fe-S	0.018	0.5318
JW2475	<i>hyfJ</i>	Putative processing	-0.045	0.4183
JW2476	<i>hyfR</i>	Hydrogenase-4 tran:	0.0785	0.2247
JW2477	<i>focB</i>	Putative formate traI	0.1031	0.0643
JW2478	<i>yfgO</i>	Putative UPF0118 fa	-0.0038	0.9215
JW2479	<i>yfgC</i>	OM protein mainten	-0.0256	0.2593
JW2480	<i>yfgD</i>	Putative oxidoreduc	-0.0023	0.945
JW2482	<i>uraA</i>	Uracil permease	0.0279	0.3663
JW2483	<i>upp</i>	Uracil phosphoribos	-0.013	0.6525
JW2484	<i>purM</i>	Phosphoribosylamir	0.0068	0.836
JW2485	<i>purN</i>	Phosphoribosylglyci	-0.0378	0.1875
JW2486	<i>ppk</i>	Polyphosphate kina:	0.0683	0.2897
JW2487	<i>ppx</i>	ExopolyphosphatasI	-0.0676	0.197
JW2488	<i>yfgF</i>	Cyclic-di-GMP phos	-0.0904	0.1128
JW2490	<i>yfgI</i>	Nalidixic acid resista	0.0329	0.2107
JW2491	<i>guaA</i>	GMP synthetase (glu	-0.0132	0.0606
JW2493	<i>xseA</i>	Exonuclease VII, larg	0.0037	0.8947
JW2496	<i>yfgL</i>	Bamabcde complex I	0.0074	0.8131
JW2497	<i>yfgM</i>	Ancillary secyeg tran	-0.1036	0.0151
JW2500	<i>yfgA</i>	Mreb assembly cyto	0.1294	0.004
JW2501	<i>yfgB</i>	Dual specificity 23S	-0.0212	0.3603
JW2502	<i>ndk</i>	Multifunctional nuc	0.0318	0.2765
JW2503	<i>pbpC</i>	Penicillin-insensitive	-0.0003	0.9927
JW2504	<i>yfhM</i>	Bacterial alpha2-mac	0.0401	0.3254
JW2507	<i>pepB</i>	Aminopeptidase B	0.0408	0.5576
JW2508	<i>yfhJ</i>	Fe(2+) donor and ac	0.0992	0.2066
JW2509	<i>fdx</i>	[2Fe-2S] ferredoxin	-0.1676	0.0028
JW2510	<i>hscA</i>	Dnak-like molecular	0.0009	0.9811
JW2511	<i>hscB</i>	Hsca co-chaperone,	-0.0126	0.618
JW2512	<i>iscA</i>	Fes cluster assembly	0.1163	0.0006
JW2513	<i>iscU</i>	Iron-sulfur cluster a:	-0.0066	0.8983

JW2514	<i>iscS</i>	Cysteine desulfurase	0	0.9993
JW2515	<i>iscR</i>	Isc operon transcrip	-0.0779	0.098
JW2518	<i>yfhR</i>	Putative S9 family pr	0.0226	0.5
JW2520	<i>hcaT</i>	Putative 3-phenylpr	0.0172	0.7007
JW2521	<i>hcaR</i>	Hca operon transcrij	-0.0203	0.7028
JW2523	<i>hcaF</i>	3-phenylpropionate	0.135	0.0017
JW2524	<i>hcaC</i>	3-phenylpropionate	0.1019	0.0354
JW2525	<i>hcaB</i>	2,3-dihydroxy-2,3-d	0.0583	0.0071
JW2526	<i>hcaD</i>	Phenylpropionate di	0.0341	0.285
JW2527	<i>yphA</i>	Doxx family inner m	0.0515	0.0676
JW2528	<i>yphB</i>	Mutarotase superfai	0.0232	0.433
JW2530	<i>yphD</i>	Putative sugar ABC t	-0.0584	0.2279
JW2531	<i>yphE</i>	Putative sugar ABC t	0.0277	0.5579
JW2532	<i>yphF</i>	ABC transporter peri	0.0434	0.3434
JW2535	<i>glyA</i>	Serine hydroxymethy	-0.0831	0.2113
JW2536	<i>hmp</i>	Fused nitric oxide di	0.129	0.0042
JW2537	<i>glnB</i>	Regulatory protein P	0.0884	0.3707
JW2538	<i>yfhA</i>	Response regulator i	0.0426	0.1597
JW2539	<i>yfhG</i>	Putative outer memk	0.0622	0.1388
JW2541	<i>purL</i>	Phosphoribosylform	-0.0618	0.1779
JW2542	<i>yfhD</i>	Membrane-bound ly	-0.0288	0.6128
JW2545	<i>yfhH</i>	Putative DNA-bindir	-0.0412	0.2593
JW2546	<i>yfhL</i>	Putative 4Fe-4S clus	-0.0329	0.5653
JW2548	<i>pdxJ</i>	Pyridoxine 5'-phosp	0.0041	0.9272
JW2549	<i>recO</i>	Gap repair protein	-0.0345	0.4591
JW2553	<i>lepA</i>	Back-translocating e	0.0447	0.0449
JW2554	<i>rseC</i>	Soxr iron-sulfur clus	0.0196	0.4769
JW2555	<i>rseB</i>	Anti-sigma E factor, l	0.0481	0.1343
JW2556	<i>rseA</i>	Anti-Sigma-E factor	-0.2692	0.0009
JW2558	<i>nadB</i>	Quinolate synthas	0.0648	0.2283
JW2560	<i>srmB</i>	ATP-dependent RNA	-0.027	0.5188
JW2561	<i>yfiE</i>	Putative DNA-bindir	0.0678	0.1808
JW2562	<i>yfiK</i>	Cysteine and O-acety	-0.0385	0.2636
JW2563	<i>yfiD</i>	Autonomous glycy l	0.0199	0.7073
JW2564	<i>ung</i>	Uracil-DNA-glycosyl	0.0283	0.4322
JW2565	<i>yfiF</i>	Putative methyltrans	0.0318	0.5326
JW2566	<i>trxC</i>	Thioredoxin 2	0.042	0.3412
JW2570	<i>yfiM</i>	Putative lipoprotein	-0.0535	0.2594
JW2571	<i>kgfP</i>	Alpha-ketoglutarate	0.019	0.687
JW2573	<i>clpB</i>	Chaperone protein c	0.0033	0.924
JW2576	<i>rluD</i>	23S rna pseudouric	-0.0734	0.0068
JW2578	<i>yfiA</i>	Cold shock protein ε	0.0443	0.2199
JW2579	<i>pheL</i>	Phea gene leader peç	-0.0632	0.2667
JW2580	<i>pheA</i>	Chorismate mutase i	0.064	0.0039
JW2581	<i>tyrA</i>	Fused chorismate m	0.1346	0.0123

JW2582	<i>aroF</i>	Phospho-2-dehydr	0.2357	0.0086
JW2584	<i>yfiR</i>	Putative periplasmic	0.0361	0.3432
JW2585	<i>yfiN</i>	Putative membrane-	0.0793	0.0022
JW2592	<i>ypjD</i>	Cytochrome c asser	-0.0245	0.4869
JW2598	<i>smpA</i>	Lipoprotein compor	-0.1055	0.0442
JW2599	<i>yjfF</i>	UPF0125 family pro	-0.2679	0.0005
JW2600	<i>yjfG</i>	Toxic UPF0083 fami	-0.0068	0.8891
JW2601	<i>smpB</i>	Tmrna-binding trans	0.0386	0.3821
JW2602	<i>intA</i>	CP4-57 prophage; ir	-0.0105	0.7638
JW2603	<i>yjfH</i>	CP4-57 prophage; u	0.0305	0.424
JW2604	<i>alpA</i>	CP4-57 prophage; D	-0.0365	0.3408
JW2605	<i>yfjI</i>	CP4-57 prophage; u	-0.033	0.178
JW2607	<i>yfjJ</i>	CP4-57 prophage; u	0.0219	0.3878
JW2608	<i>yfjK</i>	Radiation resistance	0.0105	0.7021
JW2609	<i>yfjL</i>	CP4-57 putative def	-0.0318	0.3101
JW2610	<i>yfjM</i>	CP4-57 prophage; u	0.0633	0.2491
JW2611	<i>yfjN</i>	CP4-57 prophage; rr	-0.0126	0.6442
JW2614	<i>yfjQ</i>	CP4-57 prophage; u	-0.0329	0.4331
JW2615	<i>yfjR</i>	CP4-57 prophage; p	0.0512	0.0333
JW2618	<i>yfjT</i>	CP4-57 prophage; p	0.026	0.5657
JW2619	<i>yfjU</i>	CP4-44 prophage; p	-0.0034	0.9204
JW2623	<i>yfjW</i>	CP4-57 prophage; p	0.0745	0.0825
JW2624	<i>yfjX</i>	CP4-57 prophage; p	-0.1898	0.0517
JW2625	<i>yfjY</i>	CP4-57 prophage; p	-0.0472	0.321
JW2626	<i>yfjZ</i>	CP4-57 prophage; ai	0.0336	0.4296
JW2627	<i>ypjF</i>	CP4-57 prophage; tc	-0.0294	0.3146
JW2629	<i>ypjB</i>	Pseudogene	-0.0212	0.6136
JW2631	<i>ygaR</i>	CP4-44 prophage; p	-0.0194	0.4543
JW2633	<i>yqaD</i>	CP4-44 prophage; p	-0.0225	0.5743
JW2635	<i>ygaF</i>	L-2-hydroxyglutarat	0.1146	0.0313
JW2636	<i>gabD</i>	Succinate-semialdeh	-0.0478	0.1939
JW2637	<i>gabT</i>	4-aminobutyrate am	-0.0998	0.0053
JW2638	<i>gabP</i>	Gamma-aminobutyrr	-0.0476	0.3364
JW2639	<i>csiR</i>	Transcriptional repre	0.07	0.2309
JW2640	<i>ygaU</i>	Uncharacterized pro	0.0815	0.0741
JW2641	<i>yqaE</i>	UPF0057 membran	0.0851	0.049
JW2642	<i>ygaV</i>	Tributyltin-inducible	-0.0934	0.0457
JW2643	<i>ygaP</i>	DUF2892 family inn	-0.004	0.9347
JW2644	<i>stpA</i>	DNA binding proteir	0.0001	0.9979
JW2645	<i>ygaW</i>	Alanine exporter, ala	-0.0385	0.5726
JW2646	<i>ygaC</i>	Uncharacterized pro	-0.0002	0.9952
JW2647	<i>ygaM</i>	Putative membrane-	0.0384	0.2014
JW2648	<i>nrdH</i>	Hydrogen donor for	-0.0126	0.7366
JW2649	<i>nrdI</i>	Nrdef cluster assembl	-0.0348	0.4463
JW2650	<i>nrdE</i>	Ribonucleoside-diph	-0.009	0.8083

JW2651	<i>nrdF</i>	Ribonucleoside-diphosphate	-0.0733	0.0432
JW2652	<i>proV</i>	Glycine betaine/proline	0.0767	0.0286
JW2653	<i>proW</i>	Glycine betaine/proline	-0.0562	0.3131
JW2654	<i>proX</i>	Glycine betaine/proline	-0.165	0.2619
JW2655	<i>ygaX</i>	Pseudogene, major function	-0.0131	0.726
JW2657	<i>ygaZ</i>	Putative L-valine export	0.0515	0.2581
JW2658	<i>ygaH</i>	Putative L-valine export	0.0602	0.108
JW2659	<i>mprA</i>	Transcriptional repressor	0.003	0.9245
JW2660	<i>emrA</i>	Multidrug efflux system	0.0166	0.419
JW2661	<i>emrB</i>	Multidrug efflux system	-0.0263	0.5089
JW2662	<i>luxS</i>	S-ribosylhomocysteine	-0.0545	0.1309
JW2663	<i>gshA</i>	Glutamate-cysteine ligase	-0.1646	0.0002
JW2664	<i>yqaA</i>	COG1238 family inner membrane	0.0555	0.0295
JW2665	<i>yqaB</i>	Fructose-1-phosphate	0.0445	0.2108
JW2667	<i>alaS</i>	Alanyl-trna synthetase	0.063	0.0685
JW2668	<i>recX</i>	Regulatory protein for recombination	0.0651	0.0248
JW2669	<i>recA</i>	DNA recombination	-0.3091	0.0034
JW2670	<i>ygaD</i>	Nicotinamide-nucleotide	0.0828	0.0286
JW2671	<i>mltB</i>	Membrane-bound lipase	-0.0261	0.4851
JW2673	<i>srlB</i>	Glucitol/sorbitol-specific	-0.0469	0.4082
JW2674	<i>srlD</i>	Sorbitol-6-phosphate	-0.009	0.7525
JW2675	<i>gutM</i>	Sorbitol-responsive	0.0535	0.1679
JW2676	<i>srlR</i>	Sorbitol-inducible sensor	-0.0862	0.1303
JW2680	<i>norV</i>	Anaerobic nitric oxide	0.0545	0.2316
JW2681	<i>norW</i>	NADH:flavorubredoxin	-0.1069	0.0134
JW2683	<i>hydN</i>	Formate dehydrogenase	0.2491	0
JW2686	<i>ascB</i>	Cryptic 6-phospholipase	0.0538	0.207
JW2687	<i>hycl</i>	Protease involved in hydrogenase	-0.0029	0.9314
JW2688	<i>hycH</i>	Hydrogenase 3 maturase	0.0782	0.0027
JW2689	<i>hycG</i>	Hydrogenase 3 and maturase	0.0003	0.0351
JW2690	<i>hycF</i>	Formate hydrogenlyase	0.0424	0.2997
JW2691	<i>hycE</i>	Hydrogenase 3, large subunit	-0.0671	0.1198
JW2692	<i>hycD</i>	Hydrogenase 3, medium subunit	-0.0515	0.0811
JW2693	<i>hycC</i>	Hydrogenase 3, medium subunit	0.0696	0.1588
JW2694	<i>hycB</i>	Hydrogenase 3, Fe-S	0.022	0.6175
JW2695	<i>hycA</i>	Regulator of the transcription	-0.0231	0.4232
JW2696	<i>hypA</i>	Protein involved in hydrogenase	0.0317	0.5362
JW2697	<i>hypB</i>	GTP hydrolase involved in	0.0316	0.4814
JW2698	<i>hypC</i>	Hydrogenase maturase	-0.0041	0.8465
JW2699	<i>hypD</i>	Hydrogenase maturase	0.1448	0.0275
JW2700	<i>hypE</i>	Carbamoyl dehydratase	0.0134	0.7693
JW2701	<i>fhIA</i>	Formate hydrogenlyase	0.026	0.2524
JW2702	<i>ygbA</i>	Uncharacterized protein	0.02	0.4663
JW2703	<i>mutS</i>	Methyl-directed mismatch	-0.007	0.8219
JW2704	<i>pphB</i>	Serine/threonine-specific	0.0212	0.4275

JW2705	<i>ygbI</i>	Deor family putative	0.0471	0.4489
JW2706	<i>ygbJ</i>	Putative dehydroger	-0.0097	0.8679
JW2707	<i>ygbK</i>	Flia-regulated DUF15	0.0005	0.989
JW2708	<i>ygbL</i>	Putative class II aldo	-0.0371	0.4045
JW2709	<i>ygbM</i>	Putative hydroxypyr	-0.0114	0.6943
JW2710	<i>ygbN</i>	Putative transporter	0.0255	0.6103
JW2712	<i>nlpD</i>	Activator of amic mu	0.1503	0.0177
JW2713	<i>pcm</i>	L-isoaspartate prote	0.0165	0.6681
JW2714	<i>surE</i>	Broad specificity 5'(:	0.0114	0.7167
JW2715	<i>truD</i>	Trna(Glu) pseudouri	-0.0237	0.5832
JW2719	<i>ygbE</i>	DUF3561 family inn	0.0477	0.2328
JW2720	<i>cysC</i>	Adenosine 5'-phosp	0.0022	0.9434
JW2721	<i>cysN</i>	Sulfate adenylyltrans	0.0562	0.0888
JW2722	<i>cysD</i>	Sulfate adenylyltrans	-0.0526	0.1426
JW2723	<i>iap</i>	Aminopeptidase in a	0.0872	0.0764
JW2725	<i>ygbT</i>	Multifunctional end	0.0641	0.0319
JW2726	<i>ygcH</i>	CRISPR RNA precurs	0.0213	0.6384
JW2728	<i>ygcJ</i>	CRISP RNA (crrna) cc	0.0355	0.2601
JW2729	<i>ygcK</i>	CRISP RNA (crrna) cc	0.0094	0.8274
JW2730	<i>ygcL</i>	CRISP RNA (crrna) cc	-0.056	0.2611
JW2731	<i>ygcB</i>	Cascade complex an	0.012	0.8167
JW2732	<i>cysH</i>	Phosphoadenosine	0.0358	0.103
JW2733	<i>cysI</i>	Sulfite reductase, be	0	0.9991
JW2734	<i>cysJ</i>	Sulfite reductase, alç	0.0181	0.4699
JW2735	<i>ygcM</i>	6-pyruvoyl tetrahydi	-0.0595	0.0382
JW2736	<i>ygcN</i>	Putative oxidoreduc	-0.0216	0.6457
JW2737	<i>ygcO</i>	Putative 4Fe-4S clus	-0.0158	0.6343
JW2738	<i>ygcP</i>	Putative antitermina	-0.0465	0.1225
JW2746	<i>yqcE</i>	Putative MFS transp	-0.0093	0.7754
JW2748	<i>ygcF</i>	7-carboxy-7-deazagi	-0.0045	0.8793
JW2752	<i>mazG</i>	Nucleoside triphosp	0.0257	0.4659
JW2753	<i>chpA</i>	Mrna interferase tox	-0.0039	0.9392
JW2755	<i>relA</i>	(p)ppgpp synthetası	0.0418	0.1676
JW2756	<i>rumA</i>	23S rrna m(5)U193ç	-0.0441	0.1709
JW2757	<i>barA</i>	Hybrid sensory histi	-0.0724	0.1453
JW2758	<i>gudD</i>	D-glucarate dehydra	0.0644	0.0644
JW2759	<i>gudX</i>	Glucarate dehydrata	0.052	0.2032
JW2760	<i>gudP</i>	Putative D-glucarate	-0.0934	0.0079
JW2761	<i>yqcA</i>	Short-chain flavodo:	-0.062	0.0032
JW2762	<i>yqcB</i>	Trna(Ile1,Asp) pseuc	0.0342	0.3596
JW2763	<i>yqcC</i>	DUF446 family protı	-0.0157	0.6183
JW2764	<i>syd</i>	Secy-interacting prof	0.0212	0.4908
JW2765	<i>yqcD</i>	7-cyano-7-deazagua	0.0891	0.1307
JW2766	<i>ygdH</i>	Pyrimidine/purine nı	0.1002	0.0008
JW2767	<i>sdaC</i>	Putative serine trans	0.1326	0.0014

JW2768	<i>sdaB</i>	L-serine dehydratase	0.0422	0.1163
JW2770	<i>fucO</i>	L-1,2-propanediol o	0.0743	0.0779
JW2771	<i>fucA</i>	L-fuculose-1-phosp	0.0736	0.1091
JW2772	<i>fucP</i>	L-fucose transporter	0.0941	0.0003
JW2773	<i>fucI</i>	L-fucose isomerase	0.0374	0.2573
JW2774	<i>fucK</i>	L-fuculokinase	0.0218	0.5427
JW2775	<i>fucU</i>	L-fucose mutarotase	0.0437	0.3357
JW2776	<i>fucR</i>	L-fucose operon act	-0.0818	0.1068
JW2777	<i>ygdE</i>	23S rna C2498 2'-C	-0.0039	0.9243
JW2778	<i>ygdD</i>	UPF0382 family inn	0.0825	0.0164
JW2779	<i>gcvA</i>	Glycine cleavage sys	0.0101	0.6913
JW2781	<i>csdA</i>	Cysteine sulfinate de	0.0503	0.2882
JW2782	<i>ygdK</i>	Csda-binding activat	0.0129	0.5507
JW2783	<i>ygdL</i>	Trna threonylcarbar	0.0354	0.3484
JW2784	<i>mltA</i>	Membrane-bound ly	-0.0282	0.4071
JW2786	<i>argA</i>	Amino acid N-acetyl	0.0654	0.1168
JW2787	<i>recD</i>	Exonuclease V (recb	-0.1991	0.0012
JW2788	<i>recB</i>	Exonuclease V (recb	-0.0227	0.4877
JW2789	<i>ptr</i>	Protease 3	0.146	0.0009
JW2790	<i>recC</i>	Exonuclease V (recb	-0.0324	0.3326
JW2791	<i>ppdC</i>	Putative prepilin pe	-0.012	0.6783
JW2794	<i>ppdA</i>	Putative prepilin pe	0.0393	0.0917
JW2795	<i>thyA</i>	Thymidylate synthet	0.0009	0.0065
JW2797	<i>ptsP</i>	PEP-protein phosph	-0.0199	0.6737
JW2798	<i>nudH</i>	RNA pyrophosphoh	0.0161	0.619
JW2799	<i>mutH</i>	Methyl-directed mis	-0.0799	0.0588
JW2800	<i>ygdQ</i>	UPF0053 family inn	0.0631	0.0477
JW2801	<i>ygdR</i>	DUF903 family verifi	-0.1561	0.0154
JW2802	<i>tas</i>	Putative NADP(H)-d	-0.0602	0.0601
JW2803	<i>ygeD</i>	Lysophospholipid tr	0.0059	0.8986
JW2804	<i>aas</i>	Fused 2-acylglycero	0.0624	0.0019
JW2805	<i>galR</i>	Galactose-inducible	-0.1186	0.0161
JW2806	<i>lysA</i>	Diaminopimelate der	0.0246	0.6348
JW2807	<i>lysR</i>	Transcriptional activ	-0.1195	0.1635
JW2808	<i>ygeA</i>	Asp/Glu_racemase f	-0.0397	0.368
JW2809	<i>araE</i>	Arabinose transport	0.0396	0.1543
JW2810	<i>kduD</i>	2-dehydro-3-deoxy-	-0.0552	0.1988
JW2811	<i>kduI</i>	Hexuronate isomera	-0.0947	0.0529
JW2813	<i>yqeG</i>	Putative transporter	-0.0385	0.5636
JW2815	<i>yqeI</i>	Putative transcriptio	0.029	0.2946
JW2817	<i>yqeK</i>	Uncharacterized pro	-0.0273	0.5006
JW2818	<i>ygeF</i>	Pseudogene	-0.0295	0.2901
JW2819	<i>ygeG</i>	Sycd-like chaperone	0.0659	0.0463
JW2820	<i>ygeH</i>	Putative transcriptio	-0.014	0.66
JW2824	<i>ygeL</i>	CP4-44 prophage; p	-0.0571	0.1548

JW2831	<i>ygeP</i>	Pseudogene, glycosy	0.0654	0.0827
JW2833	<i>ygeR</i>	Lysm domain-contai	-0.0677	0.0938
JW2835	<i>xdhB</i>	Xanthine dehydroge	-0.0932	0.0127
JW2836	<i>xdhC</i>	Xanthine dehydroge	-0.0055	0.8956
JW2837	<i>ygeV</i>	Putative sigma-54-ir	-0.0806	0.0068
JW2839	<i>ygeX</i>	2,3-diaminopropion	-0.0033	0.9488
JW2840	<i>ygeY</i>	Putative peptidase	-0.0354	0.2497
JW2842	<i>yqeA</i>	Putative amino acid	-0.0185	0.5182
JW2843	<i>yqeB</i>	Xdhc-coxi family prc	0.0367	0.0183
JW2845	<i>ygfJ</i>	CTP:molybdopterin r	0.0284	0.4855
JW2848	<i>ygfM</i>	Putative oxidoreduc	-0.0979	0.0474
JW2849	<i>xdhD</i>	Putative hypoxanthi	-0.0281	0.5463
JW2850	<i>ygfO</i>	Xanthine permease	-0.0102	0.8406
JW2857	<i>idi</i>	Isopentenyl diphosp	-0.0386	0.1705
JW2858	<i>lysS</i>	Lysine trna syntheta	-0.0735	0.1835
JW2860	<i>recJ</i>	Ssdna exonuclease, !	0.0372	0.2632
JW2862	<i>xerD</i>	Site-specific tyrosine	0.1678	0
JW2863	<i>fldB</i>	Flavodoxin 2	0.0366	0.3536
JW2864	<i>ygfX</i>	Inner membrane pro	-0.0136	0.7049
JW2865	<i>ygfY</i>	Flavinator of succin	0.046	0.1489
JW2866	<i>ygfZ</i>	Iron-sulfur cluster r	-0.373	0
JW2868	<i>yqfB</i>	UPF0267 family pro	0.0019	0.96
JW2869	<i>bgIA</i>	6-phospho-beta-glu	0.0314	0.2791
JW2870	<i>ygfF</i>	Putative NAD(P)-de	-0.0331	0.4277
JW2871	<i>gcvP</i>	Glycine decarboxyla	-0.0779	0.085
JW2872	<i>gcvH</i>	Glycine cleavage syst	-0.0115	0.8554
JW2874	<i>visC</i>	2-octaprenylphenol	0.01	0.781
JW2875	<i>ubiH</i>	2-octaprenyl-6-metl	-0.0917	0.0122
JW2878	<i>zapA</i>	Ftsz stabilizer	-0.0149	0.7094
JW2879	<i>ygfA</i>	5-formyltetrahydrof	-0.05	0.2057
JW2880	<i>serA</i>	D-3-phosphoglycer	0.0418	0.2773
JW2882	<i>yqfE</i>	Pseudogene, lysr far	0.0026	0.9376
JW2883	<i>argP</i>	Transcriptional regul	0.048	0.3303
JW2885	<i>argK</i>	Membrane atpase/p	-0.1024	0.0286
JW2886	<i>ygfG</i>	Methylmalonyl-coa r	-0.0044	0.8645
JW2887	<i>ygfH</i>	Propionyl-coa:succii	-0.0236	0.6028
JW2889	<i>yggE</i>	Oxidative stress def	0.0302	0.4667
JW2891	<i>mscS</i>	Mechanosensitive cl	0.0407	0.1936
JW2894	<i>epd</i>	D-erythrose 4-phosj	-0.0767	0.0296
JW2895	<i>yggC</i>	Putative pank family	0.0364	0.4825
JW2896	<i>yggD</i>	Fumarase E; mtlr far	0.1363	0.0087
JW2897	<i>yggF</i>	Fructose 1,6 bispho	0.0525	0.3046
JW2900	<i>cmtA</i>	Putative mannitol-s	-0.0161	0.4705
JW2901	<i>cmtB</i>	Putative mannitol-s	-0.0528	0.3874
JW2903	<i>yggG</i>	Phe-Phe periplasmic	0.0236	0.6649

JW2904	<i>speB</i>	Agmatinase	0.0366	0.1061
JW2905	<i>speA</i>	Biosynthetic arginin	0.0027	0.9491
JW2906	<i>yqgB</i>	Uncharacterized pro	-0.0059	0.8495
JW2907	<i>yqgC</i>	Uncharacterized pro	-0.0052	0.8036
JW2910	<i>galP</i>	D-galactose transpo	-0.0829	0
JW2911	<i>sprT</i>	Zn-dependent metal	0.0109	0.7658
JW2912	<i>endA</i>	DNA-specific endon	0.0977	0.1298
JW2913	<i>yggJ</i>	16S rRNA m(3)U149	0	0.999
JW2914	<i>gshB</i>	Glutathione synthet	-0.1027	0.0119
JW2915	<i>yqgE</i>	Uncharacterized pro	0.0261	0.3972
JW2917	<i>yggR</i>	Putative pilt family A	-0.0221	0.6135
JW2918	<i>yggS</i>	UPF0001 family pro	-0.0099	0.737
JW2919	<i>yggT</i>	Putative inner memt	-0.0619	0.1593
JW2921	<i>yggV</i>	Ditp/XTP pyrophos	0.012	0.8294
JW2922	<i>yggW</i>	Hemn family putativ	0.0679	0.1092
JW2924	<i>ansB</i>	Periplasmic L-aspara	0.2037	0.0009
JW2925	<i>yggN</i>	DUF2884 family put	-0.0387	0.2298
JW2926	<i>yggL</i>	DUF469 family prot	0.0058	0.8814
JW2927	<i>yggH</i>	Trna m(7)G46 meth	0.0354	0.4313
JW2928	<i>mutY</i>	Adenine DNA glycos	-0.0839	0.058
JW2929	<i>yggX</i>	Oxidative damage pr	0.0818	0.0056
JW2932	<i>nupG</i>	Nucleoside transpor	0.0332	0.4163
JW2934	<i>yqgA</i>	DUF554 family puta	0.1192	0.0394
JW2935	<i>yghD</i>	Putative membrane-	-0.0109	0.6928
JW2938	<i>yghG</i>	Secretin (gspdbeta) (	0.0294	0.483
JW2939	<i>pppA</i>	Bifunctional prepilin	-0.0708	0.0548
JW2942	<i>yghK</i>	Glycolate transporte	0.0803	0.1016
JW2943	<i>glcB</i>	Malate synthase G	0.0331	0.272
JW2944	<i>glcG</i>	DUF336 family prot	-0.0476	0.1107
JW2946	<i>glcD</i>	Glycolate oxidase su	0.0468	0.1648
JW2947	<i>glcC</i>	Glc operon transcrip	-0.0162	0.5518
JW2952	<i>yghR</i>	Putative ATP-bindin	-0.0035	0.9402
JW2954	<i>yghT</i>	Putative ATP-bindin	-0.0673	0.0382
JW2955	<i>pitB</i>	Phosphate transpor	0.0323	0.3495
JW2956	<i>gss</i>	Glutathionylspermic	0.0172	0.6429
JW2958	<i>hybG</i>	Hydrogenase 2 acce	0.0143	0.807
JW2960	<i>hybE</i>	Hydrogenase 2-spec	-0.0398	0.19
JW2961	<i>hybD</i>	Maturation proteas	-0.0631	0.0796
JW2962	<i>hybC</i>	Hydrogenase 2, larg	-0.0639	0.1417
JW2964	<i>hybA</i>	Hydrogenase 2 4Fe-	-0.0213	0.6286
JW2965	<i>hybO</i>	Hydrogenase 2, sma	-0.0275	0.5059
JW2970	<i>yghZ</i>	L-glyceraldehyde 3- α	0.0326	0.2921
JW2971	<i>yqhA</i>	UPF0114 family put	-0.0733	0.0083
JW2972	<i>yghA</i>	Putative oxidoreduc	0.0454	0.3553
JW2973	<i>exbD</i>	Membrane spanning	-0.1472	0.0095

JW2974	<i>exbB</i>	Membrane spanning	0.0922	0.0123
JW2975	<i>metC</i>	Cystathionine beta-l	-0.305	0.0131
JW2976	<i>yghB</i>	General envelope m	0.006	0.852
JW2978	<i>yqhD</i>	Aldehyde reductase,	-0.0735	0.1225
JW2985	<i>sufI</i>	Cell division protein	0.0746	0.0821
JW2987	<i>parC</i>	DNA topoisomerase	0.0258	0.4515
JW2990	<i>ygiU</i>	GCU-specific mrna ii	-0.06	0.2159
JW2992	<i>ygiW</i>	Hydrogen peroxide	-0.0404	0.3417
JW2993	<i>qseB</i>	Quorum sensing DN	-0.056	0.2588
JW2994	<i>qseC</i>	Quorum sensing ser	-0.0369	0.2829
JW2995	<i>ygiZ</i>	Inner membrane pro	0.0604	0.1961
JW2996	<i>mdaB</i>	NADPH quinone red	-0.0062	0.8745
JW2997	<i>ygiN</i>	Quinol monooxygen	-0.0461	0.3249
JW2999	<i>yqiA</i>	Acyl coa esterase	-0.0246	0.4464
JW3000	<i>cpdA</i>	3',5' camp phospho	-0.0009	0.9836
JW3001	<i>yqiB</i>	DUF1249 protein yc	-0.029	0.3382
JW3002	<i>nudF</i>	ADP-ribose pyrophc	-0.0508	0.0715
JW3006	<i>ygiC</i>	ATP-Grasp family at	0.1246	0.0112
JW3007	<i>zupT</i>	4,5- DOPA-extradiol	0.0139	0.5829
JW3008	<i>ygiE</i>	Zinc transporter	0.0012	0.009
JW3011	<i>ygiL</i>	Putative fimbrial-like	0.0677	0.0498
JW3021	<i>glgS</i>	Motility and biofilm	0.0068	0.8846
JW3022	<i>yqiJ</i>	DUF1449 family inn	0.0558	0.1012
JW3023	<i>yqiK</i>	PHB family membrar	-0.0356	0.295
JW3024	<i>rfaE</i>	Heptose 7-phospha	-0.0827	0.0009
JW3025	<i>glnE</i>	Fused deadenylyltra	0.012	0.6934
JW3026	<i>ygiF</i>	Inorganic triphosph	-0.0236	0.456
JW3027	<i>htrG</i>	SH3 domain protein	0.0191	0.6793
JW3029	<i>bacA</i>	Undecaprenyl pyrop	-0.0266	0.5152
JW3030	<i>folB</i>	Dihydroneopterin al	-0.0993	0.0782
JW3031	<i>ygiH</i>	Putative glycerol-3- ϵ	0.0573	0.1545
JW3032	<i>ygiP</i>	Transcriptional activ	-0.0455	0.3893
JW3033	<i>ttdA</i>	L-tartrate dehydrata:	0.1274	0.0005
JW3034	<i>ttdB</i>	L-tartrate dehydrata:	0.1063	0.4171
JW3035	<i>ygiE</i>	L-tartrate/succinate	-0.0181	0.6538
JW3037	<i>rpsU</i>	30S ribosomal subu	-0.0606	0.0503
JW3038	<i>dnaG</i>	DNA primase	0.0454	0.2622
JW3039	<i>rpoD</i>	RNA polymerase, sig	-0.0038	0.9323
JW3040	<i>ygiF</i>	G/U mismatch-speci	0.0156	0.7953
JW3041	<i>yqiH</i>	Putative siderophori	-0.0148	0.6678
JW3042	<i>yqiJ</i>	Padr family putative	-0.0217	0.5174
JW3043	<i>aer</i>	Fused signal transdu	-0.0592	0.0615
JW3045	<i>ygiH</i>	Putative trna bindin	0.0912	0.0411
JW3046	<i>ebgR</i>	HTH-type transcripti	0.0299	0.3419
JW3048	<i>ebgC</i>	Evolved beta-D-galac	-0.0291	0.5647

JW3050	<i>ygjJ</i>	Putative periplasmic	0.0644	0.2021
JW3053	<i>ygjM</i>	Antitoxin of the hgb	0.0486	0.1376
JW3054	<i>ygjN</i>	Mrna interferase tox	0.039	0.5998
JW3057	<i>ygjQ</i>	DUF218 superfamily	-0.1216	0.005
JW3058	<i>ygjR</i>	Putative NAD(P)-deh	0.042	0.3418
JW3060	<i>sstT</i>	Serine/threonine tra	-0.0289	0.3995
JW3061	<i>ygjV</i>	Imp-ygjv family inner	-0.0294	0.366
JW3062	<i>uxaA</i>	Altronate hydrolase	-0.0271	0.5398
JW3063	<i>uxaC</i>	Uronate isomerase	0.1135	0.0093
JW3064	<i>exuT</i>	Hexuronate transpo	0.0416	0.137
JW3065	<i>exuR</i>	Hexuronate regulon	-0.0116	0.6038
JW3066	<i>yqjA</i>	General envelope mæ	0.1375	0.0243
JW3067	<i>yqjB</i>	Modulator protein r	-0.0214	0.3571
JW3069	<i>yqjD</i>	Membrane-anchore	-0.0364	0.2541
JW3071	<i>yqjK</i>	Uncharacterized pro	-0.1244	0.0132
JW3073	<i>yqjG</i>	Putative S-transferas	0.0546	0.0043
JW3074	<i>yhaH</i>	DUF805 family inner	0.1422	0.031
JW3075	<i>yhaI</i>	DUF805 family inner	-0.0399	0.3502
JW3076	<i>yhaJ</i>	Transcription regulat	0.0243	0.306
JW3077	<i>yhaK</i>	Dinitrotoluene degræ	0.082	0.3697
JW3087	<i>tdcC</i>	L-threonine/L-serine	0.0347	0.2832
JW3088	<i>tdcB</i>	L-threonine dehydra	0.0653	0.0294
JW3089	<i>tdcA</i>	Tdc operon transcrip	0.1611	0.1689
JW3091	<i>yhaB</i>	Uncharacterized pro	-0.0181	0.571
JW3092	<i>yhaC</i>	Pentapeptide repeats	0.0486	0.2508
JW3093	<i>garK</i>	Glycerate kinase I	-0.1727	0
JW3095	<i>garL</i>	Alpha-dehydro-beta	-0.0205	0.6723
JW3096	<i>garP</i>	Putative (D)-galactar	0.06	0.082
JW3097	<i>garD</i>	D-galactarate dehyd	-0.0706	0.0702
JW3098	<i>sohA</i>	Antitoxin of the soh	-0.0923	0.0475
JW3099	<i>yhaV</i>	Toxin of the soh(b(p	0.0039	0.8878
JW3100	<i>agaR</i>	Transcriptional repre	0.0768	0.2044
JW3101	<i>kbaZ</i>	Tagatose 6-phospha	-0.0451	0.3227
JW3102	<i>agaV</i>	N-acetylgalactosami	0.0649	0.0295
JW3103	<i>agaW</i>	CP4-44 prophage; p	0.0344	0.1711
JW3105	<i>agaS</i>	Tagatose-6-phosphæ	-0.01	0.8071
JW3106	<i>kbaY</i>	Tagatose 6-phospha	0.025	0.3419
JW3107	<i>agaB</i>	N-acetylgalactosami	0.0278	0.4742
JW3108	<i>agaC</i>	N-acetylgalactosami	0.0079	0.86
JW3109	<i>agaD</i>	N-acetylgalactosami	0.0468	0.3521
JW3110	<i>agal</i>	Galactosamine-6-ph	-0.0995	0.0173
JW3111	<i>yraH</i>	Putative fimbrial-like	0.0769	0.0806
JW3112	<i>yraI</i>	Putative periplasmic	0.1796	0.0002
JW3113	<i>yraJ</i>	Putative outer memt	0.0519	0.0258
JW3114	<i>yraK</i>	Putative fimbrial-like	0.0202	0.6032

JW3117	<i>yraN</i>	UPF0102 family pro	0.0519	0.0717
JW3118	<i>yraO</i>	Dnaa initiator-assoc	-0.0423	0.1762
JW3119	<i>yraP</i>	Outer membrane lipi	-0.0328	0.5629
JW3120	<i>yraQ</i>	Putative inner memt	0.0282	0.3538
JW3124	<i>yhbQ</i>	GIY-YIG nuclease su	0.0213	0.1612
JW3125	<i>yhbS</i>	GNAT family putativ	-0.0207	0.4914
JW3126	<i>yhbT</i>	SCP2 domain-contai	0.0425	0.0998
JW3127	<i>yhbU</i>	U32 peptidase famil	0.0355	0.416
JW3129	<i>yhbW</i>	Putative luciferase-li	0.0858	0.0031
JW3130	<i>mtr</i>	Tryptophan transpo	0.0513	0.1335
JW3134	<i>rpsO</i>	30S ribosomal subu	0.0266	0.171
JW3136	<i>rbfA</i>	30s ribosome bindir	-0.3504	0
JW3140	<i>argG</i>	Argininosuccinate sy	-0.0436	0.1072
JW3143	<i>glmM</i>	Phosphoglucosamir	0.0138	0.756
JW3144	<i>folP</i>	7,8-dihydropteroate	0.0626	0.0897
JW3147	<i>yhbY</i>	RNA binding protein	-0.0349	0.3449
JW3148	<i>greA</i>	Transcript cleavage f	-0.0522	0.1285
JW3149	<i>dacB</i>	D-alanyl-D-alanine c	-0.0984	0.0067
JW3151	<i>yhbE</i>	Eama family inner m	0.0163	0.6477
JW3155	<i>sfsB</i>	Malpq operon trans	-0.0701	0.1454
JW3157	<i>yrbA</i>	Acid stress protein; j	0.0963	0.0824
JW3159	<i>yrbC</i>	ABC transporter mai	-0.2489	0.0605
JW3160	<i>yrbD</i>	OM lipid asymmetry	0.0933	0.0172
JW3161	<i>yrbE</i>	ABC transporter mai	0.0763	0.1184
JW3162	<i>yrbF</i>	ABC transporter mai	0.0523	0.3222
JW3163	<i>yrbG</i>	Putative calcium/soc	-0.0014	0.9433
JW3164	<i>kdsD</i>	D-arabinose 5-phos	-0.0396	0.2582
JW3165	<i>kdsC</i>	3-deoxy-D-manno-c	0.0746	0.1027
JW3168	<i>yhbG</i>	Lipopolysaccharide r	0.0514	0.0816
JW3169	<i>rpoN</i>	RNA polymerase, sig	0.001	0.0256
JW3170	<i>yhbH</i>	Ribosome hibernatic	0.0341	0.4452
JW3171	<i>ptsN</i>	Sugar-specific enzym	0.0635	0.0146
JW3172	<i>yhbJ</i>	Adaptor protein for	-0.0819	0.0745
JW3173	<i>npr</i>	Phosphohistidinopr	-0.0232	0.6514
JW3174	<i>yrbL</i>	Mg(2+)-starvation-s	-0.0512	0.1476
JW3176	<i>elbB</i>	Isoprenoid biosynth	-0.0546	0.0547
JW3178	<i>yhcC</i>	Putative Fe-S oxidor	0.0666	0.0061
JW3179	<i>gltB</i>	Glutamate synthase,	-0.0143	0.7487
JW3180	<i>gltD</i>	Glutamate synthase,	0.0098	0.7487
JW3181	<i>gltF</i>	Periplasmic protein	0.0271	0.6361
JW3182	<i>yhcA</i>	Putative periplasmic	0.0116	0.7868
JW3183	<i>yhcD</i>	Putative outer memt	0.0608	0.3292
JW3184	<i>yhcE</i>	CP4-44 prophage; p	-0.0322	0.4351
JW3187	<i>yhcE</i>	CP4-44 prophage; p	-0.099	0.0074
JW3188	<i>yhcF</i>	Putative transcriptio	0.0762	0.1871

JW3189	<i>yhcG</i>	DUF1016 family pro	-0.0385	0.085
JW3190	<i>yhcH</i>	DUF386 family prot	0.0076	0.8679
JW3192	<i>nanE</i>	Putative N-acetylma	0.0349	0.4583
JW3193	<i>nanT</i>	Sialic acid transport	0.0209	0.4632
JW3195	<i>nanR</i>	Sialic acid-inducible	0.0531	0.2287
JW3196	<i>dcuD</i>	Putative transporter	-0.0835	0.0113
JW3197	<i>sspB</i>	Clpxp protease spec	-0.003	0.9352
JW3198	<i>sspA</i>	Stringent starvation	-0.2143	0.0002
JW3201	<i>yhcM</i>	Divisome atpase	-0.0218	0.5379
JW3203	<i>degQ</i>	Serine endoprotease	0.0516	0.1802
JW3205	<i>mdh</i>	Malate dehydrogena	-0.2868	0.0004
JW3206	<i>argR</i>	L-arginine-responsiv	-0.1021	0.1984
JW3208	<i>yhcO</i>	Putative barnase inh	0.056	0.1942
JW3209	<i>aaeB</i>	P-hydroxybenzoic ar	-0.1066	0.4324
JW3210	<i>aaeA</i>	P-hydroxybenzoic ar	0.0531	0.3872
JW3212	<i>aaeR</i>	Transcriptional regul	0.052	0.0813
JW3213	<i>tldD</i>	Putative peptidase	-0.0173	0.7311
JW3216	<i>rng</i>	Ribonuclease G	0.0097	0.8038
JW3217	<i>yhdE</i>	Dttp/UTP pyrophosj	-0.0503	0.1996
JW3221	<i>yhdA</i>	Targeting factor for c	0.0526	0.0569
JW3222	<i>yhdH</i>	Putative acryloyl-coa	-0.0624	0.0115
JW3225	<i>yhdT</i>	DUF997 family puta	-0.0129	0.6565
JW3226	<i>panF</i>	Pantothenate:sodiui	-0.0704	0.3051
JW3227	<i>prmA</i>	Methyltransferase fc	-0.0318	0.3076
JW3228	<i>dusB</i>	Trna-dihydrouridine	-0.0225	0.6458
JW3229	<i>fis</i>	Global DNA-binding	-0.0206	0.7916
JW3231	<i>yhdU</i>	Putative membrane j	0.0741	0.1218
JW3232	<i>envR</i>	Acrab operon transc	0.0355	0.3275
JW3233	<i>acrE</i>	Cytoplasmic membr:	-0.0046	0.8529
JW3234	<i>acrF</i>	Multidrug efflux sys	-0.0358	0.4058
JW3235	<i>yhdV</i>	Putative outer memk	-0.0583	0.2374
JW3236	<i>yhdW</i>	Pseudogene, ABC tra	0.0145	0.6289
JW3239	<i>yhdZ</i>	Putative amino acid	0.0589	0.0103
JW3241	<i>yrdB</i>	DUF1488 family pro	0.0119	0.7179
JW3242	<i>aroE</i>	Dehydroshikimate re	-0.0208	0.647
JW3245	<i>smg</i>	DUF494 family puta	-0.0635	0.009
JW3250	<i>rsmB</i>	16S rrna m(5)C967 i	-0.0588	0.2699
JW3251	<i>trkA</i>	NAD-binding compc	-0.1374	0.0026
JW3252	<i>mscL</i>	Mechanosensitive cl	-0.0377	0.1792
JW3253	<i>yhdL</i>	Alternate ribosome-i	-0.0448	0.3058
JW3254	<i>zntR</i>	Znta gene transcripti	0.0151	0.7407
JW3255	<i>yhdN</i>	DUF1992 family pro	0.0521	0.091
JW3261	<i>rpmJ</i>	50S ribosomal subu	-0.1077	0.0976
JW3284	<i>pioO</i>	Part of gsp divergon	-0.1514	0.0027
JW3285	<i>gspA</i>	General secretory pa	-0.199	0.007

JW3288	<i>gspE</i>	General secretary pa	-0.0001	0.9987
JW3289	<i>gspF</i>	General secretary pa	0.0094	0.7666
JW3290	<i>gspG</i>	Pseudopilin, cryptic,	-0.0619	0.1478
JW3291	<i>gspH</i>	Putative general secr	0.0339	0.2964
JW3293	<i>gspJ</i>	Putative general secr	-0.017	0.5611
JW3294	<i>gspK</i>	General secretary pa	-0.0808	0.0205
JW3297	<i>gspO</i>	Bifunctional prepilin	0.0169	0.666
JW3298	<i>bfr</i>	Bacterioferritin, iron	-0.1702	0.0076
JW3299	<i>bfd</i>	Bacterioferritin-asso	0.0107	0.7571
JW3300	<i>chiA</i>	Periplasmic endochi	-0.0771	0.064
JW3301	<i>tufA</i>	Translation elongatic	0.0433	0.3303
JW3305	<i>yheL</i>	Mnm(5)-s(2)U34-tr	-0.096	0.0035
JW3306	<i>yheM</i>	Mnm(5)-s(2)U34-tr	-0.0018	0.9684
JW3307	<i>yheN</i>	Sulfurtransferase foi	-0.0054	0.8679
JW3309	<i>fkpA</i>	FKBP-type peptidyl-l	0.0333	0.3514
JW3310	<i>slyX</i>	Phi X174 lysis prote	0.0601	0.0136
JW3311	<i>slyD</i>	FKBP-type peptidyl †	-0.273	0.0025
JW3312	<i>yheV</i>	DUF2387 family put	0.0314	0.4316
JW3313	<i>kefB</i>	Potassium:proton ai	0.0592	0.0207
JW3315	<i>yheS</i>	ABC-F family protein	0.0416	0.0859
JW3316	<i>yheT</i>	UPF0017 family put	-0.0365	0.4646
JW3317	<i>yheU</i>	UPF0270 family pro	0.0111	0.7572
JW3318	<i>prkB</i>	Putative phosphorit	0.0329	0.0959
JW3319	<i>yhfA</i>	Osmc family protein	0.012	0.6338
JW3322	<i>argD</i>	Bifunctional acetyloi	0.12	0.0438
JW3323	<i>pabA</i>	Aminodeoxychorisr	-0.2237	0
JW3324	<i>fic</i>	Stationary phase-inc	0.0135	0.6733
JW3325	<i>yhfG</i>	Putative antitoxin fo	0.0151	0.632
JW3326	<i>ppiA</i>	Peptidyl-prolyl cis-tr	0.0085	0.7084
JW3327	<i>tsgA</i>	Putative transporter	-0.1586	0.1887
JW3328	<i>nirB</i>	Nitrite reductase, lar	-0.0588	0.015
JW3329	<i>nirD</i>	Nitrite reductase (N/	0.0442	0.0424
JW3330	<i>nirC</i>	Nitrite transporter	0.0638	0.1358
JW3331	<i>cysG</i>	Fused siroheme synt	-0.0877	0.0026
JW3332	<i>yhfL</i>	Small lipoprotein	-0.071	0.0639
JW3333	<i>frlA</i>	Putative fructoselysi	-0.0154	0.7479
JW3337	<i>frlD</i>	Fructoselysine 6-kin	0.0173	0.691
JW3340	<i>yhfT</i>	Inner membrane pro	-0.0106	0.7484
JW3342	<i>php</i>	Phosphotriesterase	0.1252	0.1693
JW3343	<i>yhfW</i>	Phosphopentomuta	-0.0144	0.6436
JW3344	<i>yhfX</i>	Putative pyridoxal 5'	0.0207	0.6729
JW3348	<i>gph</i>	Phosphoglycolate pl	0.1349	0.0005
JW3349	<i>rpe</i>	D-ribulose-5-phosp	-0.1172	0.0008
JW3350	<i>dam</i>	DNA adenine methyl	0.0636	0.132
JW3351	<i>damX</i>	Cell division protein	0.1387	0

JW3352	<i>aroB</i>	3-dehydroquinate s	0.1112	0.026
JW3354	<i>hofQ</i>	DNA catabolic putat	0.0475	0.4329
JW3356	<i>yrfB</i>	DNA catabolic prote	0.0598	0.0436
JW3357	<i>yrfC</i>	DNA catabolic putat	0.0094	0.7177
JW3359	<i>mrcA</i>	Penicillin-binding pr	-0.0457	0.093
JW3360	<i>nudE</i>	Adenosine nucleotic	-0.0093	0.7194
JW3363	<i>hslR</i>	Ribosome-associate	-0.0898	0.0186
JW3365	<i>yhgE</i>	DUF4153 family put	0.0902	0.0746
JW3366	<i>pck</i>	Phosphoenolpyruva	-0.08	0.0886
JW3367	<i>envZ</i>	Sensory histidine kir	-0.2475	0.0695
JW3368	<i>ompR</i>	Response regulator i	0.0862	0.117
JW3369	<i>greB</i>	Transcript cleavage f	0.0325	0.0675
JW3370	<i>yhgF</i>	Putative transcriptio	-0.0288	0.0347
JW3371	<i>feoA</i>	Ferrous iron transpc	-0.0315	0.4575
JW3372	<i>feoB</i>	Ferrous iron transpc	-0.041	0.2954
JW3373	<i>yhgG</i>	Putative DNA-bindir	-0.0411	0.3061
JW3374	<i>yhgA</i>	Transposase_31 farr	-0.1253	0.0383
JW3375	<i>bioH</i>	Pimeloyl-ACP methy	0.1937	0.0003
JW3377	<i>gntY</i>	Fe/S biogenesis prot	-0.0887	0.0037
JW3379	<i>malQ</i>	4-alpha-glucanotran	-0.0227	0.5882
JW3381	<i>malT</i>	Mal regulon transcri	-0.02	0.4877
JW3384	<i>rtcB</i>	RNA-splicing ligase	-0.0048	0.8797
JW3385	<i>rtcR</i>	Sigma 54-dependent	-0.0405	0.0316
JW3386	<i>glpR</i>	Pseudogene, DNA-b	-0.0041	0.901
JW3388	<i>glpE</i>	Thiosulfate:cyanide :	0.107	0.0064
JW3389	<i>glpD</i>	Sn-glycerol-3-phosp	0.0423	0.4555
JW3390	<i>yzgL</i>	Pseudogene, peripla	-0.0078	0.8515
JW3392	<i>glgA</i>	Glycogen synthase	0.0143	0.7996
JW3393	<i>glgC</i>	Glucose-1-phospha	-0.1134	0.0232
JW3394	<i>glgX</i>	Glycogen debranchii	-0.1233	0.0099
JW3395	<i>glgB</i>	1,4-alpha-glucan br	-0.0293	0.1904
JW3397	<i>yhgN</i>	UPF0056 family inn	0.0148	0.7062
JW3400	<i>gntK</i>	Gluconate kinase 2	0.0015	0.9529
JW3402	<i>yhhW</i>	Quercetinase activity	-0.0412	0.4314
JW3405	<i>yhhY</i>	L-amino acid N-acety	0.0791	0.0283
JW3406	<i>yhhZ</i>	Putative Hcp1 family	0.003	0.8868
JW3411	<i>yrhB</i>	Stable heat shock ch	0.002	0.8714
JW3412	<i>ggt</i>	Gamma-glutamyltrar	0.0264	0.2163
JW3413	<i>yhhA</i>	DUF2756 family pro	0.0944	0.052
JW3414	<i>ugpQ</i>	Glycerophosphodie:	0.022	0.2756
JW3415	<i>ugpC</i>	Sn-glycerol-3-phosp	-0.2898	0
JW3416	<i>ugpE</i>	Sn-glycerol-3-phosp	0.0968	0.3218
JW3417	<i>ugpA</i>	Sn-glycerol-3-phosp	0.0693	0.1625
JW3418	<i>ugpB</i>	Sn-glycerol-3-phosp	0.1001	0.0048
JW3419	<i>livF</i>	Branched-chain amii	-0.0161	0.6035

JW3420	<i>livG</i>	Branched-chain amii	0.0633	0.0916
JW3421	<i>livM</i>	Branched-chain amii	0.1273	0.0095
JW3422	<i>livH</i>	Branched-chain amii	-0.0115	0.8237
JW3423	<i>livK</i>	Leucine transporter	-0.0337	0.2434
JW3424	<i>yhhK</i>	Pand autocleavage a	0.0762	0.2615
JW3425	<i>livJ</i>	Branched-chain amii	0.0499	0.0395
JW3432	<i>yhhM</i>	DUF2500 family pro	-0.0286	0.3845
JW3433	<i>yhhN</i>	TMEM86 family put:	-0.0177	0.6688
JW3434	<i>zntA</i>	Zinc, cobalt and lead	-0.0588	0.3069
JW3435	<i>yhhP</i>	Mnm(5)-s(2)U34-tr	-0.0503	0.0956
JW3440	<i>acpT</i>	4'-phosphopantethi	-0.0522	0.147
JW3441	<i>nikA</i>	Nickel/heme ABC tra	-0.0148	0.6728
JW3442	<i>nikB</i>	Nickel ABC transpor	0.0662	0.0223
JW3443	<i>nikC</i>	Nickel ABC transpor	0.0047	0.9317
JW3444	<i>nikD</i>	Nickel ABC transpor	-0.0878	0.0316
JW3445	<i>nikE</i>	Nickel ABC transpor	0.0533	0.1222
JW3446	<i>nikR</i>	Transcriptional repre	0.0236	0.3363
JW3449	<i>yhhH</i>	Putative NTF2 fold ir	-0.0999	0.0458
JW3451	<i>yhhI</i>	Putative transposasi	-0.1571	0.0099
JW3454	<i>yhiI</i>	Putative membrane i	-0.092	0.016
JW3455	<i>yhiJ</i>	DUF4049 family pro	0.0553	0.1644
JW3457	<i>yhiL</i>	Uncharacterized pro	0.0291	0.5483
JW3459	<i>yhiN</i>	Putative oxidoreduc	0.0774	0.0061
JW3460	<i>pitA</i>	Phosphate transpor	-0.0532	0.1787
JW3461	<i>yhiO</i>	Universal stress (eth	-0.0241	0.1737
JW3462	<i>uspA</i>	Universal stress glot	0.0364	0.3743
JW3463	<i>yhiP</i>	Dipeptide and tripeç	0.0691	0.4542
JW3465	<i>prlC</i>	Oligopeptidase A	-0.0695	0.1069
JW3467	<i>gor</i>	Glutathione oxidore	0.108	0.0265
JW3468	<i>arsR</i>	Arsenical resistance	0.0472	0.2944
JW3469	<i>arsB</i>	Arsenite/antimonite	-0.0479	0.3716
JW3470	<i>arsC</i>	Arsenate reductase	-0.0598	0.0145
JW3471	<i>yhiS</i>	Pseudogene	0.1193	0.1116
JW3474	<i>slp</i>	Outer membrane lipi	0.0447	0.1131
JW3478	<i>hdeA</i>	Stress response prot	0.0121	0.7821
JW3479	<i>hdeD</i>	Acid-resistance men	0.0074	0.7825
JW3480	<i>gadE</i>	Gad regulon transcri	0.0622	0.1526
JW3481	<i>mdtE</i>	Anaerobic multidrug	0.0386	0.1676
JW3482	<i>mdtF</i>	Anaerobic multidrug	0.0447	0.2706
JW3483	<i>gadW</i>	Transcriptional activ	-0.0446	0.1002
JW3484	<i>gadX</i>	Acid resistance regul	0.09	0.1959
JW3485	<i>gadA</i>	Glutamate decarbox	-0.0278	0.4039
JW3486	<i>yhjA</i>	Cytochrome c perox	-0.0374	0.5712
JW3487	<i>treF</i>	Cytoplasmic trehalas	-0.0986	0.0236
JW3489	<i>yhjC</i>	Lysr family putative i	0.0877	0.0392

JW3491	<i>yhjE</i>	Putative MFS transp	0.0225	0.6694
JW3492	<i>yhjG</i>	Putative inner memt	-0.02	0.4744
JW3495	<i>yhjJ</i>	Putative periplasmic	0.0223	0.6556
JW3496	<i>dctA</i>	C4-dicarboxylic acid	0.0517	0.1876
JW3499	<i>bcsZ</i>	Endo-1,4-D-glucana	-0.0453	0.3791
JW3503	<i>yhjR</i>	DUF2629 family pro	0.0178	0.6229
JW3504	<i>bcsE</i>	Cellulose productior	-0.1841	0
JW3506	<i>bcsG</i>	DUF3260 family cell	-0.0469	0.2552
JW3508	<i>yhjV</i>	Putative transporter	0.0256	0.5442
JW3509	<i>dppF</i>	Dipeptide/heme ABC	0.0557	0.1363
JW3510	<i>dppD</i>	Dipeptide/heme ABC	0.0633	0.0366
JW3511	<i>dppC</i>	Dipeptide transport	-0.0596	0.0639
JW3512	<i>dppB</i>	Dipeptide/heme ABC	0.0442	0.1196
JW3513	<i>dppA</i>	Dipeptide/heme ABC	-0.0382	0.4897
JW3516	<i>yhjX</i>	Putative MFS antipc	-0.0667	0.053
JW3518	<i>tag</i>	3-methyl-adenine DI	-0.0269	0.5064
JW3519	<i>viaC</i>	GNAT family putativ	-0.0992	0.0712
JW3524	<i>viaG</i>	HTH_CROC1 family r	0.0105	0.7993
JW3525	<i>cspA</i>	RNA chaperone and	-0.0147	0.6899
JW3526	<i>hokA</i>	Toxic polypeptide, s	-0.1809	0.0018
JW3530	<i>glyS</i>	Glycine trna synthet	-0.0542	0.2198
JW3532	<i>ysaB</i>	Uncharacterized pro	-0.0693	0.1759
JW3533	<i>viaH</i>	O-acetyltransferase i	0.0281	0.4688
JW3534	<i>viaA</i>	Yiaab family inner m	-0.0185	0.5352
JW3536	<i>xylB</i>	Xylulokinase	-0.1032	0.0037
JW3537	<i>xylA</i>	D-xylose isomerase	0.0146	0.503
JW3538	<i>xylF</i>	D-xylose transportei	0.0967	0.0686
JW3539	<i>xylG</i>	D-xylose ABC transp	-0.0615	0.0236
JW3540	<i>xylH</i>	D-xylose ABC transp	-0.0362	0.2468
JW3541	<i>xylR</i>	Xylose divergent opε	-0.005	0.9014
JW3543	<i>malS</i>	Alpha-amylase	0.0947	0.1578
JW3545	<i>yiaI</i>	Putative hydrogenas	0.0405	0.1763
JW3546	<i>yiaJ</i>	Transcriptional reprε	-0.0788	0.4546
JW3547	<i>yiaK</i>	2,3-diketo-L-gulonai	-0.0272	0.478
JW3548	<i>yiaL</i>	DUF386 family prot	-0.0089	0.7135
JW3549	<i>yiaM</i>	2,3-diketo-L-gulonai	-0.0022	0.9374
JW3551	<i>yiaO</i>	2,3-diketo-L-gulonai	0.5996	0.0047
JW3552	<i>lyxK</i>	L-xylulose kinase	-0.0476	0.2286
JW3553	<i>sgbH</i>	3-keto-L-gulonate 6-	0.0247	0.4148
JW3555	<i>sgbE</i>	L-ribulose-5-phospt	-0.0497	0.2148
JW3557	<i>yiaU</i>	Putative DNA-bindir	-0.0081	0.8394
JW3558	<i>yiaV</i>	Signal-anchored mer	0.031	0.6892
JW3559	<i>yiaW</i>	DUF3302 family inn	-0.0111	0.7257
JW3561	<i>aldB</i>	Aldehyde dehydroge	0.0392	0.2789
JW3563	<i>selB</i>	Selenocysteinyl-trna	0.0997	0.0384

JW3564	<i>selA</i>	Selenocysteine syntf	0.0192	0.1173
JW3565	<i>yibF</i>	Glutathione S-transf	-0.0286	0.4798
JW3566	<i>rhsA</i>	Rhs protein with pu	-0.0031	0.9326
JW3568	<i>yibA</i>	Putative immunity p	0.0237	0.6415
JW3570	<i>yibG</i>	TPR-like repeat prote	-0.0047	0.8991
JW3571	<i>yibH</i>	Putative membrane i	-0.057	0.0877
JW3572	<i>yibI</i>	DUF3302 family inn	-0.0366	0.3645
JW3573	<i>mtIA</i>	Mannitol-specific P1	-0.0813	0.0707
JW3574	<i>mtID</i>	Mannitol-1-phosph	-0.064	0.1163
JW3575	<i>mtIR</i>	Mannitol operon re	0.0834	0.0035
JW3576	<i>yibT</i>	Uncharacterized pro	0.0445	0.2938
JW3577	<i>yibL</i>	Ribosome-associate	0.0148	0.6692
JW3578	<i>lldP</i>	L-lactate permease	0.0677	0.1802
JW3579	<i>lldR</i>	Dual role activator/r	-0.0068	0.8286
JW3580	<i>lldD</i>	L-lactate dehydroger	-0.1387	0.0772
JW3581	<i>yibK</i>	Trna Leu mc34,mu3	0.0924	0.0366
JW3582	<i>cysE</i>	Serine acetyltransfer	-0.0349	0.1363
JW3584	<i>secB</i>	Protein export chap	-0.0321	0.1263
JW3585	<i>grxC</i>	Glutaredoxin 3	0.102	0.0129
JW3586	<i>yibN</i>	Putative rhodanese-	-0.0041	0.9085
JW3587	<i>gpml</i>	Phosphoglycero mu	0.1302	0.0062
JW3590	<i>yibD</i>	LPS(hepiii)-glucuron	0.0149	0.7919
JW3591	<i>tdh</i>	L-threonine 3-dehyc	0.1607	0.0025
JW3592	<i>kbl</i>	Glycine C-acetyltran:	0.0501	0.1865
JW3596	<i>rfaC</i>	ADP-heptose:LPS he	0.2006	0
JW3599	<i>rfaZ</i>	Lipopolysaccharide l	0.0517	0.0593
JW3601	<i>rfaJ</i>	Lipopolysaccharide :	-0.0025	0.9609
JW3602	<i>rfaI</i>	UDP-D-galactose:(gl	-0.0232	0.2438
JW3603	<i>rfaB</i>	Lipopolysaccharide :	-0.0183	0.4291
JW3604	<i>rfaS</i>	Lipopolysaccharide i	-0.0072	0.8461
JW3610	<i>mutM</i>	Formamidopyrimidir	-0.0049	0.894
JW3611	<i>rpmG</i>	50S ribosomal subu	0.0209	0.602
JW3617	<i>pyrE</i>	Orotate phosphorib	-0.0167	0.7466
JW3618	<i>rph</i>	Ribonuclease PH (de	-0.0467	0.272
JW3619	<i>yicC</i>	UPF0701 family pro	-0.0871	0.0405
JW3620	<i>dinD</i>	DNA damage-inducil	0.0239	0.3924
JW3621	<i>yicG</i>	UPF0126 family inn	-0.0092	0.8309
JW3622	<i>ligB</i>	DNA ligase, NAD(+)-r	-0.0001	0.9955
JW3624	<i>rpoZ</i>	RNA polymerase, orr	-0.1039	0.0047
JW3626	<i>trmH</i>	Trna mg18-2'-O-met	-0.0267	0.4914
JW3627	<i>recG</i>	ATP-dependent DNA	-0.0017	0.9618
JW3628	<i>gltS</i>	Glutamate transport	0.0393	0.3754
JW3629	<i>yicE</i>	Xanthine permease	0.1217	0.0561
JW3630	<i>yicH</i>	Putative inner memt	-0.0092	0.786
JW3631	<i>yicI</i>	Putative alpha-gluco	0.0611	0.0076

JW3633	<i>setC</i>	Putative arabinose e	0.0162	0.7136
JW3634	<i>yicL</i>	Eama family inner m	-0.0068	0.7636
JW3635	<i>nlpA</i>	Cytoplasmic membr:	0.0469	0.1388
JW3641	<i>uhpT</i>	Hexose phosphate t	0.0389	0.3091
JW3642	<i>uhpC</i>	Membrane protein r	0.0214	0.4066
JW3643	<i>uhpB</i>	Sensory histidine kir	0.0146	0.6425
JW3644	<i>uhpA</i>	Response regulator i	0.0383	0.4334
JW3645	<i>ilvN</i>	Acetolactate synthas	0.0302	0.3962
JW3646	<i>ilvB</i>	Acetolactate synthas	0.1549	0.0068
JW3647	<i>ivbL</i>	Ilvb operon leader p	-0.0244	0.6146
JW3650	<i>yidF</i>	Putative Cys-type ox	0.0285	0.1511
JW3651	<i>yidG</i>	Inner membrane pro	-0.0034	0.9248
JW3652	<i>yidH</i>	DUF202 family inner	-0.0037	0.9
JW3653	<i>yidI</i>	Inner membrane pro	0.0081	0.7891
JW3654	<i>yidJ</i>	Sulfatase/phosphat	0.0575	0.1523
JW3656	<i>yidL</i>	Arac family putative	-0.0034	0.8777
JW3658	<i>glvG</i>	CP4-44 prophage; p	0.0474	0.1081
JW3659	<i>glvB</i>	Pseudogene, arbutir	-0.0537	0.1641
JW3660	<i>glvC</i>	Putative permease III	0.0335	0.2694
JW3661	<i>yidP</i>	UTRA domain-conta	0.0139	0.6474
JW3662	<i>yidE</i>	Putative transporter	0.0108	0.8294
JW3663	<i>ibpB</i>	Heat shock chaperoi	-0.0337	0.3791
JW3664	<i>ibpA</i>	Heat shock chaperoi	-0.0573	0.2489
JW3670	<i>dgoK</i>	2-oxo-3-deoxygalact	0.0182	0.6966
JW3675	<i>yidB</i>	DUF937 family prot	-0.0473	0.0889
JW3677	<i>recF</i>	Gap repair protein	-0.0922	0
JW3682	<i>yidD</i>	Membrane protein ii	-0.0402	0.075
JW3684	<i>trmE</i>	Trna U34 5-methyla	-0.0495	0.1445
JW3685	<i>tnaC</i>	Tryptophanase lead	-0.0028	0.9295
JW3686	<i>tnaA</i>	Tryptophanase/L-cy:	-0.0219	0.5292
JW3688	<i>mdtL</i>	Multidrug efflux sys	0.0231	0.4654
JW3689	<i>yidZ</i>	Putative DNA-bindir	-0.0455	0.3723
JW3690	<i>yieE</i>	Phosphopantethein	-0.0446	0.1952
JW3691	<i>yieF</i>	Chromate reductase	-0.059	0.1701
JW3692	<i>yieG</i>	Adenine permease, r	0.0475	0.1973
JW3693	<i>yieH</i>	Phosphoenolpyruva	0.1707	0.0187
JW3694	<i>yieI</i>	PRK09823 family in	-0.0608	0.1569
JW3698	<i>bglH</i>	Carbohydrate-specif	-0.0325	0.3908
JW3699	<i>bglB</i>	Cryptic phospho-be	0.0637	0.1191
JW3700	<i>bglF</i>	Fused beta-glucosid	0.0262	0.4161
JW3702	<i>phoU</i>	Negative regulator oi	-0.0712	0.0509
JW3703	<i>pstB</i>	Phosphate ABC tran	0.1196	0.0035
JW3704	<i>pstA</i>	Phosphate ABC tran	0.0832	0.0195
JW3705	<i>pstC</i>	Phosphate ABC tran	-0.076	0.0833
JW3706	<i>pstS</i>	Phosphate ABC tran	0.0452	0.2963

JW3709	<i>atpC</i>	F1 sector of membr	-0.0768	0.1486
JW3710	<i>atpD</i>	F1 sector of membr	-0.0515	0.0688
JW3711	<i>atpG</i>	F1 sector of membr	0.0114	0.705
JW3712	<i>atpA</i>	F1 sector of membr	-0.0791	0.1252
JW3713	<i>atpH</i>	F1 sector of membr	0.1756	0.0004
JW3714	<i>atpF</i>	F0 sector of membr	-0.0422	0.3118
JW3715	<i>atpE</i>	F0 sector of membr	0.1721	0.0067
JW3716	<i>atpB</i>	F0 sector of membr	0.0744	0.0012
JW3718	<i>gidB</i>	16S rrna m(7)G527	-0.0333	0.5285
JW3719	<i>gidA</i>	5-methylaminometh	0.0358	0.2999
JW3720	<i>mioC</i>	FMN-binding protei	-0.071	0.0825
JW3721	<i>asnC</i>	Transcriptional activ	-0.0489	0.3924
JW3725	<i>yieN</i>	Hexameric AAA+ mo:	-0.0055	0.8549
JW3728	<i>rbsA</i>	D-ribose ABC transp	0.0889	0.0617
JW3729	<i>rbsC</i>	D-ribose ABC transp	0.0595	0.0514
JW3730	<i>rbsB</i>	D-ribose ABC transp	0.0156	0.5165
JW3731	<i>rbsK</i>	Ribokinase	0.0717	0.0147
JW3732	<i>rbsR</i>	Transcriptional repre	-0.0272	0.3559
JW3733	<i>hsrA</i>	Putative multidrug o	0.0496	0.2035
JW3737	<i>yifE</i>	UPF0438 family pro	-0.0067	0.8457
JW3738	<i>yifB</i>	Magnesium chelatas	0.0214	0.6396
JW3739	<i>ilvL</i>	llvg operon leader pε	0.0871	0.0608
JW3740	<i>ilvG</i>	CP4-44 prophage; p	0.0568	0.2308
JW3741	<i>ilvG</i>	CP4-44 prophage; p	-0.0837	0.0315
JW3745	<i>ilvA</i>	L-threonine dehydra	0.0638	0.1947
JW3746	<i>ilvY</i>	Transcriptional activ	0.2151	0.0008
JW3747	<i>ilvC</i>	Ketol-acid reductois	-0.0552	0.0399
JW3748	<i>ppiC</i>	Peptidyl-prolyl cis-tr	0.1401	0.0051
JW3749	<i>yifO</i>	Pemk toxin family ps	0.067	0.0703
JW3750	<i>yifN</i>	CP4-44 prophage; p	-0.0547	0.0435
JW3753	<i>rhIB</i>	ATP-dependent RNA	-0.0462	0.4034
JW3755	<i>rhoL</i>	Putative rho operon	-0.0289	0.5327
JW3756	<i>rho</i>	Transcription termin	-0.0172	0.7728
JW3758	<i>rfe</i>	UDP-glcnac:undecaç	0.1181	0.0577
JW3765	<i>rffA</i>	Dtdp-4-amino-4,6-c	0.0458	0.2098
JW3766	<i>wzxE</i>	O-antigen translocas	0.0223	0.6144
JW3774	<i>hemY</i>	Putative protoheme	0.0287	0.2985
JW3775	<i>hemX</i>	Putative uroporphyr	-0.0124	0.8001
JW3778	<i>cyaA</i>	Adenylate cyclase	0.0309	0.2885
JW3779	<i>cyaY</i>	Iron-dependent inhi	-0.0124	0.6638
JW3780	<i>yzcX</i>	Uncharacterized pro	-0.0081	0.7195
JW3781	<i>yifL</i>	Putative lipoprotein	0.0372	0.0345
JW3783	<i>yigA</i>	DUF484 family prot	0.0208	0.6932
JW3784	<i>xerC</i>	Site-specific tyrosine	-0.0047	0.8756
JW3789	<i>corA</i>	Magnesium/nickel/c	-0.0037	0.9214

JW3794	<i>pldA</i>	Outer membrane ph	-0.015	0.7208
JW3803	<i>yigM</i>	Putative inner memt	-0.0203	0.5049
JW3804	<i>metR</i>	Methionine biosynt	0.3722	0.0037
JW3805	<i>metE</i>	5-methyltetrahydro	0.0551	0.4043
JW3808	<i>udp</i>	Uridine phosphoryl	0.0569	0.1373
JW3809	<i>rmuC</i>	DNA recombination	0.1378	0.0268
JW3813	<i>tatA</i>	Tatabce protein tran	0.0897	0.0768
JW3815	<i>tatC</i>	Tatabce protein tran	-0.0234	0.4162
JW3818	<i>rfaH</i>	Transcription antiter	0.0692	0.0451
JW3820	<i>fre</i>	NAD(P)H-flavin redu	0.0614	0.0681
JW3822	<i>fadB</i>	Fused 3-hydroxybut	0.0519	0.0055
JW3823	<i>pepQ</i>	Proline dipeptidase	-0.1378	0.0046
JW3829	<i>mobA</i>	Molybdopterin-guar	0.1393	0.0011
JW3830	<i>yihD</i>	DUF1040 protein yil	-0.0418	0.3687
JW3831	<i>yihE</i>	Cpx stress response	0.0622	0.0213
JW3834	<i>yihG</i>	Inner membrane pro	-0.0614	0.1657
JW3835	<i>poIA</i>	5' to 3' DNA polyme	0.085	0.0532
JW3837	<i>yihI</i>	Activator of Der gtp	0.0768	0.0085
JW3838	<i>hemN</i>	Coproporphyrinoge	0.1067	0.0018
JW3839	<i>glnG</i>	Fused DNA-binding	-0.0223	0.651
JW3840	<i>glnL</i>	Sensory histidine kir	0.0173	0.7921
JW3841	<i>glnA</i>	Glutamine synthetas	-0.0282	0.5898
JW3843	<i>yihL</i>	Putative DNA-bindir	-0.0631	0.1071
JW3844	<i>yihM</i>	Putative sugar phosj	-0.0008	0.9828
JW3848	<i>yihP</i>	Putative 2,3-dihydr	-0.0269	0.3606
JW3849	<i>yihQ</i>	Putative sulpholipid	0.0423	0.3851
JW3850	<i>yihR</i>	Putative sulphoquin	0.1159	0.0045
JW3852	<i>yihT</i>	6-deoxy-6-sulphofri	0.0276	0.4382
JW3853	<i>yihU</i>	3-sulpholactaldehyc	0.018	0.5926
JW3857	<i>rbn</i>	Brkb family putative	0.0356	0.1535
JW3858	<i>dtd</i>	D-tyr-trna(Tyr) deac	-0.0223	0.7202
JW3859	<i>yiiD</i>	GNAT family putativ	-0.0823	0.0916
JW3862	<i>fdhE</i>	Formate dehydroger	-0.0029	0.9597
JW3863	<i>fdoI</i>	Formate dehydroger	0.0602	0.0255
JW3864	<i>fdoH</i>	Formate dehydroger	0.056	0.0541
JW3865	<i>fdoG</i>	Formate dehydroger	-0.0324	0.3957
JW3866	<i>fdhD</i>	Formate dehydroger	-0.023	0.6456
JW3867	<i>yiiG</i>	DUF3829 family lipc	-0.0434	0.3389
JW3868	<i>frvR</i>	Putative frv operon	-0.0004	0.9911
JW3869	<i>frvX</i>	Putative peptidase	0.0218	0.4914
JW3872	<i>yiiL</i>	L-rhamnose mutaro	0.0294	0.5575
JW3876	<i>rhaS</i>	Transcriptional activ	0.0306	0.196
JW3877	<i>rhaR</i>	Transcriptional activ	0.0016	0.9681
JW3878	<i>rhaT</i>	L-rhamnose:proton	0.0425	0.3272
JW3879	<i>sodA</i>	Superoxide dismuta:	0.0604	0.0747

JW3882	<i>cpxA</i>	Sensory histidine kir	0.0264	0.5253
JW3883	<i>cpxR</i>	Response regulator i	-0.0734	0.0785
JW3886	<i>fieF</i>	Ferrous iron and zin	-0.0247	0.5138
JW3887	<i>pfkA</i>	6-phosphofructokir	0.0865	0.052
JW3888	<i>sbp</i>	Sulfate transporter s	-0.0847	0.1828
JW3889	<i>cdh</i>	CDP-diacylglycerol p	-0.0489	0.0955
JW3890	<i>tpiA</i>	Triosephosphate iso	-0.001	0.0214
JW3891	<i>yiiQ</i>	DUF1454 family put	0.0666	0.2348
JW3892	<i>yiiR</i>	DUF805 family puta	0.005	0.9033
JW3893	<i>yiiS</i>	UPF0381 family pro	-0.0064	0.9029
JW3894	<i>yiiT</i>	Stress-induced proti	-0.033	0.3617
JW3895	<i>fpr</i>	Ferredoxin-NADP re	0.0144	0.7088
JW3896	<i>glpX</i>	Fructose 1,6-bispho	0.0855	0.1351
JW3897	<i>glpK</i>	Glycerol kinase	-0.0464	0.1114
JW3898	<i>glpF</i>	Glycerol facilitator	0.0026	0.957
JW3899	<i>yiiU</i>	Ftsz stabilizer, septa	-0.124	0.0111
JW3900	<i>rraA</i>	Ribonuclease E (rnas	0.0093	0.788
JW3901	<i>menA</i>	1,4-dihydroxy-2-nař	0.0621	0.2205
JW3902	<i>hslU</i>	Molecular chaperon	0.0197	0.574
JW3903	<i>hslV</i>	Peptidase componei	-0.0488	0.3213
JW3905	<i>cytR</i>	Anti-activator for cyi	0.1105	0.0391
JW3906	<i>priA</i>	Primosome factor n'	0.0024	0.0192
JW3907	<i>rpmE</i>	50S ribosomal subu	-0.0419	0.175
JW3908	<i>yiiX</i>	Putative lipid bindin	-0.0096	0.8217
JW3909	<i>metJ</i>	Transcriptional repre	-0.2917	0.0767
JW3910	<i>metB</i>	Cystathionine gamm	0.059	0.3756
JW3911	<i>metL</i>	Bifunctional asparto	-0.189	0
JW3913	<i>metF</i>	5,10-methylenetetra	0.0429	0.0695
JW3914	<i>katG</i>	Catalase-peroxidase	0.0107	0.7912
JW3916	<i>yijF</i>	DUF1287 family pro	0.0753	0.2169
JW3918	<i>fsaB</i>	Fructose-6-phosphæ	0.0006	0.9903
JW3921	<i>frwC</i>	Putative enzyme IIC i	0.0111	0.7333
JW3922	<i>frwB</i>	Putative enzyme IIB i	-0.0228	0.6492
JW3923	<i>pfID</i>	Putative glycine radii	-0.0844	0.02
JW3924	<i>pfIC</i>	Putative [formate-C-	-0.0005	0.9891
JW3925	<i>frwD</i>	Putative enzyme IIB i	-0.0154	0.5589
JW3926	<i>yijO</i>	Arac family putative	0.017	0.7107
JW3927	<i>yijP</i>	LPS heptose I phosp	-0.1918	0.1174
JW3928	<i>ppc</i>	Phosphoenolpyruva	-0.1489	0.1398
JW3929	<i>argE</i>	Acetylornithine deac	0.0368	0.4426
JW3930	<i>argC</i>	N-acetyl-gamma-glui	0.0755	0.0241
JW3932	<i>argH</i>	Argininosuccinate ly	0.0287	0.5398
JW3933	<i>oxyR</i>	Oxidative and nitros	-0.0196	0.612
JW3935	<i>fabR</i>	Transcriptional repre	-0.0014	0.9729
JW3937	<i>trmA</i>	Trna m(5)U54 methy	-0.0534	0.081

JW3938	<i>btuB</i>	Vitamin B12/cobalar	0.0093	0.7752
JW3942	<i>coaA</i>	Pantothenate kinase	0.193	0.0021
JW3943	<i>tufB</i>	Translation elongatic	0.0003	0.9951
JW3946	<i>rplK</i>	50S ribosomal subu	-0.0039	0.8965
JW3947	<i>rplA</i>	50S ribosomal subu	0.0558	0.1973
JW3952	<i>htrC</i>	Stationary phase gro	-0.0871	0.0118
JW3953	<i>thiH</i>	Tyrosine lyase, invol	0.0221	0.6826
JW3955	<i>thiS</i>	Immediate sulfur do	0.1271	0.0042
JW3956	<i>thiF</i>	Adenylyltransferase,	0.0363	0.2425
JW3957	<i>thiE</i>	Thiamine phosphate	0.2258	0.0004
JW3958	<i>thiC</i>	Phosphomethylpyrii	-0.0222	0.6732
JW3959	<i>rsd</i>	Stationary phase prc	-0.0551	0.3845
JW3961	<i>hemE</i>	Uroporphyrinogen c	0.0678	0.0467
JW3963	<i>yjaG</i>	DUF416 domain prc	-0.0214	0.5626
JW3964	<i>hupA</i>	HU, DNA-binding tra	0.0542	0.2712
JW3965	<i>yjaH</i>	DUF1481 family put	-0.0254	0.5794
JW3967	<i>zraS</i>	Sensory histidine kir	0.09	0.0494
JW3968	<i>zraR</i>	Fused DNA-binding	0.0858	0.112
JW3969	<i>purD</i>	Phosphoribosylglyci	0.0263	0.7158
JW3970	<i>purH</i>	IMP cyclohydrolase	-0.0846	0.0032
JW3971	<i>yjaA</i>	Stress-induced proti	0.0436	0.3152
JW3973	<i>metA</i>	Homoserine O-trans	0.2412	0.0018
JW3974	<i>aceB</i>	Malate synthase A	0.0159	0.7386
JW3975	<i>aceA</i>	Isocitrate lyase	0.0144	0.5314
JW3976	<i>aceK</i>	Isocitrate dehydroge	-0.0955	0.0398
JW3977	<i>arpA</i>	Ankyrin repeat prote	0.0129	0.5985
JW3978	<i>iclR</i>	Transcriptional repre	-0.0252	0.283
JW3979	<i>metH</i>	Homocysteine-N5-n	-0.1545	0.0546
JW3980	<i>yjbB</i>	Putative Na+/Pi-cotr	0.0046	0.842
JW3981	<i>pepE</i>	Peptidase E, alpha-a:	-0.0618	0.0465
JW3982	<i>yjbC</i>	23S rrna pseudouric	0.0836	0.0011
JW3983	<i>yjbD</i>	DUF3811 family pro	-0.0077	0.8626
JW3984	<i>lysC</i>	Lysine-sensitive asp:	-0.0609	0.6105
JW3985	<i>pgi</i>	Glucosephosphate i	0.1018	0.1363
JW3988	<i>yjbG</i>	Extracellular polysac	-0.0406	0.2935
JW3989	<i>yjbH</i>	DUF940 family extra	-0.068	0.2311
JW3990	<i>yjbA</i>	Phosphate starvatio	-0.0221	0.6336
JW3991	<i>xylE</i>	D-xylose transporter	-0.0087	0.8844
JW3992	<i>malG</i>	Maltose transporter	0.0332	0.3064
JW3993	<i>malF</i>	Maltose transporter	0.0369	0.3827
JW3994	<i>malE</i>	Maltose transporter	0.0679	0.0203
JW3995	<i>malk</i>	Maltose ABC transpr	-0.003	0.9274
JW3996	<i>lamB</i>	Maltose outer memk	0.0165	0.6835
JW3997	<i>malM</i>	Maltose regulon per	-0.0602	0.1589
JW3998	<i>yjbI</i>	Pseudogene, sopa-ri	0.0148	0.6139

JW4002	<i>dgkA</i>	Diacylglycerol kinase	-0.0237	0.5532
JW4004	<i>dinF</i>	Oxidative stress resi:	0.0704	0.4124
JW4005	<i>yjbJ</i>	Stress-induced proti	0.01	0.8211
JW4007	<i>yjbL</i>	Uncharacterized pro	-0.0253	0.418
JW4008	<i>yjbM</i>	Uncharacterized pro	0.0157	0.6606
JW4011	<i>qor</i>	Quinone oxidoreduc	0.0837	0.1182
JW4013	<i>alr</i>	Alanine racemase, bi	0.3526	0.0036
JW4014	<i>tyrB</i>	Tyrosine aminotrans	0.0247	0.7122
JW4015	<i>aphA</i>	Acid phosphatase/p	-0.0569	0.0724
JW4018	<i>yjbR</i>	DUF419 family proti	0.0143	0.7992
JW4019	<i>uvrA</i>	Atpase and DNA dar	-0.0328	0.5868
JW4022	<i>yjcC</i>	Putative membrane-	-0.01	0.8351
JW4025	<i>yjcD</i>	Guanine/hypoxanth	0.0264	0.6654
JW4026	<i>yjcE</i>	Putative cation/prot	0.0001	0.8435
JW4027	<i>yjcF</i>	Uncharacterized pro	0.0886	0.0035
JW4028	<i>actP</i>	Acetate transporter	-0.0538	0.1443
JW4029	<i>yjch</i>	DUF485 family inner	0.0684	0.2898
JW4030	<i>acs</i>	Acetyl-coa synthetas	0.0377	0.3752
JW4031	<i>nrfA</i>	Nitrite reductase, foi	-0.2103	0.2397
JW4032	<i>nrfB</i>	Nitrite reductase, foi	0.0247	0.4743
JW4033	<i>nrfC</i>	Formate-dependent	-0.0353	0.5636
JW4034	<i>nrfD</i>	Formate-dependent	-0.0275	0.4026
JW4035	<i>nrfE</i>	Heme lyase (nrfehg) †	-0.0372	0.4665
JW4036	<i>nrfF</i>	Heme lyase (nrfehg) †	0.0325	0.5424
JW4037	<i>nrfG</i>	Heme lyase (nrfehg) †	0.0644	0.368
JW4038	<i>gltP</i>	Glutamate/aspartate	-0.0117	0.7798
JW4039	<i>yjcO</i>	Sel1 family TPR-like r	0.0132	0.8317
JW4040	<i>fdhF</i>	Formate dehydroger	-0.0223	0.4799
JW4041	<i>yjcP</i>	Outer membrane fac	0.0351	0.5659
JW4042	<i>yjcQ</i>	Membrane translocæ	-0.0076	0.7062
JW4043	<i>yjcR</i>	Membrane fusion pi	0.106	0.0101
JW4046	<i>alsE</i>	Allulose-6-phosphat	0.0178	0.7279
JW4047	<i>alsC</i>	D-allose ABC transp	-0.0125	0.8543
JW4048	<i>alsA</i>	D-allose ABC transp	0.0568	0.079
JW4049	<i>alsB</i>	D-allose ABC transp	0.0148	0.544
JW4050	<i>rpiR</i>	D-allose-inducible al	0.1148	0.0206
JW4051	<i>rpiB</i>	Ribose 5-phosphate	-0.0955	0.0091
JW4053	<i>phnP</i>	5-phospho-alpha-D	-0.0917	0.0132
JW4054	<i>phnO</i>	Aminoalkylphospho	-0.0097	0.6055
JW4055	<i>phnN</i>	Ribose 1,5-bisphos†	0.1062	0.0012
JW4056	<i>phnM</i>	Ribophosphonate tr	-0.0015	0.975
JW4057	<i>phnL</i>	Ribophosphonate tr	0.0278	0.5018
JW4059	<i>phnJ</i>	Carbon-phosphorus	0.0691	0.0074
JW4060	<i>phnI</i>	Ribophosphonate tr	-0.0075	0.8927
JW4061	<i>phnH</i>	Ribophosphonate tr	-0.0421	0.0765

JW4062	<i>phnG</i>	Ribophosphonate tr	-0.0171	0.545
JW4063	<i>phnF</i>	Putative DNA-bindir	0.1314	0.0597
JW4064	<i>phnE</i>	CP4-44 prophage; p	-0.0307	0.5303
JW4065	<i>phnE</i>	Putative cryptic pho	-0.0222	0.2908
JW4066	<i>phnD</i>	Phosphonate ABC tr	0.0425	0.3577
JW4067	<i>phnC</i>	Phosphonate ABC tr	0.1183	0.0362
JW4068	<i>phnB</i>	Metalloprotein supe	-0.0006	0.9866
JW4069	<i>phnA</i>	Zinc-ribbon family p	-0.0543	0.1487
JW4072	<i>proP</i>	Proline/glycine betai	-0.024	0.5385
JW4074	<i>basR</i>	Response regulator i	-0.0172	0.7861
JW4076	<i>adiC</i>	Arginine:agmatine ar	0.1086	0.0005
JW4077	<i>adiY</i>	Adi system transcrip	0.1247	0.02
JW4079	<i>melR</i>	Melibiose operon tr:	-0.0246	0.4962
JW4080	<i>mela</i>	Alpha-galactosidase,	0.0494	0.2766
JW4081	<i>melB</i>	Melibiose:sodium sy	0.0514	0.0655
JW4082	<i>yjdF</i>	DUF2238 family inn	0.0016	0.962
JW4083	<i>fumB</i>	Anaerobic class I fur	-0.0459	0.1239
JW4084	<i>dcuB</i>	C4-dicarboxylate tra	0.0085	0.776
JW4085	<i>dcuR</i>	Response regulator i	-0.021	0.5054
JW4087	<i>yjdI</i>	Putative 4Fe-4S mor	-0.031	0.6867
JW4088	<i>yjdJ</i>	GNAT family putativ	0.0014	0.9695
JW4089	<i>yjdK</i>	Antitoxin of ghots tc	-0.0203	0.5644
JW4090	<i>lysU</i>	Lysine trna syntheta	0.0607	0.2346
JW4091	<i>yjdL</i>	Dipeptide and tripep	0.0023	0.9279
JW4092	<i>cadA</i>	Lysine decarboxylas	-0.0843	0.0249
JW4093	<i>cadB</i>	Putative lysine/cada	0.0143	0.6662
JW4099	<i>aspA</i>	Aspartate ammonia-	0.0708	0.0277
JW4100	<i>fxsA</i>	Suppressor of F excl	0.0564	0.2158
JW4101	<i>yjeH</i>	L-methionine and br	-0.0352	0.541
JW4103	<i>groL</i>	Cpn60 chaperonin g	-0.0603	0.1908
JW4106	<i>yjeK</i>	EF-P-Lys34 lysylatio	-0.0096	0.6327
JW4107	<i>efp</i>	Polyproline-specific	0.0115	0.6735
JW4108	<i>ecnB</i>	Entericidin B membr	0.0695	0.0624
JW4110	<i>blc</i>	Outer membrane lipi	0.0301	0.3562
JW4111	<i>ampC</i>	Penicillin-binding pr	0.0247	0.3269
JW4112	<i>frdD</i>	Fumarate reductase	-0.0763	0.0154
JW4113	<i>frdC</i>	Fumarate reductase	0.0415	0.4293
JW4114	<i>frdB</i>	Fumarate reductase	0.0636	0.1797
JW4115	<i>frdA</i>	Anaerobic fumarate	0.0028	0.9229
JW4116	<i>poxA</i>	Elongation Factor P I	0.0434	0.3041
JW4118	<i>yjeN</i>	Uncharacterized pro	0.0211	0.7173
JW4119	<i>yjeO</i>	Inner membrane pro	-0.021	0.7072
JW4120	<i>yjeP</i>	Mechanosensitive cl	-0.0126	0.8491
JW4122	<i>rsgA</i>	Ribosome small sub	0.1184	0.0698
JW4124	<i>yjeS</i>	Epoxyqueuosine red	-0.0328	0.3983

JW4125	<i>yjeF</i>	Bifunctional NAD(P)	0.0044	0.9351
JW4127	<i>amiB</i>	N-acetylmuramoyl-l-	-0.0187	0.4711
JW4128	<i>mutL</i>	Methyl-directed mis	-0.0397	0.4566
JW4129	<i>miaA</i>	Delta(2)-isopentenyl	-0.0666	0.1329
JW4130	<i>hfq</i>	Global srna chaperone	0.032	0.3729
JW4131	<i>hflX</i>	Gtpase, stimulated by	0.0872	0.0161
JW4132	<i>hflK</i>	Modulator for hflb ζ	0.0546	0.1898
JW4133	<i>hflC</i>	Hflb protease modu	0.0232	0.5568
JW4134	<i>yjeT</i>	DUF2065 family pro	-0.0889	0.0158
JW4135	<i>purA</i>	Adenylosuccinate sy	0.0271	0.4324
JW4136	<i>yjeB</i>	Nitric oxide-sensitiv	-0.0029	0.9409
JW4139	<i>yjfl</i>	DUF2170 family pro	-0.1067	0.0016
JW4140	<i>yjfJ</i>	Pspa/IM30 family pr	-0.0887	0.0721
JW4141	<i>yjfK</i>	DUF2491 family pro	0.1644	0.0153
JW4142	<i>yjfl</i>	UPF0719 family inn	0.0281	0.5578
JW4148	<i>yjfP</i>	Acyl coa esterase	-0.0812	0.04
JW4149	<i>ulaR</i>	Transcriptional repre	-0.5564	0.0001
JW4152	<i>ulaB</i>	L-ascorbate-specific	0.0475	0.3172
JW4153	<i>ulaC</i>	L-ascorbate-specific	0.0239	0.2909
JW4155	<i>ulaE</i>	L-xylulose 5-phosph	0.0224	0.6874
JW4156	<i>ulaF</i>	L-ribulose 5-phosph	0.0396	0.3022
JW4157	<i>yjfY</i>	Yhcn family protein,	0.006	0.9504
JW4158	<i>rpsF</i>	30S ribosomal subu	-0.129	0.1688
JW4159	<i>priB</i>	Primosomal protein	0.0831	0.0431
JW4161	<i>rplI</i>	50S ribosomal subu	0.0089	0.7678
JW4162	<i>yjfZ</i>	Uncharacterized pro	0.0779	0.0821
JW4163	<i>ytfA</i>	Pseudogene, related	0.0083	0.8653
JW4166	<i>cycA</i>	D-alanine/D-serine/ ξ	-0.0178	0.7507
JW4167	<i>ytfE</i>	Iron-sulfur cluster re	0.0469	0.4769
JW4168	<i>ytfF</i>	DMT transporter far	-0.0862	0.1403
JW4169	<i>ytfG</i>	NAD(P)H:quinone o	0.0263	0.6956
JW4171	<i>cpdB</i>	2':3'-cyclic-nucleotic	-0.014	0.621
JW4172	<i>cysQ</i>	3'(2'),5'-bisphosphat	-0.2027	0.0014
JW4175	<i>ytfJ</i>	Putative transcriptio	-0.1269	0.0458
JW4177	<i>ytfL</i>	UPF0053 family inn	0.0729	0.0238
JW4178	<i>msrA</i>	Methionine sulfoxid	0.0136	0.6555
JW4179	<i>ytfM</i>	Translocation and as	0.1394	0.0007
JW4180	<i>ytfN</i>	Translocation and as	-0.0991	0.2387
JW4181	<i>ytfP</i>	GGCT-like protein	0.0384	0.6929
JW4184	<i>chpB</i>	Toxin of the chpb-cl	0.076	0.1187
JW4186	<i>ytfQ</i>	Galactofuranose ABi	-0.038	0.1459
JW4191	<i>fbp</i>	Fructose-1,6-bisphos	-0.0554	0.092
JW4192	<i>mpl</i>	UDP-N-acetylmurarr	-0.0345	0.3077
JW4193	<i>yjgA</i>	Ribosome-associate	0.0613	0.453
JW4194	<i>pmbA</i>	Putative antibiotic p	0.0665	0.0662

JW4195	<i>cybC</i>	CP4-44 prophage; p	-0.0438	0.3683
JW4196	<i>nrdG</i>	Anaerobic ribonucle	-0.0416	0.098
JW4197	<i>nrdD</i>	Anaerobic ribonucle	-0.0215	0.3957
JW4198	<i>treC</i>	Trehalose-6-P hydro	-0.0829	0.1696
JW4199	<i>treB</i>	PTS system trehalos	-0.0128	0.7803
JW4200	<i>treR</i>	Trehalose 6-phosph	0.0175	0.7308
JW4201	<i>mgtA</i>	Magnesium transpo	0.0105	0.7795
JW4203	<i>pyrI</i>	Aspartate carbamoyl	-0.0527	0.2546
JW4204	<i>pyrB</i>	Aspartate carbamoyl	0.0766	0.0393
JW4205	<i>pyrL</i>	Pyrbi operon leader	-0.1417	0.1364
JW4207	<i>yjgI</i>	C-di-GMP-binding b	0.0398	0.2821
JW4208	<i>yjgJ</i>	Transcriptional repre	-0.0594	0.0795
JW4211	<i>argI</i>	Ornithine carbamoyl	0.0011	0.9812
JW4212	<i>yjgD</i>	Protein inhibitor of i	0.0865	0.3528
JW4216	<i>hoIC</i>	DNA polymerase III, r	-0.327	0.0001
JW4217	<i>pepA</i>	Multifunctional amii	0.0014	0.9742
JW4221	<i>idnR</i>	Transcriptional repre	0.0195	0.6268
JW4222	<i>idnT</i>	L-idonate and D-glu	0.0905	0.0566
JW4223	<i>idnO</i>	5-keto-D-gluconate-	0.0975	0.0476
JW4224	<i>idnD</i>	L-idonate 5-dehydc	0.0723	0.14
JW4225	<i>idnK</i>	D-gluconate kinase,	0.003	0.9178
JW4227	<i>intB</i>	Pseudogene, integra	0.0277	0.4624
JW4233	<i>yjgW</i>	Uncharacterized pro	0.0253	0.4001
JW4234	<i>yjgX</i>	CP4-44 prophage; p	0.0556	0.2337
JW4236	<i>yjgZ</i>	Uncharacterized pro	-0.0098	0.7745
JW4242	<i>yjhE</i>	CP4-44 prophage; p	0.0169	0.6206
JW4246	<i>yjhV</i>	Pseudogene, kple2 r	-0.0211	0.3167
JW4247	<i>fecE</i>	Ferric citrate ABC tra	-0.0196	0.4134
JW4248	<i>fecD</i>	Ferric citrate ABC tra	0.0565	0.5016
JW4249	<i>fecC</i>	Ferric citrate ABC tra	-0.0057	0.8088
JW4250	<i>fecB</i>	Ferric citrate ABC tra	0.1075	0.0082
JW4251	<i>fecA</i>	Tonb-dependent ou	0.0207	0.6481
JW4252	<i>fecR</i>	Anti-sigma transmer	-0.0322	0.5328
JW4253	<i>fecI</i>	RNA polymerase sigr	-0.059	0.2955
JW4259	<i>yjhG</i>	Putative dehydratas	-0.0025	0.9731
JW4261	<i>yjhI</i>	Putative DNA-bindir	0.0158	0.8364
JW4262	<i>sgcR</i>	Putative DNA-bindir	-0.037	0.3649
JW4263	<i>sgcE</i>	Putative epimerase	0.0528	0.2804
JW4264	<i>sgcA</i>	Putative phosphotr	0.0927	0.0066
JW4265	<i>sgcQ</i>	Putative nucleoside	-0.0454	0.1841
JW4266	<i>sgcC</i>	Putative PTS system	-0.1199	0.0001
JW4268	<i>yjhP</i>	Putative methyltrans	-0.0197	0.4643
JW4269	<i>yjhQ</i>	GNAT family putativ	-0.0684	0.5669
JW4271	<i>yjhR</i>	Pseudogene, helicase	0.0946	0.4626
JW4272	<i>yjhS</i>	9-O-acetyl N-acetyl	-0.071	0.0167

JW4275	<i>fimB</i>	Tyrosine recombinase	-0.0079	0.7065
JW4277	<i>fimA</i>	Major type 1 subunit	-0.0422	0.2085
JW4282	<i>fimG</i>	Minor component of	0.0496	0.181
JW4284	<i>gntP</i>	Fructuronate transposase	0.0329	0.3726
JW4285	<i>uxuA</i>	Mannuronate hydrolase	0.0257	0.5108
JW4286	<i>uxuB</i>	D-mannuronate oxidase	0.0151	0.7546
JW4288	<i>yjiC</i>	Uncharacterized protein	0.0702	0.4036
JW4290	<i>yjiE</i>	Hypochlorite-responsive	0.0198	0.4929
JW4291	<i>iadA</i>	Isoaspartyl dipeptidase	-0.0281	0.3756
JW4292	<i>yjiG</i>	Spmb family inner membrane	-0.0581	0.5756
JW4295	<i>yjiJ</i>	DUF1228 family protein	-0.0431	0.1115
JW4299	<i>yjiN</i>	Zinc-type alcohol dehydrogenase	-0.0413	0.5349
JW4302	<i>yjiQ</i>	Putative inactive repressor	-0.0517	0.0435
JW4303	<i>yjiR</i>	Putative DNA-binding protein	-0.0351	0.6231
JW4304	<i>yjiS</i>	DUF1127 family protein	-0.0342	0.7665
JW4310	<i>yjiW</i>	Toxic peptide regulator	0.1773	0.0003
JW4311	<i>hsdS</i>	Specificity determinant	0.1001	0.0547
JW4313	<i>hsdR</i>	Endonuclease R Type I	-0.0032	0.9462
JW4314	<i>mrr</i>	Methylated adenine methylase	0.2095	0.0407
JW4316	<i>yjiX</i>	DUF466 family protein	-0.0523	0.5012
JW4318	<i>tsr</i>	Methyl-accepting chemotaxis	-0.0055	0.8884
JW4319	<i>yjiZ</i>	Putative L-galactonate	-0.1432	0.0011
JW4326	<i>dnaT</i>	DNA biosynthesis protein	-0.1285	0.0015
JW4327	<i>yjiB</i>	DUF3815 family inner membrane	0.0271	0.4732
JW4329	<i>yjiQ</i>	Putative transcription factor	0.0177	0.6966
JW4331	<i>fhuF</i>	Ferric iron reductase	0.0656	0.0337
JW4333	<i>rsmC</i>	16S rRNA m(2)G1207 methylase	-0.0712	0.1174
JW4334	<i>hoLD</i>	DNA polymerase III, lambda	-0.2171	0.0005
JW4335	<i>rimI</i>	Ribosomal-protein-S10	-0.0013	0.982
JW4336	<i>yjiG</i>	Dump phosphatase	0.0729	0.2052
JW4338	<i>osmY</i>	Salt-inducible putative	0.0146	0.7736
JW4340	<i>yjiU</i>	Putative patatin-like	-0.0178	0.7077
JW4341	<i>yjiV</i>	Putative DNase	0.0066	0.7905
JW4342	<i>yjiW</i>	Putative pyruvate formate	0.0755	0.2093
JW4343	<i>yjiI</i>	DUF3029 family protein	0.1307	0.0825
JW4344	<i>deoC</i>	2-deoxyribose-5-phosphate	0.0194	0.7051
JW4345	<i>deoA</i>	Thymidine phosphotransferase	-0.0038	0.9364
JW4346	<i>deoB</i>	Phosphopentomutase	0.0047	0.9
JW4347	<i>deoD</i>	Purine nucleoside phosphorylase	-0.0486	0.0438
JW4348	<i>yjiJ</i>	Putative protein kinase	0.0253	0.574
JW4350	<i>ytjB</i>	SMP_2 family putative	-0.0456	0.3212
JW4351	<i>serB</i>	3-phosphoserine phosphatase	-0.0173	0.3861
JW4352	<i>radA</i>	DNA repair protein	-0.0112	0.6225
JW4354	<i>yjiK</i>	Energy-dependent transcription	0.1213	0.0351
JW4355	<i>slt</i>	Lytic murein transglycosylase	0.0519	0.3167

JW4356	<i>trpR</i>	Transcriptional repr	-0.0551	0.0716
JW4358	<i>ytjC</i>	Phosphatase	-0.0224	0.6429
JW4359	<i>rob</i>	Right oric-binding tr	0.0843	0.1541
JW4360	<i>creA</i>	Putative periplasmic	0.0126	0.7339
JW4361	<i>creB</i>	Response regulator i	0.0322	0.403
JW4362	<i>creC</i>	Sensory histidine kir	0.0561	0.1769
JW4363	<i>creD</i>	Inner membrane pro	0.0279	0.4895
JW4364	<i>arcA</i>	Response regulator i	-0.0385	0.372
JW4365	<i>yjyY</i>	Uncharacterized pro	0.0675	0.523
JW4366	<i>yjtD</i>	Putative methyltrans	-0.0263	0.4566
JW4367	<i>thrL</i>	Thr operon leader p	-0.081	0.1402
JW5001	<i>htgA</i>	Uncharacterized pro	-0.0619	0.0603
JW5002	<i>hokC</i>	Toxic protein hokc	-0.1542	0.013
JW5003	<i>yaaY</i>	Uncharacterized pro	-0.0545	0.1205
JW5004	<i>caiE</i>	Stimulator of caid ar	0.1146	0.0562
JW5005	<i>yabl</i>	Ionizing radiation su	-0.0294	0.2398
JW5008	<i>yacG</i>	DNA gyrase inhibitor	-0.0674	0.1209
JW5009	<i>hpt</i>	Hypoxanthine phosj	0.0518	0.2142
JW5010	<i>yadD</i>	Recombination-pror	0.0067	0.7975
JW5011	<i>ligT</i>	2'-5' RNA ligase	0.0976	0.0798
JW5012	<i>clcA</i>	H(+)/Cl(-) exchange i	0.0455	0.0424
JW5013	<i>cdaR</i>	Carbohydrate diacid	0.0156	0.6813
JW5014	<i>yael</i>	Phosphodiesterase v	0.089	0.0359
JW5016	<i>yaeF</i>	Putative lipoprotein	-0.0359	0.2365
JW5017	<i>yafD</i>	Endo/exonuclease/p	-0.0304	0.241
JW5018	<i>mltD</i>	Putative membrane-	-0.0186	0.6219
JW5019	<i>yafV</i>	Putative NAD(P)-bin	0.0049	0.8894
JW5020	<i>fadE</i>	Acyl coenzyme A def	0.017	0.7242
JW5022	<i>yafX</i>	CP4-6 prophage; un	0.0516	0.0981
JW5023	<i>ykfF</i>	CP4-6 prophage; un	0.0908	0.0567
JW5027	<i>mmuP</i>	CP4-6 prophage; pu	0.0424	0.1451
JW5030	<i>yagV</i>	ECP production pilu	-0.0275	0.5715
JW5031	<i>ykgK</i>	Putative transcriptio	0.1277	0.0079
JW5033	<i>ykgL</i>	Uncharacterized pro	-0.0046	0.8886
JW5034	<i>ykgM</i>	Rpmj-like protein	0.0232	0.651
JW5035	<i>ykgM</i>	50S ribosomal prote	0.0107	0.7807
JW5037	<i>ykgA</i>	Pseudogene, arac fai	-0.0141	0.7027
JW5038	<i>ykgB</i>	Reactive chlorine sp	-0.0707	0.0407
JW5039	<i>ykgI</i>	Reactive chlorine sp	-0.0062	0.8757
JW5040	<i>ykgC</i>	Reactive chlorine str	0.0531	0.2766
JW5042	<i>ykgG</i>	Lutc family protein; j	0.0989	0.0391
JW5044	<i>yahM</i>	Uncharacterized pro	0.1198	0.0002
JW5046	<i>mhpT</i>	3-hydroxyphenylprc	-0.0629	0.2419
JW5049	<i>ykiB</i>	CP4-44 prophage; p	-0.0332	0.3925
JW5051	<i>yaiU</i>	CP4-44 prophage; p	0.0548	0.1768

JW5052	<i>ampH</i>	D-alanyl-D-alanine-c	0.0986	0.0001
JW5053	<i>yaiZ</i>	DUF2754 family put	0.0947	0.0756
JW5054	<i>psiF</i>	Psif family protein	0.0325	0.1764
JW5055	<i>proY</i>	Proline-specific perr	0.1321	0.0011
JW5056	<i>yajI</i>	Putative lipoprotein	-0.0015	0.9575
JW5057	<i>yajL</i>	Oxidative-stress-resi	0.0038	0.9181
JW5058	<i>yajQ</i>	Phage Phi6 host faci	0.0703	0.0544
JW5059	<i>yajR</i>	Putative transporter	0.0247	0.4571
JW5060	<i>boIA</i>	Stationary-phase mc	0.15	0.0001
JW5061	<i>mdlB</i>	Putative multidrug A	0.0163	0.5122
JW5062	<i>ylaB</i>	Putative membrane-	-0.0819	0.0249
JW5063	<i>ylaC</i>	DUF1449 family inn	0.0251	0.5318
JW5065	<i>ybbJ</i>	Inner membrane pro	0.0378	0.1561
JW5066	<i>ybbM</i>	Iron export ABC tran	-0.0694	0.0098
JW5067	<i>ybbN</i>	Dnak co-chaperone,	-0.0358	0.108
JW5070	<i>ybcJ</i>	Ribosome-associate	0.0446	0.0871
JW5071	<i>sfmH</i>	Fima homolog, funct	0.0142	0.5351
JW5072	<i>sfmF</i>	Fima homolog, funct	-0.0095	0.8288
JW5073	<i>fimZ</i>	Response regulator i	0.0268	0.5384
JW5076	<i>ylcG</i>	Uncharacterized pro	-0.0237	0.475
JW5078	<i>nmpC</i>	CP4-44 prophage; p	0.0139	0.72
JW5079	<i>rzpD</i>	DLP12 prophage; pu	-0.0039	0.9198
JW5080	<i>rzoD</i>	DLP12 prophage; pu	-0.0788	0.1552
JW5081	<i>ybcV</i>	DLP12 prophage; Dl	-0.0286	0.1646
JW5082	<i>cusS</i>	Copper-sensing hist	-0.0069	0.8546
JW5083	<i>ybdF</i>	DUF419 family prot	0.0571	0.1218
JW5084	<i>hokE</i>	Toxic polypeptide, si	0.0845	0.2064
JW5087	<i>citF</i>	Citrate lyase, citrate-	0.0228	0.5271
JW5089	<i>lipB</i>	Octanoyltransferase	-0.0779	0.0035
JW5090	<i>ybeB</i>	Ribosomal silencing	0.026	0.4872
JW5091	<i>ybeQ</i>	Sel1 family TPR-like r	-0.014	0.7254
JW5092	<i>gltI</i>	Glutamate/aspartate	-0.0486	0.043
JW5094	<i>ybfG</i>	CP4-44 prophage; p	-0.011	0.7151
JW5095	<i>ybfH</i>	CP4-44 prophage; p	0.0373	0.1318
JW5096	<i>kdpE</i>	Response regulator i	0.0038	0.9418
JW5097	<i>abrB</i>	Regulator of aidb exj	-0.0393	0.0715
JW5098	<i>ybgO</i>	Putative fimbrial pro	-0.1626	0.0004
JW5099	<i>ybgQ</i>	Putative outer memt	-0.122	0.0002
JW5100	<i>tolB</i>	Periplasmic protein	0.1996	0.0004
JW5102	<i>ybhT</i>	Acrab-tolc efflux pu	-0.0394	0.1086
JW5103	<i>ybhJ</i>	Aconitase family pro	-0.0143	0.5059
JW5104	<i>ybhF</i>	Putative ABC transp	0.0228	0.5374
JW5105	<i>ybiX</i>	Fe(II)-dependent oxy	0.0169	0.6451
JW5106	<i>ybiM</i>	Colanic acid mucoi	-0.0145	0.6421
JW5107	<i>ybiN</i>	23S rrna m(6)A1618	-0.0282	0.4683

JW5108	<i>ybiO</i>	Mechanosensitive cl	-0.0126	0.5769
JW5109	<i>fsaA</i>	Fructose-6-phosphat	-0.0047	0.8625
JW5111	<i>yliB</i>	Glutathione-binding	-0.0124	0.6544
JW5112	<i>ybjG</i>	Undecaprenyl pyrop	0.0469	0.3873
JW5113	<i>ybjI</i>	5-amino-6-(5-phosph	0.0196	0.4174
JW5114	<i>ybjK</i>	Transcriptional regul	-0.0778	0.0115
JW5116	<i>ybjT</i>	Putative NAD-depen	0.046	0.0617
JW5117	<i>hcr</i>	HCP oxidoreductase	0.0835	0.1558
JW5118	<i>dmsA</i>	Dimethyl sulfoxide r	-0.0182	0.7006
JW5119	<i>ycaM</i>	Putative transporter	0.1335	0.0126
JW5120	<i>ycaI</i>	Comec family inner r	-0.0598	0.1835
JW5121	<i>ssuC</i>	Aliphatic sulfonate A	0.0332	0.4931
JW5122	<i>ycbQ</i>	Laminin-binding fim	-0.0656	0.1154
JW5123	<i>ycbV</i>	Putative fimbrial-like	0.0497	0.0699
JW5124	<i>ycbF</i>	Putative periplasmic	-0.0157	0.5654
JW5125	<i>ycbW</i>	Ftsz stabilizer	0.0612	0.005
JW5126	<i>ycbX</i>	6-N-hydroxylamino	-0.0356	0.1561
JW5127	<i>ymbA</i>	OM-anchored peripl	0.3448	0
JW5128	<i>yccS</i>	Putative transporter	-0.0013	0.9656
JW5129	<i>mgsA</i>	Methylglyoxal synth	0.0177	0.7183
JW5130	<i>yccU</i>	Putative coa-binding	0.058	0.1736
JW5131	<i>yccX</i>	Weak acylphosphat	0.0487	0.3303
JW5132	<i>etp</i>	O-antigen capsule fc	0.1088	0.0146
JW5133	<i>ymcD</i>	O-antigen capsule pi	0.0347	0.448
JW5134	<i>cspH</i>	Cold shock-like prot	-0.014	0.6556
JW5135	<i>torS</i>	Hybrid sensory histi	-0.009	0.5815
JW5137	<i>ycdG</i>	Pyrimidine permease	-0.0115	0.7857
JW5138	<i>ycdH</i>	Flavin:NADH reduct	0.0876	0.0339
JW5139	<i>ycdL</i>	Ureidoacrylate amid	0.0004	0.001
JW5141	<i>ycdN</i>	CP4-44 prophage; p	0.0028	0.9399
JW5142	<i>ycdR</i>	Poly-beta-1,6-N-ace	0.0691	0.0838
JW5143	<i>ycdT</i>	Diguanylate cyclase,	0.0644	0.0356
JW5145	<i>ymdE</i>	CP4-44 prophage; p	0.0253	0.5988
JW5146	<i>ycdW</i>	Glyoxylate/hydroxy	-0.1084	0.0588
JW5150	<i>ymdC</i>	Stationary phase car	0.004	0.885
JW5151	<i>yceK</i>	Outer membrane int	-0.0394	0.2707
JW5152	<i>yceP</i>	Biofilm regulator	-0.0036	0.951
JW5153	<i>flgH</i>	Flagellar protein of b	-0.0501	0.2657
JW5155	<i>yceF</i>	M(7)GTP pyrophosph	-0.1333	0.008
JW5156	<i>plsX</i>	Putative phosphate	-0.0951	0.1738
JW5157	<i>ycfM</i>	OM lipoprotein stim	0.0468	0.068
JW5158	<i>ycfP</i>	Putative UPF0227 fa	0.0803	0.0012
JW5159	<i>ycfQ</i>	Repressor for bhsa(	0.073	0.0249
JW5164	<i>ymfA</i>	DUF3592 family inn	0.0007	0.1121
JW5165	<i>hflD</i>	Putative lysogenizati	-0.0566	0.1325

JW5166	<i>ymfE</i>	E14 prophage; putat	-0.0593	0.4089
JW5168	<i>ymfI</i>	E14 prophage; unch	0.0411	0.3424
JW5169	<i>ymfT</i>	E14 prophage; putat	-0.1038	0.0032
JW5170	<i>ymfP</i>	Pseudogene, e14 pri	-0.0385	0.209
JW5172	<i>stfE</i>	Pseudogene, e14 pri	0.1415	0.0338
JW5173	<i>icdC</i>	CP4-44 prophage; p	-0.1527	0
JW5174	<i>ycgG</i>	Putative membrane-	-0.0952	0.0085
JW5176	<i>ycgH</i>	CP4-44 prophage; p	-0.0144	0.6743
JW5177	<i>ymgD</i>	Periplasmic protein,	0.0272	0.4402
JW5178	<i>ymgG</i>	UPF0757 protein yn	-0.0163	0.4779
JW5179	<i>ymgH</i>	CP4-44 prophage; p	-0.1051	0.03
JW5180	<i>ycgN</i>	UPF0153 family cysl	-0.1266	0.0846
JW5181	<i>hlyE</i>	Hemolysin E	-0.0251	0.5831
JW5184	<i>cvrA</i>	Putative cation/prot	-0.0809	0.0799
JW5185	<i>dhaH</i>	Uncharacterized pro	-0.0222	0.457
JW5186	<i>dhaL</i>	Dihydroxyacetone ki	0.0037	0.9216
JW5187	<i>dhaK</i>	Dihydroxyacetone ki	-0.0293	0.4204
JW5188	<i>dhaR</i>	PTS-dependent dihy	-0.101	0.0441
JW5189	<i>ychM</i>	C4-dicarboxylic acid	0.444	0.0371
JW5195	<i>tonB</i>	Membrane spanning	0.3408	0.0061
JW5196	<i>yciO</i>	Putative RNA bindin	-0.0475	0.1426
JW5197	<i>yciQ</i>	Enhancer of membr	0.0864	0.0036
JW5198	<i>yciX</i>	CP4-44 prophage; p	0.0149	0.754
JW5199	<i>yciX</i>	CP4-44 prophage; p	-0.0166	0.6771
JW5200	<i>yciW</i>	Putative oxidoreduc	0.1132	0.0063
JW5201	<i>puuA</i>	Glutamate--putresci	0.0522	0.0681
JW5202	<i>ycjR</i>	Putative TIM alpha/t	-0.1126	0.0855
JW5203	<i>ymjB</i>	CP4-44 prophage; p	0.0154	0.5686
JW5205	<i>abgA</i>	P-aminobenzoyl-glu	0.0473	0.159
JW5206	<i>ydaM</i>	Diguanylate cyclase,	0.043	0.6309
JW5207	<i>ydaQ</i>	Rac prophage; conse	-0.044	0.1522
JW5208	<i>lar</i>	Rac prophage; restri	0.0457	0.1739
JW5209	<i>sieB</i>	Phage superinfectio	-0.0702	0.1919
JW5210	<i>ydaG</i>	Uncharacterized pro	0.0059	0.8135
JW5211	<i>ydaW</i>	Rac prophage; pseuc	0.024	0.5496
JW5212	<i>rzpR</i>	Pseudogene, Rac prc	-0.0702	0.2051
JW5213	<i>rzoR</i>	Rac prophage; putat	-0.0698	0.1612
JW5215	<i>ydbJ</i>	DUF333 family puta	0.0446	0.1815
JW5216	<i>ydbL</i>	DUF1318 family pro	0.0355	0.2816
JW5217	<i>paaD</i>	Ring 1,2-phenylacet	0.0733	0.0538
JW5218	<i>paaK</i>	Phenylacetate-coenz	0.0007	0.0039
JW5221	<i>ydbD</i>	DUF2773 family mel	0.0628	0.067
JW5224	<i>cybB</i>	Cytochrome b561	-0.0571	0.0798
JW5225	<i>hokB</i>	Toxic polypeptide, s1	-0.0508	0.1963
JW5226	<i>ydcl</i>	Putative DNA-bindir	0.0085	0.7597

JW5227	<i>yncK</i>	CP4-44 prophage; p	-0.0481	0.0633
JW5228	<i>ydcM</i>	IS609 transposase B	-0.0778	0.0036
JW5229	<i>ydcO</i>	Bene family inner mε	0.0374	0.5638
JW5230	<i>yncN</i>	Mrna interferase tox	-0.0001	0.9977
JW5232	<i>ydcX</i>	DUF2566 family pro	0.0679	0.0117
JW5233	<i>yncA</i>	Methionine N-acyltr	0.0119	0.703
JW5234	<i>ansP</i>	L-asparagine transpc	-0.0795	0.0091
JW5235	<i>yncH</i>	IPR020099 family pi	0.0442	0.3481
JW5237	<i>yncM</i>	CP4-44 prophage; p	-0.0544	0.1409
JW5238	<i>sfcA</i>	Malate dehydrogena	-0.0328	0.2943
JW5239	<i>bdm</i>	Biofilm-dependent r	0.0023	0.9388
JW5240	<i>ddpA</i>	D,D-dipeptide ABC t	-0.086	0.0345
JW5241	<i>yddV</i>	Diguanylate cyclase,	-0.0043	0.914
JW5242	<i>yddA</i>	Putative multidrug A	0.0051	0.8294
JW5243	<i>ydeN</i>	Putative Ser-type pei	-0.0435	0.4243
JW5244	<i>yneL</i>	Pseudogene, arac fai	-0.1236	0.0281
JW5245	<i>yneE</i>	Bestrophin family pu	-0.0477	0.1328
JW5247	<i>ynel</i>	Succinate semialdeh	-0.0655	0.0296
JW5248	<i>marR</i>	Transcriptional reprε	0.0353	0.1588
JW5249	<i>marA</i>	Multiple antibiotic ri	0.0603	0.0666
JW5250	<i>eamA</i>	Cysteine and O-acety	-0.0036	0.9235
JW5251	<i>ynfO</i>	Uncharacterized pro	-0.0578	0.2179
JW5252	<i>ydfO</i>	Qin prophage; DUF1	-0.0211	0.6669
JW5253	<i>gnsB</i>	Qin prophage; multi	0.006	0.8907
JW5254	<i>ynfN</i>	Qin prophage; cold s	0.0229	0.2755
JW5255	<i>essQ</i>	Qin prophage; putat	0.0128	0.7281
JW5257	<i>ynfP</i>	CP4-44 prophage; p	0.0192	0.53
JW5258	<i>ynfC</i>	UPF0257 family lipo	-0.0034	0.9224
JW5259	<i>ynfD</i>	DUF1161 family per	0.0029	0.9369
JW5260	<i>ynfF</i>	S- and N-oxide redu	-0.0321	0.391
JW5261	<i>ynfH</i>	Oxidoreductase, mei	-0.1104	0.0053
JW5262	<i>dmsD</i>	Twin-argininine leade	0.08	0.153
JW5263	<i>clcB</i>	H(+)/Cl(-) exchange i	-0.0874	0.0274
JW5264	<i>ynfK</i>	Putative dethiobiotii	-0.0215	0.2811
JW5265	<i>ydgJ</i>	Putative oxidoreduc	0.0224	0.4841
JW5267	<i>slyA</i>	Global transcription	-0.0372	0.1038
JW5270	<i>ydhO</i>	Murein DD-endopep	0.1036	0.0034
JW5271	<i>ydhX</i>	Putative 4Fe-4S ferri	0.0149	0.818
JW5272	<i>ydhV</i>	Putative oxidoreduc	0.0331	0.4364
JW5273	<i>sufB</i>	Component of sufbr	-0.0405	0.3297
JW5274	<i>ydiN</i>	Putative MFS transp	-0.0075	0.8338
JW5275	<i>ydiO</i>	Putative acyl-coa del	0.0422	0.2909
JW5276	<i>ydiQ</i>	Putative electron tra	0.0022	0.9576
JW5278	<i>arpB</i>	CP4-44 prophage; p	0.013	0.7718
JW5280	<i>pfkB</i>	6-phosphofructokir	0.0419	0.255

JW5281	<i>ydjM</i>	Inner membrane pro	-0.0686	0.0652
JW5282	<i>astD</i>	Succinylglutamic ser	-0.301	0
JW5283	<i>ydjY</i>	Putative ferredoxin-	0.0051	0.9027
JW5284	<i>ynjB</i>	Putative ABC transp	-0.1072	0.1064
JW5285	<i>ynjC</i>	Putative ABC transp	0.0194	0.7025
JW5286	<i>ynjD</i>	Putative ABC transp	0.1425	0.0008
JW5287	<i>ynjE</i>	Molybdopterin synt	0.0268	0.4603
JW5288	<i>ynjI</i>	Inner membrane pro	-0.0832	0.028
JW5289	<i>ydjH</i>	Putative kinase	-0.0083	0.6745
JW5290	<i>ydjK</i>	Putative MFS sugar t	0.0147	0.7066
JW5291	<i>yeaJ</i>	Putative diguanylate	0.0171	0.5966
JW5292	<i>yeaP</i>	Diguanylate cyclase	0.0946	0.0608
JW5293	<i>yeaV</i>	Putative transporter	0.043	0.184
JW5294	<i>yeaW</i>	Putative yeawx diox	0.1092	0.0177
JW5295	<i>yoaB</i>	Putative reactive int	0.0378	0.242
JW5296	<i>yoaC</i>	DUF1889 family pro	0.0738	0.1112
JW5298	<i>yobH</i>	Uncharacterized pro	0.0043	0.8535
JW5299	<i>yebQ</i>	Putative transporter	-0.0222	0.5722
JW5300	<i>proQ</i>	RNA chaperone proc	-0.033	0.3443
JW5301	<i>yebU</i>	16S rrna m(5)C1407	0.0723	0.097
JW5302	<i>yebV</i>	Uncharacterized pro	0.0507	0.1019
JW5303	<i>yebW</i>	Uncharacterized pro	-0.0628	0.18
JW5304	<i>yebA</i>	Murein DD-endopep	0.1323	0.0197
JW5306	<i>yebB</i>	DUF830 family prot	0.041	0.1388
JW5307	<i>yecD</i>	Isochorismatase far	0.0264	0.3532
JW5308	<i>yecN</i>	MAPEG family inner	0.0928	0.1249
JW5309	<i>yecM</i>	Putative metal-bindi	-0.1064	0.0112
JW5310	<i>yecT</i>	Uncharacterized pro	0.0272	0.3054
JW5312	<i>otsA</i>	Trehalose-6-phosph	-0.0172	0.2718
JW5313	<i>yedO</i>	D-cysteine desulfhy	0.0712	0.14
JW5316	<i>fliO</i>	Flagellar biosynthesi	-0.055	0.2617
JW5317	<i>yodD</i>	Uncharacterized pro	0.0085	0.8017
JW5319	<i>yedS</i>	CP4-44 prophage; p	-0.0065	0.7986
JW5322	<i>yedW</i>	Response regulator I	-0.0663	0.0138
JW5323	<i>yodB</i>	Cytochrome b561 h	0.0532	0.0497
JW5325	<i>yeeL</i>	CP4-44 prophage; p	0.0195	0.6448
JW5326	<i>yoaA</i>	CP4-44 prophage; p	0.0566	0.2633
JW5327	<i>yeeP</i>	Pseudogene, CP4-44	0.137	0.0011
JW5328	<i>yoaF</i>	Pseudogene, CP4-44	-0.0437	0.39
JW5329	<i>dacD</i>	D-alanyl-D-alanine c	-0.0002	0.0878
JW5330	<i>yeeF</i>	Putrescine importer,	-0.0269	0.5186
JW5331	<i>yoaB</i>	Toxin of the yoeb-ye	-0.0014	0.9562
JW5335	<i>nudD</i>	GDP-mannose manr	0.0883	0.0037
JW5336	<i>yegH</i>	Inner membrane pro	-0.0337	0.2359
JW5338	<i>mdtA</i>	Multidrug efflux sys	0.097	0.0094

JW5339	<i>yegP</i>	UPF0339 family pro	0.0661	0.05
JW5340	<i>gatR</i>	CP4-44 prophage; p	-0.1071	0
JW5343	<i>gatY</i>	D-tagatose 1,6-bispl	-0.0533	0.1967
JW5344	<i>fbaB</i>	Fructose-bisphosph	-0.0435	0.1498
JW5345	<i>yegX</i>	Putative family 25 gl	0.0649	0.0256
JW5346	<i>yohN</i>	Periplasmic modulat	0.0211	0.3383
JW5349	<i>yehL</i>	Putative hexameric A	-0.0143	0.6327
JW5350	<i>yehP</i>	VMA domain putativ	0.154	0.0055
JW5351	<i>yehR</i>	Lipoprotein, DUF13l	0.0158	0.5178
JW5352	<i>yehT</i>	Response regulator i	-0.0389	0.1293
JW5353	<i>yehU</i>	Sensory kinase regu	0.0571	0.2162
JW5354	<i>yohO</i>	Putative membrane j	0.1162	0.0557
JW5355	<i>pbpG</i>	D-alanyl-D-alanine e	0.0558	0.1819
JW5356	<i>yohC</i>	Yip1 family inner me	-0.0431	0.4198
JW5358	<i>yohH</i>	CP4-44 prophage; p	0.0023	0.952
JW5359	<i>yeiS</i>	DUF2542 family pro	-0.0453	0.0815
JW5361	<i>yeiW</i>	UPF0153 cysteine cl	-0.0265	0.5589
JW5362	<i>yeiP</i>	Elongation factor P-I	0.0337	0.4442
JW5363	<i>bcr</i>	Bicyclomycin/cysteir	-0.0421	0.1776
JW5366	<i>ccmA</i>	Heme export ABC tra	0.0062	0.7883
JW5367	<i>napB</i>	Nitrate reductase, sr	-0.0662	0.0726
JW5368	<i>yojL</i>	Putative thiamine-sy	0.1503	0.0001
JW5371	<i>yfaZ</i>	Outer membrane pro	0.0271	0.1461
JW5372	<i>yfbE</i>	Uridine 5'-(beta-1-tf	-0.0982	0.0033
JW5373	<i>yfbJ</i>	Undecaprenyl phosφ	-0.0425	0.1923
JW5374	<i>menD</i>	2-succinyl-5-enolpy	0.0015	0.9535
JW5375	<i>nuoC</i>	NADH:ubiquinone o	0.1487	0.022
JW5376	<i>yfbT</i>	Hexitol phosphatasε	-0.0598	0.2595
JW5377	<i>yfcE</i>	Phosphodiesterase i	0.0316	0.323
JW5378	<i>dedD</i>	Membrane-anchorei	-0.0353	0.5595
JW5380	<i>trmC</i>	Fused 5-methylamin	-0.0331	0.3922
JW5381	<i>yfcM</i>	Elongation Factor P I	0.0001	0.9963
JW5382	<i>yfdI</i>	Serotype-specific glu	0.0424	0.1238
JW5384	<i>yfdL</i>	Pseudogene, CPS-53	0.0142	0.66
JW5387	<i>torI</i>	Response regulator i	-0.0744	0.141
JW5388	<i>ypdA</i>	Sensor kinase regula	-0.0256	0.5285
JW5389	<i>ypdH</i>	Putative enzyme IIB i	-0.0049	0.9052
JW5391	<i>yfeA</i>	Putative diguanylate	0.0112	0.7771
JW5394	<i>ucpA</i>	Furfural resistance p	-0.0116	0.6141
JW5395	<i>yfeW</i>	Penicillin binding pri	0.0464	0.147
JW5396	<i>ypfH</i>	Palmitoyl-coa estera	-0.0465	0.3737
JW5397	<i>hda</i>	Atpase regulatory fa	-0.045	0.0618
JW5399	<i>yfgG</i>	Uncharacterized pro	-0.0078	0.8281
JW5400	<i>yfgH</i>	Outer membrane int	-0.012	0.8031
JW5401	<i>guaB</i>	IMP dehydrogenase	-0.0276	0.2688

JW5402	<i>yfgJ</i>	DUF1407 family pro	-0.0205	0.2841
JW5404	<i>sseB</i>	Rhodanase-like enzy	0.0278	0.5021
JW5405	<i>yphG</i>	DUF4380 domain-ci	-0.009	0.6886
JW5406	<i>yphH</i>	Putative DNA-bindir	0.0372	0.3418
JW5407	<i>yfhK</i>	Sensor protein kinas	0.0343	0.3679
JW5408	<i>yfhB</i>	Phosphatidylglycero	-0.1049	0.0046
JW5409	<i>yfiP</i>	DTW domain proteir	-0.0579	0.1382
JW5412	<i>yfiL</i>	Lipoprotein	-0.0409	0.1756
JW5413	<i>rimM</i>	Ribosome maturatio	-0.2984	0.0006
JW5415	<i>yfiD</i>	UPF0053 family inn	-0.0209	0.5283
JW5416	<i>recN</i>	Recombination and	-0.0086	0.8236
JW5418	<i>yfiO</i>	CP4-57 prophage; u	0.0343	0.4329
JW5419	<i>yfiP</i>	CP4-57 prophage; 5	0.1371	0.0213
JW5420	<i>ypjM</i>	CP4-44 prophage; p	0.0163	0.7958
JW5421	<i>ypjJ</i>	Uncharacterized pro	-0.0174	0.3634
JW5422	<i>ypjA</i>	Adhesin-like autotra	-0.107	0.0008
JW5424	<i>ypjC</i>	Uncharacterized pro	0.05	0.2442
JW5425	<i>ygaQ</i>	CP4-44 prophage; p	0.0322	0.2784
JW5426	<i>yqaC</i>	CP4-44 prophage; p	0.0217	0.6945
JW5427	<i>ygaT</i>	Carbon starvation pi	-0.0464	0.1397
JW5428	<i>ygaY</i>	CP4-44 prophage; p	-0.0051	0.8837
JW5429	<i>srlA</i>	Glucitol/sorbitol-spi	-0.0282	0.4723
JW5430	<i>srlE</i>	Glucitol/sorbitol-spi	-0.0868	0.0097
JW5431	<i>gutQ</i>	D-arabinose 5-phos	0.0497	0.147
JW5433	<i>hypF</i>	Carbamoyl phospho	0.1155	0.02
JW5434	<i>ascG</i>	Asc operon transcrip	-0.0225	0.2512
JW5435	<i>ascF</i>	Cellobiose/arbutin/s	0.0358	0.2781
JW5437	<i>rpoS</i>	RNA polymerase, sig	0.0351	0.4698
JW5438	<i>ygbF</i>	CRISPR adaptation s	0.1775	0.0009
JW5440	<i>ygcQ</i>	Putative flavoproteir	0.0349	0.2701
JW5441	<i>ygcR</i>	Putative flavoproteir	-0.0778	0.0725
JW5442	<i>ygcU</i>	Putative FAD-linked	-0.0143	0.6573
JW5443	<i>ygcW</i>	Putative SDR family	-0.0489	0.29
JW5444	<i>ygcE</i>	Putative kinase	0.0029	0.9411
JW5445	<i>ygcG</i>	TPM domain proteir	-0.023	0.5546
JW5446	<i>exo</i>	Ssb-binding protein,	0.0385	0.3067
JW5448	<i>ygdI</i>	DUF903 family verifi	0.003	0.9351
JW5449	<i>amiC</i>	N-acetylmuramoyl-L	-0.0019	0.9256
JW5450	<i>ygdB</i>	DUF2509 family pro	-0.022	0.4573
JW5451	<i>ppdB</i>	Putative prepilin peç	0.0411	0.3561
JW5453	<i>yqeF</i>	Short chain acyltran:	-0.0624	0.0436
JW5454	<i>yqeH</i>	Putative luxr family t	0.1268	0.0105
JW5455	<i>yqeJ</i>	Uncharacterized pro	-0.0383	0.4357
JW5456	<i>ygeI</i>	Uncharacterized pro	-0.0006	0.9917
JW5457	<i>pbl</i>	CP4-44 prophage; p	-0.0308	0.3569

JW5458	<i>ygeK</i>	CP4-44 prophage; p	0.0319	0.3697
JW5459	<i>ygeM</i>	CP4-44 prophage; p	-0.0188	0.4184
JW5460	<i>ygeN</i>	CP4-44 prophage; p	0.0785	0.003
JW5461	<i>ygeQ</i>	Uncharacterized pro	0.0433	0.247
JW5462	<i>xdhA</i>	Xanthine dehydroge	-0.0027	0.9133
JW5463	<i>ygeW</i>	Putative carbamoyl	0.0448	0.1366
JW5464	<i>yqeC</i>	Putative selenium-di	0.0048	0.8061
JW5466	<i>guaD</i>	Guanine deaminase	-0.0481	0.2055
JW5467	<i>ygfQ</i>	Guanine/hypoxanth	-0.0078	0.8028
JW5468	<i>ygfS</i>	Putative 4Fe-4S ferre	0.0288	0.3637
JW5469	<i>ygfT</i>	Putative oxidoreduc	-0.0186	0.5712
JW5470	<i>ygfU</i>	Uric acid permease	-0.0551	0.3218
JW5473	<i>ygfB</i>	UPF0149 family pro	0.0274	0.3221
JW5475	<i>rpiA</i>	Ribose 5-phosphate	-0.0064	0.8921
JW5476	<i>ygfi</i>	Putative DNA-bindir	-0.0339	0.1466
JW5477	<i>yggP</i>	Putative Zn-binding	-0.0139	0.6421
JW5478	<i>tktA</i>	Transketolase 1, thia	-0.0578	0.2939
JW5479	<i>yggU</i>	UPF0235 family pro	-0.024	0.3497
JW5481	<i>mltC</i>	Membrane-bound ly	0.0186	0.7146
JW5482	<i>speC</i>	Ornithine decarboxy	-0.0049	0.8282
JW5484	<i>yghF</i>	Pseudogene, secreti	0.0209	0.6242
JW5486	<i>glcF</i>	Glycolate oxidase 4F	0.08	0.1205
JW5487	<i>glcE</i>	Glycolate oxidase FA	0.0017	0.9519
JW5490	<i>yghQ</i>	Putative inner memt	0.0697	0
JW5491	<i>yghS</i>	Putative ATP-bindin	0.0294	0.1229
JW5492	<i>yghU</i>	Putative S-transferas	-0.0218	0.3089
JW5493	<i>hybF</i>	Protein involved witi	-0.0206	0.3843
JW5494	<i>hybB</i>	Putative hydrogenas	-0.0047	0.8717
JW5496	<i>yghY</i>	CP4-44 prophage; p	-0.0542	0.1257
JW5499	<i>dkgA</i>	2,5-diketo-D-glucon	0.0255	0.1095
JW5500	<i>yqhG</i>	DUF3828 family put	-0.0151	0.5716
JW5501	<i>ygiQ</i>	Radical SAM superfa	0.0147	0.5822
JW5502	<i>ygiV</i>	Probable transcripti	0.0444	0.2187
JW5503	<i>tolC</i>	Transport channel	-0.5387	0
JW5507	<i>yqiG</i>	Pseudogene; fimbria	0.0487	0.1569
JW5508	<i>yqiH</i>	Putative periplasmic	-0.0082	0.8178
JW5509	<i>yqil</i>	Fimbrial protein	-0.0714	0.0757
JW5510	<i>ygjG</i>	Putrescine:2-oxoglu	-0.0545	0.1062
JW5511	<i>ebgA</i>	Evolved beta-D-galac	-0.2174	0.0003
JW5512	<i>ygjI</i>	Putative transporter	-0.0027	0.8591
JW5513	<i>ygjO</i>	23S rRNA m(2)G183	-0.0623	0.1674
JW5514	<i>ygjP</i>	UTP pyrophosphata	0.0457	0.3199
JW5515	<i>alx</i>	Putative membrane-	0.0512	0.1793
JW5516	<i>yqjC</i>	DUF1090 family put	-0.0087	0.7751
JW5517	<i>yhaL</i>	Uncharacterized pro	0.0377	0.2852

JW5518	<i>yhaM</i>	Putative L-serine def	0.0834	0.0253
JW5519	<i>yhaO</i>	Putative transporter	0.0214	0.5777
JW5520	<i>tdcG</i>	L-serine dehydratase	0.0515	0.1655
JW5522	<i>tdcE</i>	Pyruvate formate-lyase	-0.0103	0.6843
JW5525	<i>tdcR</i>	L-threonine dehydratase	-0.0511	0.4366
JW5526	<i>garR</i>	Tartronate semialdehyde dehydrogenase	0.0455	0.0446
JW5527	<i>agaA</i>	Pseudogene, N-acetylglucosaminidase	0.0084	0.6851
JW5528	<i>yraR</i>	Putative nucleoside diphosphate kinase	-0.0113	0.7636
JW5529	<i>yhbO</i>	Stress-resistance protein	0.0712	0.1125
JW5531	<i>deaD</i>	ATP-dependent RNA polymerase	-0.0061	0.8926
JW5533	<i>yhbC</i>	Ribosome maturation factor	0.021	0.6925
JW5534	<i>yhbX</i>	Putative eptab family protein	0.0677	0.1186
JW5536	<i>arcB</i>	Aerobic respiration cytochrome	-0.0261	0.6282
JW5538	<i>nanK</i>	N-acetylmannosaminidase	0.0036	0.917
JW5539	<i>yhcB</i>	DUF1043 family inner membrane protein	-0.0234	0.4229
JW5540	<i>yhcN</i>	Cadmium and peroxide stress protein	0.0058	0.8228
JW5542	<i>yhdP</i>	DUF3971-asma2 domain protein	-0.002	0.9361
JW5543	<i>yhdJ</i>	DNA adenine methyltransferase	-0.0034	0.8987
JW5544	<i>yhdX</i>	Putative amino acid transporter	0.0334	0.3161
JW5545	<i>yhdY</i>	Putative amino acid transporter	-0.0735	0.0891
JW5546	<i>zraP</i>	Zn-dependent periplasmic protein	0.0132	0.7212
JW5547	<i>nfi</i>	Endonuclease V; deoxyribose	0.0437	0.1863
JW5548	<i>nudC</i>	NADH pyrophosphatase	-0.0568	0.3859
JW5549	<i>thiG</i>	Thiamine biosynthesis protein	0.0048	0.8937
JW5551	<i>sthA</i>	Pyridine nucleotide interconverting	-0.0556	0.1372
JW5553	<i>argB</i>	Acetylglutamate kinase	-0.0288	0.4398
JW5555	<i>ptsA</i>	Putative PTS enzyme	0.0433	0.1458
JW5556	<i>gldA</i>	Glycerol dehydrogenase	-0.106	0.0076
JW5557	<i>yijE</i>	Eama-like transporter	0.0202	0.5577
JW5558	<i>cpxP</i>	Inhibitor of the cpx regulon	-0.0048	0.8473
JW5559	<i>yiiM</i>	6-N-hydroxylaminopyrimidine	-0.077	0.0793
JW5560	<i>kdgT</i>	2-keto-3-deoxy-D-glucose	-0.0129	0.7321
JW5562	<i>frvB</i>	Putative PTS enzyme	0.038	0.3265
JW5563	<i>yiiF</i>	Putative thymol sensor	0.0024	0.9385
JW5566	<i>yihX</i>	Alpha-D-glucose-1-phosphatase	-0.0367	0.4617
JW5567	<i>yihW</i>	Putative transcription factor	-0.0291	0.4231
JW5568	<i>yihV</i>	6-deoxy-6-sulphophosphatase	0.0991	0.0897
JW5569	<i>yihS</i>	Sulphoquinovose isomerase	0.0072	0.773
JW5571	<i>bipA</i>	GTP-binding protein	-0.2043	0.0002
JW5574	<i>yihF</i>	DUF945 family protein	-0.0377	0.1865
JW5575	<i>mobB</i>	Molybdopterin-guanidyltransferase	0.0332	0.0522
JW5576	<i>trkH</i>	Potassium transporter	0.0833	0.0369
JW5577	<i>yigZ</i>	UPF0029 family protein	-0.0874	0.0867
JW5578	<i>fadA</i>	3-ketoacyl-coa thiolase	0.0336	0.3791
JW5580	<i>tatB</i>	Tatabce protein translocator	0.0377	0.2454

JW5581	<i>ubiE</i>	Bifunctional 2-octap	-0.1514	0.0018
JW5584	<i>pldB</i>	Lysophospholipase	-0.0515	0.1768
JW5585	<i>rhtB</i>	Homoserine, homos	-0.0225	0.4473
JW5586	<i>rhtC</i>	Threonine efflux pur	0.0323	0.436
JW5588	<i>yigI</i>	4HBT thioesterase f2	-0.0538	0.0584
JW5589	<i>rarD</i>	Putative chloramphē	0.0109	0.8154
JW5590	<i>yigG</i>	PRK11371 family ini	0.0714	0.0197
JW5591	<i>yigE</i>	DUF2233 family pro	-0.0493	0.2884
JW5592	<i>dapF</i>	Diaminopimelate epi	0.1032	0.0636
JW5594	<i>aslB</i>	Putative asla-specifi	-0.0027	0.8336
JW5595	<i>yifK</i>	Putative APC family ;	0.1803	0.0031
JW5596	<i>rffT</i>	TDP-Fuc4NAc:lipidiii	-0.0543	0.0188
JW5597	<i>rffC</i>	TDP-fucosamine ace	-0.0193	0.4722
JW5599	<i>rffD</i>	UDP-N-acetyl-D-mai	0.0779	0.0179
JW5600	<i>rffE</i>	UDP-N-acetyl glucos	0.0531	0.2754
JW5601	<i>wzzE</i>	Entobacterial Comm	-0.0297	0.3669
JW5603	<i>gpp</i>	Guanosine pentaphi	0.0329	0.3993
JW5604	<i>rep</i>	DNA helicase and sir	-0.0075	0.6027
JW5605	<i>ilvD</i>	Dihydroxyacid dehyi	-0.0101	0.7526
JW5606	<i>ilvE</i>	Branched-chain amii	0.0385	0.4716
JW5607	<i>hdfR</i>	Flhdc operon transc	0.0172	0.5031
JW5608	<i>yieP</i>	Putative transcriptio	-0.0526	0.4039
JW5609	<i>trkD</i>	Potassium transport	0.0318	0.0718
JW5610	<i>yieM</i>	Stimulator of rava at	0.0072	0.7084
JW5611	<i>atpI</i>	ATP synthase, memt	-0.0137	0.6386
JW5612	<i>yieL</i>	Putative xylanase	0.0702	0.254
JW5613	<i>yieK</i>	Putative 6-phospho	0.1396	0.0222
JW5619	<i>tnaB</i>	CP4-44 prophage; p	0.0662	0.0725
JW5627	<i>dgoR</i>	D-galactonate catabi	-0.0129	0.5108
JW5628	<i>dgoA</i>	2-oxo-3-deoxygalact	-0.0039	0.9317
JW5629	<i>dgoD</i>	D-galactonate dehydc	0.0187	0.6576
JW5631	<i>cbrA</i>	Colicin M resistance	0.0848	0.0294
JW5633	<i>ydqQ</i>	DUF1375 family out	-0.0241	0.3885
JW5634	<i>emrD</i>	Multidrug efflux sys	-0.0222	0.4377
JW5636	<i>yicO</i>	Adenine permease, h	-0.0207	0.5749
JW5637	<i>yicN</i>	DUF1198 family pro	0.0028	0.9568
JW5641	<i>ttk</i>	Nucleoid occlusion i	0.0017	0.9639
JW5643	<i>yicR</i>	UPF0758 family pro	-0.0434	0.0334
JW5644	<i>htrL</i>	Yibb family protein, i	0.0591	0.0945
JW5645	<i>yibQ</i>	Putative polysacchar	-0.0357	0.3502
JW5646	<i>envC</i>	Activator of amib,C r	0.2035	0.0012
JW5648	<i>yiaY</i>	L-threonine dehydrdc	-0.0404	0.403
JW5650	<i>sgbU</i>	Putative L-xylulose 5	-0.0875	0.1562
JW5651	<i>yiaN</i>	2,3-diketo-L-gulonol	-0.0199	0.7674
JW5652	<i>avtA</i>	Valine-pyruvate amir	0.384	0.0008

JW5653	<i>bax</i>	Putative glucosamin	-0.1328	0.1362
JW5655	<i>viaF</i>	Barrier effect co-colo	-0.0842	0.0292
JW5656	<i>tiaE</i>	Glyoxylate/hydroxyg	0.0177	0.3164
JW5659	<i>yhjY</i>	Autotransporter bet	-0.0678	0.0778
JW5660	<i>eptB</i>	KDO phosphoethan	0.0343	0.4548
JW5663	<i>bcsF</i>	DUF2636 family cell	0.0552	0.2277
JW5665	<i>bcsA</i>	Cellulose synthase, c	-0.03	0.2441
JW5668	<i>kdgK</i>	2-dehydro-3-deoxyg	-0.0217	0.6316
JW5669	<i>hdeB</i>	Acid-resistance prot	0.0189	0.7178
JW5670	<i>yhiD</i>	Putative Mg(2+) trar	-0.0265	0.564
JW5672	<i>yhiQ</i>	16S rrna m(2)G151f	0.0311	0.1823
JW5674	<i>yhiK</i>	CP4-44 prophage; p	0.0901	0.0058
JW5676	<i>rbbA</i>	Ribosome-associate	0.03	0.3099
JW5677	<i>yhhJ</i>	Putative ABC transp	-0.0026	0.9382
JW5678	<i>yrhC</i>	CP4-44 prophage; p	-0.0147	0.8058
JW5679	<i>rhsB</i>	Rhs protein with DU	-0.0725	0.0981
JW5680	<i>yhhT</i>	UPF0118 family put	0.0015	0.039
JW5682	<i>dcrB</i>	Putative lipoprotein	0.0274	0.4426
JW5683	<i>yhhL</i>	DUF1145 family pro	0.0381	0.3048
JW5686	<i>gntU</i>	Gluconate transport	-0.0614	0.0838
JW5687	<i>glpG</i>	Rhomboid intramer	0.0221	0.5222
JW5688	<i>rtcA</i>	RNA 3'-terminal pho	0.0496	0.1244
JW5689	<i>malP</i>	Maltodextrin phosp	0.0093	0.7025
JW5690	<i>gntT</i>	Gluconate transport	0.0564	0.1765
JW5691	<i>gntX</i>	DNA catabolic prote	-0.0174	0.7455
JW5692	<i>hsIO</i>	Heat shock protein I	0.0219	0.7581
JW5693	<i>yrfD</i>	DNA catabolic putat	0.6202	0
JW5694	<i>yrfA</i>	DNA catabolic prote	0.0014	0.9739
JW5696	<i>yhfY</i>	PRD domain protein	-0.0395	0.48
JW5697	<i>yhfU</i>	DUF2620 family pro	0.017	0.5894
JW5698	<i>frlR</i>	Putative DNA-bindir	-0.0305	0.3029
JW5699	<i>frlC</i>	Fructoselysine 3-epi	0.0201	0.5825
JW5700	<i>frlB</i>	Fructoselysine-6-P-c	-0.0361	0.3464
JW5701	<i>yhfK</i>	Putative transporter	0.1075	0.0003
JW5702	<i>crp</i>	Camp-activated glob	0.0094	0.8515
JW5703	<i>yheO</i>	Putative PAS domair	-0.0779	0.099
JW5704	<i>gspM</i>	General secretory pa	0.0254	0.3516
JW5705	<i>gspL</i>	General secretory pa	0.1327	0.0037
JW5706	<i>gspI</i>	General secretory pa	0.0116	0.6431
JW5707	<i>gspD</i>	General secretory pa	-0.0002	0.9944
JW5708	<i>smf</i>	DNA recombination-	0.0321	0.4463
JW5710	<i>yrdA</i>	Bacterial transferase	-0.0645	0.3149
JW5711	<i>yjbF</i>	Extracellular polysac	0.0236	0.7148
JW5713	<i>ubiC</i>	Chorismate--pyruval	-0.0088	0.8275
JW5714	<i>zur</i>	Transcriptional repr	0.0335	0.5561

JW5716	<i>yjbO</i>	Phage shock protein	0.0064	0.9161
JW5718	<i>yjcB</i>	Putative inner memt	-0.0298	0.2867
JW5721	<i>yjcS</i>	Putative alkylsulfata:	0.003	0.8303
JW5727	<i>phnK</i>	Carbon-phosphorus	-0.0431	0.1303
JW5729	<i>yjcZ</i>	Yjcz family protein; y	0.0059	0.8561
JW5730	<i>eptA</i>	Phosphoethanolami	-0.0545	0.2094
JW5731	<i>adiA</i>	Arginine decarboxylk	-0.0521	0.2973
JW5732	<i>yjdO</i>	Toxin ghot	0.0007	0.9812
JW5733	<i>yjdC</i>	Putative transcriptio	0.0153	0.5941
JW5734	<i>dipZ</i>	Thiol:disulfide interc	-0.0305	0.4895
JW5735	<i>dcuA</i>	C4-dicarboxylate ani	-0.0448	0.1303
JW5736	<i>yjel</i>	DUF4156 family lipc	0.0093	0.7551
JW5737	<i>ecnA</i>	Entericidin A membr	-0.052	0.4278
JW5738	<i>sugE</i>	Multidrug efflux sys	-0.0109	0.8413
JW5739	<i>yjeM</i>	Putative transporter	0.0768	0.0012
JW5741	<i>rnr</i>	Exoribonuclease R, r	-0.0354	0.3417
JW5742	<i>yjfN</i>	DUF1471 family per	0.0523	0.0547
JW5743	<i>yjfO</i>	Bioflm peroxide resi:	0.0141	0.6006
JW5744	<i>ulaA</i>	L-ascorbate-specific	0.0218	0.5155
JW5745	<i>ytfB</i>	Oapa family protein	0.023	0.5032
JW5746	<i>fkIB</i>	FKBP-type peptidyl-l	-0.0604	0.1461
JW5747	<i>ytfH</i>	DUF24 family hxlr-ty	0.0119	0.6692
JW5748	<i>ytfI</i>	Uncharacterized pro	0.0349	0.2617
JW5749	<i>ytfK</i>	DUF1107 family pro	-0.0378	0.4577
JW5752	<i>ytfR</i>	Putative sugar ABC t	0.0145	0.6574
JW5753	<i>ytfT</i>	Putative sugar ABC t	-0.031	0.2016
JW5754	<i>yjfF</i>	Putative sugar ABC t	0.0835	0.0667
JW5755	<i>yjgF</i>	Enamine/imine dearr	0.0852	0.1585
JW5756	<i>yjgK</i>	Biofilm modulator rε	0.0952	0.0057
JW5757	<i>yjgL</i>	Sopa-central-domair	-0.0134	0.7256
JW5758	<i>yjgM</i>	GNAT family putativ	-0.0138	0.5957
JW5759	<i>yjgN</i>	DUF898 family inner	0.0247	0.5559
JW5761	<i>yjgB</i>	Broad specificity NA	0.0006	0.9864
JW5763	<i>yjgX</i>	CP4-44 prophage; p	-0.024	0.4913
JW5764	<i>yjgX</i>	CP4-44 prophage; p	-0.0193	0.4979
JW5768	<i>yjhB</i>	Putative MFS transp	0.0211	0.4408
JW5769	<i>yjhC</i>	GFO/IDH/MOCA farr	-0.0023	0.9588
JW5770	<i>yjhD</i>	CP4-44 prophage; p	0.0815	0.0252
JW5775	<i>yjhH</i>	Putative lyase/synth	0.0194	0.5301
JW5776	<i>sgcX</i>	Putative endoglucan	-0.0083	0.8183
JW5777	<i>yjhT</i>	N-acetylneuraminatε	-0.0319	0.3722
JW5778	<i>yjhA</i>	N-acetylneuraminic ar	0.0671	0.0185
JW5780	<i>fimD</i>	Fimbrial usher outer	0.0213	0.7061
JW5782	<i>yjiD</i>	Rpos stabilzer after l	-0.0487	0.1656
JW5783	<i>yjiH</i>	Nucleoside recogniti	0.0749	0.0381

JW5784	<i>kptA</i>	RNA 2'-phosphotrar	-0.0194	0.5097
JW5785	<i>yjiL</i>	Putative atpase, acti	0.0003	0.9908
JW5786	<i>yjiM</i>	Putative 2-hydroxyg	-0.0839	0.0348
JW5787	<i>yjiT</i>	Pseudogene	-0.012	0.8055
JW5789	<i>mcrC</i>	5-methylcytosine-sp	-0.0268	0.6326
JW5790	<i>yjiA</i>	Metal-binding gtpas	-0.0157	0.8083
JW5791	<i>yjiY</i>	Pyruvate/H+ sympor	-0.0303	0.4414
JW5792	<i>yjiM</i>	Putative transcriptio	-0.4007	0.0004
JW5793	<i>yjiN</i>	L-galactonate oxidor	0.058	0.0439
JW5794	<i>mdoB</i>	OPG periplasmic bio	0.0383	0.1441
JW5795	<i>yjiA</i>	Putative DUF2501 f	-0.1178	0.0035
JW5796	<i>yjiP</i>	DUF1212 family inn	0.0386	0.4007
JW5797	<i>yjiZ</i>	Uncharacterized pro	0.0455	0.04
JW5800	<i>nadR</i>	Trifunctional proteir	0.0493	0.3087
JW5801	<i>yjiX</i>	Non-canonical purir	-0.0643	0.0656
JW5802	<i>ydbA</i>	CP4-44 prophage; p	-0.0494	0.2204
JW5803	<i>ybhR</i>	Putative ABC transp	-0.0247	0.3646
JW5804	<i>ycjY</i>	S9 homolog non-pej	-0.0486	0.0354
JW5805	<i>hyfI</i>	Hydrogenase 4, Fe-S	-0.0864	0.0128
JW5806	<i>tdcD</i>	Propionate kinase/a	0.0371	0.3158
JW5808	<i>pcnB</i>	Poly(A) polymerase	-0.054	0.111
JW5811	<i>fhiA</i>	Pseudogene, flagella	-0.1108	0.1283
JW5812	<i>mbhA</i>	Pseudogene, lateral t	0.0034	0.9331
JW5813	<i>ykfC</i>	CP4-6 prophage; coi	0.034	0.3222
JW5814	<i>yaiF</i>	CP4-44 prophage; p	0.04	0.0664
JW5815	<i>tfaD</i>	CP4-44 prophage; p	0.0435	0.41
JW5816	<i>ybfE</i>	Lexa-regulated prote	-0.0009	0.9724
JW5818	<i>potG</i>	Putrescine ABC tran:	0.0954	0.0428
JW5819	<i>ybjS</i>	Putative NAD(P)H-d	-0.0585	0.2233
JW5820	<i>ycfS</i>	L,D-transpeptidase I	0.0092	0.8862
JW5821	<i>emtA</i>	Lytic murein endotr	0.0633	0.0028
JW5822	<i>abgT</i>	P-aminobenzoyl-glu	-0.1196	0.0252
JW5823	<i>ydch</i>	DUF465 family prot	-0.055	0.2892
JW5825	<i>yneF</i>	Putative membrane-	0.1571	0.1001
JW5826	<i>asr</i>	Acid shock-inducibl	0.2467	0.0037
JW5827	<i>ydhL</i>	DUF1289 family pro	-0.0529	0.3469
JW5830	<i>yebN</i>	Putative Mn(2+) effl	0	0.7018
JW5831	<i>znuA</i>	Zinc ABC transporter	0.0448	0.1602
JW5832	<i>yedQ</i>	Putative membrane-	0.008	0.8024
JW5834	<i>yeeY</i>	Lysr family putative i	-0.0302	0.5455
JW5836	<i>cld</i>	Regulator of length c	0.057	0.1731
JW5837	<i>yegR</i>	Uncharacterized pro	0.0004	0.0092
JW5838	<i>yohG</i>	CP4-44 prophage; p	0.0219	0.6944
JW5839	<i>yejO</i>	Pseudogene, autotr	0.0125	0.6316
JW5840	<i>elaD</i>	Protease, capable of	-0.1019	0.0582

JW5841	<i>prmB</i>	N5-glutamine methy	0.0368	0.5464
JW5842	<i>yphC</i>	Putative Zn-depende	-0.1124	0.0006
JW5843	<i>norR</i>	Anaerobic nitric oxic	-0.0219	0.5326
JW5844	<i>ygcl</i>	CRISP RNA (crrna) cc	-0.149	0.0037
JW5845	<i>ygcS</i>	Putative MFS sugar t	-0.1217	0.0233
JW5846	<i>ygeO</i>	Pseudogene, orga fa	-0.0129	0.6515
JW5847	<i>prfB</i>	Peptide chain releası	-0.014	0.5465
JW5848	<i>yghO</i>	Pseudogene, IS-inter	-0.0388	0.3535
JW5849	<i>yqhC</i>	Transcriptional activ	-0.0203	0.8237
JW5850	<i>yqjF</i>	Putative quinol oxid	0.0257	0.4305
JW5851	<i>pnp</i>	Polynucleotide phos	0.0627	0.2491
JW5852	<i>yihO</i>	Putative sulphoquin	0.0883	0.3056
JW5853	<i>ysgA</i>	Putative carboxymet	0.035	0.6245
JW5854	<i>yigL</i>	Pyridoxal phosphate	-0.0029	0.9034
JW5855	<i>recQ</i>	ATP-dependent DNA	-0.0228	0.58
JW5856	<i>trxA</i>	Thioredoxin 1	0.0057	0.8968
JW5857	<i>rbsD</i>	D-ribose pyranase	-0.0251	0.7557
JW5858	<i>vidX</i>	Putative lipoprotein	0.0255	0.1966
JW5859	<i>dgoT</i>	D-galactonate transı	0.0793	0.0064
JW5860	<i>vidR</i>	DUF3748 family pro	0.0354	0.2498
JW5864	<i>yrhA</i>	Pseudogene, interrü	-0.0396	0.2355
JW5865	<i>yrfG</i>	GMP/IMP nucleotid	0.0596	0.0986
JW5867	<i>aidB</i>	DNA alkylation dam	-0.016	0.5958
JW5868	<i>ulaG</i>	L-ascorbate 6-phosı	-0.0349	0.1907
JW5869	<i>yjiK</i>	Sdia-regulated familı	-0.0426	0.2885
JW5871	<i>mcrB</i>	5-methylcytosine-sı	0.0755	0.1938
JW5873	<i>prfC</i>	Peptide chain releası	0.1115	0.0346
JW5874	<i>ydhM</i>	Transcriptional repre	-0.0358	0.4051
JW5875	<i>nuoB</i>	NADH:ubiquinone o	0.0215	0.6863
JW5876	<i>yfeH</i>	Putative inorganic io	0.025	0.3265
JW5877	<i>ypeB</i>	DUF3820 family pro	-0.0569	0.0884
JW5878	<i>csiE</i>	Stationary phase ind	0.0287	0.4991
JW5892	<i>yadB</i>	Glutamyl-Q trna(Ası	0.0659	0.0875
JW5893	<i>yahH</i>	Uncharacterized pro	0.0658	0.0978
JW5894	<i>cynR</i>	Transcriptional activ	0.1116	0.1371
JW5896	<i>ybhD</i>	Putative DNA-bindir	-0.0443	0.1941
JW5897	<i>yliA</i>	Glutathione ABC trai	0.0256	0.4091
JW5898	<i>yccW</i>	23S rrna m(5)C1962	-0.013	0.721
JW5901	<i>ycgH</i>	CP4-44 prophage; p	-0.0866	0.0483
JW5904	<i>lomR</i>	CP4-44 prophage; p	-0.0904	0.0185
JW5905	<i>hrpA</i>	Putative ATP-depenc	-0.0262	0.4981
JW5906	<i>gapC</i>	CP4-44 prophage; p	0.0327	0.1909
JW5907	<i>yncB</i>	Curcumin/dihydrocl	-0.0135	0.7316
JW5908	<i>yddM</i>	Putative DNA-bindir	0.3552	0.0393
JW5909	<i>ydfU</i>	Qin prophage; DUF9	-0.0022	0.9454

JW5910	<i>ydiD</i>	Medium-chain fatty-	0.0562	0.5272
JW5911	<i>yniD</i>	Uncharacterized pro	-0.0187	0.4682
JW5912	<i>yedN</i>	CP4-44 prophage; p	0.0172	0.6704
JW5913	<i>intG</i>	CP4-44 prophage; p	0.0109	0.8156
JW5915	<i>molR</i>	CP4-44 prophage; p	0.0856	0.0105
JW5916	<i>molR</i>	CP4-44 prophage; p	-0.0014	0.9648
JW5917	<i>rscC</i>	CP4-44 prophage; p	0.0131	0.7198
JW5921	<i>yfjS</i>	CP4-57 prophage; u	-0.0015	0.9601
JW5923	<i>ygfK</i>	Putative Fe-S subuni	0.043	0.0413
JW5924	<i>yghE</i>	CP4-44 prophage; p	0.0846	0.0074
JW5925	<i>yghJ</i>	Putative secreted an	-0.0534	0.1289
JW5926	<i>yghX</i>	CP4-44 prophage; p	-0.0449	0.1164
JW5927	<i>ygiB</i>	DUF1190 family pro	0.0178	0.3741
JW5929	<i>yiiE</i>	Copg family putative	-0.0302	0.4433
JW5931	<i>tatD</i>	Quality control of Ta	-0.069	0.0022
JW5937	<i>ysdC</i>	CP4-44 prophage; p	0.0291	0.3287
JW5938	<i>yicM</i>	Putative transporter	0.0871	0.1302
JW5939	<i>yicJ</i>	Putative transporter	-0.0103	0.6325
JW5940	<i>bisC</i>	Biotin sulfoxide red	0.0872	0.0004
JW5941	<i>yhjQ</i>	CP4-44 prophage; p	0.0393	0.3432
JW5942	<i>bcsC</i>	Cellulose synthase s	-0.0482	0.1226
JW5943	<i>yhjK</i>	Cyclic-di-GMP phos	0.0355	0.3838
JW5944	<i>yhiM</i>	Acid resistance prot	0.009	0.5994
JW5945	<i>yhhS</i>	Putative arabinose e	0.0026	0.9352
JW5946	<i>gntR</i>	D-gluconate inducib	-0.034	0.2597
JW5947	<i>aroK</i>	Shikimate kinase 1	-0.0126	0.5728
JW5948	<i>yhfZ</i>	Putative DNA-bindir	0.0444	0.057
JW5949	<i>yrdD</i>	Ssdna-binding prote	-0.0178	0.5967
JW5950	<i>yjbN</i>	Trna-dihydrouridine	0.0209	0.5231
JW5952	<i>yjhU</i>	Putative DNA-bindir	-0.044	0.0653
JW5953	<i>yjiP</i>	CP4-44 prophage; p	0.0538	0.1816
JW5954	<i>yjiV</i>	CP4-44 prophage; p	0.0078	0.6908
JW5955	<i>bglI</i>	Bgl operon transcrip	-0.0974	0.0315
JW5956	<i>ykfH</i>	Uncharacterized pro	-0.0155	0.6173
JW5960	<i>ymjC</i>	Pseudogene	-0.0084	0.7474
JW5962	<i>sra</i>	Stationary-phase-inc	0.034	0.5359
JW5963	<i>blr</i>	Beta-lactam resistan	-0.0275	0.4834
JW5964	<i>ypaA</i>	CP4-44 prophage; p	-0.0503	0.2689
JW5965	<i>yicS</i>	Putative periplasmic	0.029	0.3327
JW5967	<i>sgcB</i>	Putative enzyme IIB	0.1681	0.0004
JW5968	<i>yjhX</i>	UPF0386 family pro	-0.0607	0.3753
JW5970	<i>yccV</i>	Heat shock protein I	-0.0345	0.3263