

Table S1. Fold changes in gene expression for *X. fastidiosa* cells grown on XFM media compared with PWG

Gene name	Function	Fold changes					
		XFM/PWG	XFM- pectin/XFM	XFM- glucan/XFM	XFM- pectin/PWG	XFM- glucan/PWG	XFM- pectin/XFM- glucan
PD0001	chromosomal replication initiation protein	1.097 up	1.198 down	1.058 down	1.092 down	1.036 up	1.132 down
PD0002	DNA polymerase III subunit beta	1.039 up	1.001 down	1.139 up	1.037 up	1.184 up	1.141 down
PD0003	recombination protein F	1.004 up	1.214 up	1.182 up	1.219 up	1.187 up	1.027 up
PD0004	hypothetical protein	1.164 up	1.146 down	1.006 up	1.015 up	1.172 up	1.154 down
PD0005	DNA gyrase subunit B	1.247 up	1.108 up	1.027 up	1.382 up	1.281 up	1.079 up
PD0006	hypothetical protein	1.063 up	1.002 down	1.236 down	1.060 up	1.162 down	1.233 up
PD0007	hypothetical protein	1.311 down	1.265 up	1.068 up	1.036 down	1.226 down	1.183 up
PD0008	hypothetical protein	1.287 up	1.138 down	1.277 down	1.131 up	1.008 up	1.121 up
PD0009	TonB protein	1.037 down	1.073 down	1.050 up	1.114 down	1.012 up	1.128 down
PD0010	biopolymer transport ExbB protein	1.046 down	1.155 up	1.016 up	1.103 up	1.029 down	1.136 up
PD0011	biopolymer transport ExbD1 protein	1.146 up	1.152 down	1.215 up	1.005 down	1.393 up	1.400 down
PD0012	biopolymer transport ExbD2 protein	1.031 up	1.140 up	1.010 down	1.175 up	1.021 up	1.151 up
PD0013	dipeptidyl-peptidase	1.154 up	1.262 down	1.369 down	1.093 down	1.186 down	1.085 up
PD0014	hypothetical protein	1.159 down	1.327 up	1.086 up	1.145 up	1.066 down	1.222 up
PD0015	coproporphyrinogen III oxidase	1.258 down	1.115 down	1.067 down	1.404 down	1.343 down	1.045 down
PD0017	hypothetical protein	1.162 up	1.247 down	1.007 down	1.073 down	1.153 up	1.238 down
PD0018	3-deoxy-7-phosphoheptulonate synthase	1.117 up	1.203 down	1.101 down	1.076 down	1.014 up	1.092 down

PD0019	pre-pilin like leader sequence	1.166 down	1.145 down	1.147 down	1.336 down	1.338 down	1.001 up
PD0020	pre-pilin leader sequence	1.035 down	1.062 up	1.075 down	1.026 up	1.112 down	1.142 up
PD0021	hypothetical protein	1.192 up	1.263 down	1.493 down	1.059 down	1.252 down	1.182 up
PD0022	PilX protein	1.021 down	1.137 up	1.066 up	1.113 up	1.044 up	1.066 up
PD0023	PilY1 protein homolog	1.165 down	1.208 down	1.256 down	1.407 down	1.463 down	1.040 down
PD0024	PilE protein	1.136 up	1.087 up	1.015 up	1.236 up	1.153 up	1.071 up
PD0025	orotidine 5'-phosphate decarboxylase	1.108 down	1.039 up	1.012 up	1.066 down	1.094 down	1.025 up
PD0026	aspartate aminotransferase	1.069 up	1.059 up	1.199 up	1.133 up	1.282 up	1.131 down
PD0027	large-conductance mechanosensitive channel	1.183 up	1.001 down	1.305 down	1.182 up	1.102 down	1.303 up
PD0028	hypothetical protein	1.376 down	1.445 up	1.086 up	1.049 up	1.266 down	1.329 up
PD0029	hypothetical protein	1.465 up	1.043 down	1.327 down	1.404 up	1.103 up	1.272 up
PD0030	hypothetical protein	1.166 down	1.082 up	1.208 up	1.078 down	1.035 up	1.116 down
PD0031	transformation competence-related protein	1.076 up	1.047 down	1.095 down	1.027 up	1.017 down	1.046 up
PD0032	hypothetical protein	1.210 down	1.251 up	1.041 up	1.034 up	1.161 down	1.201 up
PD0033	transcription-repair coupling factor	1.153 down	1.052 down	1.052 up	1.213 down	1.095 down	1.107 down
PD0034	3-dehydroquinate dehydratase	1.104 down	1.008 down	1.139 down	1.114 down	1.257 down	1.129 up
PD0035	acetyl-CoA carboxylase	1.241 up	1.089 down	1.108 down	1.139 up	1.119 up	1.017 up
PD0036	acetyl-CoA carboxylase	1.069 down	1.189 up	1.068 up	1.112 up	1.000 down	1.113 up
PD0037	DNA helicase II	1.474 down	1.531 up	1.517 up	1.038 up	1.028 up	1.009 up
PD0038	flavohemoprotein	1.068 down	1.230 down	1.268 down	1.315 down	1.354 down	1.030 up

PD0039	hypothetical protein	1.163 up	1.152 down	1.025 down	1.009 up	1.134 up	1.123 down
PD0040	pyridoxal phosphate biosynthetic protein	1.027 up	1.080 up	1.181 up	1.110 up	1.214 up	1.093 down
PD0041	transcriptional repressor	1.173 down	1.235 up	1.164 up	1.052 up	1.007 down	1.060 up
PD0042	competence protein F	1.201 down	1.203 down	1.263 down	1.446 down	1.518 down	1.050 up
PD0043	biotin synthase	1.208 up	1.165 down	1.223 down	1.037 up	1.012 down	1.050 up
PD0044	lipoprotein	1.070 down	1.210 up	1.022 down	1.130 up	1.094 down	1.237 up
PD0045	hypothetical protein	1.202 down	1.059 down	1.158 down	1.273 down	1.392 down	1.093 up
PD0046	4-hydroxybenzoate octaprenyltransferase	1.111 down	1.188 down	1.430 down	1.319 down	1.588 down	1.203 up
PD0053	formamidopyrimidine-DNA glycosylase	1.124 down	1.122 up	1.173 down	1.001 down	1.319 down	1.317 up
PD0054	hypothetical protein	1.132 up	1.139 up	1.070 down	1.290 up	1.057 up	1.220 up
PD0055	signal recognition particle protein	1.258 up	1.204 up	1.177 up	1.516 up	1.481 up	1.023 up
PD0056	hypothetical protein	1.047 down	1.071 down	1.294 down	1.122 down	1.355 down	1.208 up
PD0057	hypothetical protein	1.089 down	1.152 down	1.005 down	1.255 down	1.096 down	1.145 down
PD0058	fimbrial adhesin precursor	1.065 up	1.042 up	1.021 down	1.110 up	1.043 up	1.064 up
PD0060	outer membrane usher protein precursor	1.065 up	1.201 up	1.094 up	1.279 up	1.166 up	1.097 up
PD0061	chaperone protein precursor	1.038 up	1.021 up	1.144 up	1.060 up	1.187 up	1.119 down
PD0062	fimbrial subunit precursor	1.056 up	1.390 up	1.271 up	1.467 up	1.342 up	1.093 up
PD0063	hypothetical protein	1.046 up	1.156 up	1.127 up	1.210 up	1.179 up	1.025 up
PD0064	alpha-ketoglutarate permease symporter	1.009 up	1.162 up	1.050 up	1.173 up	1.060 up	1.105 up
PD0065	GTP-binding protein	1.084 down	1.124 down	1.215 down	1.220 down	1.318 down	1.080 up

PD0066	RNA-binding protein Hfq	1.287 up	1.195 up	1.272 up	1.539 up	1.637 up	1.063 down
PD0067	tRNA delta(2)-isopentenylpyrophosphate transferase	1.036 up	1.023 up	1.194 down	1.060 up	1.152 down	1.222 up
PD0068	dihydropteroate synthase	1.016 down	1.178 down	1.007 up	1.197 down	1.008 down	1.187 down
PD0069	hypothetical protein	1.046 down	1.559 up	1.253 up	1.490 up	1.198 up	1.243 up
PD0070	cell division protein	1.097 up	1.147 down	1.181 down	1.045 down	1.076 down	1.029 up
PD0071	cell division protein	1.047 down	1.104 up	1.058 down	1.054 up	1.109 down	1.169 up
PD0072	hypothetical protein	1.008 up	1.013 up	1.014 up	1.022 up	1.023 up	1.000 down
PD0073	hypothetical protein	1.103 up	1.342 down	1.092 down	1.216 down	1.010 up	1.228 down
PD0074	dihydroxy-acid dehydratase	1.053 down	1.023 up	1.198 up	1.028 down	1.138 up	1.170 down
PD0075	hypothetical protein	1.131 down	1.219 up	1.346 up	1.077 up	1.189 up	1.104 down
PD0076	glycosyl transferase	1.127 down	1.028 down	1.199 down	1.160 down	1.352 down	1.165 up
PD0077	membrane protein	1.046 up	1.139 up	1.059 up	1.192 up	1.108 up	1.075 up
PD0078	lipid A biosynthesis lauroyl acyltransferase	1.032 down	1.122 up	1.376 up	1.087 up	1.333 up	1.225 down
PD0079	3-deoxy-D-manno-octulosonic-acid transferase	1.157 down	1.133 up	1.052 up	1.020 down	1.099 down	1.076 up
PD0080	hypothetical protein	1.093 down	1.108 down	1.178 down	1.212 down	1.289 down	1.063 up
PD0081	30S ribosomal protein S16	1.311 down	1.154 up	1.202 up	1.135 down	1.090 down	1.041 down
PD0082	16S rRNA-processing protein	1.274 down	1.210 up	1.301 up	1.052 down	1.021 up	1.075 down
PD0083	tRNA (guanine-N(1)-)-methyltransferase	1.100 down	1.109 up	1.056 up	1.008 up	1.041 down	1.049 up
PD0084	50S ribosomal protein L19	1.189 down	1.302 down	1.243 down	1.549 down	1.478 down	1.048 down
PD0085	methionine aminopeptidase	1.097 down	1.005 up	1.206 up	1.091 down	1.098 up	1.199 down

PD0086	2,3,4,5-tetrahydropyridine-2-carboxylate N-succinyltransferase	1.265 up	1.334 down	1.298 down	1.054 down	1.026 down	1.027 down
PD0087	hypothetical protein	1.087 up	1.317 up	1.023 up	1.433 up	1.113 up	1.286 up
PD0088	succinyl-diaminopimelate desuccinylase	1.063 down	1.031 down	1.009 up	1.097 down	1.053 down	1.041 down
PD0089	asparagine synthetase B	1.100 down	1.065 up	1.031 down	1.032 down	1.134 down	1.098 up
PD0090	hypothetical protein	1.095 up	1.127 up	1.094 up	1.234 up	1.198 up	1.030 up
PD0091	hypothetical protein	1.111 up	1.065 up	1.280 down	1.184 up	1.152 down	1.364 up
PD0092	LexA repressor	1.080 down	1.029 down	1.174 up	1.111 down	1.087 up	1.209 down
PD0093	recombinase A	1.149 up	1.070 down	1.127 up	1.074 up	1.296 up	1.206 down
PD0094	alanyl-tRNA synthetase	1.057 up	1.147 up	1.015 up	1.213 up	1.073 up	1.130 up
PD0095	carbon storage regulator	1.087 down	1.512 up	1.158 up	1.390 up	1.065 up	1.305 up
PD0097	oligopeptidase A	1.229 up	1.140 up	1.107 up	1.402 up	1.361 up	1.029 up
PD0098	cysteine synthase	1.043 up	1.468 down	1.232 down	1.407 down	1.180 down	1.192 down
PD0099	hypothetical protein	1.065 up	1.473 down	1.756 down	1.382 down	1.648 down	1.192 up
PD0100	copper resistance protein A precursor	1.140 down	1.148 up	1.193 up	1.006 up	1.046 up	1.039 down
PD0101	copper resistance protein B precursor	1.174 up	1.007 up	1.173 down	1.183 up	1.000 up	1.182 up
PD0102	valyl-tRNA synthetase	1.014 up	1.040 up	1.095 up	1.055 up	1.111 up	1.052 down
PD0103	hypothetical protein	1.033 up	1.158 down	1.023 down	1.120 down	1.009 up	1.131 down
PD0104	DNA polymerase III subunit chi	1.202 down	1.270 down	1.286 down	1.527 down	1.547 down	1.012 up
PD0105	hypothetical protein	1.191 up	1.421 down	1.484 down	1.193 down	1.245 down	1.043 up
PD0106	leucyl aminopeptidase	1.200 down	1.306 up	1.453 up	1.088 up	1.211 up	1.112 down

PD0107	hypothetical protein	1.042 down	1.030 down	1.160 up	1.073 down	1.113 up	1.195 down
PD0108	hypothetical protein	1.165 up	1.069 down	1.082 down	1.089 up	1.076 up	1.011 up
PD0109	hypothetical protein	1.067 down	1.201 down	1.060 down	1.282 down	1.132 down	1.132 down
PD0110	D-fructose-6-phosphate amidotransferase	1.026 up	1.072 up	1.154 up	1.100 up	1.184 up	1.076 down
PD0111	hypothetical protein	1.160 up	1.286 down	1.106 down	1.109 down	1.048 up	1.163 down
PD0112	spermidine synthase	1.022 up	1.336 up	1.034 up	1.366 up	1.056 up	1.292 up
PD0113	arginine decarboxylase	1.071 down	1.142 up	1.048 up	1.065 up	1.021 down	1.088 up
PD0114	oxidoreductase	1.027 down	1.020 down	1.107 down	1.048 down	1.138 down	1.085 up
PD0115	hypothetical protein	1.239 down	1.179 up	1.008 up	1.050 down	1.228 down	1.169 up
PD0116	arginyl-tRNA synthetase	1.012 up	1.293 down	1.359 down	1.276 down	1.342 down	1.051 up
PD0117	DNA repair protein RadC	1.019 up	1.686 down	1.500 down	1.654 down	1.472 down	1.124 down
PD0118	phosphopantothenylcysteine synthase/decarboxylase	1.163 up	1.045 up	1.029 down	1.216 up	1.130 up	1.076 up
PD0119	deoxyuridine 5'-triphosphate nucleotidohydrolase	1.024 down	1.105 down	1.092 up	1.132 down	1.066 up	1.207 down
PD0120	phosphomannomutase	1.114 up	1.344 up	1.045 down	1.497 up	1.065 up	1.405 up
PD0121	hypothetical protein	1.007 up	1.053 up	1.077 up	1.061 up	1.085 up	1.022 down
PD0122	orotate phosphoribosyltransferase	1.108 up	1.180 down	1.379 down	1.065 down	1.245 down	1.168 up
PD0123	hypothetical protein	1.219 down	1.067 down	1.130 down	1.302 down	1.378 down	1.058 up
PD0124	hypothetical protein	1.112 up	1.021 up	1.062 down	1.136 up	1.046 up	1.085 up
PD0125	cysteine protease	1.205 up	1.037 down	1.394 down	1.162 up	1.156 down	1.344 up
PD0126	hypothetical protein	1.100 up	1.173 down	1.039 up	1.066 down	1.144 up	1.220 down

PD0127	hypothetical protein	1.155 down	1.012 up	1.321 up	1.141 down	1.143 up	1.305 down
PD0128	exodeoxyribonuclease	1.023 down	1.234 down	1.021 up	1.263 down	1.001 down	1.260 down
PD0129	beta-lactamase induction signal transducer protein	1.225 up	1.235 up	1.072 down	1.513 up	1.142 up	1.324 up
PD0130	hypothetical protein	1.175 down	1.159 up	1.173 up	1.013 down	1.001 down	1.012 down
PD0131	metallopeptidase	1.174 down	1.190 up	1.244 up	1.013 up	1.059 up	1.045 down
PD0132	tyrosyl-tRNA synthetase	1.197 up	1.049 down	1.152 down	1.141 up	1.039 up	1.098 up
PD0138	formamidopyrimidine-DNA glycosylase	1.272 up	1.162 down	1.552 down	1.095 up	1.219 down	1.335 up
PD0139	hypothetical protein	1.062 up	1.068 up	1.043 up	1.134 up	1.107 up	1.024 up
PD0140	hypothetical protein	1.284 up	1.161 down	1.093 down	1.106 up	1.174 up	1.061 down
PD0141	3-ketoacyl-(acyl-carrier-protein) reductase	1.262 up	1.226 down	1.109 down	1.029 up	1.137 up	1.105 down
PD0142	peptide chain release factor 3	1.194 up	1.077 down	1.325 down	1.107 up	1.110 down	1.229 up
PD0143	hemolysin III protein	1.231 down	1.090 down	1.589 down	1.342 down	1.957 down	1.458 up
PD0144	glycosyl transferase	1.079 down	1.128 up	1.212 up	1.045 up	1.122 up	1.074 down
PD0145	deoxyribonuclease	1.262 up	1.085 up	1.135 down	1.371 up	1.111 up	1.233 up
PD0146	outer membrane protein	1.101 down	1.083 down	1.026 up	1.193 down	1.073 down	1.112 down
PD0147	hypothetical protein	1.078 down	1.086 down	1.032 down	1.171 down	1.113 down	1.052 down
PD0148	glycine cleavage system protein H	1.195 up	1.117 up	1.010 down	1.335 up	1.183 up	1.128 up
PD0149	aminomethyltransferase	1.020 up	1.133 up	1.189 up	1.156 up	1.213 up	1.050 down
PD0150	hypothetical protein	1.040 up	1.243 down	1.345 down	1.195 down	1.293 down	1.081 up
PD0151	inner membrane protein	1.081 down	1.228 up	1.159 up	1.135 up	1.072 up	1.059 up

PD0152	hypothetical protein	1.139 down	1.394 up	1.129 up	1.223 up	1.008 down	1.234 up
PD0153	sulfite synthesis pathway protein	1.126 up	1.038 down	1.203 up	1.084 up	1.355 up	1.250 down
PD0154	hydrolase	1.024 down	1.031 up	1.371 down	1.006 up	1.404 down	1.414 up
PD0155	adenosylmethionine--8-amino-7-oxononanoate transaminase	1.062 down	1.033 up	1.030 down	1.027 down	1.094 down	1.065 up
PD0156	hypothetical protein	1.064 up	1.073 down	1.137 down	1.008 down	1.068 down	1.059 up
PD0157	ATP-dependent RNA helicase	1.184 up	1.128 down	1.393 down	1.050 up	1.175 down	1.234 up
PD0158	6-pyruvoyl tetrahydrobiopterin synthase	1.011 up	1.007 down	1.140 up	1.003 up	1.153 up	1.149 down
PD0159	hypothetical protein	1.196 up	1.023 up	1.075 down	1.224 up	1.111 up	1.101 up
PD0160	hypothetical protein	1.342 up	1.374 down	1.072 down	1.023 down	1.251 up	1.281 down
PD0161	hypothetical protein	1.297 down	1.040 up	1.021 up	1.246 down	1.269 down	1.018 up
PD0162	hypothetical protein	1.065 down	1.060 down	1.032 up	1.130 down	1.031 down	1.095 down
PD0163	hypothetical protein	1.125 down	1.174 up	1.283 up	1.043 up	1.140 up	1.092 down
PD0164	acetyl-CoA carboxylase alpha subunit	1.160 down	1.083 up	1.262 up	1.071 down	1.087 up	1.165 down
PD0165	DNA polymerase III subunit alpha	1.034 up	1.071 up	1.110 up	1.108 up	1.148 up	1.035 down
PD0166	phosphoribosylaminoimidazole-succinocarboxamidesynthase	1.181 down	1.508 down	1.481 down	1.782 down	1.751 down	1.017 down
PD0167	DnaJ related chaperone	1.008 up	1.081 up	1.191 up	1.091 up	1.202 up	1.101 down
PD0168	ribulose-phosphate 3-epimerase	1.023 up	1.135 up	1.018 down	1.162 up	1.005 up	1.156 up
PD0169	hypothetical protein	1.095 down	1.074 up	1.010 down	1.020 down	1.107 down	1.085 up
PD0170	anthranilate synthase component I	1.122 down	1.246 up	1.253 up	1.110 up	1.117 up	1.005 down
PD0171	anthranilate synthase component II	1.070 up	1.098 up	1.155 down	1.176 up	1.079 down	1.269 up

PD0172	anthranilate phosphoribosyltransferase	1.145 up	1.329 up	1.153 up	1.521 up	1.320 up	1.152 up
PD0173	indole-3-glycerol-phosphate synthase	1.107 down	1.009 up	1.168 up	1.097 down	1.054 up	1.157 down
PD0174	hypothetical protein	1.070 down	1.018 up	1.023 up	1.050 down	1.045 down	1.004 down
PD0175	transcriptional regulator MarR family	1.150 up	1.049 up	1.014 up	1.207 up	1.167 up	1.034 up
PD0177	proline dipeptidase	1.175 up	1.092 up	1.236 up	1.284 up	1.453 up	1.132 down
PD0178	hypothetical protein	1.149 up	1.157 down	1.017 up	1.007 down	1.169 up	1.177 down
PD0179	hypothetical protein	1.024 down	1.103 up	1.051 down	1.077 up	1.077 down	1.160 up
PD0180	queuine tRNA-ribosyltransferase	1.009 down	1.053 up	1.249 down	1.044 up	1.260 down	1.316 up
PD0181	preprotein translocase subunit YajC	1.085 up	1.310 up	1.049 down	1.423 up	1.034 up	1.375 up
PD0182	protein export protein SecD	1.066 up	1.083 up	1.002 down	1.156 up	1.064 up	1.086 up
PD0183	protein export protein SecF	1.158 down	1.032 up	1.254 down	1.122 down	1.453 down	1.294 up
PD0185	polynucleotide adenyltransferase	1.105 down	1.372 up	1.093 down	1.242 up	1.208 down	1.501 up
PD0186	2-amino-4-hydroxy-6- hydroxymethyl-dihydropteridine pyrophosphokinase	1.157 up	1.206 down	1.275 down	1.042 down	1.102 down	1.057 up
PD0187	3-methyl-2-oxobutanoate hydroxymethyltransferase	1.211 up	1.004 down	1.017 down	1.205 up	1.191 up	1.012 up
PD0188	pantoate--beta-alanine ligase	1.221 up	1.085 up	1.137 down	1.325 up	1.074 up	1.233 up
PD0189	aspartate 1-decarboxylase precursor	1.194 down	1.263 down	1.200 down	1.509 down	1.434 down	1.052 down
PD0190	glucose-6-phosphate isomerase	1.213 up	1.161 down	1.279 down	1.044 up	1.054 down	1.100 up
PD0192	hypothetical protein	1.022 up	1.064 down	1.131 up	1.041 down	1.156 up	1.204 down
PD0193	transcription elongation factor NusA	1.043 up	1.060 up	1.258 down	1.106 up	1.206 down	1.335 up
PD0194	translation initiation factor IF-2	1.155 down	1.061 down	1.166 down	1.225 down	1.346 down	1.098 up

PD0195	ribosome-binding factor A	1.001 down	1.240 up	1.556 up	1.239 up	1.554 up	1.254 down
PD0196	tRNA pseudouridine synthase B	1.123 down	1.175 up	1.250 up	1.046 up	1.113 up	1.063 down
PD0197	30S ribosomal protein S15	1.131 up	1.243 down	1.063 up	1.099 down	1.203 up	1.322 down
PD0198	polynucleotide phosphorylase	1.294 up	1.274 up	1.233 up	1.649 up	1.596 up	1.032 up
PD0199	hypothetical protein	1.169 down	1.033 up	1.079 up	1.131 down	1.083 down	1.043 down
PD0200	hypothetical protein	1.445 up	1.051 up	1.121 up	1.519 up	1.620 up	1.066 down
PD0201	acriflavin resistance protein	1.060 down	1.104 down	1.240 down	1.171 down	1.314 down	1.122 up
PD0202	membrane fusion protein	1.075 up	1.101 up	1.124 up	1.185 up	1.209 up	1.020 down
PD0203	hypothetical protein	1.011 down	1.270 down	1.390 down	1.285 down	1.406 down	1.094 up
PD0204	hypothetical protein	1.387 down	1.018 down	1.132 down	1.412 down	1.570 down	1.112 up
PD0205	ATP-dependent RNA helicase	1.090 up	1.067 up	1.187 up	1.163 up	1.295 up	1.113 down
PD0206	electron transfer flavoprotein alpha subunit	1.107 down	1.027 down	1.038 down	1.138 down	1.150 down	1.010 up
PD0207	electron transfer flavoprotein beta subunit	1.085 up	1.153 down	1.152 down	1.061 down	1.061 down	1.000 down
PD0208	dTDP-glucose 4,6-dehydratase	1.050 down	1.132 up	1.015 up	1.078 up	1.034 down	1.114 up
PD0209	glucose-1-phosphate thymidyltransferase	1.038 down	1.039 up	1.165 up	1.001 up	1.121 up	1.120 down
PD0210	dTDP-4-dehydrorhamnose 3,5-epimerase	1.158 up	1.361 down	1.447 down	1.175 down	1.249 down	1.063 up
PD0211	dTDP-4-dehydrorhamnose reductase	1.110 down	1.079 up	none	1.028 down	1.110 down	1.080 up
PD0212	phosphomannose isomerase-GDP-mannose pyrophosphorylase	1.038 up	1.259 down	1.186 down	1.212 down	1.141 down	1.061 down
PD0213	phosphoglucomutase	1.080 up	1.089 up	1.025 up	1.177 up	1.108 up	1.062 up
PD0214	hypothetical protein	none	1.192 down	1.254 down	1.192 down	1.254 down	1.052 up

PD0215	colicin V precursor	1.018 up	1.339 down	1.007 up	1.314 down	1.026 up	1.349 down
PD0216	colicin V precursor	1.099 up	1.683 down	1.134 down	1.531 down	1.032 down	1.483 down
PD0217	hypothetical protein	1.001 up	1.894 down	1.110 up	1.892 down	1.112 up	2.104 down
PD0218	serine protease	1.214 up	1.020 up	1.110 up	1.239 up	1.348 up	1.088 down
PD0219	sugar transporter	1.350 down	1.086 down	1.313 up	1.467 down	1.028 down	1.426 down
PD0220	hypothetical protein	1.212 down	1.136 down	1.260 down	1.378 down	1.528 down	1.109 up
PD0221	6-phosphofructokinase	1.188 down	1.085 up	1.024 up	1.094 down	1.159 down	1.059 up
PD0222	adenylate kinase	1.097 down	1.159 up	1.100 up	1.056 up	1.002 up	1.053 up
PD0223	UDP-N-acetylmuramate:L-alanyl-gamma-D-glutamyl-meso-diaminopimelate ligase	1.092 up	1.071 up	1.101 up	1.170 up	1.203 up	1.028 down
PD0224	hypothetical protein	1.263 up	1.044 up	1.008 down	1.319 up	1.253 up	1.052 up
PD0225	serine/threonine protein kinase	1.255 up	1.129 up	1.057 up	1.418 up	1.327 up	1.068 up
PD0226	leucine aminopeptidase	1.031 down	1.087 up	1.105 up	1.054 up	1.072 up	1.016 down
PD0227	transport protein	1.046 up	1.192 up	1.083 up	1.248 up	1.134 up	1.100 up
PD0228	hypothetical protein	1.149 down	1.145 up	1.240 down	1.002 down	1.425 down	1.421 up
PD0229	hypothetical protein	1.098 down	1.011 down	1.151 up	1.111 down	1.048 up	1.164 down
PD0230	hypothetical protein	1.353 down	1.402 up	1.219 up	1.036 up	1.110 down	1.150 up
PD0231	heat shock protein	1.043 up	1.056 up	1.121 down	1.102 up	1.074 down	1.185 up
PD0232	cell division inhibitor	1.002 up	1.115 up	1.043 down	1.119 up	1.040 down	1.164 up
PD0233	regulator of pathenogenicity factors RpfB	1.088 up	1.242 down	1.098 down	1.140 down	1.008 down	1.131 down
PD0234	aconitate hydratase	1.154 up	1.310 down	1.210 down	1.134 down	1.048 down	1.082 down

PD0235	hypothetical protein	1.008 up	1.024 down	1.011 up	1.015 down	1.020 up	1.036 down
PD0236	aconitate hydratase	1.167 down	1.646 up	1.150 up	1.409 up	1.014 down	1.430 up
PD0238	hypothetical protein	1.053 down	1.066 down	1.135 down	1.123 down	1.196 down	1.065 up
PD0242	hypothetical protein	1.296 up	1.091 down	1.140 down	1.188 up	1.136 up	1.045 up
PD0243	hypothetical protein	1.109 up	1.041 down	1.147 down	1.064 up	1.034 down	1.101 up
PD0244	hypothetical protein	1.244 up	1.472 up	1.165 up	1.832 up	1.449 up	1.264 up
PD0245	triosephosphate isomerase	1.086 up	1.075 up	1.105 down	1.167 up	1.018 down	1.189 up
PD0246	protein-export membrane protein	1.109 down	1.075 down	1.152 up	1.192 down	1.039 up	1.239 down
PD0248	NADH dehydrogenase alpha subunit	1.125 up	1.024 down	1.054 down	1.098 up	1.066 up	1.029 up
PD0249	NADH dehydrogenase beta subunit	1.156 up	1.086 down	1.097 up	1.064 up	1.269 up	1.192 down
PD0250	NADH dehydrogenase subunit C	1.116 up	1.043 down	1.059 down	1.070 up	1.053 up	1.016 up
PD0251	NADH dehydrogenase delta subunit	1.078 down	1.344 up	1.187 up	1.247 up	1.101 up	1.132 up
PD0252	ATP synthase subunit E	1.176 down	1.141 up	1.248 up	1.030 down	1.061 up	1.094 down
PD0253	NADH-ubiquinone oxidoreductase NQO1 subunit	1.319 up	1.037 up	1.043 up	1.368 up	1.377 up	1.006 down
PD0254	NADH dehydrogenase gamma subunit	1.075 up	1.058 up	1.016 up	1.137 up	1.092 up	1.041 up
PD0255	NADH dehydrogenase subunit H	1.098 up	1.048 down	1.062 down	1.048 up	1.034 up	1.013 up
PD0256	NADH dehydrogenase subunit I	1.394 up	1.020 down	1.202 up	1.366 up	1.676 up	1.226 down
PD0257	NADH dehydrogenase subunit J	1.275 up	1.157 up	1.068 up	1.476 up	1.363 up	1.083 up
PD0258	NADH dehydrogenase kappa subunit	1.257 up	1.115 down	1.103 down	1.126 up	1.139 up	1.010 down
PD0259	NADH-ubiquinone oxidoreductase NQ012 subunit	1.153 up	1.157 down	1.075 down	1.003 down	1.071 up	1.076 down

PD0260	NADH dehydrogenase subunit M	1.015 down	1.018 up	1.116 down	1.002 up	1.133 down	1.136 up
PD0261	NADH dehydrogenase subunit N	1.162 down	1.267 up	1.231 up	1.090 up	1.060 up	1.028 up
PD0262	acetoacetyl-CoA reductase	1.067 down	1.122 up	1.009 up	1.051 up	1.057 down	1.111 up
PD0263	Mg ⁺⁺ /citrate complex transporter	1.142 down	1.117 up	1.105 up	1.022 down	1.033 down	1.010 up
PD0264	porin O precursor	1.004 up	1.097 down	1.311 down	1.093 down	1.306 down	1.194 up
PD0265	two-component system, regulatory protein	1.051 up	1.245 up	1.114 down	1.309 up	1.060 down	1.388 up
PD0266	two-component system, sensor protein	1.066 up	1.463 up	1.369 up	1.560 up	1.460 up	1.068 up
PD0267	periplasmic iron-binding protein	1.129 up	1.345 down	1.308 down	1.191 down	1.158 down	1.029 down
PD0268	transcriptional regulator LuxR/UhpA family	1.300 down	1.160 up	1.339 up	1.121 down	1.029 up	1.154 down
PD0269	sensor histidine kinase	1.006 up	1.072 up	1.095 down	1.079 up	1.088 down	1.175 up
PD0270	polyphosphate-selective porin O	1.042 down	1.141 down	1.057 up	1.189 down	1.014 up	1.206 down
PD0271	C4-dicarboxylate transport protein	1.282 up	1.045 down	1.147 down	1.226 up	1.117 up	1.097 up
PD0272	phosphate acetyltransferase	1.279 up	1.011 down	1.053 down	1.265 up	1.214 up	1.041 up
PD0273	heat shock protein 90	1.284 down	1.095 up	1.209 up	1.172 down	1.061 down	1.104 down
PD0274	hypothetical protein	1.032 up	1.241 up	1.065 down	1.282 up	1.031 down	1.323 up
PD0275	phosphopantetheine adenylyltransferase	1.111 down	1.012 up	1.097 up	1.096 down	1.012 down	1.083 down
PD0276	hypothetical protein	1.006 up	1.213 up	1.074 down	1.221 up	1.067 down	1.303 up
PD0277	ferredoxin	1.035 down	1.075 up	1.125 down	1.038 up	1.165 down	1.210 up
PD0278	gamma-glutamyltranspeptidase	1.164 up	1.134 up	1.037 down	1.321 up	1.122 up	1.177 up
PD0279	GGDEF family protein	1.053 down	1.140 up	1.172 up	1.082 up	1.113 up	1.027 down

PD0280	hypothetical protein	1.048 down	1.123 up	1.153 up	1.071 up	1.100 up	1.027 down
PD0281	dihydroorotase	1.426 down	1.490 up	1.295 up	1.044 up	1.101 down	1.150 up
PD0282	hypothetical protein	1.233 down	1.318 down	1.247 down	1.627 down	1.539 down	1.057 down
PD0283	DnaK suppressor	1.072 down	1.050 down	1.055 up	1.126 down	1.016 down	1.108 down
PD0285	drug:proton antiporter	1.123 up	1.010 down	1.057 up	1.112 up	1.187 up	1.067 down
PD0286	hypothetical protein	1.271 down	1.088 up	1.067 down	1.168 down	1.357 down	1.162 up
PD0287	cysteinyl-tRNA synthetase	1.043 down	1.290 up	1.007 up	1.237 up	1.035 down	1.281 up
PD0288	hypothetical protein	1.027 up	1.069 up	1.019 down	1.098 up	1.007 up	1.090 up
PD0289	hypothetical protein	1.274 down	1.089 up	1.399 up	1.170 down	1.098 up	1.284 down
PD0290	ornithine carbamoyltransferase	1.076 up	1.247 down	1.516 down	1.158 down	1.408 down	1.215 up
PD0291	argininosuccinate synthase	1.133 down	1.007 up	1.074 down	1.124 down	1.218 down	1.082 up
PD0292	acetylmithine deacetylase	1.057 down	1.213 down	1.275 down	1.282 down	1.348 down	1.051 up
PD0293	acetylglutamate kinase	1.275 down	1.165 up	1.168 up	1.095 down	1.092 down	1.002 down
PD0294	N-acetyl-gamma-glutamyl-phosphate reductase	1.054 down	1.160 down	1.267 down	1.223 down	1.336 down	1.091 up
PD0295	argininosuccinate lyase	1.192 down	1.025 up	1.131 down	1.163 down	1.349 down	1.160 up
PD0296	gamma-glutamyl kinase	1.078 up	1.473 down	1.540 down	1.366 down	1.429 down	1.045 up
PD0297	gamma-glutamyl phosphate reductase	1.026 up	1.531 down	1.272 down	1.492 down	1.240 down	1.203 down
PD0298	hypothetical protein	1.453 up	1.179 up	1.099 down	1.714 up	1.321 up	1.297 up
PD0299	hypothetical protein	1.116 up	1.387 up	1.427 up	1.548 up	1.593 up	1.029 down
PD0300	hypothetical protein	1.110 down	1.366 up	1.079 up	1.230 up	1.028 down	1.265 up

PD0301	hypothetical protein	1.349 up	1.524 up	1.103 down	2.057 up	1.222 up	1.682 up
PD0303	hypothetical protein	1.334 up	1.696 up	1.225 up	2.264 up	1.635 up	1.384 up
PD0304	hypothetical protein	1.442 up	1.080 down	1.139 down	1.335 up	1.266 up	1.054 up
PD0305	hemolysin-type calcium binding protein	1.253 up	1.015 down	1.012 down	1.233 up	1.237 up	1.002 down
PD0306	cytosine deaminase	1.181 down	1.382 up	1.346 up	1.170 up	1.140 up	1.026 up
PD0307	toxin	1.091 down	1.209 up	1.075 up	1.108 up	1.014 down	1.124 up
PD0308	putative manganese transport protein MntH	1.213 up	1.072 down	1.048 down	1.130 up	1.157 up	1.023 down
PD0309	arginyl-tRNA-protein transferase	1.089 down	1.135 down	1.123 down	1.237 down	1.224 down	1.010 down
PD0310	pathogenicity-related protein	1.003 down	1.130 down	1.458 down	1.135 down	1.463 down	1.289 up
PD0311	acyl-CoA thioesterase II	1.227 down	1.152 down	1.191 down	1.414 down	1.462 down	1.033 up
PD0312	hypothetical protein	1.053 down	1.012 up	1.095 up	1.040 down	1.039 up	1.081 down
PD0313	serine protease	1.742 up	1.079 up	1.113 down	1.880 up	1.564 up	1.201 up
PD0314	hypothetical protein	1.250 down	1.898 down	2.089 down	2.374 down	2.613 down	1.100 up
PD0315	glutaryl-7-ACA acylase precursor	1.089 down	1.015 up	1.074 down	1.072 down	1.170 down	1.091 up
PD0316	glycerol-3-phosphate acyltransferase	1.132 up	1.048 down	1.138 down	1.080 up	1.005 down	1.086 up
PD0317	hypothetical protein	1.031 up	1.010 up	1.135 down	1.041 up	1.101 down	1.147 up
PD0318	hypothetical protein	1.491 up	1.380 down	1.106 down	1.080 up	1.347 up	1.247 down
PD0319	S-adenosyl-L-homocysteine hydrolase	1.072 up	1.160 down	1.202 down	1.081 down	1.121 down	1.036 up
PD0320	peptide synthase	1.140 up	1.105 down	1.183 down	1.031 up	1.037 down	1.070 up
PD0321	ribonuclease HIII	1.036 down	1.136 up	1.264 up	1.096 up	1.220 up	1.112 down

PD0322	lipid-A-disaccharide synthase	1.053 down	1.199 down	1.157 down	1.263 down	1.219 down	1.036 down
PD0323	UDP-N-acetylglucosamine acyltransferase	1.130 down	1.053 down	1.051 up	1.191 down	1.075 down	1.107 down
PD0324	(3R)-hydroxymyristoyl ACP dehydratase	1.073 up	1.308 down	1.584 down	1.219 down	1.475 down	1.210 up
PD0325	UDP-3-O-[3-hydroxymyristoyl] glucosamine N-acyltransferase	1.105 down	1.027 down	1.323 down	1.135 down	1.462 down	1.287 up
PD0326	outer membrane antigen	1.016 down	1.055 up	1.046 up	1.037 up	1.028 up	1.008 up
PD0327	hypothetical protein	1.096 down	1.064 up	1.038 up	1.029 down	1.055 down	1.025 up
PD0328	1-deoxy-D-xylulose 5-phosphate reductoisomerase	1.183 down	1.450 up	1.156 up	1.226 up	1.023 down	1.254 up
PD0329	phosphatidate cytidyltransferase	1.125 down	1.348 up	1.130 up	1.197 up	1.003 up	1.192 up
PD0330	undecaprenyl pyrophosphate synthetase	1.065 down	1.017 down	1.024 up	1.084 down	1.040 down	1.042 down
PD0331	ribosome releasing factor	1.066 down	1.002 down	1.192 down	1.068 down	1.271 down	1.190 up
PD0332	fatty acid outer membrane porin	1.169 down	1.041 down	1.087 up	1.218 down	1.074 down	1.133 down
PD0333	hypothetical protein	1.219 up	1.442 down	1.460 down	1.182 down	1.197 down	1.012 up
PD0334	hypothetical protein	1.166 down	1.048 up	1.090 up	1.111 down	1.069 down	1.039 down
PD0336	hypothetical protein	1.070 up	1.070 up	1.269 up	1.145 up	1.359 up	1.186 down
PD0337	uridylate kinase	1.008 up	1.335 up	1.262 up	1.347 up	1.273 up	1.057 up
PD0338	hypothetical protein	1.192 down	1.036 up	1.039 down	1.151 down	1.239 down	1.077 up
PD0342	keto-hydroxyglutarate-aldolase/keto-deoxy-phosphogluconate aldolase	1.114 down	1.077 up	1.009 down	1.033 down	1.124 down	1.087 up
PD0343	phosphogluconate dehydratase	1.067 up	1.163 down	1.082 down	1.089 down	1.013 down	1.074 down
PD0344	6-phosphogluconolactonase	1.109 down	1.072 down	1.053 down	1.190 down	1.168 down	1.018 down
PD0345	glucokinase	1.023 down	1.222 down	1.242 down	1.251 down	1.271 down	1.015 up

PD0346	glucose-6-phosphate 1-dehydrogenase	1.141 down	1.226 down	1.364 down	1.399 down	1.557 down	1.112 up
PD0347	sugar ABC transporter ATP-binding protein	1.109 down	1.032 up	1.049 up	1.074 down	1.057 down	1.015 down
PD0348	hypothetical protein	1.089 down	1.090 up	1.044 down	1.001 up	1.138 down	1.139 up
PD0349	hypothetical protein	1.026 up	1.256 up	1.340 up	1.290 up	1.376 up	1.066 down
PD0350	succinate dehydrogenase membrane anchor subunit	1.131 up	1.002 down	1.119 down	1.128 up	1.010 up	1.116 up
PD0351	succinate dehydrogenase hydrophobic membrane anchor subunit	1.021 down	1.203 up	1.164 up	1.178 up	1.139 up	1.033 up
PD0352	succinate dehydrogenase	1.078 up	1.112 up	1.061 down	1.200 up	1.016 up	1.181 up
PD0353	succinate dehydrogenase catalytic subunit	1.014 down	1.008 up	1.196 down	1.006 down	1.214 down	1.206 up
PD0354	hypothetical protein	1.105 up	1.212 down	1.066 down	1.097 down	1.036 up	1.137 down
PD0355	hypothetical protein	1.214 up	1.129 down	1.159 down	1.075 up	1.048 up	1.026 up
PD0356	lipoprotein releasing system transmembrane protein	1.000 up	1.060 down	1.308 down	1.059 down	1.307 down	1.233 up
PD0357	ABC transporter ATP-binding protein	none	1.134 up	1.166 up	1.135 up	1.166 up	1.027 down
PD0358	DNA uptake protein	1.000 up	1.012 down	1.096 down	1.011 down	1.095 down	1.082 up
PD0359	biopolymer transport protein	1.063 up	1.129 down	1.039 down	1.062 down	1.022 up	1.086 down
PD0360	biopolymer transport protein	1.110 down	1.320 up	1.047 down	1.189 up	1.163 down	1.383 up
PD0361	ABC transporter ATP-binding protein	1.034 down	1.097 up	1.105 down	1.060 up	1.143 down	1.213 up
PD0362	tetraacyldisaccharide 4'-kinase	1.235 down	1.006 up	1.488 up	1.228 down	1.204 up	1.479 down
PD0363	phage-related tail protein	1.030 up	1.540 up	1.071 down	1.587 up	1.040 down	1.650 up
PD0364	hypothetical protein	1.287 down	1.288 up	1.001 down	1.001 up	1.289 down	1.290 up
PD0365	phage-related tail protein	1.068 down	1.023 up	1.035 down	1.043 down	1.106 down	1.060 up

PD0366	phage-related baseplate assembly protein	1.219 down	1.872 up	1.050 up	1.536 up	1.160 down	1.783 up
PD0367	phage-related baseplate assembly protein	1.011 down	1.292 up	1.062 up	1.278 up	1.050 up	1.216 up
PD0368	proteic killer suppression protein	1.224 up	1.100 down	1.089 down	1.113 up	1.124 up	1.010 down
PD0369	proteic killer active protein	1.001 down	1.123 down	1.156 down	1.125 down	1.158 down	1.029 up
PD0370	hypothetical protein	1.166 down	1.137 up	1.016 up	1.025 down	1.147 down	1.118 up
PD0371	hypothetical protein	1.116 down	1.162 down	1.109 down	1.297 down	1.238 down	1.047 down
PD0372	phage-related baseplate assembly protein	1.010 up	1.264 up	1.059 up	1.277 up	1.070 up	1.193 up
PD0373	hypothetical protein	1.248 down	1.295 up	1.075 down	1.037 up	1.342 down	1.393 up
PD0374	hypothetical protein	1.023 down	1.103 up	1.116 down	1.078 up	1.142 down	1.231 up
PD0375	hypothetical protein	1.092 up	1.183 up	1.152 down	1.293 up	1.054 down	1.364 up
PD0376	hypothetical protein	1.045 down	1.092 up	1.378 down	1.045 up	1.441 down	1.506 up
PD0377	hypothetical protein	1.058 down	1.468 up	1.007 up	1.387 up	1.050 down	1.458 up
PD0378	phage-related portal protein	1.139 down	1.390 up	1.011 up	1.220 up	1.126 down	1.374 up
PD0379	phage-related DNA polymerase	1.114 down	1.931 up	1.346 up	1.732 up	1.208 up	1.434 up
PD0380	hypothetical protein	1.182 up	1.459 up	1.047 up	1.725 up	1.237 up	1.394 up
PD0381	hypothetical protein	1.058 up	5.466 up	1.307 up	5.787 up	1.384 up	4.180 up
PD0382	hypothetical protein	1.076 down	1.458 up	1.248 up	1.354 up	1.160 up	1.167 up
PD0383	hypothetical protein	1.283 down	1.304 up	1.014 up	1.016 up	1.266 down	1.286 up
PD0384	phage-related integrase	1.266 up	1.256 up	1.145 up	1.592 up	1.451 up	1.097 up
PD0385	partition protein	1.297 up	1.085 up	1.094 down	1.408 up	1.185 up	1.188 up

PD0386	hypothetical protein	1.312 up	none	1.191 up	1.313 up	1.563 up	1.190 down
PD0387	hypothetical protein	1.097 down	1.088 down	1.282 up	1.194 down	1.168 up	1.395 down
PD0388	cardiolipin synthase	1.184 down	1.163 up	1.041 up	1.018 down	1.137 down	1.117 up
PD0389	hypothetical protein	1.046 up	1.259 down	1.167 down	1.203 down	1.115 down	1.079 down
PD0390	hypothetical protein	1.001 up	1.320 down	1.504 down	1.318 down	1.501 down	1.139 up
PD0391	L-asparaginase	1.213 down	1.107 up	1.211 down	1.095 down	1.470 down	1.341 up
PD0392	tryptophan repressor binding protein	1.008 down	1.082 down	1.137 down	1.091 down	1.148 down	1.051 up
PD0393	nicotinate phosphoribosyltransferase	1.055 down	1.196 up	1.386 up	1.134 up	1.313 up	1.158 down
PD0394	hypothetical protein	1.095 up	1.080 up	1.120 down	1.183 up	1.022 down	1.210 up
PD0395	hypothetical protein	1.062 down	1.238 down	1.178 down	1.315 down	1.251 down	1.050 down
PD0396	DNA polymerase I	1.117 up	1.077 up	1.182 down	1.204 up	1.058 down	1.275 up
PD0397	dihydrodipicolinate reductase	1.158 down	1.015 down	1.152 up	1.176 down	1.005 down	1.170 down
PD0398	carbamoyl-phosphate synthase small subunit	1.153 up	1.087 up	1.073 down	1.254 up	1.074 up	1.167 up
PD0399	carbamoyl-phosphate synthase large subunit	1.299 down	1.308 up	1.052 up	1.007 up	1.234 down	1.243 up
PD0400	transcription elongation factor GreA	1.067 up	1.359 up	1.046 up	1.451 up	1.117 up	1.299 up
PD0401	regulatory protein	1.165 up	1.018 down	1.096 down	1.144 up	1.063 up	1.076 up
PD0402	single-stranded DNA exonuclease	1.272 down	1.133 down	1.023 up	1.442 down	1.243 down	1.159 down
PD0403	peptide chain release factor 2	1.164 up	1.102 down	1.066 up	1.057 up	1.242 up	1.175 down
PD0404	lysyl-tRNA synthetase	1.036 up	1.205 down	1.014 down	1.162 down	1.021 up	1.187 down
PD0405	response regulator	1.105 up	1.119 down	1.027 down	1.012 down	1.076 up	1.089 down

PD0406	regulator of pathogenicity factors	1.020 up	1.032 up	1.241 up	1.053 up	1.265 up	1.201 down
PD0407	enoyl-CoA hydratase	1.156 up	1.98 up	1.750 up	2.288 up	2.023 up	1.423 up
PD0408	bifunctional aspartate kinase/diaminopimelate decarboxylase protein	1.045 down	1.210 down	1.121 down	1.265 down	1.171 down	1.080 down
PD0409	hypothetical protein	1.378 down	1.165 down	1.050 down	1.606 down	1.448 down	1.108 down
PD0410	UDP-N-acetylmuramoyl-L-alanyl-D-glutamatesynthetase	1.026 down	1.119 up	1.190 up	1.090 up	1.159 up	1.063 down
PD0412	hypothetical protein	1.361 up	1.124 up	1.046 up	1.531 up	1.424 up	1.074 up
PD0413	5,10-methylenetetrahydrofolate reductase	1.100 down	1.108 down	1.001 down	1.219 down	1.101 down	1.106 down
PD0414	outer membrane protein	1.015 down	1.085 down	1.268 down	1.101 down	1.287 down	1.169 up
PD0415	Maf-like protein	1.059 down	1.170 down	1.214 down	1.239 down	1.286 down	1.037 up
PD0416	ribonuclease G	1.003 down	1.084 down	1.185 down	1.088 down	1.189 down	1.092 up
PD0417	hypothetical protein	1.007 down	1.309 up	1.243 up	1.300 up	1.234 up	1.053 up
PD0418	TldD protein	1.183 down	1.014 up	1.058 down	1.166 down	1.252 down	1.074 up
PD0419	hypothetical protein	1.325 down	1.029 down	1.043 up	1.365 down	1.270 down	1.075 down
PD0420	PmbA protein	1.025 down	1.229 up	1.152 up	1.198 up	1.123 up	1.067 up
PD0421	transcriptional regulator	1.119 down	1.129 down	1.181 down	1.265 down	1.322 down	1.045 up
PD0422	tryptophan repressor binding protein	1.038 down	1.006 down	1.153 up	1.044 down	1.110 up	1.160 down
PD0423	NADP-alcohol dehydrogenase	1.022 up	1.274 down	1.221 down	1.246 down	1.195 down	1.042 down
PD0424	hypothetical protein	1.135 down	1.222 up	1.279 up	1.076 up	1.126 up	1.045 down
PD0425	UDP-N-acetylglucosamine pyrophosphorylase	1.128 down	1.161 down	1.196 down	1.309 down	1.349 down	1.030 up
PD0426	chorismate mutase	1.018 up	1.116 down	1.120 down	1.096 down	1.099 down	1.003 up

PD0427	ATP synthase subunit epsilon	none	1.244 down	1.270 down	1.243 down	1.269 down	1.020 up
PD0428	ATP synthase subunit B	1.007 down	1.038 down	1.045 down	1.045 down	1.052 down	1.006 up
PD0429	ATP synthase subunit C	1.056 up	1.025 up	1.020 down	1.084 up	1.035 up	1.046 up
PD0430	ATP synthase subunit A	1.042 up	1.061 up	1.236 down	1.106 up	1.186 down	1.312 up
PD0431	ATP synthase subunit D	1.136 down	1.026 up	1.036 up	1.107 down	1.096 down	1.010 down
PD0432	ATP synthase subunit B	1.136 up	1.187 up	1.061 up	1.349 up	1.206 up	1.118 up
PD0433	ATP synthase subunit C	1.046 down	1.080 down	1.039 down	1.130 down	1.087 down	1.038 down
PD0434	ATP synthase subunit A	1.130 up	1.119 up	1.304 down	1.265 up	1.153 down	1.459 up
PD0435	hypothetical protein	1.039 down	1.365 up	1.244 up	1.313 up	1.197 up	1.097 up
PD0436	30S ribosomal protein S10	1.320 down	1.178 up	1.042 up	1.121 down	1.267 down	1.130 up
PD0437	50S ribosomal protein L3	1.121 up	1.080 down	1.231 down	1.037 up	1.098 down	1.139 up
PD0438	50S ribosomal protein L4	1.011 up	1.219 up	1.199 up	1.233 up	1.213 up	1.016 up
PD0439	50S ribosomal protein L23	1.400 down	1.203 up	1.083 up	1.164 down	1.292 down	1.110 up
PD0440	50S ribosomal protein L2	1.187 up	1.081 down	1.130 down	1.098 up	1.050 up	1.044 up
PD0441	30S ribosomal protein S19	1.200 up	1.126 down	1.079 up	1.064 up	1.295 up	1.216 down
PD0442	50S ribosomal protein L22	1.283 up	1.345 down	1.202 down	1.048 down	1.066 up	1.118 down
PD0443	30S ribosomal protein S3	1.234 down	1.230 up	1.007 up	1.003 down	1.225 down	1.221 up
PD0444	50S ribosomal protein L16	1.035 up	1.178 up	1.009 down	1.220 up	1.026 up	1.189 up
PD0445	50S ribosomal protein L29	1.026 up	1.219 down	1.146 down	1.187 down	1.116 down	1.063 down
PD0446	30S ribosomal protein S17	1.323 up	1.322 down	1.105 down	1.000 up	1.196 up	1.195 down

PD0447	50S ribosomal protein L14	1.189 up	1.183 down	1.320 down	1.005 up	1.110 down	1.115 up
PD0448	50S ribosomal protein L24	1.427 up	1.059 up	1.184 up	1.512 up	1.691 up	1.118 down
PD0449	50S ribosomal protein L5	1.289 up	1.080 down	1.166 down	1.194 up	1.105 up	1.079 up
PD0450	30S ribosomal protein S14	1.002 down	1.118 down	1.018 down	1.121 down	1.021 down	1.098 down
PD0451	30S ribosomal protein S8	1.053 up	1.065 up	1.045 up	1.122 up	1.100 up	1.019 up
PD0452	50S ribosomal protein L6	1.069 down	1.040 up	1.062 down	1.028 down	1.136 down	1.105 up
PD0453	50S ribosomal protein L18	1.034 down	1.062 down	1.005 up	1.099 down	1.029 down	1.067 down
PD0454	30S ribosomal protein S5	1.067 up	1.167 up	1.032 up	1.246 up	1.102 up	1.130 up
PD0455	50S ribosomal protein L30	1.001 up	1.160 down	1.019 up	1.158 down	1.021 up	1.183 down
PD0456	50S ribosomal protein L15	1.324 up	1.085 down	1.150 up	1.220 up	1.524 up	1.248 down
PD0457	preprotein translocase SecY	1.053 down	1.008 down	1.051 up	1.062 down	1.001 down	1.060 down
PD0458	30S ribosomal protein S13	1.266 up	1.218 up	1.024 down	1.543 up	1.235 up	1.248 up
PD0459	30S ribosomal protein S11	1.200 down	1.189 down	1.012 down	1.427 down	1.215 down	1.174 down
PD0460	30S ribosomal protein S4	1.135 up	1.212 down	1.026 up	1.067 down	1.166 up	1.245 down
PD0461	DNA-directed RNA polymerase alpha subunit	1.007 up	1.164 down	1.037 down	1.155 down	1.029 down	1.122 down
PD0462	50S ribosomal protein L17	1.136 up	1.128 down	1.044 up	1.007 up	1.187 up	1.178 down
PD0463	hypothetical protein	1.022 up	1.106 up	1.023 up	1.131 up	1.045 up	1.081 up
PD0464	competence-related protein	1.181 up	1.482 down	1.334 down	1.254 down	1.130 down	1.110 down
PD0465	triacylglycerol lipase	1.004 up	1.019 down	1.023 up	1.015 down	1.027 up	1.043 down
PD0466	lipase chaperone	1.016 down	1.086 down	1.071 up	1.103 down	1.054 up	1.163 down

PD0468	polysaccharide biosynthetic protein	1.022 down	1.165 down	1.009 up	1.191 down	1.013 down	1.175 down
PD0469	hypothetical protein	1.012 down	1.321 down	1.195 up	1.337 down	1.180 up	1.579 down
PD0471	trigger factor	1.118 up	1.104 down	1.006 up	1.013 up	1.126 up	1.111 down
PD0472	ATP-dependent Clp protease proteolytic subunit	1.234 up	1.183 up	1.078 up	1.460 up	1.331 up	1.097 up
PD0473	ATP-dependent protease ATP-binding subunit	1.088 up	1.055 up	1.110 up	1.147 up	1.207 up	1.052 down
PD0474	ATP-dependent serine proteinase La	1.435 up	1.068 down	1.183 down	1.343 up	1.212 up	1.107 up
PD0475	histone-like protein	1.268 down	1.083 down	1.278 up	1.374 down	1.007 up	1.385 down
PD0478	peptidyl-prolyl cis-trans isomerase	1.151 down	1.638 up	1.488 up	1.423 up	1.293 up	1.100 up
PD0479	integral membrane protein	1.100 down	1.084 up	1.150 up	1.015 down	1.045 up	1.061 down
PD0480	ribonucleotide-diphosphate reductase alpha subunit	1.064 down	1.269 down	1.065 up	1.351 down	1.000 up	1.352 down
PD0481	ribonucleotide-diphosphate reductase beta subunit	1.027 up	1.074 up	1.028 up	1.104 up	1.057 up	1.044 up
PD0482	flavodoxin	1.070 down	1.087 down	1.147 up	1.164 down	1.072 up	1.248 down
PD0483	thioredoxin	1.401 down	1.066 down	1.148 up	1.495 down	1.220 down	1.225 down
PD0484	ribosomal small subunit pseudouridine synthase	1.111 up	1.085 up	1.024 up	1.207 up	1.138 up	1.060 up
PD0485	hydrolase	1.022 up	1.137 up	1.157 up	1.162 up	1.182 up	1.017 down
PD0486	hypothetical protein	1.048 down	1.017 up	1.183 down	1.030 down	1.240 down	1.204 up
PD0487	hypothetical protein	1.005 down	1.146 up	1.077 down	1.139 up	1.083 down	1.234 up
PD0488	50S ribosomal protein L28	1.150 down	1.058 up	1.106 up	1.087 down	1.039 down	1.045 down
PD0489	50S ribosomal protein L33	1.250 up	1.065 down	1.172 down	1.174 up	1.067 up	1.100 up
PD0490	cardiolipin synthase	1.178 down	1.100 up	1.147 up	1.070 down	1.026 down	1.042 down

PD0491	glutathione S-transferase	1.026 down	1.216 down	1.163 down	1.249 down	1.194 down	1.045 down
PD0492	malate dehydrogenase	1.116 up	1.400 down	1.697 down	1.254 down	1.520 down	1.211 up
PD0493	peptidyl-prolyl cis-trans isomerase	1.102 down	1.177 down	1.242 up	1.298 down	1.126 up	1.462 down
PD0494	GTP-binding elongation factor protein	1.022 down	1.093 up	1.188 up	1.069 up	1.161 up	1.086 down
PD0495	hypothetical protein	1.035 up	1.183 up	1.098 up	1.225 up	1.137 up	1.077 up
PD0496	colicin V secretion protein	1.102 up	1.207 up	1.219 up	1.331 up	1.344 up	1.009 down
PD0497	hypothetical protein	1.017 up	1.204 down	1.075 down	1.183 down	1.057 down	1.119 down
PD0498	hypothetical protein	1.020 up	1.478 down	1.112 down	1.448 down	1.090 down	1.329 down
PD0499	colicin V secretion ABC transporter ATP-binding protein	1.048 down	1.158 up	1.241 up	1.104 up	1.183 up	1.071 down
PD0500	ABC transporter permease protein	1.038 down	1.035 up	1.037 down	1.002 down	1.077 down	1.074 up
PD0501	ABC transporter ATP-binding protein	1.158 up	1.148 up	1.043 up	1.329 up	1.208 up	1.100 up
PD0502	PilY1 gene product	1.044 down	1.069 down	1.020 up	1.116 down	1.023 down	1.091 down
PD0503	hypothetical protein	1.518 down	1.192 up	1.262 up	1.273 down	1.202 down	1.059 down
PD0504	hypothetical protein	1.075 down	1.194 down	1.006 up	1.285 down	1.068 down	1.202 down
PD0505	ATP-dependent helicase	1.022 down	1.169 up	1.137 up	1.143 up	1.112 up	1.028 up
PD0506	hypothetical protein	1.353 down	1.175 up	1.436 up	1.151 down	1.061 up	1.221 down
PD0507	pathogenicity protein	1.129 down	1.097 down	1.128 down	1.239 down	1.274 down	1.028 up
PD0508	pathogenicity protein	1.020 down	1.025 down	1.189 up	1.046 down	1.166 up	1.220 down
PD0509	carboxyphosphoenolpyruvate phosphonmutase	1.093 down	1.027 up	1.070 down	1.063 down	1.171 down	1.100 up
PD0511	hypothetical protein	1.068 up	1.471 down	1.375 down	1.376 down	1.286 down	1.070 down

PD0512	hypothetical protein	1.132 down	1.079 down	1.054 down	1.222 down	1.194 down	1.024 down
PD0514	hypothetical protein	1.001 up	1.135 up	1.052 down	1.137 up	1.051 down	1.195 up
PD0515	hypothetical protein	1.066 down	1.100 down	1.141 down	1.173 down	1.217 down	1.037 up
PD0516	hypothetical protein	1.070 up	1.402 down	1.256 down	1.310 down	1.173 down	1.116 down
PD0517	arginine deaminase	1.164 up	1.010 down	1.084 down	1.153 up	1.074 up	1.073 up
PD0518	hypothetical protein	1.137 down	1.301 up	1.358 up	1.143 up	1.194 up	1.043 down
PD0519	lipase	1.020 down	1.155 up	1.120 down	1.132 up	1.143 down	1.294 up
PD0520	transcriptional regulator AraC family	1.029 down	1.123 up	1.140 down	1.091 up	1.175 down	1.282 up
PD0521	hypothetical protein	1.038 up	1.269 down	1.154 up	1.221 down	1.199 up	1.465 down
PD0522	oligoribonuclease	1.148 up	1.058 down	1.160 up	1.085 up	1.332 up	1.228 down
PD0523	small conductance mechanosensitive ion channel	1.029 down	1.308 down	1.313 down	1.347 down	1.352 down	1.003 up
PD0524	phosphoenolpyruvate synthase	1.168 down	1.070 down	1.001 down	1.250 down	1.170 down	1.068 down
PD0525	hypothetical protein	1.058 up	1.084 down	1.291 down	1.024 down	1.220 down	1.190 up
PD0526	hypothetical protein	1.090 down	1.059 down	1.061 up	1.154 down	1.027 down	1.124 down
PD0527	7,8-dihydro-8-oxoguanine-triphosphatase	1.089 up	1.224 down	1.127 down	1.123 down	1.035 down	1.085 down
PD0528	hypothetical protein	1.115 up	1.151 up	1.086 up	1.284 up	1.212 up	1.059 up
PD0529	cellulose 1,4-beta-cellobiosidase	1.131 up	1.008 up	1.119 up	1.141 up	1.267 up	1.110 down
PD0530	lipoyl synthase	1.048 up	1.288 down	1.256 down	1.229 down	1.198 down	1.025 down
PD0531	lipoyltransferase	1.169 up	1.004 up	1.060 down	1.175 up	1.103 up	1.065 up
PD0532	hypothetical protein	1.161 up	1.135 up	1.001 up	1.318 up	1.162 up	1.134 up

PD0533	hypothetical protein	1.124 up	1.170 up	1.147 down	1.315 up	1.020 down	1.342 up
PD0534	poly(hydroxyalcanoate) granule associated protein	1.155 down	1.024 up	1.021 up	1.127 down	1.130 down	1.002 up
PD0535	hypothetical protein	1.144 down	1.054 up	1.075 down	1.084 down	1.230 down	1.134 up
PD0536	hemolysin	1.337 down	1.412 up	1.287 up	1.056 up	1.038 down	1.097 up
PD0537	carboxypeptidase related protein	1.022 down	1.003 down	1.308 down	1.025 down	1.337 down	1.304 up
PD0538	hypothetical protein	1.016 down	1.123 down	1.080 down	1.142 down	1.098 down	1.040 down
PD0539	DNA topoisomerase IV subunit B	1.166 up	1.144 up	1.202 down	1.334 up	1.031 down	1.376 up
PD0540	hypothetical protein	1.125 up	1.000 up	1.162 down	1.126 up	1.033 down	1.163 up
PD0541	CTP synthetase	1.035 up	1.095 down	1.141 up	1.057 down	1.181 up	1.250 down
PD0542	2-dehydro-3-deoxyphosphooctonate aldolase	1.230 down	1.252 up	1.075 up	1.017 up	1.144 down	1.164 up
PD0543	phosphopyruvate hydratase	1.007 down	1.166 down	1.159 up	1.175 down	1.150 up	1.352 down
PD0544	cell division protein FtsB	1.001 up	1.076 up	1.175 down	1.078 up	1.173 down	1.265 up
PD0545	2-C-methyl-D-erythritol 4-phosphate cytidyltransferase	1.084 down	1.032 up	1.084 down	1.050 down	1.176 down	1.119 up
PD0546	2-C-methyl-D-erythritol 2,4-cyclodiphosphate synthase	1.187 up	1.034 up	1.416 down	1.229 up	1.192 down	1.465 up
PD0547	hypothetical protein	1.071 up	1.182 down	1.209 down	1.103 down	1.128 down	1.022 up
PD0548	gluconolactonase	1.052 up	1.013 up	1.017 down	1.066 up	1.034 up	1.031 up
PD0549	electron transfer flavoprotein ubiquinone oxidoreductase	1.037 up	1.653 down	1.358 down	1.594 down	1.309 down	1.217 down
PD0550	alkylated DNA repair protein	1.073 up	1.013 down	1.024 up	1.059 up	1.099 up	1.037 down
PD0551	hypothetical protein	1.182 down	1.213 down	1.307 down	1.434 down	1.545 down	1.077 up
PD0552	ABC transporter permease	1.246 down	1.244 down	1.004 up	1.551 down	1.241 down	1.249 down

PD0553	ABC transporter ATP-binding protein	1.004 up	1.095 down	1.088 down	1.090 down	1.083 down	1.006 down
PD0554	ABC transporter permease	1.039 up	1.098 down	1.016 up	1.056 down	1.056 up	1.116 down
PD0555	hypothetical protein	1.040 up	1.191 down	1.183 down	1.145 down	1.137 down	1.006 down
PD0556	hypothetical protein	1.203 up	1.240 up	1.795 up	1.492 up	2.160 up	1.447 down
PD0557	rod shape-determining protein	1.117 up	1.031 down	1.062 down	1.083 up	1.052 up	1.029 up
PD0558	rod shape-determining protein	1.154 up	1.072 down	1.123 up	1.076 up	1.297 up	1.205 down
PD0559	rod shape-determining protein	1.147 down	1.172 up	1.233 up	1.022 up	1.075 up	1.051 down
PD0560	penicillin-binding protein 2	1.151 up	1.220 up	1.046 up	1.405 up	1.205 up	1.165 up
PD0561	rod shape-determining protein	1.208 down	1.096 up	1.031 up	1.102 down	1.171 down	1.062 up
PD0562	S-adenosylmethionine:tRNA ribosyltransferase-isomerase	1.195 up	1.144 down	1.006 up	1.044 up	1.203 up	1.151 down
PD0563	ATP:GTP 3'-pyrophosphotranferase	1.011 up	1.301 up	1.384 up	1.316 up	1.400 up	1.063 down
PD0564	hypothetical protein	1.292 down	1.049 down	1.357 up	1.355 down	1.050 up	1.423 down
PD0565	hypothetical protein	1.095 up	1.130 up	1.054 up	1.238 up	1.154 up	1.071 up
PD0566	cell division topological specificity factor MinE	1.195 down	1.232 down	1.115 down	1.473 down	1.333 down	1.104 down
PD0567	septum site-determining protein	1.016 up	1.040 up	1.109 up	1.057 up	1.127 up	1.065 down
PD0568	septum formation inhibitor	1.037 down	1.230 down	1.147 down	1.276 down	1.189 down	1.072 down
PD0569	hypothetical protein	1.377 down	1.071 up	1.079 up	1.285 down	1.276 down	1.006 down
PD0570	hypothetical protein	1.013 up	1.005 down	1.013 down	1.008 up	none	1.008 up
PD0571	hypothetical protein	1.323 down	1.050 up	1.004 down	1.259 down	1.329 down	1.055 up
PD0572	DNA-3-methyladenine glycosidase	1.019 up	1.001 down	1.012 down	1.018 up	1.007 up	1.010 up

PD0573	hypothetical protein	1.169 down	1.133 up	1.175 up	1.032 down	1.005 up	1.037 down
PD0574	cytochrome B561	1.154 down	1.148 down	1.001 up	1.325 down	1.152 down	1.150 down
PD0575	hypothetical protein	1.210 down	1.154 up	1.008 down	1.048 down	1.221 down	1.164 up
PD0576	histidine kinase/response regulator hybrid protein	1.134 down	1.022 up	1.147 down	1.109 down	1.300 down	1.172 up
PD0577	site-specific DNA-methyltransferase	1.105 up	1.156 down	1.139 down	1.046 down	1.030 down	1.014 down
PD0578	hypothetical protein	1.006 up	1.172 down	1.157 down	1.164 down	1.149 down	1.012 down
PD0579	hypothetical protein	1.047 down	1.386 down	1.387 down	1.452 down	1.453 down	1.000 up
PD0580	uroporphyrinogen decarboxylase	1.039 up	1.284 down	1.054 down	1.235 down	1.014 down	1.218 down
PD0581	3-dehydroquinate synthase	1.142 down	1.040 down	1.001 up	1.188 down	1.141 down	1.041 down
PD0582	shikimate kinase	1.143 down	1.211 up	1.120 up	1.059 up	1.020 down	1.080 up
PD0583	pyridoxamine 5'-phosphate oxidase	1.309 up	1.022 up	1.024 down	1.338 up	1.277 up	1.047 up
PD0584	glutaminyl-tRNA synthetase	1.062 down	1.242 down	1.344 down	1.319 down	1.428 down	1.082 up
PD0585	hypothetical protein	1.118 up	1.004 down	1.028 up	1.113 up	1.149 up	1.032 down
PD0586	copper homeostasis protein	1.106 up	1.029 up	1.324 down	1.139 up	1.197 down	1.363 up
PD0587	hypothetical protein	1.121 down	1.367 down	1.068 up	1.534 down	1.049 down	1.461 down
PD0588	ABC transporter sulfate binding protein	1.150 up	1.242 up	1.112 up	1.428 up	1.279 up	1.116 up
PD0589	ABC transporter sulfate permease	1.024 down	1.182 up	1.147 up	1.154 up	1.120 up	1.030 up
PD0590	ABC transporter sulfate permease	1.222 up	1.057 up	1.018 up	1.292 up	1.244 up	1.038 up
PD0591	sulfate ABC transporter ATP-binding protein	1.259 up	1.031 up	1.351 down	1.299 up	1.072 down	1.394 up
PD0592	lipid A biosynthesis lauroyl acyltransferase	1.003 down	1.020 up	1.024 up	1.016 up	1.020 up	1.004 down

PD0593	RNA polymerase sigma factor	1.323 down	1.003 up	1.166 up	1.318 down	1.134 down	1.161 down
PD0594	DNA topoisomerase IV subunit A	1.130 down	1.296 down	1.465 down	1.465 down	1.656 down	1.130 up
PD0595	transcriptional regulator MarR family	1.338 up	1.143 down	1.180 down	1.169 up	1.134 up	1.031 up
PD0596	hypothetical protein	1.314 down	1.228 up	1.287 up	1.069 down	1.021 down	1.047 down
PD0597	biotin biosynthesis protein	1.112 down	1.086 down	1.017 down	1.208 down	1.131 down	1.068 down
PD0598	8-amino-7-oxononanoate synthase	1.241 down	1.156 up	1.115 up	1.073 down	1.112 down	1.036 up
PD0599	cytochrome oxidase assembly protein	1.318 down	1.084 up	1.129 up	1.216 down	1.167 down	1.041 down
PD0600	protoheme IX farnesyltransferase	1.155 up	1.101 down	1.021 down	1.049 up	1.131 up	1.077 down
PD0602	tRNA nucleotidyl transferase	1.086 up	1.312 down	1.178 down	1.207 down	1.084 down	1.113 down
PD0603	soluble lytic murein transglycosylase precursor	1.089 up	1.062 down	1.092 up	1.026 up	1.190 up	1.160 down
PD0604	phosphatidylserine decarboxylase	1.181 down	1.136 up	1.088 down	1.039 down	1.285 down	1.236 up
PD0605	truncated cytochrome C oxidase	1.026 down	1.042 down	1.192 down	1.069 down	1.223 down	1.143 up
PD0606	adenine-specific methylase	1.063 down	1.246 down	1.161 down	1.325 down	1.234 down	1.073 down
PD0607	chorismate synthase	1.068 up	1.262 down	1.071 down	1.181 down	1.002 down	1.178 down
PD0608	aspartate-semialdehyde dehydrogenase	1.045 down	1.154 up	1.021 up	1.104 up	1.023 down	1.130 up
PD0609	hypothetical protein	1.013 up	1.161 down	1.053 down	1.146 down	1.039 down	1.102 down
PD0610	tRNA pseudouridine synthase A	1.237 up	1.056 up	1.246 up	1.307 up	1.542 up	1.179 down
PD0611	N-(5'-phosphoribosyl)anthranilate isomerase	1.014 up	1.118 up	1.111 up	1.134 up	1.128 up	1.005 up
PD0612	tryptophan synthase subunit beta	1.042 down	1.100 down	1.066 up	1.148 down	1.022 up	1.173 down
PD0613	tryptophan synthase subunit alpha	1.031 down	1.169 down	1.088 up	1.207 down	1.055 up	1.273 down

PD0614	DNA repair protein	1.009 down	1.137 down	1.438 down	1.148 down	1.452 down	1.264 up
PD0615	luciferase	1.069 up	1.045 down	1.137 down	1.023 up	1.063 down	1.088 up
PD0616	hypothetical protein	1.156 down	1.051 down	1.027 down	1.216 down	1.187 down	1.023 down
PD0617	ATP-dependent DNA helicase	1.098 down	1.279 down	1.002 up	1.406 down	1.096 down	1.283 down
PD0618	DNA-binding related protein	1.013 down	1.013 up	1.179 up	none	1.164 up	1.164 down
PD0619	ATP-dependent helicase	1.173 up	1.132 up	1.051 up	1.328 up	1.233 up	1.077 up
PD0620	glycine dehydrogenase	1.116 down	1.001 up	1.117 up	1.114 down	1.001 up	1.116 down
PD0621	cytochrome O ubiquinol oxidase subunit IV	1.061 up	1.639 down	1.335 down	1.544 down	1.257 down	1.228 down
PD0622	cytochrome O ubiquinol oxidase subunit III	1.061 up	1.188 down	1.274 down	1.119 down	1.201 down	1.072 up
PD0623	cytochrome O ubiquinol oxidase subunit I	1.098 down	1.124 down	1.003 up	1.236 down	1.094 down	1.129 down
PD0624	cytochrome O ubiquinol oxidase subunit II	1.022 down	1.135 down	1.205 down	1.161 down	1.233 down	1.062 up
PD0625	octaprenyl-diphosphate synthase	1.012 up	1.588 down	1.299 down	1.569 down	1.283 down	1.222 down
PD0626	single-strand DNA-binding protein	1.034 down	1.005 up	1.203 down	1.028 down	1.244 down	1.210 up
PD0627	2-polyprenyl-3-methyl-5-hydroxy-6-methoxy-1, 4-benzoquinol methylase	1.156 up	1.003 down	1.094 down	1.152 up	1.057 up	1.090 up
PD0628	Na ⁺ /H ⁺ exchange protein	1.046 down	1.051 up	1.045 up	1.004 up	1.001 down	1.005 up
PD0629	lactoylglutathione lyase	1.236 down	1.206 up	1.141 up	1.024 down	1.082 down	1.056 up
PD0631	phosphotransferase system enzyme I	1.242 down	1.059 down	1.133 up	1.315 down	1.095 down	1.200 down
PD0632	phosphotransferase system HPr enzyme	1.632 up	1.281 down	1.558 down	1.273 up	1.047 up	1.216 up
PD0633	sugar transport protein	1.125 down	1.197 up	1.393 up	1.064 up	1.238 up	1.163 down
PD0634	hypothetical protein	1.128 down	1.210 down	1.177 down	1.366 down	1.329 down	1.028 down

PD0635	HPr kinase/phosphorylase	1.208 up	1.152 down	1.084 down	1.049 up	1.114 up	1.061 down
PD0636	sigma-54 modulation protein	1.092 down	1.004 up	1.066 up	1.087 down	1.024 down	1.061 down
PD0637	DNA-directed RNA polymerase subunit N	1.036 down	1.038 down	1.038 down	1.076 down	1.076 down	none
PD0638	ABC transporter ATP-binding protein	1.134 down	1.092 down	1.005 up	1.240 down	1.129 down	1.098 down
PD0639	hypothetical protein	1.293 down	1.011 down	1.015 down	1.308 down	1.313 down	1.003 up
PD0640	hypothetical protein	1.236 down	1.175 up	1.014 down	1.051 down	1.254 down	1.192 up
PD0641	hypothetical protein	1.144 down	1.484 down	1.413 down	1.699 down	1.617 down	1.050 down
PD0642	polysialic acid capsule expression protein	1.123 up	1.427 down	1.178 down	1.270 down	1.048 down	1.211 down
PD0643	hypothetical protein	1.297 up	1.089 up	1.072 up	1.412 up	1.391 up	1.015 up
PD0644	UDP-N-acetylglucosamine 1-carboxyvinyltransferase	1.032 down	1.344 up	1.264 up	1.301 up	1.224 up	1.063 up
PD0645	hypothetical protein	1.200 up	1.044 down	1.067 up	1.149 up	1.281 up	1.114 down
PD0646	hypothetical protein	1.003 up	1.087 down	1.203 down	1.083 down	1.199 down	1.106 up
PD0647	UDP-3-O-[3-hydroxymyristoyl] glucosamine N-acyltransferase	1.084 up	1.046 up	1.050 up	1.135 up	1.139 up	1.003 down
PD0648	hypothetical protein	1.039 up	1.074 up	1.096 up	1.116 up	1.139 up	1.020 down
PD0649	hypothetical protein	1.084 down	1.429 down	1.080 down	1.550 down	1.172 down	1.323 down
PD0650	phosphoribosylformylglycinamide synthase	1.290 down	1.161 up	1.268 up	1.110 down	1.017 down	1.092 down
PD0651	disulfide isomerase	1.060 up	1.114 down	1.224 down	1.050 down	1.154 down	1.098 up
PD0652	tyrosine recombinase	1.095 down	1.185 down	1.145 down	1.298 down	1.255 down	1.034 down
PD0653	ion transporter 33.9 kDa	1.138 down	1.003 down	1.023 up	1.142 down	1.112 down	1.026 down
PD0654	bifunctional N-succinyldiaminopimelate-aminotransferase/ acetylornithine transaminase protein	1.038 up	1.108 up	1.093 up	1.151 up	1.135 up	1.013 up

PD0655	glutamate-cysteine ligase precursor	1.084 down	1.171 up	1.009 up	1.080 up	1.073 down	1.160 up
PD0656	GTP-binding protein	1.004 up	1.069 down	1.089 up	1.064 down	1.094 up	1.165 down
PD0657	hypothetical protein	1.117 up	1.101 down	1.239 down	1.014 up	1.109 down	1.126 up
PD0658	thiol:disulfide interchange protein	1.065 up	1.072 up	1.072 down	1.142 up	1.006 down	1.149 up
PD0659	thiol:disulfide interchange protein	1.182 up	1.019 down	1.268 down	1.159 up	1.072 down	1.243 up
PD0660	hypothetical protein	1.010 down	1.401 down	1.284 down	1.415 down	1.297 down	1.091 down
PD0661	hypothetical protein	1.025 up	1.177 up	1.052 up	1.208 up	1.079 up	1.119 up
PD0662	tRNA (5-methylaminomethyl-2-thiouridylate)-methyltransferase	1.029 up	1.057 down	1.078 down	1.027 down	1.047 down	1.019 up
PD0663	dNTP pyrophosphohydrolase	1.123 up	1.182 down	1.418 down	1.052 down	1.262 down	1.199 up
PD0664	ATP-dependent Clp protease adaptor protein ClpS	1.180 down	1.040 down	1.039 up	1.227 down	1.135 down	1.081 down
PD0665	ATP-dependent Clp protease subunit	1.017 down	1.469 up	1.090 up	1.443 up	1.071 up	1.347 up
PD0666	translation initiation factor IF-1	1.439 up	1.763 down	1.881 down	1.225 down	1.307 down	1.066 up
PD0667	leucyl/phenylalanyl-tRNA--protein transferase	1.017 down	1.031 down	1.475 down	1.049 down	1.500 down	1.429 up
PD0668	hypothetical protein	1.142 down	1.067 down	1.006 down	1.219 down	1.149 down	1.060 down
PD0669	thioredoxin reductase	1.122 up	1.246 down	1.231 down	1.110 down	1.096 down	1.012 down
PD0670	cell division protein	1.107 up	1.040 up	1.246 down	1.151 up	1.125 down	1.296 up
PD0671	hypothetical protein	1.165 up	1.028 down	1.152 down	1.132 up	1.011 up	1.120 up
PD0672	outer-membrane lipoprotein carrier protein precursor	1.030 down	1.138 up	1.008 down	1.105 up	1.039 down	1.149 up
PD0673	ATPase	1.032 down	1.124 up	1.081 up	1.088 up	1.047 up	1.039 up
PD0674	transmembrane protein	1.614 up	1.478 down	1.114 down	1.092 up	1.448 up	1.326 down

PD0675	histidine kinase/response regulator hybrid protein	1.149 down	1.304 up	1.078 down	1.134 up	1.240 down	1.407 up
PD0676	2-amino-4-hydroxy-6- hydroxymethyl-dihydropteridine pyrophosphokinase	1.236 up	1.186 down	1.047 down	1.042 up	1.180 up	1.132 down
PD0677	pteridine reductase	1.043 down	1.244 down	1.153 down	1.298 down	1.203 down	1.078 down
PD0678	hypothetical protein	1.039 up	1.006 down	1.223 up	1.032 up	1.272 up	1.232 down
PD0679	hypothetical protein	1.416 up	1.172 down	1.043 down	1.207 up	1.357 up	1.124 down
PD0680	glucose kinase	1.034 up	1.269 down	1.003 down	1.227 down	1.030 up	1.266 down
PD0681	glucose/galactose transporter	1.164 up	1.255 down	1.036 down	1.078 down	1.122 up	1.210 down
PD0682	transcriptional regulator LacI family	1.006 up	1.111 down	1.085 down	1.104 down	1.079 down	1.023 down
PD0683	glucosamine--fructose-6-phosphate aminotransferase	1.023 down	1.037 up	1.250 down	1.013 up	1.279 down	1.296 up
PD0684	N-acetylglucosamine-6-phosphate deacetylase	1.057 up	1.068 up	1.219 up	1.129 up	1.289 up	1.141 down
PD0685	acetyl-CoA carboxylase beta subunit	1.151 up	1.022 up	1.015 down	1.176 up	1.133 up	1.038 up
PD0686	phosphomannomutase	1.203 down	1.093 up	1.033 up	1.101 down	1.164 down	1.057 up
PD0687	Shf protein	1.134 down	1.085 down	1.433 down	1.230 down	1.625 down	1.320 up
PD0688	UDP-N-acetylglucosamine--N-acetylmuramyl-(pentapeptide) pyrophosphoryl-undecaprenol	1.130 down	1.108 down	1.003 down	1.252 down	1.134 down	1.104 down
PD0689	benzene 1,2-dioxygenase, ferredoxin protein	1.206 down	1.236 down	1.249 down	1.492 down	1.508 down	1.010 up
PD0690	selenocysteine lyase	1.086 down	1.405 down	1.157 down	1.526 down	1.257 down	1.214 down
PD0691	ABC transporter membrane protein	1.037 down	1.194 down	1.122 down	1.239 down	1.163 down	1.064 down
PD0692	ABC transporter ATP-binding protein	1.124 up	1.608 down	1.419 down	1.430 down	1.261 down	1.133 down
PD0693	ABC transporter membrane protein	1.208 down	1.005 up	1.121 down	1.201 down	1.354 down	1.127 up

PD0694	hypothetical protein	1.264 up	1.154 down	1.223 down	1.095 up	1.034 up	1.059 up
PD0695	hypothetical protein	1.242 down	1.280 up	1.384 up	1.030 up	1.113 up	1.081 down
PD0696	dipeptidyl aminopeptidase	1.047 down	1.072 up	1.172 up	1.024 up	1.119 up	1.092 down
PD0697	hypothetical protein	1.304 down	1.206 down	1.033 down	1.574 down	1.347 down	1.168 down
PD0698	diaminopimelate epimerase	1.110 up	1.066 down	1.017 down	1.041 up	1.092 up	1.048 down
PD0699	hypothetical protein	1.170 down	1.022 down	1.161 down	1.197 down	1.359 down	1.135 up
PD0700	tyrosine recombinase	1.021 up	1.005 down	1.075 up	1.015 up	1.098 up	1.081 down
PD0701	ATP-dependent protease peptidase subunit	1.043 up	1.315 down	1.220 down	1.260 down	1.169 down	1.077 down
PD0704	ubiquinone/menaquinone biosynthesis methyltransferase	1.089 down	1.087 down	1.048 up	1.184 down	1.038 down	1.140 down
PD0705	aminopeptidase N	1.006 down	1.022 down	1.134 down	1.028 down	1.141 down	1.110 up
PD0706	hypothetical protein	1.199 up	1.075 down	1.035 down	1.114 up	1.158 up	1.039 down
PD0707	transcriptional regulator MarR/EmrR family	1.063 up	1.001 down	1.032 up	1.061 up	1.097 up	1.033 down
PD0708	virulence regulator	1.112 up	1.015 up	1.047 down	1.129 up	1.061 up	1.063 up
PD0709	hypothetical protein	1.272 down	1.067 up	1.064 down	1.191 down	1.354 down	1.136 up
PD0710	hypothetical protein	1.087 up	1.193 down	1.074 down	1.098 down	1.011 up	1.111 down
PD0711	TonB-dependent receptor	1.235 up	1.073 down	1.033 up	1.150 up	1.276 up	1.109 down
PD0712	transposase	1.002 up	1.386 down	1.203 down	1.383 down	1.201 down	1.151 down
PD0713	hypothetical protein	1.180 up	1.146 down	1.138 down	1.029 up	1.036 up	1.007 down
PD0714	phosphoadenosine phosphosulfate reductase	1.156 down	1.274 down	1.232 down	1.473 down	1.425 down	1.034 down
PD0715	NADPH-sulfite reductase iron-sulfur protein	1.020 up	1.160 down	1.206 down	1.137 down	1.182 down	1.039 up

PD0716	NADPH-sulfite reductase flavoprotein subunit	1.148 down	1.177 up	1.204 up	1.024 up	1.048 up	1.023 down
PD0717	sulfate adenylyltransferase subunit 2	1.006 down	1.009 down	1.027 down	1.016 down	1.033 down	1.017 up
PD0718	binfunctional sulfate adenylyltransferase subunit 1/adenylylsulfate kinase protein	1.154 down	1.118 up	1.185 up	1.031 down	1.026 up	1.059 down
PD0719	DNA-directed RNA polymerase omega subunit	1.071 up	1.073 up	1.004 down	1.150 up	1.066 up	1.078 up
PD0720	guanylate kinase	1.067 up	1.043 down	1.035 up	1.023 up	1.104 up	1.079 down
PD0721	alpha helix protein	1.013 down	1.092 up	1.018 up	1.077 up	1.004 up	1.071 up
PD0722	ribonuclease PH	none	1.132 down	1.049 down	1.132 down	1.049 down	1.079 down
PD0723	putative deoxyribonucleotide triphosphate pyrophosphatase	1.006 down	1.160 up	1.132 up	1.152 up	1.124 up	1.024 up
PD0724	coproporphyrinogen III oxidase	1.056 down	1.184 up	1.005 down	1.121 up	1.062 down	1.191 up
PD0725	hypothetical protein	1.052 up	1.310 down	1.263 down	1.244 down	1.200 down	1.036 down
PD0726	hypothetical protein	1.066 down	1.297 down	1.017 up	1.384 down	1.048 down	1.320 down
PD0727	proline imino-peptidase	1.005 up	1.109 down	1.083 up	1.103 down	1.089 up	1.201 down
PD0728	protoporphyrinogen oxidase	1.125 up	1.080 down	1.133 down	1.042 up	1.006 down	1.048 up
PD0729	hypothetical protein	1.012 down	1.031 up	1.017 down	1.019 up	1.030 down	1.049 up
PD0730	hypothetical protein	1.118 up	1.256 down	1.012 up	1.123 down	1.132 up	1.272 down
PD0731	outer membrane protein XadA	1.074 up	1.091 down	1.035 up	1.015 down	1.113 up	1.130 down
PD0732	general secretory pathway protein E	1.131 up	1.147 down	1.083 up	1.014 down	1.225 up	1.242 down
PD0733	general secretory pathway protein F	1.123 down	1.018 up	1.014 up	1.102 down	1.106 down	1.003 up
PD0734	general secretory pathway protein G precursor	1.068 up	1.163 down	1.004 up	1.088 down	1.073 up	1.168 down
PD0735	general secretory pathway protein H precursor	1.310 up	1.157 down	1.254 down	1.132 up	1.044 up	1.083 up

PD0736	general secretory pathway protein I precursor	1.015 down	1.082 down	1.049 down	1.098 down	1.065 down	1.031 down
PD0737	hypothetical protein	1.258 up	1.170 down	1.113 down	1.075 up	1.130 up	1.051 down
PD0738	general secretory pathway protein K	1.217 down	1.295 up	1.394 up	1.063 up	1.145 up	1.076 down
PD0739	general secretory pathway protein L	1.152 up	1.420 down	1.027 down	1.232 down	1.121 up	1.381 down
PD0740	general secretion pathway protein	1.374 up	1.493 down	1.063 up	1.086 down	1.462 up	1.588 down
PD0741	XpsN protein	1.007 down	1.204 down	1.177 up	1.212 down	1.168 up	1.417 down
PD0742	general secretory pathway protein D precursor	1.170 up	1.100 down	1.028 up	1.064 up	1.204 up	1.131 down
PD0743	hypothetical protein	1.076 up	1.052 down	1.093 up	1.023 up	1.176 up	1.150 down
PD0744	surface protein	1.148 up	1.034 down	1.132 up	1.110 up	1.300 up	1.171 down
PD0745	subunit C of alkyl hydroperoxide reductase	1.240 up	1.169 down	1.074 up	1.060 up	1.332 up	1.256 down
PD0746	subunit F of alkyl hydroperoxide reductase	1.019 down	1.259 up	1.195 up	1.235 up	1.172 up	1.053 up
PD0747	oxidative stress transcriptional regulator	1.082 down	1.076 up	1.115 up	1.005 down	1.030 up	1.036 down
PD0748	hypothetical protein	1.150 up	1.041 down	1.021 up	1.105 up	1.174 up	1.063 down
PD0749	50S ribosomal protein L31	1.067 down	1.109 down	1.007 up	1.184 down	1.059 down	1.117 down
PD0750	citrate synthase	1.515 up	1.728 down	1.754 down	1.140 down	1.157 down	1.014 up
PD0751	30S ribosomal protein S9	none	1.083 up	1.181 up	1.082 up	1.181 up	1.090 down
PD0752	50S ribosomal protein L13	1.128 up	1.023 down	1.032 down	1.102 up	1.093 up	1.008 up
PD0753	ubiquinone biosynthesis protein	1.239 up	1.363 down	1.252 down	1.100 down	1.010 down	1.088 down
PD0754	S-adenosylmethionine decarboxylase proenzyme	1.043 up	1.064 down	1.171 down	1.020 down	1.122 down	1.100 up
PD0755	cAMP-regulatory protein	1.046 down	1.332 up	1.123 down	1.273 up	1.175 down	1.496 up

PD0756	molybdopterin biosynthesis protein	1.039 down	1.089 up	1.168 down	1.047 up	1.215 down	1.273 up
PD0757	peptidoglycan-associated outer membrane lipoprotein precursor	1.051 up	1.493 down	1.080 down	1.420 down	1.027 down	1.381 down
PD0758	dihydrolipoamide dehydrogenase	1.176 down	1.006 down	1.390 up	1.184 down	1.181 up	1.399 down
PD0759	dihydrolipoamide acetyltransferase	1.095 up	1.735 down	1.182 down	1.584 down	1.080 down	1.467 down
PD0760	oxoglutarate dehydrogenase	1.013 up	1.194 down	1.026 up	1.178 down	1.040 up	1.226 down
PD0761	hypothetical protein	1.007 up	1.134 down	1.006 up	1.126 down	1.013 up	1.141 down
PD0762	adenylosuccinate lyase	1.124 up	1.166 up	1.261 down	1.311 up	1.121 down	1.471 up
PD0763	fumarate hydratase	1.052 up	1.089 up	1.058 down	1.146 up	1.005 down	1.153 up
PD0764	phage-related integrase	1.106 down	1.412 up	1.147 up	1.276 up	1.037 up	1.230 up
PD0765	hypothetical protein	1.190 down	1.138 down	1.156 down	1.354 down	1.376 down	1.016 up
PD0766	hypothetical protein	1.103 up	1.023 down	1.062 up	1.077 up	1.172 up	1.087 down
PD0767	hypothetical protein	1.050 up	1.253 down	1.138 down	1.192 down	1.083 down	1.100 down
PD0768	hypothetical protein	1.100 up	1.017 down	1.003 down	1.081 up	1.097 up	1.014 down
PD0769	hypothetical protein	1.166 up	1.037 up	1.150 down	1.209 up	1.013 up	1.193 up
PD0770	hypothetical protein	1.003 up	1.063 down	1.024 down	1.060 down	1.020 down	1.038 down
PD0772	hypothetical protein	1.027 down	1.062 up	1.101 up	1.033 up	1.072 up	1.037 down
PD0773	glucose-inhibited division protein A	1.032 up	1.208 down	1.183 down	1.169 down	1.145 down	1.021 down
PD0774	hypothetical protein	1.201 down	1.511 down	1.165 down	1.816 down	1.399 down	1.297 down
PD0775	hypothetical protein	1.051 down	1.215 down	1.063 down	1.278 down	1.118 down	1.143 down
PD0776	hypothetical protein	1.126 up	1.265 down	1.247 down	1.123 down	1.107 down	1.014 down

PD0777	aspartyl/asparaginy beta-hydroxylase	1.264 down	1.135 down	1.117 up	1.435 down	1.131 down	1.268 down
PD0778	biotin synthesis protein	1.033 down	1.500 down	1.350 down	1.551 down	1.396 down	1.110 down
PD0779	hypothetical protein	1.115 up	1.099 down	1.079 up	1.014 up	1.204 up	1.187 down
PD0780	hypothetical protein	1.171 down	1.042 down	1.015 down	1.221 down	1.189 down	1.026 down
PD0781	hypothetical protein	1.210 up	1.117 down	1.080 down	1.082 up	1.120 up	1.034 down
PD0782	carbonic anhydrase	1.094 up	1.084 down	1.009 down	1.009 up	1.084 up	1.074 down
PD0783	multidrug-efflux transporter	1.030 down	1.138 down	1.185 down	1.172 down	1.220 down	1.041 up
PD0784	precursor of drug resistance protein	1.039 down	1.283 down	1.083 down	1.334 down	1.126 down	1.184 down
PD0785	NAD-glutamate dehydrogenase	1.208 up	1.111 down	1.404 down	1.087 up	1.162 down	1.264 up
PD0786	inorganic polyphosphate/ATP-NAD kinase	1.068 up	1.061 up	1.048 down	1.134 up	1.019 up	1.112 up
PD0787	5'-nucleotidase	1.359 up	1.473 down	1.403 down	1.083 down	1.032 down	1.050 down
PD0788	hypothetical protein	1.223 down	1.426 down	1.055 down	1.744 down	1.290 down	1.351 down
PD0789	resolvase/integrase-like protein	1.065 up	1.053 up	1.108 up	1.123 up	1.181 up	1.051 down
PD0790	DNA primase	1.382 up	3.630 up	1.512 up	5.020 up	2.091 up	2.400 up
PD0791	hypothetical protein	1.050 up	1.003 down	1.105 down	1.046 up	1.052 down	1.101 up
PD0792	hypothetical protein	1.034 down	1.185 down	1.093 up	1.226 down	1.056 up	1.296 down
PD0793	exodeoxyribonuclease I	1.369 down	1.132 up	1.243 up	1.209 down	1.101 down	1.098 down
PD0794	hypothetical protein	1.195 down	1.055 up	1.334 up	1.133 down	1.116 up	1.264 down
PD0795	Na ⁺ :H ⁺ antiporter	1.263 up	1.126 down	1.142 up	1.121 up	1.442 up	1.286 down
PD0796	hypothetical protein	1.318 up	1.131 up	1.144 down	1.492 up	1.152 up	1.295 up

PD0797	ribose-5-phosphate isomerase A	1.102 up	1.061 up	1.030 up	1.169 up	1.135 up	1.029 up
PD0798	hypothetical protein	1.164 down	1.132 down	1.055 down	1.319 down	1.229 down	1.072 down
PD0799	hypothetical protein	1.047 up	1.420 down	1.435 down	1.355 down	1.369 down	1.010 up
PD0800	hypothetical protein	1.077 down	1.223 up	1.018 up	1.135 up	1.057 down	1.201 up
PD0801	hypothetical protein	1.270 up	1.049 down	1.103 down	1.209 up	1.151 up	1.050 up
PD0802	hypothetical protein	1.211 up	1.221 down	1.013 up	1.008 down	1.227 up	1.237 down
PD0803	aminopeptidase P	1.107 up	1.100 up	1.117 up	1.218 up	1.237 up	1.015 down
PD0804	hypothetical protein	1.238 down	1.057 down	1.285 down	1.309 down	1.592 down	1.216 up
PD0805	hypothetical protein	1.009 down	1.194 down	1.140 up	1.205 down	1.129 up	1.361 down
PD0806	hypothetical protein	1.042 down	1.009 up	1.055 down	1.032 down	1.099 down	1.064 up
PD0807	hypothetical protein	1.232 down	1.040 up	1.178 up	1.184 down	1.045 down	1.133 down
PD0808	hypothetical protein	1.197 down	1.017 up	1.069 up	1.177 down	1.119 down	1.051 down
PD0809	hypothetical protein	1.133 up	1.322 down	1.262 down	1.166 down	1.113 down	1.047 down
PD0810	branched-chain amino acid aminotransferase	1.189 down	1.038 down	1.008 down	1.235 down	1.200 down	1.029 down
PD0811	DNA-binding protein Fis	1.078 down	1.004 up	1.235 down	1.073 down	1.331 down	1.240 up
PD0812	hypothetical protein	1.219 down	1.810 down	1.321 down	2.206 down	1.610 down	1.370 down
PD0813	transcriptional regulator PbsX family	1.056 down	1.044 down	1.204 up	1.103 down	1.140 up	1.258 down
PD0814	hypothetical protein	1.268 down	1.197 up	1.248 up	1.059 down	1.016 down	1.042 down
PD0815	beta 1,4 glucosyltransferase	1.102 up	1.213 down	1.052 down	1.100 down	1.047 up	1.153 down
PD0816	hypothetical protein	1.134 up	1.114 down	1.084 up	1.017 up	1.229 up	1.208 down

PD0817	GTP cyclohydrolase	1.064 down	1.204 down	1.106 up	1.282 down	1.039 up	1.332 down
PD0818	thioredoxin	1.026 up	1.099 up	1.076 down	1.129 up	1.047 down	1.183 up
PD0819	hypothetical protein	1.098 up	1.073 up	1.057 down	1.178 up	1.038 up	1.134 up
PD0820	truncated ribonuclease R	1.055 up	1.167 up	1.027 up	1.232 up	1.084 up	1.137 up
PD0821	tRNA/rRNA methyltransferase	1.053 up	1.044 down	1.013 up	1.009 up	1.067 up	1.058 down
PD0822	transferase	none	1.068 down	1.403 down	1.068 down	1.403 down	1.313 up
PD0823	GTP cyclohydrolase I	1.271 up	1.214 down	1.008 up	1.047 up	1.282 up	1.224 down
PD0824	surface protein	1.044 down	1.114 up	1.252 up	1.066 up	1.198 up	1.124 down
PD0825	transmembrane protein	1.176 up	1.041 up	1.264 up	1.224 up	1.487 up	1.215 down
PD0826	hypothetical protein	1.098 up	1.014 down	1.004 down	1.082 up	1.093 up	1.010 down
PD0827	phosphoribosylamine--glycine ligase	1.005 up	1.415 down	1.182 down	1.407 down	1.175 down	1.197 down
PD0828	bifunctionalphosphoribosylaminoimidazolecarboxamide formyltransferase/IMP cyclohydrolase	1.268 down	1.098 down	1.162 down	1.392 down	1.474 down	1.058 up
PD0829	hypothetical protein	1.024 up	1.110 down	1.260 up	1.083 down	1.291 up	1.399 down
PD0830	tRNA/rRNA methylase	1.199 down	1.130 down	1.058 down	1.356 down	1.269 down	1.068 down
PD0831	hypothetical protein	1.129 down	1.066 up	1.240 up	1.059 down	1.097 up	1.162 down
PD0832	3-oxoacyl-(acyl carrier protein) synthase	1.146 down	1.430 down	1.118 down	1.641 down	1.282 down	1.279 down
PD0833	methyltransferase, type III restriction-modification system	1.032 up	1.066 up	1.220 up	1.101 up	1.259 up	1.143 down
PD0834	hypothetical protein	1.220 down	1.011 up	1.001 up	1.206 down	1.218 down	1.010 up
PD0835	hypothetical protein	1.064 down	1.113 up	1.055 up	1.046 up	1.007 down	1.054 up
PD0836	haloalkane dehalogenase	1.055 up	1.192 up	1.348 up	1.257 up	1.423 up	1.131 down

PD0837	ferredoxin	1.384 down	1.336 up	1.163 up	1.035 down	1.189 down	1.148 up
PD0838	hypothetical protein	1.046 down	1.052 up	1.036 up	1.005 up	1.009 down	1.015 up
PD0839	NAD(+) synthase	1.019 down	1.185 up	1.370 up	1.163 up	1.344 up	1.155 down
PD0840	glycyl-tRNA synthetase alpha subunit	1.422 up	1.354 down	1.148 down	1.050 up	1.239 up	1.179 down
PD0841	glycyl-tRNA synthetase beta subunit	1.104 up	1.255 down	1.186 down	1.136 down	1.074 down	1.058 down
PD0842	hypothetical protein	1.042 up	1.113 up	1.088 up	1.160 up	1.135 up	1.022 up
PD0843	TonB protein	1.130 down	1.611 down	1.360 down	1.822 down	1.538 down	1.184 down
PD0844	glutathione synthetase	1.200 down	1.064 up	1.180 up	1.127 down	1.017 down	1.108 down
PD0845	pilus protein	1.091 up	1.344 down	1.030 down	1.466 down	1.123 down	1.305 down
PD0846	pilus biogenesis protein	1.073 up	1.034 down	1.092 down	1.037 up	1.018 down	1.056 up
PD0847	pilus biogenesis protein	1.010 down	1.063 down	1.229 up	1.074 down	1.215 up	1.306 down
PD0848	chemotaxis-related protein kinase	1.352 up	1.049 up	1.152 down	1.419 up	1.173 up	1.209 up
PD0849	glutamate methyltransferase	1.309 up	1.225 down	1.248 down	1.068 up	1.048 up	1.018 up
PD0850	hypothetical protein	1.086 up	1.046 down	1.038 down	1.037 up	1.046 up	1.008 down
PD0851	amidophosphoribosyltransferase	1.031 down	1.068 up	1.078 up	1.035 up	1.045 up	1.009 down
PD0852	colicin V production protein	1.175 up	1.344 down	1.431 down	1.143 down	1.218 down	1.064 up
PD0853	hypothetical protein	1.222 down	1.266 up	1.131 up	1.035 up	1.081 down	1.119 up
PD0854	folylpolyglutamate synthase/dihydrofolate synthase	1.132 down	1.229 up	1.322 up	1.085 up	1.167 up	1.075 down
PD0855	VirK protein	1.042 down	1.114 down	1.010 up	1.162 down	1.032 down	1.126 down
PD0856	peptidyl-dipeptidase	1.172 down	1.051 up	1.254 up	1.114 down	1.070 up	1.193 down

PD0857	histone-like protein	1.134 up	1.049 down	1.098 up	1.080 up	1.246 up	1.153 down
PD0858	hypothetical protein	1.143 down	1.080 down	1.037 down	1.235 down	1.186 down	1.041 down
PD0859	methionine sulfoxide reductase A	1.157 up	1.265 down	1.273 down	1.092 down	1.099 down	1.006 up
PD0860	proton glutamate symport protein	1.158 down	1.003 down	1.095 down	1.163 down	1.269 down	1.091 up
PD0861	transketolase	1.116 up	1.172 down	1.175 down	1.050 down	1.053 down	1.002 up
PD0862	glucose-inhibited division protein B	1.352 up	1.788 down	1.441 down	1.321 down	1.065 down	1.240 down
PD0863	HetI protein	1.300 up	1.026 up	1.448 down	1.334 up	1.113 down	1.486 up
PD0864	exodeoxyribonuclease III	1.089 up	1.104 down	1.010 up	1.014 down	1.100 up	1.116 down
PD0866	integral membrane protein	1.185 down	1.366 up	1.103 up	1.152 up	1.074 down	1.238 up
PD0867	nicotinate-nucleotide pyrophosphorylase	1.045 down	1.089 up	1.023 up	1.042 up	1.021 down	1.064 up
PD0868	L-aspartate oxidase	1.144 down	1.122 down	1.033 up	1.284 down	1.106 down	1.160 down
PD0869	quinolinate synthetase	1.091 up	1.127 up	1.123 down	1.231 up	1.029 down	1.266 up
PD0870	superoxide dismutase [Mn]	1.100 down	1.099 up	1.007 down	1.001 down	1.108 down	1.107 up
PD0871	Trp operon transcriptional repressor	1.014 up	1.039 down	1.003 up	1.024 down	1.018 up	1.043 down
PD0872	iron-sulfur flavoprotein	1.367 up	1.394 down	1.521 down	1.019 down	1.112 down	1.090 up
PD0873	hypothetical protein	1.066 up	1.099 down	1.144 down	1.030 down	1.072 down	1.041 up
PD0874	hypothetical protein	1.102 up	1.051 down	1.047 down	1.048 up	1.052 up	1.003 down
PD0876	anthranilate synthase component II	1.153 up	1.011 down	1.146 up	1.139 up	1.322 up	1.160 down
PD0878	type V secretory pathway protein	1.126 down	1.158 down	1.212 down	1.305 down	1.366 down	1.046 up
PD0879	hypothetical protein	1.294 down	1.197 up	1.107 up	1.080 down	1.168 down	1.080 up

PD0880	hypothetical protein	1.153 down	1.105 up	1.143 up	1.043 down	1.008 down	1.034 down
PD0881	cell division protein	1.059 up	1.236 down	1.217 down	1.167 down	1.149 down	1.015 down
PD0882	A/G-specific adenine glycosylase	1.352 up	1.307 down	1.161 down	1.033 up	1.164 up	1.126 down
PD0883	hypothetical protein	1.056 up	1.294 down	1.012 up	1.225 down	1.069 up	1.310 down
PD0884	hypothetical protein	1.012 down	1.041 up	1.211 up	1.029 up	1.196 up	1.162 down
PD0885	hypothetical protein	1.181 up	1.023 down	1.069 down	1.154 up	1.104 up	1.045 up
PD0886	Holliday junction resolvase	1.047 down	1.320 up	1.091 up	1.260 up	1.041 up	1.209 up
PD0887	Holliday junction DNA helicase motor protein	1.019 up	1.000 up	1.135 down	1.019 up	1.114 down	1.136 up
PD0888	potassium uptake protein	1.015 up	1.103 up	1.374 up	1.120 up	1.395 up	1.245 down
PD0889	Holliday junction DNA helicase RuvB	1.181 up	1.204 down	1.213 down	1.018 down	1.027 down	1.008 up
PD0890	hypothetical protein	1.106 up	1.159 up	1.093 down	1.282 up	1.011 up	1.268 up
PD0891	TolQ protein	1.330 up	1.221 up	1.131 up	1.625 up	1.505 up	1.079 up
PD0892	TolR protein	1.053 down	1.027 down	1.198 up	1.082 down	1.138 up	1.231 down
PD0893	TolA protein	1.015 up	1.020 down	1.028 up	1.004 down	1.044 up	1.049 down
PD0894	translocation protein TolB precursor	1.005 up	1.094 down	1.116 down	1.087 down	1.109 down	1.020 up
PD0895	outer membrane protein P6 precursor	1.082 up	1.141 down	1.122 down	1.055 down	1.037 down	1.017 down
PD0896	hypothetical protein	1.174 up	1.106 down	1.003 up	1.061 up	1.178 up	1.110 down
PD0897	radical activating enzyme	1.148 down	1.111 down	1.160 up	1.276 down	1.010 up	1.290 down
PD0898	phosphoglyceromutase	1.123 up	1.332 down	1.348 down	1.186 down	1.200 down	1.012 up
PD0899	deoxyinosine 3'endonuclease	1.328 down	1.069 down	1.029 up	1.420 down	1.289 down	1.101 down

PD0900	di-tripeptide ABC transporter membrane protein	1.138 up	1.203 down	1.127 up	1.057 down	1.284 up	1.357 down
PD0901	glutathione peroxidase-like protein	1.693 up	1.412 down	1.378 down	1.199 up	1.228 up	1.024 down
PD0902	ferredoxin-NADP reductase	1.081 down	1.093 up	1.087 down	1.010 up	1.176 down	1.188 up
PD0903	thiamine biosynthesis protein ThiC	1.034 up	1.203 down	1.334 down	1.163 down	1.289 down	1.108 up
PD0904	hypothetical protein	1.044 up	1.025 down	1.074 down	1.018 up	1.029 down	1.047 up
PD0905	phosphoglycerate mutase	1.042 up	1.063 down	1.010 down	1.019 down	1.032 up	1.052 down
PD0906	hypothetical protein	1.091 down	1.584 up	1.224 down	1.451 up	1.335 down	1.939 up
PD0907	hypothetical protein	1.185 up	1.100 up	1.196 down	1.305 up	1.009 down	1.317 up
PD0908	hypothetical protein	1.010 up	1.127 down	1.027 down	1.115 down	1.016 down	1.097 down
PD0909	hypothetical protein	1.163 up	1.104 up	1.003 up	1.285 up	1.167 up	1.101 up
PD0910	hypothetical protein	1.149 down	2.906 up	1.610 up	2.528 up	1.401 up	1.804 up
PD0911	hypothetical protein	1.278 up	1.092 up	1.052 up	1.395 up	1.345 up	1.037 up
PD0912	hypothetical protein	1.566 up	1.358 up	1.139 up	2.127 up	1.783 up	1.192 up
PD0913	hypothetical protein	1.199 up	1.300 up	1.093 down	1.559 up	1.096 up	1.421 up
PD0914	hypothetical protein	1.249 up	1.162 up	1.102 down	1.452 up	1.133 up	1.281 up
PD0915	hypothetical protein	1.010 up	1.211 up	1.085 down	1.223 up	1.075 down	1.315 up
PD0916	hypothetical protein	1.730 down	1.616 up	1.652 down	1.070 down	2.861 down	2.672 up
PD0917	hypothetical protein	1.045 up	1.030 up	1.311 down	1.076 up	1.255 down	1.351 up
PD0918	hypothetical protein	1.103 up	1.251 down	1.162 up	1.134 down	1.282 up	1.454 down
PD0919	hypothetical protein	1.927 up	2.360 down	1.125 down	1.224 down	1.713 up	2.097 down

PD0920	hypothetical protein	1.272 up	2.269 down	1.211 down	1.783 down	1.050 up	1.873 down
PD0921	hypothetical protein	1.426 up	1.946 down	1.586 down	1.364 down	1.112 down	1.226 down
PD0922	hypothetical protein	1.109 up	1.066 up	1.142 up	1.183 up	1.267 up	1.071 down
PD0923	hypothetical protein	1.018 down	2.164 up	1.151 up	2.125 up	1.130 up	1.879 up
PD0924	hypothetical protein	1.109 up	1.044 down	1.117 up	1.062 up	1.239 up	1.166 down
PD0925	hypothetical protein	1.501 up	1.352 up	1.058 up	2.029 up	1.588 up	1.277 up
PD0926	hypothetical protein	1.168 up	1.624 up	1.125 up	1.897 up	1.315 up	1.443 up
PD0927	hypothetical protein	1.260 up	1.110 up	1.002 up	1.399 up	1.263 up	1.107 up
PD0928	hypothetical protein	1.200 up	1.240 up	1.290 down	1.488 up	1.074 down	1.600 up
PD0929	hypothetical protein	2.088 down	1.782 up	1.011 down	1.171 down	2.112 down	1.802 up
PD0930	hypothetical protein	1.057 down	1.365 up	1.166 down	1.291 up	1.232 down	1.591 up
PD0931	hypothetical protein	1.008 down	1.396 up	1.027 up	1.384 up	1.019 up	1.358 up
PD0932	hypothetical protein	1.085 down	1.078 up	1.111 down	1.006 down	1.206 down	1.197 up
PD0933	hypothetical protein	1.214 up	1.226 down	1.092 up	1.010 down	1.325 up	1.339 down
PD0934	hypothetical protein	1.015 down	1.185 up	1.147 up	1.167 up	1.129 up	1.032 up
PD0935	hypothetical protein	1.213 up	1.224 down	1.301 down	1.008 down	1.072 down	1.063 up
PD0936	hypothetical protein	1.032 down	1.157 up	1.193 up	1.120 up	1.155 up	1.031 down
PD0937	hypothetical protein	1.170 up	1.115 up	1.046 up	1.306 up	1.225 up	1.065 up
PD0938	hypothetical protein	1.157 up	1.153 up	1.051 up	1.334 up	1.217 up	1.096 up
PD0939	hypothetical protein	1.062 down	1.943 up	1.017 up	1.828 up	1.044 down	1.909 up

PD0940	hypothetical protein	1.045 up	1.029 up	1.001 up	1.076 up	1.046 up	1.027 up
PD0941	hypothetical protein	1.001 up	1.149 down	1.033 down	1.147 down	1.031 down	1.112 down
PD0942	hypothetical protein	1.101 up	1.090 down	1.032 down	1.010 up	1.066 up	1.055 down
PD0943	hypothetical protein	1.402 up	1.297 up	1.117 up	1.819 up	1.567 up	1.160 up
PD0945	transcriptional regulator	1.148 up	1.109 down	1.116 down	1.034 up	1.028 up	1.005 up
PD0946	aspartyl-tRNA synthetase	1.035 down	1.523 down	1.306 down	1.577 down	1.352 down	1.165 down
PD0947	fumarate hydratase	1.087 up	1.108 down	1.232 up	1.019 down	1.340 up	1.366 down
PD0948	carboxyl-terminal protease	1.593 up	1.512 down	1.254 down	1.053 up	1.270 up	1.205 down
PD0949	carboxyl-terminal protease	1.244 up	1.146 down	1.151 down	1.085 up	1.080 up	1.004 up
PD0950	serine protease	1.067 down	none	1.154 up	1.067 down	1.081 up	1.155 down
PD0952	conjugal transfer protein	1.172 up	1.765 up	1.028 up	2.070 up	1.205 up	1.716 up
PD0954	hypothetical protein	1.051 up	1.062 down	1.077 up	1.010 down	1.132 up	1.144 down
PD0955	hypothetical protein	1.137 up	1.165 down	1.077 down	1.025 down	1.056 up	1.082 down
PD0956	hypothetical protein	1.060 up	1.177 down	1.014 up	1.110 down	1.075 up	1.194 down
PD0957	phage-related tail fiber protein	1.028 up	1.050 up	1.032 down	1.080 up	1.003 down	1.084 up
PD0958	hypothetical protein	1.054 down	1.029 up	1.001 down	1.024 down	1.056 down	1.030 up
PD0959	hypothetical protein	1.061 up	1.112 up	1.025 down	1.181 up	1.035 up	1.140 up
PD0960	plasmid stabilization protein	1.274 up	1.260 down	1.272 down	1.011 up	1.001 up	1.009 up
PD0961	plasmid stabilization protein	1.026 up	1.133 up	1.063 down	1.162 up	1.036 down	1.205 up
PD0962	hypothetical protein	1.159 up	1.033 down	1.110 down	1.121 up	1.043 up	1.074 up

PD0963	hypothetical protein	1.119 up	1.055 down	1.023 down	1.060 up	1.094 up	1.031 down
PD0964	hypothetical protein	1.013 down	1.100 up	1.105 up	1.086 up	1.090 up	1.003 down
PD0965	hypothetical protein	1.086 down	1.308 up	1.035 down	1.203 up	1.124 down	1.354 up
PD0966	hypothetical protein	1.195 down	1.427 up	1.313 up	1.194 up	1.099 up	1.086 up
PD0967	hypothetical protein	1.076 up	1.162 down	1.204 down	1.079 down	1.119 down	1.036 up
PD0968	hypothetical protein	1.055 down	1.108 down	1.001 down	1.170 down	1.056 down	1.107 down
PD0969	hypothetical protein	1.132 up	1.029 down	1.080 down	1.099 up	1.048 up	1.049 up
PD0970	hypothetical protein	1.075 up	1.089 up	1.011 up	1.172 up	1.088 up	1.077 up
PD0971	hypothetical protein	1.140 up	1.034 up	1.018 down	1.179 up	1.119 up	1.053 up
PD0972	hypothetical protein	1.155 up	1.212 down	1.315 down	1.049 down	1.138 down	1.085 up
PD0973	hypothetical protein	1.115 up	1.550 down	1.284 down	1.390 down	1.150 down	1.207 down
PD0974	hypothetical protein	1.114 down	1.568 down	1.090 down	1.749 down	1.215 down	1.438 down
PD0975	hypothetical protein	1.068 up	1.179 up	1.076 up	1.260 up	1.151 up	1.095 up
PD0976	hypothetical protein	1.074 up	1.447 down	1.396 down	1.348 down	1.299 down	1.037 down
PD0977	hypothetical protein	1.055 up	1.224 down	1.200 down	1.159 down	1.137 down	1.019 down
PD0978	hypothetical protein	1.047 down	1.059 up	1.133 up	1.011 up	1.082 up	1.070 down
PD0979	hypothetical protein	1.014 up	1.327 down	1.149 down	1.308 down	1.133 down	1.154 down
PD0980	hypothetical protein	1.109 up	1.031 down	1.187 down	1.075 up	1.070 down	1.151 up
PD0981	plasmid-related protein	1.263 up	1.358 down	1.200 down	1.075 down	1.052 up	1.131 down
PD0982	hypothetical protein	1.112 down	1.107 up	1.065 up	1.004 down	1.044 down	1.039 up

PD0983	hypothetical protein	1.276 down	1.101 down	1.029 up	1.406 down	1.239 down	1.134 down
PD0984	hypothetical protein	1.094 down	1.213 up	1.054 up	1.109 up	1.037 down	1.150 up
PD0985	hypothetical protein	1.042 down	1.057 up	1.120 up	1.014 up	1.074 up	1.059 down
PD0986	hemagglutinin-like secreted protein	1.137 up	1.470 up	1.353 up	1.671 up	1.538 up	1.086 up
PD0987	hypothetical protein	1.552 up	1.134 up	1.236 up	1.761 up	1.919 up	1.089 down
PD0989	hypothetical protein	1.101 down	1.043 up	1.169 up	1.055 down	1.062 up	1.120 down
PD0990	phage-related integrase	1.046 up	1.167 down	1.128 down	1.115 down	1.078 down	1.034 down
PD0991	hypothetical protein	1.290 up	1.027 down	1.104 down	1.255 up	1.168 up	1.075 up
PD0992	hypothetical protein	1.138 up	1.138 up	1.085 down	1.296 up	1.049 up	1.235 up
PD0993	hypothetical protein	1.028 up	1.008 down	1.142 up	1.019 up	1.175 up	1.153 down
PD0994	hypothetical protein	1.006 up	1.611 up	1.095 down	1.622 up	1.087 down	1.764 up
PD0995	hypothetical protein	1.140 up	1.136 down	1.630 down	1.003 up	1.430 down	1.435 up
PD0996	phage-related lysozyme	1.006 down	1.064 down	1.044 down	1.070 down	1.050 down	1.019 down
PD0997	hypothetical protein	1.165 down	1.124 down	1.067 up	1.310 down	1.092 down	1.199 down
PD0998	hypothetical protein	1.191 down	1.411 up	1.705 up	1.185 up	1.431 up	1.207 down
PD0999	hypothetical protein	1.155 up	1.150 up	1.092 down	1.329 up	1.058 up	1.256 up
PD1000	hypothetical protein	1.102 up	1.095 down	1.304 up	1.006 up	1.438 up	1.429 down
PD1001	hypothetical protein	1.159 up	1.055 up	1.077 down	1.223 up	1.076 up	1.136 up
PD1002	hypothetical protein	1.046 down	1.215 up	1.304 up	1.161 up	1.246 up	1.073 down
PD1003	hypothetical protein	1.350 up	1.155 up	1.001 up	1.560 up	1.352 up	1.153 up

PD1004	hypothetical protein	1.045 up	1.011 up	1.138 up	1.057 up	1.189 up	1.125 down
PD1005	phage-related repressor protein	1.115 down	1.026 up	1.076 down	1.087 down	1.200 down	1.104 up
PD1006	cell filamentation protein	1.143 up	1.020 down	1.115 down	1.120 up	1.025 up	1.092 up
PD1007	hypothetical protein	1.032 down	1.171 up	1.113 up	1.134 up	1.078 up	1.051 up
PD1008	hypothetical protein	1.189 up	1.051 down	1.007 up	1.131 up	1.198 up	1.058 down
PD1009	hypothetical protein	1.305 up	1.128 down	1.196 down	1.156 up	1.090 up	1.060 up
PD1010	hypothetical protein	1.245 up	1.051 up	1.053 up	1.310 up	1.312 up	1.001 down
PD1011	hypothetical protein	1.076 up	1.053 down	1.183 down	1.021 up	1.100 down	1.123 up
PD1012	hypothetical protein	1.005 down	1.344 down	1.244 down	1.352 down	1.251 down	1.080 down
PD1013	hypothetical protein	1.044 down	1.016 up	1.047 down	1.027 down	1.093 down	1.064 up
PD1014	hypothetical protein	1.278 up	1.008 up	1.164 down	1.289 up	1.098 up	1.174 up
PD1015	UDP-3-O-(R-3-hydroxymyristoyl)-glucosamine N-acyltransferase	1.049 up	1.052 up	1.182 down	1.104 up	1.127 down	1.245 up
PD1016	hypothetical protein	1.022 down	1.347 down	1.167 down	1.377 down	1.193 down	1.154 down
PD1017	single-strand DNA-binding protein	1.078 up	1.688 up	1.038 up	1.821 up	1.120 up	1.625 up
PD1018	hypothetical protein	1.261 down	1.171 up	1.237 up	1.077 down	1.019 down	1.056 down
PD1019	phage-related integrase	1.041 up	1.368 up	1.086 down	1.425 up	1.043 down	1.486 up
PD1020	two-component system, sensor protein	1.063 down	1.052 up	1.103 up	1.009 down	1.037 up	1.048 down
PD1021	two-component system, regulatory protein	1.090 up	1.006 up	1.082 down	1.097 up	1.006 up	1.089 up
PD1023	truncated conjugal transfer protein	1.066 up	1.315 up	1.059 down	1.402 up	1.006 up	1.393 up
PD1024	ammonium transporter	1.199 up	1.149 down	1.026 down	1.043 up	1.167 up	1.119 down

PD1025	nitrogen regulatory protein P-II	1.015 down	1.180 up	1.148 up	1.162 up	1.131 up	1.027 up
PD1026	glutamine synthetase	1.011 down	1.250 up	1.129 up	1.236 up	1.116 up	1.107 up
PD1027	undecaprenyl pyrophosphate phosphatase	1.094 up	1.017 down	1.137 down	1.076 up	1.038 down	1.117 up
PD1028	hypothetical protein	1.101 up	1.005 down	1.069 up	1.094 up	1.177 up	1.075 down
PD1029	hypothetical protein	1.015 down	1.240 down	1.238 down	1.259 down	1.256 down	1.001 down
PD1030	hypothetical protein	1.622 down	1.372 up	1.402 up	1.181 down	1.156 down	1.022 down
PD1031	hypothetical protein	1.220 up	1.104 up	1.058 up	1.348 up	1.292 up	1.043 up
PD1032	hypothetical protein	1.162 up	1.230 up	1.192 down	1.430 up	1.026 down	1.468 up
PD1033	disulphide isomerase	1.110 up	1.036 up	1.131 up	1.150 up	1.256 up	1.091 down
PD1034	putative ubiquinone biosynthesis protein UbiB	1.033 up	1.058 down	1.203 down	1.024 down	1.164 down	1.136 up
PD1035	hypothetical protein	1.062 up	1.036 down	1.162 up	1.025 up	1.234 up	1.203 down
PD1036	formyltetrahydrofolate deformylase	1.127 down	1.044 down	1.080 down	1.177 down	1.218 down	1.034 up
PD1037	hypothetical protein	1.107 up	1.018 up	1.071 down	1.127 up	1.033 up	1.090 up
PD1038	hypothetical protein	1.117 up	1.072 down	1.116 down	1.042 up	1.001 up	1.040 up
PD1039	ATPase	1.029 up	1.050 down	1.265 up	1.020 down	1.302 up	1.329 down
PD1040	organic hydroperoxide resistance protein	1.068 up	1.431 down	1.529 down	1.339 down	1.431 down	1.068 up
PD1041	Nucleoside-diphosphate-sugar epimerase	1.132 down	1.017 down	1.126 up	1.152 down	1.005 down	1.146 down
PD1042	tail-specific protease	1.173 down	1.187 up	1.009 down	1.011 up	1.184 down	1.197 up
PD1043	ketol-acid reductoisomerase	1.016 up	1.171 down	1.195 down	1.152 down	1.176 down	1.020 up
PD1044	acetolactate synthase II large subunit	1.343 up	1.182 down	1.084 down	1.136 up	1.238 up	1.090 down

PD1045	acetolactate synthase isozyme II small sbunit	1.041 up	1.171 down	1.111 down	1.124 down	1.067 down	1.053 down
PD1046	threonine dehydratase	1.002 up	1.049 down	1.086 down	1.047 down	1.083 down	1.034 up
PD1047	2-isopropylmalate synthase	1.029 up	1.246 down	1.270 up	1.210 down	1.307 up	1.583 down
PD1048	3-oxoacyl-(acyl carrier protein) synthase	1.122 up	1.026 up	1.051 down	1.151 up	1.067 up	1.079 up
PD1049	50S ribosomal protein L32	1.205 up	1.145 up	1.015 up	1.381 up	1.223 up	1.128 up
PD1050	hypothetical protein	1.220 down	1.511 up	1.342 up	1.238 up	1.099 up	1.126 up
PD1051	hypothetical protein	1.364 up	1.240 down	1.066 down	1.100 up	1.278 up	1.162 down
PD1052	methanol dehydrogenase regulatory protein	1.222 down	1.344 down	1.185 down	1.643 down	1.449 down	1.134 down
PD1053	hypothetical protein	1.140 up	1.134 down	1.114 down	1.005 up	1.023 up	1.017 down
PD1054	hypothetical protein	1.021 up	1.147 down	1.191 down	1.123 down	1.166 down	1.038 up
PD1055	outer membrane protein Slp precursor	1.305 down	1.351 up	1.452 up	1.035 up	1.113 up	1.075 down
PD1056	histidine triad-like protein	1.112 down	1.028 up	1.134 up	1.081 down	1.020 up	1.103 down
PD1057	recombination protein RecR	1.167 up	1.136 up	1.224 down	1.326 up	1.048 down	1.391 up
PD1058	hypothetical protein	1.074 up	1.026 down	1.177 down	1.046 up	1.096 down	1.147 up
PD1059	DNA polymerase III subunits gamma and tau	1.024 up	1.225 up	1.202 up	1.255 up	1.231 up	1.019 up
PD1061	DNA-damage-inducible protein D	1.236 down	1.197 up	1.081 up	1.032 down	1.143 down	1.107 up
PD1063	hypothetical protein	1.292 up	1.234 down	1.397 down	1.047 up	1.081 down	1.132 up
PD1064	NAD(P)H-dependent glycerol-3-phosphate dehydrogenase	1.180 up	1.003 down	1.047 down	1.176 up	1.127 up	1.043 up
PD1065	export protein SecB	1.248 up	1.109 down	1.112 down	1.125 up	1.121 up	1.003 up
PD1066	hypothetical protein	1.053 up	1.003 down	1.101 down	1.049 up	1.045 down	1.097 up

PD1067	hypothetical protein	1.149 up	1.020 up	1.005 up	1.172 up	1.155 up	1.015 up
PD1068	uroporphyrinogen-III synthetase	1.154 down	1.214 down	1.056 up	1.402 down	1.092 down	1.283 down
PD1069	hypothetical protein	1.000 up	1.200 up	1.140 down	1.201 up	1.139 down	1.369 up
PD1070	porphyrin biosynthesis protein	1.123 up	1.194 down	1.450 down	1.062 down	1.291 down	1.214 up
PD1071	biotin--protein ligase	1.148 up	1.021 down	1.071 up	1.124 up	1.230 up	1.094 down
PD1072	transcriptional regulator	1.039 down	1.063 up	1.040 up	1.023 up	1.001 up	1.022 up
PD1073	hypothetical protein	1.121 up	1.171 up	1.144 up	1.313 up	1.283 up	1.023 up
PD1075	phage-related integrase	1.105 up	1.117 up	1.036 up	1.235 up	1.146 up	1.077 up
PD1076	hypothetical protein	1.082 up	1.090 down	1.015 down	1.006 down	1.066 up	1.073 down
PD1077	fimbrillin	1.043 down	1.047 down	1.066 up	1.093 down	1.021 up	1.117 down
PD1078	hypothetical protein	1.027 up	1.116 down	1.012 up	1.086 down	1.040 up	1.130 down
PD1080	hypothetical protein	1.062 down	1.225 up	1.080 up	1.153 up	1.016 up	1.133 up
PD1081	DNA mismatch repair protein	1.033 up	1.360 down	1.039 down	1.316 down	1.005 down	1.308 down
PD1082	monofunctional biosynthetic peptidoglycan transglycosylase	1.011 up	1.050 up	1.143 up	1.062 up	1.156 up	1.088 down
PD1083	heat shock protein HSP33	1.248 down	1.053 up	1.026 up	1.185 down	1.216 down	1.026 up
PD1084	hypothetical protein	1.053 up	1.575 down	1.003 down	1.495 down	1.049 up	1.569 down
PD1086	hypothetical protein	1.213 up	1.055 down	1.159 up	1.149 up	1.407 up	1.224 down
PD1087	hypothetical protein	1.046 up	1.153 up	1.074 up	1.207 up	1.124 up	1.073 up
PD1088	phage-related tail protein	1.008 up	1.082 up	1.045 down	1.091 up	1.036 down	1.131 up
PD1089	phage-related tail protein	1.068 down	1.162 up	1.035 down	1.087 up	1.106 down	1.203 up

PD1090	phage-related tail protein	1.198 down	1.412 up	1.264 up	1.177 up	1.054 up	1.117 up
PD1091	hypothetical protein	1.071 down	1.256 up	1.077 down	1.172 up	1.154 down	1.353 up
PD1092	hypothetical protein	1.044 down	1.242 up	1.059 up	1.189 up	1.014 up	1.172 up
PD1093	hypothetical protein	1.118 down	1.576 up	1.060 up	1.408 up	1.055 down	1.486 up
PD1094	phage-related contractile tail sheath protein	1.011 up	1.391 up	1.214 up	1.407 up	1.228 up	1.145 up
PD1095	hypothetical protein	1.048 up	1.430 up	1.003 up	1.500 up	1.052 up	1.425 up
PD1096	phage-related tail protein	1.087 down	1.090 up	1.026 down	1.003 up	1.116 down	1.119 up
PD1097	phage-related baseplate assembly protein	1.114 down	1.757 up	1.104 down	1.576 up	1.230 down	1.939 up
PD1098	phage-related baseplate assembly protein	1.028 down	1.237 up	1.083 up	1.203 up	1.053 up	1.142 up
PD1099	DNA-damage-inducible protein	1.114 down	1.075 up	1.009 down	1.036 down	1.125 down	1.085 up
PD1100	hypothetical protein	1.264 down	1.346 up	1.200 up	1.065 up	1.053 down	1.121 up
PD1101	phage-related baseplate assembly protein	1.147 down	1.457 up	1.166 up	1.269 up	1.016 up	1.248 up
PD1102	hypothetical protein	1.161 down	1.282 up	1.005 down	1.104 up	1.167 down	1.290 up
PD1103	hypothetical protein	1.089 down	1.170 up	1.016 up	1.074 up	1.072 down	1.152 up
PD1104	hypothetical protein	1.032 up	1.311 up	1.157 up	1.353 up	1.195 up	1.132 up
PD1105	hypothetical protein	1.047 down	1.225 up	1.103 down	1.169 up	1.155 down	1.351 up
PD1106	hypothetical protein	1.005 up	1.448 up	1.267 up	1.455 up	1.273 up	1.142 up
PD1107	phage-related portal protein	1.034 down	1.382 up	1.085 down	1.336 up	1.122 down	1.500 up
PD1108	hypothetical protein	1.204 down	1.418 up	1.180 up	1.177 up	1.019 down	1.201 up
PD1109	phage-related terminase large subunit	1.036 up	1.030 down	1.302 down	1.006 up	1.256 down	1.263 up

PD1110	phage-related packaging protein	1.007 down	1.911 up	1.015 up	1.896 up	1.007 up	1.881 up
PD1111	hypothetical protein	1.003 up	1.954 up	1.246 up	1.961 up	1.250 up	1.567 up
PD1112	hypothetical protein	1.101 up	1.197 up	1.174 up	1.319 up	1.294 up	1.019 up
PD1113	phage-related lysozyme	1.032 down	1.573 up	1.260 up	1.523 up	1.220 up	1.248 up
PD1114	hypothetical protein	1.075 up	2.072 up	1.368 up	2.229 up	1.472 up	1.514 up
PD1115	hypothetical protein	1.021 up	1.108 up	1.021 up	1.132 up	1.043 up	1.085 up
PD1116	hypothetical protein	1.143 up	1.018 up	1.211 down	1.164 up	1.059 down	1.234 up
PD1117	hypothetical protein	1.134 down	1.198 up	1.197 up	1.056 up	1.055 up	1.001 up
PD1118	hypothetical protein	1.232 up	1.005 down	1.264 up	1.225 up	1.558 up	1.271 down
PD1119	hypothetical protein	1.458 down	2.182 up	1.651 up	1.496 up	1.131 up	1.321 up
PD1120	hypothetical protein	1.022 down	1.283 up	1.041 up	1.255 up	1.018 up	1.232 up
PD1121	hypothetical protein	1.003 down	2.228 down	1.267 down	2.236 down	1.272 down	1.757 down
PD1122	hypothetical protein	1.190 up	1.071 up	1.270 down	1.276 up	1.066 down	1.361 up
PD1123	hypothetical protein	1.117 up	1.120 up	1.030 up	1.252 up	1.151 up	1.087 up
PD1124	hypothetical protein	1.195 up	1.146 up	1.033 up	1.371 up	1.236 up	1.109 up
PD1125	hypothetical protein	1.024 up	1.007 down	1.203 down	1.016 up	1.174 down	1.193 up
PD1126	hypothetical protein	1.019 up	1.300 up	1.116 up	1.325 up	1.138 up	1.164 up
PD1127	hypothetical protein	1.158 up	1.101 down	1.274 down	1.052 up	1.100 down	1.157 up
PD1128	hypothetical protein	1.059 down	1.301 down	1.465 down	1.379 down	1.552 down	1.125 up
PD1129	hypothetical protein	1.030 up	1.357 up	1.215 up	1.398 up	1.252 up	1.116 up

PD1130	hypothetical protein	1.384 up	1.302 down	1.823 down	1.063 up	1.316 down	1.399 up
PD1131	hypothetical protein	1.013 up	1.204 up	1.011 down	1.220 up	1.002 up	1.217 up
PD1132	hypothetical protein	1.054 up	1.576 up	1.000 up	1.662 up	1.055 up	1.575 up
PD1133	hypothetical protein	1.031 up	1.163 up	1.087 up	1.199 up	1.121 up	1.069 up
PD1134	phage-related DNA polymerase	1.023 up	1.539 up	1.010 up	1.576 up	1.034 up	1.523 up
PD1135	hypothetical protein	1.095 up	1.442 up	1.087 up	1.580 up	1.191 up	1.326 up
PD1136	hypothetical protein	1.237 up	1.105 down	1.006 down	1.120 up	1.229 up	1.097 down
PD1137	hypothetical protein	1.124 up	1.527 up	1.188 up	1.716 up	1.335 up	1.284 up
PD1138	hypothetical protein	1.148 down	1.230 up	1.042 down	1.071 up	1.197 down	1.282 up
PD1139	phage-related integrase	1.193 up	2.131 up	1.218 up	2.543 up	1.453 up	1.749 up
PD1140	hypothetical protein	1.103 up	1.046 down	1.359 down	1.054 up	1.232 down	1.299 up
PD1141	ankyrin-like protein	1.087 down	1.043 down	1.095 up	1.134 down	1.007 up	1.143 down
PD1142	3-oxoacyl-(acyl carrier protein) synthase	1.262 down	1.005 down	1.089 up	1.269 down	1.158 down	1.095 down
PD1143	hypothetical protein	1.070 down	1.201 down	1.128 down	1.286 down	1.208 down	1.064 down
PD1144	dolichyl-phosphate mannose synthase related protein	1.244 up	1.353 down	1.300 down	1.087 down	1.045 down	1.040 down
PD1145	hypothetical protein	1.163 up	1.383 down	1.339 down	1.188 down	1.150 down	1.033 down
PD1146	glycosyl transferase	1.213 down	1.226 up	1.172 up	1.010 up	1.035 down	1.046 up
PD1147	twitching motility protein	1.002 up	1.213 down	1.249 down	1.210 down	1.246 down	1.029 up
PD1148	twitching motility protein	1.095 down	1.200 down	1.084 up	1.314 down	1.009 down	1.301 down
PD1149	transcriptional regulator	1.005 down	1.072 down	1.175 up	1.078 down	1.168 up	1.260 down

PD1150	hypothetical protein	1.203 down	1.001 down	1.046 down	1.205 down	1.259 down	1.045 up
PD1151	hypothetical protein	1.012 down	1.021 up	1.128 down	1.009 up	1.142 down	1.152 up
PD1152	porphobilinogen deaminase	1.220 up	1.298 down	1.407 down	1.063 down	1.152 down	1.084 up
PD1153	two-component system, regulatory protein	1.041 up	1.183 down	1.184 down	1.136 down	1.137 down	1.001 up
PD1154	two-component system, sensor protein	1.048 up	1.270 down	1.380 down	1.211 down	1.315 down	1.085 up
PD1155	carboxylesterase	1.004 up	1.020 up	1.235 down	1.025 up	1.230 down	1.260 up
PD1156	glucosyltransferase MdoH	1.125 down	1.106 down	1.177 down	1.244 down	1.325 down	1.064 up
PD1157	beta-lactamase-like protein	1.285 down	1.040 up	1.046 down	1.235 down	1.345 down	1.088 up
PD1158	hypothetical protein	1.039 up	1.464 down	1.132 down	1.408 down	1.088 down	1.293 down
PD1159	transcriptional regulator	1.311 down	1.592 down	1.265 down	2.088 down	1.659 down	1.258 down
PD1162	hypothetical protein	1.188 up	1.124 down	1.240 down	1.057 up	1.043 down	1.103 up
PD1163	fructokinase	1.065 up	1.004 up	1.061 up	1.070 up	1.130 up	1.056 down
PD1164	glucose/galactose transporter	1.166 up	1.087 up	1.151 up	1.268 up	1.343 up	1.058 down
PD1165	nucleoprotein/polynucleotide-associated enzyme	1.167 up	1.025 down	1.182 down	1.138 up	1.012 down	1.153 up
PD1166	hypothetical protein	1.249 up	1.057 up	1.085 down	1.320 up	1.151 up	1.147 up
PD1167	UDP-glucose dehydrogenase	1.189 down	1.137 down	1.067 up	1.353 down	1.114 down	1.213 down
PD1168	macrophage infectivity potentiator	1.023 down	1.125 up	1.117 up	1.099 up	1.091 up	1.007 up
PD1169	glutathione peroxidase/vitamin B12 uptake permease	1.040 down	1.248 up	1.273 up	1.200 up	1.223 up	1.019 down
PD1170	ABC transporter ATP-binding protein	1.004 down	1.174 down	1.172 down	1.179 down	1.177 down	1.002 down
PD1171	hypothetical protein	1.069 down	1.037 up	1.158 up	1.030 down	1.083 up	1.117 down

PD1172	hypothetical protein	1.281 up	1.215 down	1.164 down	1.054 up	1.101 up	1.044 down
PD1173	phage-related tail fiber protein	1.017 down	1.072 down	1.003 down	1.091 down	1.021 down	1.068 down
PD1174	hypothetical protein	1.055 down	1.317 up	1.070 up	1.248 up	1.014 up	1.230 up
PD1175	hypothetical protein	1.253 up	1.028 down	1.208 down	1.219 up	1.037 up	1.175 up
PD1176	hypothetical protein	1.094 up	1.076 down	1.146 up	1.016 up	1.255 up	1.235 down
PD1177	hypothetical protein	1.107 up	1.099 down	1.082 up	1.007 up	1.198 up	1.190 down
PD1178	hypothetical protein	1.372 up	1.110 down	1.181 down	1.235 up	1.161 up	1.063 up
PD1179	hypothetical protein	1.076 up	1.140 up	1.017 up	1.227 up	1.094 up	1.121 up
PD1180	hypothetical protein	1.039 up	1.007 up	1.191 down	1.047 up	1.146 down	1.200 up
PD1181	hypothetical protein	1.200 down	1.415 up	1.214 up	1.179 up	1.011 up	1.165 up
PD1182	hypothetical protein	1.079 up	1.476 up	1.123 down	1.593 up	1.040 down	1.659 up
PD1183	anti-toxin protein	1.219 up	1.020 up	1.171 up	1.243 up	1.429 up	1.148 down
PD1184	toxin-like protein	1.112 up	1.417 down	1.205 down	1.274 down	1.084 down	1.175 down
PD1185	hypothetical protein	1.219 up	1.027 up	1.049 down	1.252 up	1.161 up	1.078 up
PD1186	hypothetical protein	1.025 down	1.200 down	1.135 up	1.231 down	1.107 up	1.362 down
PD1187	hypothetical protein	1.109 up	1.026 down	1.011 down	1.080 up	1.096 up	1.014 down
PD1188	truncated phage-related protein	1.111 up	1.063 up	1.145 up	1.181 up	1.272 up	1.077 down
PD1190	truncated phage-related DNA polymerase	1.139 down	1.088 down	1.027 down	1.239 down	1.170 down	1.059 down
PD1192	hypothetical protein	1.019 up	1.248 up	1.195 down	1.272 up	1.172 down	1.491 up
PD1193	hypothetical protein	1.052 down	1.302 down	1.015 down	1.370 down	1.068 down	1.283 down

PD1194	hypothetical protein	1.019 up	1.661 up	1.237 up	1.694 up	1.261 up	1.343 up
PD1195	hypothetical protein	1.289 down	1.375 up	1.326 up	1.066 up	1.028 up	1.037 up
PD1196	phage-related integrase	1.088 down	1.583 up	1.101 up	1.454 up	1.012 up	1.436 up
PD1197	ABC transporter ATP-binding protein	1.021 down	1.029 up	1.061 down	1.007 up	1.084 down	1.092 up
PD1198	ferric enterobactin receptor	1.084 down	1.072 up	1.020 up	1.010 down	1.061 down	1.050 up
PD1199	polyketide synthase	1.152 down	1.125 down	1.116 down	1.296 down	1.286 down	1.008 down
PD1200	ferric enterobactin receptor	1.033 up	1.073 down	1.125 up	1.038 down	1.163 up	1.208 down
PD1201	cation:proton antiporter	1.267 up	1.058 up	1.056 down	1.342 up	1.199 up	1.118 up
PD1202	ABC transporter phosphate binding protein	1.118 down	1.181 up	1.014 down	1.056 up	1.134 down	1.198 up
PD1203	ABC transporter phosphate permease	1.223 up	1.502 down	1.126 down	1.228 down	1.085 up	1.333 down
PD1204	ABC transporter phosphate permease	1.036 up	1.300 down	1.129 down	1.254 down	1.089 down	1.151 down
PD1205	phosphate ABC transporter ATP-binding protein	1.087 down	1.061 down	1.120 up	1.154 down	1.029 up	1.188 down
PD1206	phosphate regulon transcriptional regulator	1.230 down	1.008 up	1.038 up	1.220 down	1.185 down	1.029 down
PD1207	ribonuclease T	1.032 down	1.144 down	1.051 up	1.182 down	1.017 up	1.203 down
PD1208	dimethyladenosine transferase	1.061 down	1.400 down	1.310 down	1.486 down	1.390 down	1.068 down
PD1209	hypothetical protein	1.174 down	1.322 down	1.318 down	1.554 down	1.549 down	1.003 down
PD1210	diadenosinetetraphosphatase	1.057 down	1.036 up	1.010 down	1.020 down	1.069 down	1.047 up
PD1211	hypothetical protein	1.199 down	1.331 down	1.085 down	1.596 down	1.302 down	1.226 down
PD1212	saccharide biosynthesis regulatory protein	1.022 up	1.131 down	1.013 up	1.107 down	1.035 up	1.146 down
PD1213	3-deoxy-D-manno-octulosonic-acid kinase	1.261 up	1.012 down	1.092 down	1.245 up	1.154 up	1.078 up

PD1214	hypothetical protein	1.038 down	1.335 up	1.074 up	1.286 up	1.035 up	1.242 up
PD1216	protein phosphatase	1.205 down	1.013 down	1.355 down	1.221 down	1.634 down	1.337 up
PD1217	DNA polymerase III subunit epsilon	1.084 up	1.033 down	1.358 down	1.049 up	1.252 down	1.314 up
PD1218	ribonuclease H	1.182 down	1.152 up	1.099 up	1.026 down	1.074 down	1.047 up
PD1219	hypothetical protein	1.070 down	2.240 down	1.280 down	2.398 down	1.371 down	1.749 down
PD1220	hydroxyacylglutathione hydrolase	1.113 down	1.240 down	1.243 down	1.381 down	1.385 down	1.002 up
PD1221	plasmid protein	1.238 down	1.231 up	1.193 up	1.006 down	1.037 down	1.031 up
PD1222	hypothetical protein	1.223 down	1.007 down	1.059 up	1.232 down	1.154 down	1.067 down
PD1223	transcription-related protein	1.042 up	1.404 down	1.157 down	1.347 down	1.110 down	1.212 down
PD1224	hypothetical protein	1.009 up	1.014 up	1.064 down	1.023 up	1.054 down	1.079 up
PD1225	hypothetical protein	1.130 down	1.185 down	1.268 down	1.340 down	1.434 down	1.069 up
PD1226	inorganic pyrophosphatase	1.099 down	1.096 down	1.153 down	1.205 down	1.267 down	1.052 up
PD1227	hypothetical protein	1.171 down	1.644 down	2.018 down	1.926 down	2.365 down	1.227 up
PD1228	hypothetical protein	1.001 up	1.208 down	1.077 up	1.206 down	1.079 up	1.302 down
PD1229	Thioredoxin domain-containing protein	1.040 down	1.166 up	1.146 up	1.121 up	1.102 up	1.016 up
PD1230	leucyl-tRNA synthetase	1.153 down	1.153 up	1.021 down	none	1.178 down	1.178 up
PD1231	rare lipoprotein B precursor	1.035 up	1.202 down	1.132 down	1.161 down	1.093 down	1.061 down
PD1232	DNA polymerase III subunit delta	1.059 up	1.570 down	1.888 down	1.482 down	1.783 down	1.202 up
PD1233	nicotinic acid mononucleotide adenylyltransferase	1.300 down	1.025 up	1.329 down	1.267 down	1.728 down	1.364 up
PD1234	hypothetical protein	1.228 down	1.172 down	1.265 down	1.440 down	1.555 down	1.079 up

PD1235	membrane-bound lytic transglycosylase	1.215 down	1.110 down	1.019 up	1.349 down	1.191 down	1.131 down
PD1236	rare lipoprotein A	1.154 down	1.051 down	1.105 up	1.214 down	1.044 down	1.162 down
PD1237	hypothetical protein	1.027 down	1.253 down	1.237 down	1.287 down	1.270 down	1.012 down
PD1238	hypothetical protein	1.244 up	1.609 down	1.200 down	1.293 down	1.036 up	1.340 down
PD1239	hypothetical protein	1.072 up	1.072 up	1.078 up	1.150 up	1.157 up	1.005 down
PD1240	hypothetical protein	1.379 up	1.152 up	1.096 up	1.589 up	1.512 up	1.050 up
PD1241	hypothetical protein	1.632 up	1.295 down	1.106 down	1.260 up	1.475 up	1.170 down
PD1242	hypothetical protein	1.191 up	1.158 up	1.028 down	1.380 up	1.158 up	1.191 up
PD1243	hypothetical protein	1.316 up	2.342 down	1.197 down	1.778 down	1.099 up	1.956 down
PD1244	hypothetical protein	1.041 up	1.781 down	1.160 down	1.710 down	1.114 down	1.535 down
PD1245	hypothetical protein	1.444 up	2.329 down	1.327 down	1.613 down	1.088 up	1.755 down
PD1247	hypothetical protein	1.085 up	1.143 down	1.048 up	1.053 down	1.138 up	1.199 down
PD1248	hypothetical protein	1.166 up	1.005 down	1.240 up	1.160 up	1.446 up	1.246 down
PD1249	hypothetical protein	1.148 up	1.018 up	1.107 up	1.169 up	1.272 up	1.087 down
PD1250	hypothetical protein	1.102 up	1.335 down	1.043 up	1.211 down	1.150 up	1.393 down
PD1251	ribosomal protein L11 methyltransferase	1.086 up	1.088 up	1.246 down	1.181 up	1.147 down	1.356 up
PD1252	hypothetical protein	1.157 up	1.016 up	1.020 down	1.176 up	1.134 up	1.036 up
PD1253	elongation factor P	1.371 up	1.238 up	1.077 up	1.698 up	1.477 up	1.150 up
PD1254	oxidoreductase	1.028 up	1.487 down	1.369 down	1.445 down	1.331 down	1.086 down
PD1255	D-3-phosphoglycerate dehydrogenase	1.226 up	1.185 down	1.288 down	1.034 up	1.051 down	1.087 up

PD1256	cationic amino acid transporter	1.031 down	1.006 up	1.161 up	1.023 down	1.126 up	1.153 down
PD1257	cationic amino acid transporter	1.086 down	1.682 down	1.354 down	1.828 down	1.472 down	1.241 down
PD1258	hypothetical protein	1.044 down	1.035 up	1.175 down	1.008 down	1.227 down	1.216 up
PD1259	methionine salvage pathway enzyme	1.303 down	1.259 up	1.398 up	1.034 down	1.072 up	1.109 down
PD1260	enolase-phosphatase	1.043 up	1.069 down	1.142 up	1.024 down	1.191 up	1.220 down
PD1261	bifunctional phosphoribosyl-AMP cyclohydrolase/phosphoribosyl-ATP pyrophosphatase protein	1.044 up	1.033 down	1.056 down	1.011 up	1.011 down	1.022 up
PD1262	imidazole glycerol phosphate synthase subunit HisF	1.003 up	1.036 down	1.065 down	1.032 down	1.061 down	1.027 up
PD1263	1-(5-phosphoribosyl)-5-[(5- phosphoribosylamino)methylideneamino] imidazole-4- carboxamide isomerase	1.089 up	1.114 down	1.042 down	1.022 down	1.044 up	1.068 down
PD1264	imidazole glycerol phosphate synthase subunit HisH	1.224 down	1.258 down	1.019 down	1.540 down	1.247 down	1.234 down
PD1265	imidazole glycerol-phosphate dehydratase/histidinol phosphatase	1.181 down	1.273 up	1.101 up	1.078 up	1.072 down	1.155 up
PD1266	histidinol-phosphate aminotransferase	1.001 up	1.204 down	1.111 down	1.202 down	1.110 down	1.082 down
PD1267	histidinol dehydrogenase	1.136 down	1.007 down	1.237 up	1.144 down	1.088 up	1.246 down
PD1268	ATP phosphoribosyltransferase	1.029 down	1.194 up	1.214 up	1.160 up	1.178 up	1.016 down
PD1269	hypothetical protein	1.090 down	1.329 down	none	1.448 down	1.089 down	1.329 down
PD1270	histidyl-tRNA synthetase	1.166 up	1.118 down	1.262 down	1.043 up	1.082 down	1.129 up
PD1271	threonine synthase	1.124 down	1.138 down	1.049 down	1.280 down	1.180 down	1.084 down
PD1272	homoserine kinase	1.018 down	1.309 down	1.093 down	1.333 down	1.113 down	1.197 down
PD1273	aspartokinase	1.119 down	1.015 down	1.153 up	1.137 down	1.030 up	1.171 down
PD1274	aspartate carbamoyltransferase catalytic subunit	1.151 up	1.309 down	1.263 down	1.137 down	1.096 down	1.036 down

PD1275	Holliday junction resolvase-like protein	1.010 up	1.398 down	1.608 down	1.384 down	1.592 down	1.150 up
PD1276	hypothetical protein	1.112 up	1.012 down	1.004 up	1.098 up	1.117 up	1.016 down
PD1277	penicillin-binding protein 6 precursor	1.032 up	1.134 down	1.254 down	1.098 down	1.214 down	1.105 up
PD1278	catalase/peroxidase	1.203 up	1.244 down	1.099 down	1.034 down	1.094 up	1.132 down
PD1279	DnaJ protein	1.435 up	1.560 down	1.238 down	1.087 down	1.158 up	1.259 down
PD1280	low molecular weight heat shock protein	1.111 down	1.192 up	1.072 up	1.072 up	1.036 down	1.111 up
PD1281	bifunctional penicillin-binding protein 1C precursor	1.023 down	1.036 down	1.050 up	1.061 down	1.026 up	1.089 down
PD1282	hypothetical protein	1.018 up	1.049 up	1.062 down	1.068 up	1.042 down	1.114 up
PD1283	TonB-dependent receptor	1.131 down	1.187 down	1.068 up	1.344 down	1.058 down	1.269 down
PD1284	RNA polymerase sigma-70 factor	1.029 down	1.100 up	1.214 up	1.069 up	1.180 up	1.103 down
PD1285	hypothetical protein	1.175 down	1.324 down	1.228 down	1.556 down	1.443 down	1.078 down
PD1286	periplasmic protease	1.098 down	1.105 up	1.004 down	1.006 up	1.103 down	1.110 up
PD1287	GTP-binding protein LepA	1.266 down	1.026 down	1.310 up	1.299 down	1.034 up	1.345 down
PD1288	signal peptidase I	1.073 up	1.072 down	1.035 up	1.001 up	1.111 up	1.109 down
PD1289	hypothetical protein	1.046 up	1.166 down	1.016 down	1.113 down	1.029 up	1.146 down
PD1290	ribonuclease III	1.249 up	1.177 down	1.305 down	1.060 up	1.044 down	1.108 up
PD1291	GTP-binding protein Era	1.530 down	1.332 up	1.350 down	1.148 down	2.066 down	1.798 up
PD1292	DNA repair protein RecO	1.252 up	1.457 down	1.360 down	1.163 down	1.085 down	1.071 down
PD1293	1-deoxy-D-xylulose-5-phosphate synthase	1.176 up	1.470 down	1.536 down	1.249 down	1.305 down	1.044 up
PD1294	acetate permease	1.074 up	1.168 down	1.103 down	1.087 down	1.026 down	1.059 down

PD1295	hypothetical protein	1.307 up	1.078 down	1.071 down	1.212 up	1.220 up	1.006 down
PD1296	acetyl-coenzyme A synthetase	1.046 down	1.048 down	1.038 down	1.097 down	1.086 down	1.010 down
PD1297	hypothetical protein	1.188 down	1.005 up	1.062 up	1.181 down	1.118 down	1.056 down
PD1298	hypothetical protein	1.205 up	1.298 down	1.128 up	1.076 down	1.360 up	1.464 down
PD1299	hypothetical protein	1.053 down	1.021 down	1.040 down	1.076 down	1.096 down	1.018 up
PD1300	alanyl dipeptidyl peptidase	1.115 up	1.213 up	1.080 up	1.354 up	1.205 up	1.122 up
PD1301	oligopeptide transporter	1.028 up	1.107 up	1.084 down	1.138 up	1.054 down	1.201 up
PD1302	glycerol-3-phosphate dehydrogenase	1.107 down	1.159 down	1.078 up	1.284 down	1.026 down	1.250 down
PD1303	glycerol uptake facilitator protein	1.066 down	1.053 down	1.240 down	1.123 down	1.323 down	1.177 up
PD1304	glycerol kinase	1.016 up	1.062 up	1.056 up	1.079 up	1.072 up	1.005 up
PD1305	3-alpha-hydroxysteroid dehydrogenase	1.041 down	1.043 down	1.116 down	1.086 down	1.162 down	1.070 up
PD1306	hypothetical protein	1.002 up	1.262 down	1.066 down	1.259 down	1.064 down	1.183 down
PD1307	hypothetical protein	1.420 up	1.717 down	1.351 down	1.208 down	1.051 up	1.270 down
PD1308	5-methyltetrahydropteroyltriglutamate-- homocysteine methyltransferase	1.305 down	1.042 up	1.152 up	1.252 down	1.132 down	1.105 down
PD1309	hypothetical protein	1.287 up	1.579 down	1.381 down	1.226 down	1.073 down	1.142 down
PD1310	pyrazinamidase/nicotinamidase	1.021 down	1.250 up	1.093 up	1.223 up	1.070 up	1.143 up
PD1311	peptide synthase	1.114 up	1.016 up	1.034 down	1.132 up	1.077 up	1.051 up
PD1312	hypothetical protein	1.182 up	1.069 down	1.301 down	1.105 up	1.101 down	1.217 up
PD1313	dolichol-phosphate mannosyltransferase	1.134 up	1.044 down	1.265 up	1.086 up	1.435 up	1.321 down
PD1314	nucleotide sugar epimerase	1.313 up	1.333 down	1.297 down	1.015 down	1.012 up	1.028 down

PD1315	chromosome partitioning protein	1.061 up	1.080 down	1.040 down	1.018 down	1.019 up	1.038 down
PD1316	chromosome partitioning protein	1.074 down	1.023 up	1.020 down	1.050 down	1.096 down	1.044 up
PD1317	hypothetical protein	1.046 up	1.073 down	1.078 down	1.025 down	1.030 down	1.004 up
PD1318	seryl-tRNA synthetase	1.187 down	1.355 up	1.166 up	1.141 up	1.018 down	1.162 up
PD1319	TonB protein	1.087 up	1.212 down	1.236 down	1.114 down	1.136 down	1.020 up
PD1321	hypothetical protein	1.016 up	1.603 up	1.226 up	1.630 up	1.246 up	1.308 up
PD1322	phage-related DNA polymerase	1.247 up	1.280 down	1.500 down	1.026 down	1.202 down	1.171 up
PD1323	phage-related lysozyme	1.124 up	1.283 up	1.022 up	1.443 up	1.149 up	1.255 up
PD1324	site-specific DNA-methyltransferase	1.020 down	1.082 up	1.044 down	1.060 up	1.066 down	1.131 up
PD1325	excinuclease ABC subunit C	1.063 down	1.017 up	1.173 up	1.045 down	1.103 up	1.153 down
PD1326	CDP-diacylglycerol-glycerol-3- phosphate 3-phosphatidyltransferase	1.020 down	1.030 down	1.116 up	1.052 down	1.093 up	1.150 down
PD1328	hypothetical protein	1.119 up	1.547 up	2.771 up	1.732 up	3.102 up	1.790 down
PD1329	hypothetical protein	1.038 down	1.260 down	1.189 down	1.309 down	1.235 down	1.059 down
PD1330	hypothetical protein	1.284 up	1.375 down	1.228 down	1.070 down	1.045 up	1.119 down
PD1331	delta-aminolevulinic acid dehydratase	1.021 down	1.106 up	1.056 up	1.083 up	1.035 up	1.046 up
PD1332	hypothetical protein	1.126 up	1.205 down	1.162 up	1.069 down	1.309 up	1.400 down
PD1333	IS1327 transposase	1.123 up	1.263 down	1.610 down	1.124 down	1.433 down	1.275 up
PD1334	hypothetical protein	1.040 down	1.006 up	1.033 up	1.033 down	1.007 down	1.026 down
PD1335	glutamate-1-semialdehyde aminotransferase	1.058 up	1.280 down	1.105 down	1.209 down	1.044 down	1.158 down
PD1336	polysaccharide export protein	1.012 up	1.514 up	1.436 up	1.532 up	1.454 up	1.105 down

PD1337	3-deoxy-manno-octulosonate cytidyltransferase	1.260 up	1.107 down	1.339 down	1.137 up	1.062 down	1.208 up
PD1338	low molecular weight phosphotyrosine protein phosphatase	1.026 up	1.073 up	1.024 down	1.101 up	1.002 up	1.099 up
PD1339	DNA methylase	1.115 up	1.024 up	1.020 up	1.142 up	1.138 up	1.003 up
PD1340	proteic killer suppression protein	1.100 up	1.003 down	1.090 down	1.096 up	1.009 up	1.086 up
PD1341	virulence-associated protein	1.057 down	1.673 down	1.230 down	1.770 down	1.301 down	1.360 down
PD1342	HicB-related protein	1.180 up	1.094 down	1.193 up	1.078 up	1.408 up	1.306 down
PD1343	HicA-related protein	1.069 up	1.506 down	1.437 down	1.408 down	1.343 down	1.048 down
PD1344	hypothetical protein	1.031 up	1.581 up	1.202 up	1.632 up	1.240 up	1.315 up
PD1345	hypothetical protein	none	1.080 down	1.032 up	1.079 down	1.033 up	1.115 down
PD1346	hypothetical protein	1.020 up	1.131 up	1.244 up	1.155 up	1.270 up	1.099 down
PD1347	hypothetical protein	1.065 up	1.327 down	1.136 up	1.245 down	1.210 up	1.507 down
PD1348	conjugal transfer protein	1.044 down	1.784 up	1.103 up	1.707 up	1.056 up	1.617 up
PD1349	hypothetical protein	1.147 down	1.140 down	1.079 down	1.308 down	1.238 down	1.056 down
PD1350	conjugal transfer protein	1.318 up	1.213 up	1.298 up	1.600 up	1.712 up	1.069 down
PD1351	hypothetical protein	1.390 down	1.040 down	1.162 up	1.446 down	1.196 down	1.209 down
PD1352	hypothetical protein	1.283 up	1.167 down	1.119 down	1.099 up	1.147 up	1.043 down
PD1353	hypothetical protein	1.134 down	1.162 down	1.133 down	1.318 down	1.286 down	1.025 down
PD1354	hypothetical protein	1.028 up	1.423 down	1.044 down	1.384 down	1.016 down	1.362 down
PD1355	hypothetical protein	1.019 down	1.340 down	1.008 up	1.366 down	1.010 down	1.351 down
PD1356	3-phosphoshikimate 1-carboxyvinyltransferase	1.055 up	1.012 up	1.009 down	1.068 up	1.045 up	1.021 up

PD1357	P-protein	1.134 down	1.127 down	1.018 down	1.279 down	1.155 down	1.107 down
PD1358	phosphoserine aminotransferase	1.022 down	1.077 up	1.237 up	1.054 up	1.210 up	1.148 down
PD1359	TonB protein	1.167 down	1.009 down	1.019 down	1.178 down	1.190 down	1.010 up
PD1360	ABC transporter sodium permease	1.023 down	1.108 down	1.115 up	1.135 down	1.089 up	1.236 down
PD1361	sodium ABC transporter ATP-binding protein	1.040 down	none	1.042 up	1.040 down	1.002 up	1.042 down
PD1362	proteinase	1.023 down	1.043 down	1.023 down	1.067 down	1.047 down	1.019 down
PD1363	dihydrofolate reductase type III	1.021 down	1.310 down	1.000 down	1.338 down	1.021 down	1.309 down
PD1364	thymidylate synthase	1.118 up	1.224 down	1.292 down	1.094 down	1.155 down	1.055 up
PD1365	prolipoprotein diacylglyceryl transferase	1.023 down	1.025 up	1.031 up	1.002 up	1.007 up	1.005 down
PD1366	diacylglycerol kinase	1.086 down	1.158 down	1.027 up	1.258 down	1.056 down	1.191 down
PD1367	two-component system, regulatory protein	1.430 up	1.194 down	1.305 down	1.197 up	1.096 up	1.092 up
PD1368	prephenate dehydrogenase	1.083 up	1.106 down	1.091 down	1.020 down	1.007 down	1.013 down
PD1369	DnaJ protein	1.067 down	1.132 down	1.005 up	1.209 down	1.061 down	1.138 down
PD1370	molecular chaperone DnaK	1.101 up	1.091 down	1.053 up	1.009 up	1.161 up	1.150 down
PD1371	heat shock protein GrpE	1.220 up	1.323 down	1.589 down	1.084 down	1.301 down	1.200 up
PD1372	heat-inducible transcription repressor	1.150 up	1.222 down	1.217 down	1.062 down	1.057 down	1.003 down
PD1373	recombination protein N	1.114 down	1.108 up	1.041 up	1.004 down	1.069 down	1.064 up
PD1374	ferric uptake regulator	1.005 down	1.026 up	1.066 up	1.020 up	1.060 up	1.038 down
PD1375	outer membrane protein	1.117 down	1.236 down	1.259 down	1.380 down	1.406 down	1.018 up
PD1376	hypothetical protein	1.073 up	1.240 up	1.000 down	1.332 up	1.073 up	1.241 up

PD1377	hypothetical protein	1.121 down	1.353 down	1.026 down	1.518 down	1.151 down	1.318 down
PD1378	SsrA-binding protein	1.018 down	1.094 up	1.074 down	1.074 up	1.093 down	1.175 up
PD1379	hypothetical protein	1.044 up	1.009 up	1.241 up	1.054 up	1.296 up	1.229 down
PD1380	cold shock protein	1.357 up	1.088 down	1.132 up	1.246 up	1.537 up	1.233 down
PD1381	purine nucleoside phosphorylase	1.102 up	1.300 up	1.059 down	1.434 up	1.040 up	1.378 up
PD1382	hypoxanthine-guanine phosphoribosyltransferase	1.085 down	1.146 down	1.004 down	1.244 down	1.090 down	1.141 down
PD1383	beta-hexosaminidase	1.097 down	1.066 up	1.271 down	1.029 down	1.395 down	1.355 up
PD1384	hypothetical protein	1.144 down	1.048 down	1.021 up	1.199 down	1.119 down	1.070 down
PD1385	23S rRNA (uracil-5-)-methyltransferase	1.228 up	1.006 up	1.007 down	1.235 up	1.219 up	1.013 up
PD1386	response regulator	1.211 down	1.067 down	1.210 down	1.293 down	1.466 down	1.134 up
PD1387	GumM protein	1.079 up	1.097 up	1.240 up	1.184 up	1.338 up	1.129 down
PD1388	GumK protein	1.069 up	1.132 down	1.110 down	1.058 down	1.037 down	1.020 down
PD1389	GumJ protein	1.274 up	1.194 up	1.153 up	1.522 up	1.471 up	1.035 up
PD1390	hypothetical protein	1.050 up	1.075 up	1.140 up	1.129 up	1.198 up	1.060 down
PD1391	GumH protein	1.026 up	1.486 up	1.326 up	1.524 up	1.360 up	1.120 up
PD1392	GumF protein	1.010 down	1.127 down	1.027 up	1.139 down	1.016 up	1.158 down
PD1393	GumE protein	1.012 down	1.001 up	1.327 down	1.011 down	1.343 down	1.328 up
PD1394	GumD protein	1.092 up	1.340 up	1.222 up	1.463 up	1.334 up	1.096 up
PD1395	GumC protein	1.117 up	1.291 up	1.243 up	1.442 up	1.388 up	1.038 up
PD1396	GumB protein	1.196 up	1.233 up	1.108 up	1.475 up	1.325 up	1.112 up

PD1397	3-isopropylmalate dehydrogenase	1.070 up	1.021 up	1.100 up	1.093 up	1.177 up	1.077 down
PD1398	isopropylmalate isomerase small subunit	1.044 up	1.115 down	1.059 down	1.067 down	1.013 down	1.052 down
PD1399	isopropylmalate isomerase large subunit	1.236 up	1.049 up	1.078 down	1.297 up	1.145 up	1.132 up
PD1400	hypothetical protein	1.140 up	1.189 down	1.047 down	1.042 down	1.088 up	1.135 down
PD1401	hypothetical protein	1.154 up	1.089 down	1.021 up	1.059 up	1.179 up	1.112 down
PD1402	membrane fusion protein precursor	1.029 down	1.122 up	1.012 up	1.089 up	1.017 down	1.108 up
PD1403	acriflavin resistance protein D	1.026 up	1.063 up	1.167 down	1.091 up	1.137 down	1.241 up
PD1404	acriflavin resistance protein	1.205 down	1.428 down	1.133 down	1.722 down	1.366 down	1.260 down
PD1405	hypothetical protein	1.092 up	1.161 down	1.101 down	1.062 down	1.007 down	1.054 down
PD1406	alcohol dehydrogenase	1.170 up	1.098 up	1.208 down	1.285 up	1.032 down	1.327 up
PD1407	hypothetical protein	1.129 down	1.312 down	1.381 down	1.482 down	1.560 down	1.052 up
PD1408	autolytic lysozyme	1.584 up	1.119 up	1.104 down	1.773 up	1.434 up	1.236 up
PD1409	glutaredoxin-like protein	1.299 up	1.199 down	1.121 down	1.083 up	1.158 up	1.069 down
PD1410	acetylxlanyl esterase	1.100 down	1.050 up	1.088 down	1.046 down	1.197 down	1.143 up
PD1411	aspartate aminotransferase	1.086 up	1.097 up	1.219 up	1.192 up	1.325 up	1.111 down
PD1412	toxin secretion ABC transporter ATP-binding protein	1.088 down	1.645 down	1.268 down	1.791 down	1.381 down	1.296 down
PD1413	hemolysin secretion protein D	1.364 down	1.038 up	1.092 down	1.313 down	1.490 down	1.134 up
PD1414	hypothetical protein	1.131 up	1.067 up	1.066 up	1.207 up	1.206 up	none
PD1415	hypothetical protein	1.118 up	1.066 down	1.253 down	1.048 up	1.120 down	1.175 up
PD1416	hypothetical protein	1.164 up	1.288 down	1.201 down	1.105 down	1.031 down	1.072 down

PD1417	hypothetical protein	1.370 up	1.038 up	1.224 down	1.423 up	1.119 up	1.272 up
PD1418	hypothetical protein	1.074 up	2.018 down	1.199 down	1.878 down	1.116 down	1.682 down
PD1419	hypothetical protein	1.348 up	1.505 up	1.012 down	2.029 up	1.332 up	1.523 up
PD1420	hypothetical protein	1.009 up	1.256 down	1.038 down	1.245 down	1.028 down	1.210 down
PD1421	hypothetical protein	1.281 up	1.402 up	1.154 down	1.796 up	1.109 up	1.619 up
PD1422	hypothetical protein	1.197 up	1.130 down	1.116 down	1.058 up	1.072 up	1.013 down
PD1423	hypothetical protein	1.116 up	1.449 down	1.294 down	1.297 down	1.159 down	1.119 down
PD1424	hypothetical protein	1.228 down	1.741 down	1.372 down	2.140 down	1.686 down	1.268 down
PD1425	hypothetical protein	1.371 down	2.119 up	1.330 up	1.545 up	1.030 down	1.592 up
PD1426	hypothetical protein	1.330 down	1.301 down	1.156 down	1.730 down	1.538 down	1.124 down
PD1427	bacteriocin	1.032 down	1.014 up	1.054 up	1.017 down	1.021 up	1.039 down
PD1428	hypothetical protein	1.115 up	1.343 down	1.061 down	1.204 down	1.050 up	1.265 down
PD1429	DNA helicase	1.259 up	1.154 up	1.089 up	1.454 up	1.371 up	1.059 up
PD1431	hypothetical protein	1.142 up	1.023 down	1.072 down	1.115 up	1.064 up	1.047 up
PD1434	hypothetical protein	1.117 up	1.232 down	1.198 down	1.103 down	1.072 down	1.028 down
PD1435	4-hydroxy-3-methylbut-2-enyl diphosphate reductase	1.003 up	1.038 down	1.180 down	1.034 down	1.177 down	1.137 up
PD1436	signal peptidase II	1.027 down	1.026 down	1.030 up	1.055 down	1.002 up	1.057 down
PD1437	isoleucyl-tRNA synthetase	1.090 down	1.313 down	1.271 down	1.431 down	1.386 down	1.032 down
PD1438	hypothetical protein	1.213 up	1.314 down	1.283 down	1.083 down	1.057 down	1.023 down
PD1439	virulence factor	1.248 up	1.148 down	1.206 down	1.086 up	1.034 up	1.050 up

PD1440	30S ribosomal protein S20	1.152 down	1.406 up	1.279 up	1.219 up	1.109 up	1.099 up
PD1441	GTP-binding protein	1.013 up	1.129 down	1.315 down	1.114 down	1.297 down	1.164 up
PD1442	50S ribosomal protein L27	1.118 up	1.037 up	1.224 up	1.160 up	1.369 up	1.180 down
PD1443	50S ribosomal protein L21	1.006 down	1.081 down	1.053 up	1.088 down	1.046 up	1.139 down
PD1444	excinuclease ABC subunit A	1.005 down	1.121 down	1.092 down	1.127 down	1.099 down	1.026 down
PD1445	hypothetical protein	1.312 up	1.310 down	1.529 down	1.001 up	1.165 down	1.167 up
PD1446	hypothetical protein	1.061 up	1.334 down	1.154 down	1.256 down	1.087 down	1.156 down
PD1447	bifunctional GMP synthase/glutamine amidotransferase protein	1.047 up	1.095 down	1.183 up	1.046 down	1.239 up	1.296 down
PD1448	inositol-5-monophosphate dehydrogenase	1.037 down	1.003 down	1.113 up	1.041 down	1.073 up	1.117 down
PD1449	bifunctional methylenetetrahydrofolate dehydrogenase/methenyltetrahydrofolate cyclohydrolase	1.039 up	1.099 down	1.063 up	1.058 down	1.104 up	1.169 down
PD1450	UTP-glucose-1-phosphate uridylyltransferase	1.040 up	1.084 up	1.198 down	1.128 up	1.152 down	1.299 up
PD1451	epimerase/dehydratase protein	1.009 up	1.037 down	1.051 up	1.027 down	1.062 up	1.090 down
PD1452	lipopolysaccharide core biosynthesis protein	1.051 down	1.111 down	1.022 up	1.168 down	1.028 down	1.136 down
PD1453	heat shock protein	1.085 up	1.371 down	1.208 down	1.262 down	1.112 down	1.135 down
PD1454	hypothetical protein	1.010 up	1.427 down	1.307 down	1.412 down	1.293 down	1.092 down
PD1455	integration host factor beta subunit	1.069 up	1.372 down	1.082 up	1.283 down	1.157 up	1.485 down
PD1456	30S ribosomal protein S1	1.091 up	1.018 down	1.106 down	1.071 up	1.013 down	1.086 up
PD1457	cytidylate kinase	1.083 down	1.035 down	1.237 down	1.122 down	1.341 down	1.194 up
PD1458	50S ribosomal protein L36	1.091 up	2.031 down	1.384 down	1.861 down	1.268 down	1.467 down

PD1459	hypothetical protein	1.313 up	1.046 up	1.035 up	1.374 up	1.360 up	1.010 up
PD1460	hypothetical protein	1.383 down	1.028 down	1.037 up	1.422 down	1.332 down	1.067 down
PD1461	pantothenase	1.004 down	1.020 up	1.455 down	1.015 up	1.462 down	1.486 up
PD1462	pheromone shutdown protein	1.193 down	1.012 up	1.124 down	1.179 down	1.342 down	1.138 up
PD1463	hypothetical protein	1.135 up	1.089 down	1.030 up	1.042 up	1.169 up	1.122 down
PD1464	ABC transporter sugar permease	1.173 up	1.201 down	1.297 down	1.023 down	1.105 down	1.079 up
PD1465	ABC transporter sugar permease	1.151 up	1.103 up	1.076 up	1.270 up	1.238 up	1.025 up
PD1466	ABC transporter sugar-binding protein	1.053 down	1.113 up	1.208 up	1.056 up	1.146 up	1.085 down
PD1467	hypothetical protein	1.251 down	1.062 up	1.013 up	1.178 down	1.234 down	1.048 up
PD1468	morphogene BolA protein	1.056 up	1.046 down	1.006 down	1.009 up	1.048 up	1.039 down
PD1469	hypothetical protein	1.021 down	1.154 up	1.004 down	1.130 up	1.026 down	1.160 up
PD1470	hypothetical protein	1.001 down	1.260 up	1.014 up	1.259 up	1.013 up	1.242 up
PD1471	pseudouridylate synthase	1.389 down	1.273 up	1.150 up	1.091 down	1.207 down	1.106 up
PD1472	hypothetical protein	1.101 up	1.148 up	1.155 up	1.265 up	1.273 up	1.005 down
PD1473	hydrolase	1.173 up	1.011 up	1.121 up	1.187 up	1.317 up	1.108 down
PD1474	putative aminotransferase	1.011 down	1.188 up	1.120 up	1.174 up	1.106 up	1.060 up
PD1475	heme ABC transporter ATP-binding protein	1.059 down	1.097 down	1.329 down	1.162 down	1.408 down	1.211 up
PD1476	heme ABC transporter membrane protein	1.044 down	1.351 down	1.154 down	1.411 down	1.206 down	1.170 down
PD1477	heme ABC transporter membrane protein	1.018 down	1.256 down	1.190 down	1.279 down	1.213 down	1.054 down
PD1478	c-type cytochrome biogenesis protein	1.246 down	1.048 down	1.394 down	1.307 down	1.739 down	1.330 up

PD1479	c-type cytochrome biogenesis membrane protein	1.032 up	1.266 down	1.210 down	1.227 down	1.173 down	1.046 down
PD1480	c-type cytochrome biogenesis protein/thioredoxin	1.137 down	1.213 up	1.281 up	1.066 up	1.126 up	1.055 down
PD1481	c-type cytochrome biogenesis protein	1.051 down	1.108 down	1.301 down	1.164 down	1.368 down	1.174 up
PD1482	truncated C-type cytochrome biogenesis protein	1.138 up	1.506 down	1.136 down	1.322 down	1.001 up	1.325 down
PD1483	hypothetical protein	1.144 down	1.147 up	1.135 down	1.003 up	1.299 down	1.303 up
PD1484	homoserine O-acetyltransferase	1.191 down	1.031 down	1.041 down	1.228 down	1.240 down	1.009 up
PD1485	polygalacturonase precursor	1.142 up	1.153 up	1.167 up	1.316 up	1.3327 up	1.023 down
PD1486	hypothetical protein	1.040 down	1.148 up	1.224 up	1.103 up	1.177 up	1.066 down
PD1487	phosphoglycolate phosphatase	1.083 down	1.020 down	1.168 up	1.106 down	1.078 up	1.193 down
PD1488	3-demethylubiquinone-9 3-methyltransferase	1.169 down	1.224 down	1.152 down	1.431 down	1.347 down	1.062 down
PD1489	N-ethylammelne chlorohydrolase	1.412 down	1.293 up	1.326 up	1.091 down	1.064 down	1.025 down
PD1490	elongation factor P	1.056 up	1.047 up	1.058 down	1.106 up	1.001 down	1.108 up
PD1491	hypothetical protein	1.225 up	1.154 down	1.003 up	1.061 up	1.229 up	1.158 down
PD1492	tRNA/rRNA methyltransferase	1.086 up	1.191 down	1.034 down	1.096 down	1.050 up	1.151 down
PD1493	extragenic supressor	1.015 down	1.036 up	1.064 down	1.021 up	1.080 down	1.103 up
PD1494	dithiobiotin synthetase	1.161 up	1.016 down	1.241 down	1.143 up	1.069 down	1.222 up
PD1495	phage-related integrase	1.209 up	1.206 up	1.093 down	1.459 up	1.105 up	1.319 up
PD1497	type IV fimbriae assembly protein	1.219 up	1.007 up	1.205 down	1.228 up	1.011 up	1.214 up
PD1498	DNA polymerase III subunit delta	1.005 down	1.074 up	1.070 up	1.068 up	1.065 up	1.003 up
PD1499	hypothetical protein	1.048 up	1.191 down	1.062 up	1.136 down	1.114 up	1.265 down

PD1500	anthranilate synthase component I	1.205 up	1.178 down	1.224 down	1.022 up	1.015 down	1.038 up
PD1501	3-oxoacyl-(acyl carrier protein) synthase	1.131 up	1.060 down	1.243 down	1.066 up	1.098 down	1.171 up
PD1502	acyl carrier protein	1.527 up	2.634 up	1.445 up	4.022 up	2.207 up	1.822 up
PD1503	3-ketoacyl-(acyl-carrier-protein) reductase	1.011 up	1.100 up	1.315 up	1.113 up	1.330 up	1.195 down
PD1504	acyl-carrier-protein S-malonyltransferase	1.170 up	1.197 up	1.020 up	1.401 up	1.194 up	1.173 up
PD1505	pyruvate dehydrogenase	1.108 down	1.084 up	1.084 down	1.022 down	1.202 down	1.176 up
PD1506	hemolysin-type calcium binding protein	1.148 down	1.228 down	1.081 up	1.409 down	1.061 down	1.328 down
PD1507	hypothetical protein	1.041 down	1.136 down	1.318 down	1.184 down	1.373 down	1.159 up
PD1508	hypothetical protein	1.232 up	1.162 down	1.113 down	1.059 up	1.106 up	1.043 down
PD1509	hypothetical protein	1.154 up	1.037 down	1.137 up	1.113 up	1.313 up	1.179 down
PD1510	hypothetical protein	1.336 up	1.086 down	1.041 down	1.229 up	1.282 up	1.043 down
PD1511	hypothetical protein	1.086 up	1.070 down	1.002 down	1.014 up	1.083 up	1.068 down
PD1512	farnesyl-diphosphate synthase	1.175 down	1.244 down	1.035 down	1.462 down	1.217 down	1.201 down
PD1513	exodeoxyribonuclease VII small subunit	1.213 down	1.332 up	1.127 down	1.098 up	1.368 down	1.502 up
PD1514	cell cycle protein	1.078 down	1.216 down	1.254 down	1.312 down	1.353 down	1.031 up
PD1515	alkaline phosphatase	1.067 up	1.399 down	1.248 down	1.311 down	1.170 down	1.121 down
PD1516	glutamate symport protein	1.109 up	1.151 up	1.193 down	1.277 up	1.076 down	1.374 up
PD1517	hypothetical protein	1.179 down	1.041 down	1.148 up	1.228 down	1.026 down	1.196 down
PD1518	hypothetical protein	1.017 up	1.104 up	1.112 up	1.123 up	1.131 up	1.007 down
PD1519	peptidyl-prolyl cis-trans isomerase	1.389 up	1.115 up	1.159 down	1.550 up	1.198 up	1.293 up

PD1520	transport protein	1.057 down	1.112 up	1.220 up	1.052 up	1.154 up	1.097 down
PD1521	integral membrane protein	1.067 up	1.437 down	1.606 down	1.346 down	1.504 down	1.117 up
PD1522	hypothetical protein	1.104 up	1.185 down	1.070 up	1.073 down	1.182 up	1.268 down
PD1523	endonuclease III	1.218 down	1.140 up	1.511 up	1.067 down	1.241 up	1.325 down
PD1524	hypothetical protein	1.451 down	1.014 up	1.221 up	1.431 down	1.188 down	1.204 down
PD1525	macrophage infectivity potentiator	1.021 up	1.079 down	1.008 down	1.056 down	1.013 up	1.070 down
PD1527	hypothetical protein	1.108 up	1.182 up	1.070 down	1.309 up	1.035 up	1.265 up
PD1528	hypothetical protein	1.056 up	1.256 down	1.221 down	1.189 down	1.155 down	1.028 down
PD1529	hypothetical protein	1.280 up	1.157 down	1.088 up	1.106 up	1.394 up	1.259 down
PD1530	hypothetical protein	1.091 up	1.168 up	1.009 down	1.276 up	1.081 up	1.180 up
PD1531	hypothetical protein	1.366 down	1.052 down	1.403 down	1.437 down	1.918 down	1.334 up
PD1532	shikimate 5-dehydrogenase	1.011 up	1.233 down	1.017 down	1.219 down	1.006 down	1.212 down
PD1533	hypothetical protein	1.328 up	1.212 down	1.115 down	1.095 up	1.190 up	1.086 down
PD1534	phosphomethylpyrimidine kinase	1.026 up	1.051 down	1.065 down	1.024 down	1.037 down	1.013 up
PD1535	c-type cytochrome biogenesis protein	1.186 up	1.194 down	1.130 down	1.006 down	1.049 up	1.057 down
PD1536	periplasmic divalent cation tolerance protein	1.098 up	1.087 down	1.170 down	1.010 up	1.065 down	1.077 up
PD1537	co-chaperonin GroES	1.038 up	1.008 down	1.074 down	1.029 up	1.034 down	1.065 up
PD1538	chaperonin GroEL	1.010 up	1.248 up	1.025 down	1.261 up	1.014 down	1.279 up
PD1539	hypothetical protein	1.093 up	1.074 up	1.197 up	1.175 up	1.309 up	1.114 down
PD1540	hypothetical protein	1.306 up	1.752 down	1.314 down	1.342 down	1.006 down	1.333 down

PD1541	hypothetical protein	1.036 up	1.271 down	1.029 down	1.227 down	1.006 up	1.235 down
PD1542	dolichol-phosphate mannosyltransferase	1.030 up	1.093 up	1.033 down	1.127 up	1.002 down	1.130 up
PD1543	dTDP-glucose 4-6-dehydratase	1.123 up	1.235 down	1.176 down	1.099 down	1.047 down	1.049 down
PD1544	NDP-hexose epimerase/oxydoreductase	1.343 down	1.148 down	1.047 down	1.543 down	1.406 down	1.096 down
PD1545	GDP-mannose 4,6 dehydratase	1.106 up	1.218 down	1.080 down	1.101 down	1.023 up	1.127 down
PD1546	mannosyltransferase	1.035 up	1.008 down	1.256 down	1.026 up	1.213 down	1.246 up
PD1547	hypothetical protein	1.246 up	1.134 down	1.161 down	1.099 up	1.073 up	1.024 up
PD1548	cystathionine beta-synthase	1.008 up	1.009 down	1.235 down	none	1.224 down	1.224 up
PD1549	UptF protein	1.354 up	1.958 up	1.551 up	2.652 up	2.101 up	1.262 up
PD1550	outer membrane protein UptE precursor	1.165 up	1.269 down	1.086 down	1.089 down	1.072 up	1.168 down
PD1551	outer membrane protein UptD precursor	1.270 up	1.378 down	1.280 down	1.085 down	1.008 down	1.076 down
PD1552	TonB-dependent receptor	1.005 up	1.071 down	1.183 down	1.065 down	1.176 down	1.104 up
PD1553	putative hydroxylase	1.193 down	1.116 down	1.152 down	1.332 down	1.375 down	1.032 up
PD1554	hypothetical protein	1.075 down	1.020 down	1.082 down	1.097 down	1.165 down	1.061 up
PD1555	hypothetical protein	1.138 up	1.002 up	1.084 up	1.141 up	1.234 up	1.081 down
PD1556	hypothetical protein	1.262 down	1.285 up	1.034 up	1.018 up	1.219 down	1.242 up
PD1557	thiamine biosynthesis lipoprotein ApbE precursor	1.379 down	1.138 up	1.081 up	1.211 down	1.274 down	1.052 up
PD1558	DNA transport competence protein	1.213 up	7.527 up	2.531 up	9.136 up	3.072 up	2.973 up
PD1559	hypothetical protein	1.034 up	1.009 down	1.001 up	1.024 up	1.036 up	1.011 down
PD1560	nucleotidyl transferase	1.098 down	1.021 down	1.149 down	1.121 down	1.263 down	1.126 up

PD1561	hypothetical protein	1.019 up	1.024 down	1.317 down	1.004 down	1.292 down	1.287 up
PD1562	permease	1.007 down	1.046 down	1.180 down	1.055 down	1.189 down	1.127 up
PD1563	hypothetical protein	1.039 down	1.069 down	1.282 down	1.111 down	1.332 down	1.199 up
PD1564	phosphoribosylaminoimidazole synthetase	1.031 up	1.367 down	1.618 down	1.325 down	1.569 down	1.183 up
PD1565	hypothetical protein	1.548 down	1.052 up	1.344 down	1.470 down	2.082 down	1.415 up
PD1566	phosphoribosylglycinamide formyltransferase	1.294 down	1.029 down	1.110 up	1.332 down	1.165 down	1.143 down
PD1567	hypothetical protein	1.233 down	1.073 down	1.060 down	1.324 down	1.308 down	1.012 down
PD1568	hypothetical protein	1.180 down	1.251 up	1.152 up	1.060 up	1.024 down	1.086 up
PD1569	thymidylate kinase	1.235 up	1.109 up	1.070 up	1.371 up	1.322 up	1.036 up
PD1570	metallopeptidase	1.132 down	1.217 down	1.179 down	1.378 down	1.334 down	1.032 down
PD1571	hypothetical protein	1.141 down	1.176 up	1.169 up	1.030 up	1.023 up	1.006 up
PD1572	3-hydroxydecanoyl-ACP dehydratase	1.215 down	1.108 up	1.281 up	1.095 down	1.054 up	1.155 down
PD1573	hypothetical protein	1.004 down	1.250 down	1.213 down	1.256 down	1.218 down	1.030 down
PD1574	recombination associated protein	1.156 down	1.569 down	2.105 down	1.814 down	2.433 down	1.341 up
PD1575	hypothetical protein	1.263 down	1.127 up	1.157 up	1.120 down	1.091 down	1.026 down
PD1576	ferrochelatase	1.063 down	1.072 down	1.267 down	1.139 down	1.347 down	1.182 up
PD1577	hypothetical protein	1.132 down	1.049 up	1.032 up	1.079 down	1.097 down	1.016 up
PD1578	twin arginine translocase protein A	1.235 down	1.414 up	1.116 up	1.144 up	1.107 down	1.266 up
PD1579	sec-independent translocase	1.019 down	1.357 down	1.154 down	1.383 down	1.176 down	1.175 down
PD1580	SEC-independent protein translocase	1.186 down	1.219 down	1.160 down	1.446 down	1.377 down	1.050 down

PD1581	hypothetical protein	1.236 up	1.224 down	1.086 down	1.009 up	1.138 up	1.127 down
PD1582	glutamine amidotransferase	1.204 up	1.100 down	1.150 down	1.094 up	1.047 up	1.045 up
PD1583	hypothetical protein	1.241 down	1.000 down	1.127 down	1.242 down	1.400 down	1.126 up
PD1584	electron transfer protein azurin I	1.381 down	1.370 up	1.300 up	1.007 down	1.062 down	1.054 up
PD1585	ribosome-associated GTPase	1.040 down	1.251 up	1.139 up	1.201 up	1.094 up	1.098 up
PD1586	hypothetical protein	1.124 up	1.013 up	1.026 down	1.139 up	1.095 up	1.040 up
PD1587	hypothetical protein	1.166 up	1.203 down	1.120 down	1.031 down	1.041 up	1.074 down
PD1588	hypothetical protein	1.337 down	1.240 up	1.160 up	1.078 down	1.152 down	1.068 up
PD1589	TonB-dependent receptor	1.132 up	1.040 up	1.156 down	1.179 up	1.020 down	1.203 up
PD1590	methionyl-tRNA synthetase	1.025 up	1.267 down	1.159 down	1.236 down	1.130 down	1.093 down
PD1591	ferredoxin	1.159 down	1.167 down	1.009 down	1.353 down	1.170 down	1.156 down
PD1592	hypothetical protein	1.155 up	1.002 down	1.189 down	1.153 up	1.028 down	1.186 up
PD1593	hypothetical protein	1.005 down	1.119 down	1.075 down	1.125 down	1.081 down	1.041 down
PD1594	hypothetical protein	1.006 down	1.029 down	1.043 up	1.036 down	1.036 up	1.074 down
PD1595	phage-related endolysin	1.210 down	1.232 down	1.004 up	1.491 down	1.205 down	1.237 down
PD1596	hypothetical protein	1.118 down	1.031 down	1.018 up	1.153 down	1.098 down	1.050 down
PD1597	hypothetical protein	1.129 down	1.047 down	1.232 down	1.183 down	1.393 down	1.177 up
PD1598	phage-related terminase large subunit	1.037 up	1.043 down	1.067 down	1.005 down	1.029 down	1.023 up
PD1599	hypothetical protein	1.058 up	1.304 down	1.284 down	1.231 down	1.213 down	1.015 down
PD1600	virulence-associated protein E	1.109 down	1.254 up	1.382 up	1.130 up	1.245 up	1.101 down

PD1601	hypothetical protein	1.050 up	1.206 up	1.109 up	1.266 up	1.165 up	1.087 up
PD1602	hypothetical protein	1.054 down	1.071 down	1.092 down	1.129 down	1.151 down	1.019 up
PD1603	single-strand DNA-binding protein	1.111 up	1.459 up	1.255 down	1.622 up	1.129 down	1.833 up
PD1604	hypothetical protein	1.054 up	1.050 down	1.109 up	1.003 up	1.170 up	1.165 down
PD1606	hypothetical protein	1.068 up	1.075 up	1.069 down	1.149 up	1.000 down	1.150 up
PD1607	modification methylase NspV	1.012 down	1.113 down	1.094 up	1.127 down	1.080 up	1.218 down
PD1608	type II restriction enzyme NspV	1.016 up	1.173 down	1.213 down	1.154 down	1.193 down	1.033 up
PD1610	type IV pilin	1.141 down	1.074 down	1.156 up	1.226 down	1.013 up	1.242 down
PD1611	fimbrial assembly protein	1.230 up	1.464 up	1.169 down	1.800 up	1.051 up	1.714 up
PD1612	fimbrial assembly protein	1.123 down	1.098 up	1.009 down	1.023 down	1.134 down	1.108 up
PD1613	hypothetical protein	1.138 up	1.521 up	1.254 up	1.732 up	1.428 up	1.212 up
PD1614	hypothetical protein	1.197 down	1.123 down	1.154 down	1.345 down	1.382 down	1.027 up
PD1615	hypothetical protein	1.025 down	1.002 down	1.265 up	1.028 down	1.234 up	1.268 down
PD1616	hypothetical protein	1.270 up	1.229 down	1.028 up	1.033 up	1.306 up	1.263 down
PD1617	hypothetical protein	1.101 up	1.035 down	1.074 down	1.064 up	1.025 up	1.038 up
PD1618	molybdopterin biosynthesis protein MoeB	1.126 down	1.173 up	1.077 up	1.041 up	1.045 down	1.088 up
PD1619	GTP-binding protein EngA	1.212 up	1.257 up	1.186 down	1.524 up	1.022 up	1.490 up
PD1620	serine/threonine protein kinase	1.116 up	1.033 up	1.069 up	1.153 up	1.194 up	1.034 down
PD1621	hypothetical protein	1.160 up	1.083 up	1.119 up	1.257 up	1.298 up	1.032 down
PD1622	hypothetical protein	1.231 up	1.003 up	1.422 down	1.236 up	1.154 down	1.427 up

PD1623	hypothetical protein	1.189 up	1.100 down	1.066 up	1.080 up	1.268 up	1.174 down
PD1624	hypothetical protein	1.125 up	1.132 up	1.049 down	1.274 up	1.072 up	1.188 up
PD1625	nucleoside diphosphate kinase	1.267 down	1.145 up	1.105 down	1.106 down	1.401 down	1.266 up
PD1626	glyceraldehyde-3-phosphate dehydrogenase	1.116 up	1.266 up	1.087 up	1.414 up	1.214 up	1.164 up
PD1627	adenylosuccinate synthetase	1.032 down	1.196 down	1.146 down	1.235 down	1.183 down	1.043 down
PD1628	hypothetical protein	1.071 up	1.046 up	1.220 down	1.121 up	1.139 down	1.276 up
PD1629	integral membrane proteinase	1.003 up	1.026 down	1.060 up	1.022 down	1.064 up	1.088 down
PD1630	HflK protein	1.020 up	1.042 down	1.104 down	1.021 down	1.082 down	1.059 up
PD1631	hypothetical protein	1.161 down	1.012 up	1.106 down	1.147 down	1.284 down	1.119 up
PD1632	regulatory protein pilH family	1.189 down	1.154 up	1.359 down	1.029 down	1.616 down	1.570 up
PD1633	transmembrane signal peptide protein	1.122 up	1.024 up	1.026 up	1.150 up	1.152 up	1.001 down
PD1634	DNA-binding protein	1.019 up	1.163 up	1.098 up	1.186 up	1.120 up	1.059 up
PD1635	prolyl-tRNA synthetase	1.034 up	1.029 up	1.055 down	1.064 up	1.020 down	1.086 up
PD1636	hypothetical protein	1.374 up	1.103 up	1.151 down	1.516 up	1.193 up	1.271 up
PD1637	phosphatidylserine synthase	1.236 down	1.011 down	1.112 down	1.250 down	1.375 down	1.100 up
PD1638	hypothetical protein	1.000 down	1.139 down	1.355 down	1.140 down	1.357 down	1.189 up
PD1639	ribosomal-protein-alanine acetyltransferase	1.095 down	1.280 down	1.004 up	1.402 down	1.090 down	1.286 down
PD1640	beta-glucosidase	1.210 up	1.119 up	1.322 down	1.355 up	1.092 down	1.481 up
PD1641	hypothetical protein	1.144 up	1.200 up	1.019 up	1.373 up	1.166 up	1.178 up
PD1642	dihydroneopterin aldolase	1.034 up	1.047 down	1.024 down	1.012 down	1.009 up	1.021 down

PD1643	O-sialoglycoprotein endopeptidase	1.029 down	1.106 down	1.015 down	1.138 down	1.045 down	1.088 down
PD1644	30S ribosomal protein S21	1.017 up	1.520 up	1.291 up	1.547 up	1.314 up	1.177 up
PD1645	hypothetical protein	1.142 up	1.033 up	1.040 down	1.180 up	1.098 up	1.074 up
PD1646	ribonuclease BN	1.130 down	1.246 up	1.108 up	1.102 up	1.020 down	1.124 up
PD1647	DNA primase	1.002 up	1.349 down	1.107 down	1.346 down	1.104 down	1.219 down
PD1648	hypothetical protein	1.242 up	1.057 up	1.091 up	1.314 up	1.357 up	1.032 down
PD1649	DNA modification methylase	1.027 up	1.112 up	1.120 up	1.142 up	1.151 up	1.007 down
PD1650	tryptophanyl-tRNA synthetase	1.166 up	1.093 down	1.105 down	1.066 up	1.054 up	1.010 up
PD1651	exodeoxyribonuclease V alpha chain	1.347 up	1.031 down	1.097 up	1.306 up	1.477 up	1.131 down
PD1652	exodeoxyribonuclease V beta chain	1.064 up	1.452 down	1.329 down	1.365 down	1.248 down	1.093 down
PD1653	exodeoxyribonuclease V gamma chain	1.022 down	1.142 down	1.099 down	1.168 down	1.123 down	1.039 down
PD1654	toluene tolerance protein	1.045 up	1.068 up	1.059 down	1.116 up	1.014 down	1.132 up
PD1655	toluene tolerance protein	1.160 down	1.125 down	1.019 down	1.305 down	1.183 down	1.103 down
PD1656	toluene tolerance protein	1.202 down	1.014 down	1.034 down	1.219 down	1.243 down	1.019 up
PD1657	toluene tolerance protein	1.028 down	1.021 up	1.142 down	1.006 down	1.174 down	1.166 up
PD1658	hypothetical protein	1.001 down	1.162 down	1.105 up	1.163 down	1.104 up	1.285 down
PD1659	lipoprotein precursor	1.126 down	1.078 down	1.000 up	1.214 down	1.125 down	1.079 down
PD1660	hypothetical protein	1.177 down	1.051 down	1.035 down	1.238 down	1.219 down	1.015 down
PD1661	competence-induced protein	1.093 up	1.399 up	1.006 up	1.530 up	1.100 up	1.390 up
PD1662	nitrate ABC transporter ATP-binding protein	1.060 down	1.045 down	1.000 up	1.108 down	1.059 down	1.046 down

PD1663	ABC transporter nitrate permease	1.134 up	1.079 up	1.131 down	1.225 up	1.002 up	1.221 up
PD1664	amino acid transporter	1.048 down	1.046 down	1.012 up	1.097 down	1.035 down	1.059 down
PD1665	hypothetical protein	1.013 up	1.153 up	1.137 up	1.169 up	1.153 up	1.013 up
PD1666	export protein	1.130 down	1.216 up	1.035 down	1.075 up	1.170 down	1.258 up
PD1667	HesB-like protein	1.260 down	1.164 up	1.005 up	1.082 down	1.253 down	1.157 up
PD1668	hypothetical protein	1.166 down	1.070 down	1.133 down	1.249 down	1.322 down	1.058 up
PD1669	hypothetical protein	1.374 up	1.082 down	1.170 down	1.270 up	1.174 up	1.081 up
PD1670	hypothetical protein	1.054 down	1.168 down	1.026 up	1.232 down	1.027 down	1.199 down
PD1671	two-component, response regulator	1.054 down	1.394 down	1.459 down	1.470 down	1.538 down	1.046 up
PD1672	bacterioferritin	1.206 up	1.118 up	1.029 up	1.349 up	1.241 up	1.087 up
PD1673	bacterioferritin	1.139 down	1.079 down	1.040 down	1.230 down	1.184 down	1.038 down
PD1674	dinucleoside polyphosphate hydrolase	1.166 down	1.355 up	1.655 up	1.161 up	1.418 up	1.221 down
PD1677	S-adenosylmethionine synthetase	1.066 down	1.068 down	1.117 down	1.139 down	1.192 down	1.046 up
PD1678	two-component system, sensor protein	1.129 up	1.077 down	1.006 down	1.048 up	1.122 up	1.071 down
PD1679	two-component system, regulatory protein	1.101 up	1.159 up	1.041 down	1.277 up	1.057 up	1.207 up
PD1680	hypothetical protein	1.196 up	1.071 up	1.050 up	1.282 up	1.256 up	1.020 up
PD1681	hypothetical protein	1.061 down	1.089 up	1.097 up	1.026 up	1.034 up	1.007 down
PD1682	outer membrane hemin receptor	1.158 down	1.049 up	1.122 up	1.104 down	1.032 down	1.069 down
PD1683	hypothetical protein	1.114 up	1.049 up	1.199 down	1.169 up	1.076 down	1.258 up
PD1684	hypothetical protein	1.044 down	1.185 down	1.121 up	1.238 down	1.073 up	1.328 down

PD1685	ATP-dependent Clp protease subunit	1.012 down	1.076 down	1.067 up	1.090 down	1.053 up	1.148 down
PD1686	rubredoxin	1.148 up	1.034 up	1.017 up	1.187 up	1.168 up	1.016 up
PD1687	thiamine-phosphate pyrophosphorylase	1.257 down	1.004 up	1.084 down	1.251 down	1.363 down	1.089 up
PD1688	cytochrome P450-like enzyme	1.045 down	1.074 down	1.002 down	1.123 down	1.048 down	1.071 down
PD1689	inner membrane protein	1.052 down	1.027 up	1.215 down	1.023 down	1.278 down	1.248 up
PD1690	transmembrane protein	1.094 down	1.038 down	1.097 down	1.136 down	1.201 down	1.056 up
PD1691	fimbrial assembly protein	1.144 up	1.134 down	1.083 down	1.008 up	1.056 up	1.047 down
PD1692	fimbrial assembly protein	1.062 up	1.060 up	1.038 down	1.126 up	1.023 up	1.100 up
PD1693	fimbrial assembly membrane protein	1.000 up	1.146 down	1.582 down	1.145 down	1.581 down	1.380 up
PD1694	fimbrial assembly membrane protein	1.441 up	1.013 down	1.143 down	1.421 up	1.260 up	1.128 up
PD1695	fimbrial assembly membrane protein	1.140 up	1.017 down	1.125 up	1.120 up	1.283 up	1.145 down
PD1696	penicillin-binding protein 1A	1.088 down	1.037 down	1.092 down	1.129 down	1.189 down	1.052 up
PD1697	voltage-gated potassium channel beta subunit	1.157 up	1.197 up	1.066 up	1.386 up	1.234 up	1.123 up
PD1698	ribokinase	1.068 up	1.226 down	1.088 down	1.147 down	1.018 down	1.127 down
PD1699	OmpA family protein	1.017 down	1.251 up	1.367 up	1.229 up	1.343 up	1.092 down
PD1700	hypothetical protein	1.611 down	1.108 down	1.039 up	1.786 down	1.551 down	1.151 down
PD1701	replicative DNA helicase	1.090 down	1.037 up	1.005 down	1.051 down	1.096 down	1.042 up
PD1702	hypothetical protein	1.213 up	1.048 up	1.155 up	1.272 up	1.402 up	1.102 down
PD1703	hypothetical protein	1.137 down	1.388 up	1.400 up	1.221 up	1.231 up	1.008 down
PD1704	cytochrome P-450 hydroxylase	1.028 up	1.058 up	1.189 down	1.088 up	1.156 down	1.258 up

PD1705	ATP-dependent DNA helicase	1.029 up	1.326 up	1.237 up	1.366 up	1.274 up	1.071 up
PD1706	translation initiation inhibitor	1.108 down	1.472 down	1.037 up	1.632 down	1.067 down	1.528 down
PD1707	pentaphosphate guanosine-3'-pyrophosphohydrolase	1.163 down	1.164 down	1.049 down	1.355 down	1.220 down	1.110 down
PD1708	glycolate oxidase	1.070 down	1.301 down	1.033 down	1.393 down	1.106 down	1.259 down
PD1709	outer membrane protein	1.228 up	1.155 down	1.241 down	1.063 up	1.010 down	1.074 up
PD1710	disulfide bond formation protein B	1.069 down	1.005 down	1.218 down	1.074 down	1.302 down	1.212 up
PD1711	TonB-dependent receptor	1.053 up	1.211 down	1.028 up	1.149 down	1.083 up	1.246 down
PD1712	hypothetical protein	1.110 up	1.143 down	1.486 down	1.030 down	1.338 down	1.299 up
PD1713	hypothetical protein	1.084 up	1.015 down	1.005 down	1.068 up	1.078 up	1.010 down
PD1714	hypothetical protein	1.185 down	1.159 up	1.171 up	1.022 down	1.011 down	1.010 down
PD1715	hypothetical protein	1.508 down	1.146 up	1.615 up	1.315 down	1.071 up	1.409 down
PD1716	hypothetical protein	1.317 up	1.495 down	1.701 down	1.135 down	1.291 down	1.137 up
PD1717	hypothetical protein	1.078 down	1.170 up	1.052 up	1.085 up	1.024 down	1.111 up
PD1718	hypothetical protein	1.025 up	1.137 down	1.421 down	1.109 down	1.386 down	1.249 up
PD1719	hypothetical protein	1.082 up	1.243 up	1.063 down	1.345 up	1.017 up	1.322 up
PD1720	hypothetical protein	1.289 up	1.051 up	1.262 down	1.355 up	1.021 up	1.327 up
PD1721	hypothetical protein	1.070 down	1.157 down	1.030 up	1.238 down	1.038 down	1.192 down
PD1722	hypothetical protein	1.224 up	1.207 down	1.051 down	1.013 up	1.164 up	1.148 down
PD1723	hypothetical protein	1.002 up	1.276 up	1.064 up	1.280 up	1.067 up	1.199 up
PD1724	hypothetical protein	1.001 up	1.273 up	1.177 up	1.275 up	1.179 up	1.081 up

PD1725	hypothetical protein	1.244 up	1.697 up	1.004 up	2.112 up	1.250 up	1.689 up
PD1726	hypothetical protein	1.080 up	1.342 up	1.198 up	1.450 up	1.294 up	1.120 up
PD1727	phage-related DNA polymerase	1.001 down	1.404 up	1.034 up	1.403 up	1.032 up	1.358 up
PD1728	hypothetical protein	1.033 down	1.555 up	1.185 up	1.504 up	1.146 up	1.311 up
PD1729	hypothetical protein	1.691 up	1.079 up	1.491 up	1.825 up	2.523 up	1.382 down
PD1730	hypothetical protein	1.065 up	1.658 up	1.130 up	1.766 up	1.204 up	1.466 up
PD1731	hypothetical protein	1.039 up	1.382 down	1.380 down	1.329 down	1.327 down	1.001 down
PD1734	excinuclease ABC subunit B	1.006 up	1.024 down	1.079 down	1.017 down	1.072 down	1.054 up
PD1735	type 4 fimbrial biogenesis protein	1.000 up	1.040 down	1.045 down	1.039 down	1.044 down	1.004 up
PD1736	hypothetical protein	1.129 up	1.008 up	1.257 up	1.139 up	1.420 up	1.246 down
PD1737	dihydrodipicolinate synthase	1.052 down	1.191 up	1.040 up	1.132 up	1.010 down	1.144 up
PD1738	transcriptional regulator	1.230 down	1.024 up	1.032 down	1.201 down	1.270 down	1.057 up
PD1739	bacterioferritin comigratory protein	1.013 up	1.086 up	1.063 up	1.102 up	1.078 up	1.022 up
PD1741	hypothetical protein	1.030 up	1.113 down	1.067 down	1.080 down	1.036 down	1.042 down
PD1742	thiamine monophosphate kinase	1.153 down	1.186 up	1.016 up	1.028 up	1.135 down	1.167 up
PD1743	transcription antitermination protein NusB	1.043 up	1.004 down	1.018 up	1.039 up	1.063 up	1.022 down
PD1744	riboflavin synthase subunit beta	1.109 up	1.021 down	1.138 up	1.086 up	1.263 up	1.162 down
PD1745	3,4-dihydroxy-2-butanone 4-phosphate synthase	1.064 down	1.462 down	1.381 down	1.557 down	1.470 down	1.058 down
PD1746	riboflavin synthase subunit alpha	1.255 down	1.032 down	1.070 up	1.297 down	1.172 down	1.106 down
PD1747	riboflavin-specific deaminase	1.116 up	1.075 down	1.178 down	1.037 up	1.055 down	1.095 up

PD1748	hypothetical protein	1.095 up	1.973 up	1.219 up	2.161 up	1.336 up	1.617 up
PD1750	serine hydroxymethyltransferase	1.281 up	1.350 up	1.230 up	1.730 up	1.576 up	1.097 up
PD1751	ABC transporter ATP-binding protein	1.006 down	1.075 up	1.091 up	1.069 up	1.084 up	1.014 down
PD1752	malate:quinone oxidoreductase	1.068 down	1.322 down	1.154 down	1.412 down	1.232 down	1.145 down
PD1753	hypothetical protein	1.018 down	1.125 up	1.020 up	1.105 up	1.002 up	1.102 up
PD1754	hypothetical protein	1.001 up	1.195 up	1.137 up	1.197 up	1.139 up	1.051 up
PD1755	ribosomal large subunit pseudouridine synthase D	1.135 up	1.093 down	1.204 down	1.037 up	1.061 down	1.101 up
PD1756	hypothetical protein	1.154 down	1.206 up	1.295 up	1.045 up	1.121 up	1.073 down
PD1757	hypothetical protein	1.024 down	1.130 up	1.229 up	1.104 up	1.200 up	1.086 down
PD1758	ferrous iron transport protein B	1.172 down	1.008 up	1.037 down	1.163 down	1.216 down	1.046 up
PD1759	ferrous iron transport protein	1.063 down	1.103 up	1.135 up	1.037 up	1.068 up	1.029 down
PD1760	hypothetical protein	1.035 up	1.228 down	1.130 down	1.187 down	1.092 down	1.086 down
PD1761	hypothetical protein	1.028 up	1.020 down	1.025 down	1.008 up	1.003 up	1.004 up
PD1762	methionyl-tRNA formyltransferase	1.110 up	1.038 down	1.298 down	1.069 up	1.169 down	1.249 up
PD1763	peptide deformylase	1.119 down	1.087 up	1.100 down	1.028 down	1.231 down	1.196 up
PD1764	hypothetical protein	1.030 down	1.105 up	1.211 up	1.072 up	1.175 up	1.095 down
PD1765	DNA processing chain A	1.183 down	1.045 down	1.141 down	1.237 down	1.351 down	1.092 up
PD1766	hypothetical protein	1.077 down	1.078 down	1.202 down	1.162 down	1.295 down	1.114 up
PD1767	DNA topoisomerase III	1.066 up	1.098 up	1.110 down	1.170 up	1.041 down	1.219 up
PD1768	hypothetical protein	1.351 down	1.040 down	1.029 down	1.406 down	1.391 down	1.010 down

PD1769	acyl-[ACP]-UDP-N-acetylglucosamine	1.132 down	1.015 down	1.154 up	1.149 down	1.019 up	1.172 down
PD1770	hypothetical protein	1.057 down	1.071 down	1.165 down	1.133 down	1.233 down	1.087 up
PD1771	hypothetical protein	1.307 up	1.026 down	1.243 down	1.273 up	1.050 up	1.211 up
PD1772	tropinone reductase	1.252 down	1.374 down	1.348 up	1.721 down	1.076 up	1.852 down
PD1773	stringent starvation protein B	1.291 up	1.431 down	1.137 down	1.108 down	1.134 up	1.258 down
PD1774	stringent starvation protein A	1.021 down	1.079 down	1.087 down	1.102 down	1.110 down	1.007 up
PD1775	ubiquinol cytochrome C oxidoreductase, cytochrome C1 subunit	1.107 up	1.444 down	1.111 down	1.304 down	1.003 down	1.299 down
PD1776	ubiquinol cytochrome C oxidoreductase, cytochrome B subunit	1.136 down	1.276 up	1.154 up	1.123 up	1.016 up	1.105 up
PD1777	ubiquinol cytochrome C oxidoreductase, iron-sulfur subunit	1.031 down	1.064 up	1.064 down	1.032 up	1.097 down	1.133 up
PD1778	soluble lytic murein transglycosylase precursor	1.081 up	1.017 down	1.110 up	1.063 up	1.201 up	1.129 down
PD1779	hypothetical protein	1.191 down	1.207 down	1.061 down	1.438 down	1.265 down	1.137 down
PD1780	ATP binding protein	1.202 down	1.045 down	1.007 up	1.257 down	1.193 down	1.053 down
PD1781	hypothetical protein	1.063 up	1.041 up	1.042 down	1.107 up	1.020 up	1.085 up
PD1782	hypothetical protein	1.022 up	1.189 down	1.632 down	1.163 down	1.597 down	1.372 up
PD1783	magnesium and cobalt efflux protein	1.214 down	1.042 down	1.145 down	1.265 down	1.390 down	1.098 up
PD1784	hypothetical protein	1.169 down	1.223 down	1.106 down	1.430 down	1.294 down	1.105 down
PD1785	magnesium and cobalt transport protein	1.003 up	1.102 down	1.223 down	1.098 down	1.220 down	1.110 up
PD1786	hypothetical protein	1.071 down	1.190 down	1.306 down	1.275 down	1.400 down	1.098 up
PD1787	hypothetical protein	1.310 up	1.146 up	1.034 up	1.502 up	1.355 up	1.108 up

PD1788	hypothetical protein	1.181 up	1.154 up	1.004 up	1.363 up	1.186 up	1.149 up
PD1789	hypothetical protein	1.204 down	1.067 up	1.390 up	1.128 down	1.154 up	1.302 down
PD1790	hypothetical protein	1.143 down	1.217 down	1.197 up	1.392 down	1.046 up	1.457 down
PD1791	hypothetical protein	1.331 up	1.031 down	1.132 down	1.290 up	1.175 up	1.097 up
PD1792	hemagglutinin-like protein	1.098 up	1.542 up	1.431 up	1.693 up	1.571 up	1.077 up
PD1793	mannosyltransferase	1.055 up	1.453 down	1.048 up	1.377 down	1.106 up	1.524 down
PD1794	hypothetical protein	1.048 up	1.066 up	1.336 down	1.118 up	1.273 down	1.424 up
PD1795	sugar transferase	1.124 up	1.047 up	1.080 down	1.177 up	1.040 up	1.131 up
PD1796	penicillin-binding protein 1B	1.160 up	1.213 down	1.324 down	1.045 down	1.141 down	1.091 up
PD1797	hypothetical protein	1.045 down	1.390 down	1.288 down	1.453 down	1.346 down	1.079 down
PD1798	ATP-dependent helicase	1.089 up	1.125 down	1.139 down	1.033 down	1.046 down	1.012 up
PD1799	peptidase	1.222 up	1.309 down	1.226 down	1.070 down	1.003 down	1.066 down
PD1800	carbonic anhydrase	1.219 up	1.020 up	1.038 up	1.244 up	1.266 up	1.017 down
PD1801	lipopolysaccharide biosynthesis protein	1.140 down	1.269 up	1.170 up	1.112 up	1.026 up	1.084 up
PD1802	hypothetical protein	1.002 down	1.083 up	1.074 up	1.080 up	1.071 up	1.008 up
PD1803	hypothetical protein	1.279 down	1.233 down	1.076 down	1.578 down	1.377 down	1.145 down
PD1804	ABC transporter ATP-binding protein	1.012 up	1.097 up	1.083 down	1.111 up	1.070 down	1.189 up
PD1805	ABC transporter permease protein	1.034 up	1.049 up	1.072 up	1.085 up	1.109 up	1.022 down
PD1806	membrane protein	1.015 down	1.222 down	1.288 down	1.241 down	1.307 down	1.053 up
PD1807	outer membrane protein	1.252 up	1.004 down	1.239 up	1.247 up	1.552 up	1.244 down

PD1808	hypothetical protein	1.020 down	1.101 down	1.211 up	1.123 down	1.187 up	1.334 down
PD1809	dihydrolipoamide acetyltransferase	1.060 down	1.475 down	1.323 down	1.565 down	1.404 down	1.114 down
PD1810	dihydrolipoamide dehydrogenase	1.010 up	1.007 up	1.301 down	1.018 up	1.287 down	1.311 up
PD1811	cobalt-zinc-cadmium resistance protein	1.153 up	1.137 down	1.249 up	1.014 up	1.441 up	1.421 down
PD1812	cystathionine gamma-synthase	1.419 up	1.227 down	1.031 down	1.156 up	1.376 up	1.189 down
PD1813	homoserine O-acetyltransferase	1.025 up	1.451 up	1.150 down	1.488 up	1.121 down	1.668 up
PD1814	peptidase	1.129 down	1.193 up	1.231 up	1.057 up	1.090 up	1.031 down
PD1815	hypothetical protein	1.376 up	1.268 up	1.178 up	1.745 up	1.621 up	1.076 up
PD1816	hypothetical protein	1.123 down	1.246 up	1.136 up	1.108 up	1.011 up	1.096 up
PD1817	acid phosphatase	1.165 down	1.233 down	1.127 down	1.437 down	1.313 down	1.094 down
PD1818	L-isoaspartate O-methyltransferase	1.353 down	1.323 up	1.037 up	1.022 down	1.305 down	1.276 up
PD1819	lipoprotein	1.109 down	1.435 up	1.442 up	1.294 up	1.300 up	1.004 down
PD1820	lipoprotein	1.060 up	1.036 down	1.126 down	1.022 up	1.062 down	1.086 up
PD1822	histidine kinase/response regulator hybrid protein	1.056 up	1.036 down	1.123 up	1.019 up	1.186 up	1.163 down
PD1823	alanine racemase	1.011 down	1.053 up	1.094 up	1.041 up	1.081 up	1.038 down
PD1824	D-amino acid dehydrogenase small subunit	1.061 up	1.283 down	1.285 down	1.209 down	1.211 down	1.001 up
PD1825	methionine sulfoxide reductase B	1.152 down	1.353 down	1.121 down	1.559 down	1.292 down	1.206 down
PD1826	hypothetical protein	1.032 up	1.218 down	1.125 down	1.179 down	1.089 down	1.082 down
PD1827	beta-hexosaminidase precursor	1.114 down	1.379 down	1.579 down	1.537 down	1.760 down	1.145 up
PD1828	beta-mannosidase precursor	1.299 down	1.241 up	1.093 up	1.046 down	1.187 down	1.134 up

PD1829	family 3 glycoside hydrolase	1.225 down	1.007 up	1.141 up	1.216 down	1.073 down	1.133 down
PD1831	hypothetical protein	1.019 up	1.235 up	1.020 up	1.258 up	1.039 up	1.210 up
PD1832	antigen	1.081 down	1.040 up	1.034 up	1.039 down	1.046 down	1.006 up
PD1833	beta-galactosidase	1.087 up	1.102 up	1.148 up	1.198 up	1.248 up	1.041 down
PD1834	4-hydroxythreonine-4-phosphate dehydrogenase	1.079 up	1.323 down	1.348 down	1.226 down	1.249 down	1.018 up
PD1835	peptidyl-prolyl cis-trans isomerase	1.033 down	1.168 up	1.153 down	1.130 up	1.192 down	1.348 up
PD1836	organic solvent tolerance protein precursor	1.055 up	1.396 down	1.202 down	1.323 down	1.139 down	1.161 down
PD1837	2-octaprenyl-6-methoxyphenyl hydroxylase	1.220 down	1.109 up	1.095 up	1.100 down	1.113 down	1.012 up
PD1838	hypothetical protein	1.181 down	1.173 up	1.340 up	1.007 down	1.134 up	1.142 down
PD1839	transcriptional regulator LysR family	1.077 down	1.202 up	1.210 up	1.115 up	1.123 up	1.006 down
PD1840	siroheme synthase	1.050 up	1.250 down	1.100 down	1.191 down	1.048 down	1.136 down
PD1841	cysteine synthase	1.288 down	1.036 up	1.180 up	1.243 down	1.092 down	1.138 down
PD1842	hypothetical protein	1.268 down	1.113 down	1.122 up	1.412 down	1.129 down	1.249 down
PD1843	hypothetical protein	1.018 up	1.238 down	1.116 down	1.216 down	1.096 down	1.109 down
PD1844	hypothetical protein	1.030 down	1.005 up	1.152 up	1.024 down	1.118 up	1.145 down
PD1845	fructose-bisphosphate aldolase	1.057 up	1.250 up	1.091 down	1.322 up	1.032 down	1.364 up
PD1846	pyruvate kinase	1.065 down	1.131 up	1.120 up	1.061 up	1.051 up	1.009 up
PD1847	phosphoglycerate kinase	1.179 up	1.040 down	1.145 up	1.133 up	1.351 up	1.191 down
PD1848	glutamyl-tRNA synthetase	1.084 down	1.295 up	1.086 up	1.194 up	1.001 up	1.192 up
PD1849	transcriptional regulator Fur family	1.102 down	1.416 down	1.214 down	1.561 down	1.339 down	1.166 down

PD1850	peptidase (M20/M25/M40 family)	1.167 up	1.085 down	1.138 down	1.075 up	1.025 up	1.048 up
PD1851	endo-1,4-beta-glucanase	1.113 up	1.180 up	1.016 down	1.314 up	1.095 up	1.200 up
PD1852	hypothetical protein	1.238 up	1.365 down	1.048 down	1.102 down	1.181 up	1.302 down
PD1853	zinc protease	1.159 down	1.136 up	1.010 up	1.020 down	1.147 down	1.124 up
PD1854	hypothetical protein	1.018 down	1.392 down	1.066 down	1.418 down	1.086 down	1.305 down
PD1855	hypothetical protein	1.134 up	1.023 down	1.064 up	1.108 up	1.207 up	1.089 down
PD1856	extracellular endoglucanase precursor	1.144 down	1.022 down	1.040 up	1.170 down	1.099 down	1.063 down
PD1857	translocase	1.095 up	1.303 down	1.390 down	1.189 down	1.269 down	1.067 up
PD1858	peptidase	1.096 up	1.216 up	1.008 up	1.334 up	1.106 up	1.206 up
PD1859	hypothetical protein	1.087 down	1.047 down	1.129 up	1.139 down	1.038 up	1.182 down
PD1860	UDP-3-O-[3-hydroxymyristoyl] N-acetylglucosamine deacetylase	1.045 down	1.119 up	1.040 up	1.070 up	1.004 down	1.075 up
PD1861	cell division protein FtsZ	1.048 up	1.056 up	1.180 down	1.107 up	1.126 down	1.247 up
PD1862	cell division protein	1.008 up	1.187 up	1.004 down	1.197 up	1.003 up	1.193 up
PD1863	cell division protein	1.356 down	1.341 up	1.043 down	1.010 down	1.414 down	1.400 up
PD1864	D-alanylalanine synthetase	1.141 up	1.013 down	1.143 down	1.126 up	1.001 down	1.128 up
PD1865	UDP-N-acetylmuramate--L-alanine ligase	1.293 up	1.088 up	1.113 down	1.407 up	1.161 up	1.211 up
PD1866	N-acetylglucosaminyl transferase	1.256 down	1.026 down	1.004 up	1.290 down	1.250 down	1.031 down
PD1867	cell division protein	1.134 down	1.130 up	1.001 up	1.004 down	1.133 down	1.128 up
PD1868	phospho-N-acetylmuramoyl-pentapeptide-transferase	1.094 up	1.085 up	1.022 down	1.187 up	1.070 up	1.109 up
PD1869	UDP-N-acetylmuramoylalanyl-D-glutamyl-2, 6-diaminopimelate--D-alanyl-D-alanyl ligase	1.100 up	1.257 up	1.204 up	1.384 up	1.325 up	1.044 up

PD1870	UDP-N-acetylmuramoylalanyl-D-glutamate--2, 6-diaminopimelate ligase	1.053 down	1.193 down	1.104 down	1.256 down	1.162 down	1.080 down
PD1871	penicillin-binding protein 3	1.031 down	1.403 down	1.008 down	1.447 down	1.039 down	1.391 down
PD1872	cell division protein	1.073 down	1.036 down	1.014 down	1.112 down	1.089 down	1.021 down
PD1873	S-adenosyl-methyltransferase	1.334 down	1.237 up	1.178 up	1.078 down	1.132 down	1.049 up
PD1874	hypothetical protein	1.178 up	1.015 up	1.017 down	1.196 up	1.158 up	1.032 up
PD1875	sulfur deprivation response regulator	1.111 up	1.065 up	1.300 down	1.184 up	1.170 down	1.385 up
PD1876	tRNA (guanine-N(7)-)-methyltransferase	1.154 down	1.020 up	1.176 up	1.131 down	1.018 up	1.152 down
PD1877	thiazole synthase	1.011 up	1.182 up	1.056 down	1.196 up	1.044 down	1.249 up
PD1878	hypothetical protein	1.215 down	1.107 down	1.125 down	1.345 down	1.367 down	1.016 up
PD1879	lipase/esterase	1.125 up	1.019 up	1.014 down	1.147 up	1.108 up	1.034 up
PD1881	phosphotransferase	1.070 up	1.007 down	1.054 up	1.063 up	1.129 up	1.062 down
PD1882	membrane protein	1.165 down	1.032 up	1.048 down	1.128 down	1.221 down	1.082 up
PD1883	fatty acyl-CoA synthetase	1.192 down	1.117 up	1.056 down	1.067 down	1.259 down	1.180 up
PD1884	acyltransferase	1.099 down	1.167 up	1.075 down	1.061 up	1.182 down	1.255 up
PD1885	dehydratase	1.025 up	1.188 up	1.187 up	1.218 up	1.217 up	none
PD1886	hypothetical protein	1.051 up	1.129 down	1.047 up	1.073 down	1.102 up	1.183 down
PD1887	acyl carrier protein	1.034 up	1.533 up	1.158 up	1.585 up	1.197 up	1.323 up
PD1888	hypothetical protein	1.029 down	1.001 up	1.133 up	1.028 down	1.101 up	1.132 down
PD1889	pteridine-dependent deoxygenase	1.150 down	1.266 up	1.138 up	1.100 up	1.010 down	1.112 up
PD1890	hypothetical protein	1.110 up	1.128 down	1.203 down	1.016 down	1.083 down	1.065 up

PD1891	transcriptional regulator ArsR family	1.040 up	1.011 up	1.250 up	1.051 up	1.300 up	1.236 down
PD1892	hypothetical protein	1.020 down	1.227 down	1.163 down	1.252 down	1.187 down	1.054 down
PD1893	hypothetical protein	1.530 down	1.075 up	1.387 up	1.424 down	1.103 down	1.290 down
PD1894	membrane protein	1.211 up	1.055 down	1.089 down	1.147 up	1.111 up	1.032 up
PD1895	deoxycytidine triphosphate deaminase	1.064 down	1.257 down	1.293 down	1.338 down	1.376 down	1.028 up
PD1896	hypothetical protein	1.119 up	1.086 down	1.020 down	1.029 up	1.097 up	1.065 down
PD1897	DNA mismatch repair protein	1.177 up	1.145 up	1.090 up	1.349 up	1.283 up	1.050 up
PD1898	N-acetylmuramoyl-L-alanine amidase precursor	1.080 down	1.019 down	1.028 down	1.100 down	1.110 down	1.009 up
PD1899	hypothetical protein	1.058 up	1.014 up	1.119 up	1.073 up	1.184 up	1.103 down
PD1900	hypothetical protein	1.136 up	1.076 down	1.047 up	1.056 up	1.190 up	1.127 down
PD1901	exodeoxyribonuclease VII large subunit	1.062 up	1.022 down	1.088 down	1.039 up	1.024 down	1.065 up
PD1902	virulence protein	1.096 down	1.280 up	1.008 up	1.168 up	1.087 down	1.270 up
PD1903	hypothetical protein	1.104 up	1.140 down	1.048 down	1.031 down	1.053 up	1.087 down
PD1904	ribonuclease D	1.147 up	1.091 up	1.039 down	1.252 up	1.103 up	1.135 up
PD1905	virulence regulator	1.038 down	1.059 down	1.286 down	1.100 down	1.336 down	1.214 up
PD1906	hypothetical protein	1.107 down	1.145 down	1.072 down	1.268 down	1.188 down	1.067 down
PD1907	hypothetical protein	1.217 up	1.023 down	1.144 down	1.189 up	1.064 up	1.118 up
PD1909	transcription regulator protein	1.025 down	1.015 up	1.012 up	1.010 down	1.013 down	1.002 up
PD1910	integration host factor alpha subunit	1.181 up	1.051 up	1.034 down	1.242 up	1.142 up	1.088 up
PD1911	phenylalanyl-tRNA synthetase beta subunit	1.054 down	1.040 down	1.238 up	1.097 down	1.174 up	1.289 down

PD1912	phenylalanyl-tRNA synthetase alpha subunit	1.105 up	1.056 up	1.208 down	1.167 up	1.093 down	1.276 up
PD1913	50S ribosomal protein L20	1.055 up	1.047 up	1.139 up	1.105 up	1.203 up	1.087 down
PD1914	50S ribosomal protein L35	1.003 up	1.289 down	1.210 up	1.284 down	1.214 up	1.560 down
PD1915	translation initiation factor IF-3	1.103 up	1.125 up	1.235 down	1.242 up	1.119 down	1.390 up
PD1916	threonyl-tRNA synthetase	1.102 up	1.013 up	1.052 up	1.117 up	1.160 up	1.038 down
PD1917	hypothetical protein	1.035 up	1.006 down	1.131 up	1.028 up	1.171 up	1.138 down
PD1918	ribosomal protein S6 modification protein	1.019 up	1.003 down	1.171 down	1.016 up	1.149 down	1.167 up
PD1919	two-component system, regulatory protein	1.004 down	1.158 up	1.144 up	1.153 up	1.139 up	1.012 up
PD1920	two-component system, sensor protein	1.209 up	1.029 down	1.083 up	1.175 up	1.309 up	1.114 down
PD1921	dephospho-CoA kinase	1.109 down	1.054 up	1.010 down	1.052 down	1.121 down	1.065 up
PD1922	pre-pilin leader peptidase	1.247 down	1.153 up	1.081 up	1.081 down	1.153 down	1.066 up
PD1923	fimbrial assembly protein	1.250 up	1.046 up	1.297 down	1.308 up	1.037 down	1.357 up
PD1924	fimbrial protein	1.270 up	1.641 up	1.026 up	2.084 up	1.304 up	1.598 up
PD1925	hypothetical protein	1.040 down	1.177 down	1.000 up	1.225 down	1.039 down	1.178 down
PD1926	fimbrial protein	1.405 up	1.458 up	1.628 up	2.049 up	2.288 up	1.116 down
PD1927	pilus biogenesis protein	1.053 down	1.004 up	1.093 down	1.049 down	1.152 down	1.098 up
PD1928	two-component system, regulatory protein	1.107 down	1.105 up	1.062 down	1.002 down	1.177 down	1.174 up
PD1929	two-component system, sensor protein	1.000 down	1.086 up	1.076 up	1.085 up	1.075 up	1.009 up
PD1930	succinyl-CoA synthetase subunit beta	1.250 up	1.038 down	1.157 down	1.204 up	1.080 up	1.114 up
PD1931	succinyl-CoA synthetase alpha subunit	1.015 down	1.088 up	1.257 down	1.071 up	1.277 down	1.368 up

PD1932	hypothetical protein	1.128 up	1.031 up	1.035 down	1.163 up	1.089 up	1.068 up
PD1933	hemolysin activation protein	1.015 down	1.034 up	1.068 up	1.018 up	1.052 up	1.032 down
PD1934	hypothetical protein	1.096 down	1.185 down	1.154 down	1.299 down	1.265 down	1.026 down
PD1935	DNA gyrase subunit A	1.044 down	1.493 down	1.289 down	1.559 down	1.346 down	1.157 down
PD1936	translation initiation factor IF-2B subunit alpha	1.050 down	1.287 up	1.198 up	1.225 up	1.140 up	1.074 up
PD1937	hypothetical protein	1.022 up	1.136 up	1.116 down	1.161 up	1.091 down	1.268 up
PD1938	lysyl-tRNA synthetase	1.078 down	1.487 down	1.241 down	1.604 down	1.339 down	1.198 down
PD1939	N-acetyltransferase	1.063 down	1.109 down	1.089 down	1.179 down	1.158 down	1.018 down
PD1940	DNA ligase	1.084 up	1.203 down	1.468 down	1.109 down	1.354 down	1.220 up
PD1941	cell division protein ZipA	1.126 down	1.060 up	1.050 down	1.061 down	1.183 down	1.114 up
PD1942	chromosome segregation protein	1.138 down	1.049 up	1.125 up	1.084 down	1.011 down	1.072 down
PD1943	50S ribosomal protein L9	1.176 up	1.144 down	1.066 up	1.028 up	1.255 up	1.220 down
PD1944	30S ribosomal protein S18	1.113 up	1.237 down	1.365 down	1.111 down	1.225 down	1.103 up
PD1945	30S ribosomal protein S6	1.019 up	1.132 up	1.235 up	1.154 up	1.259 up	1.090 down
PD1946	hypothetical protein	1.070 up	1.051 down	1.098 down	1.018 up	1.025 down	1.044 up
PD1947	asparaginyl-tRNA synthetase	1.061 down	1.061 up	1.008 down	none	1.070 down	1.070 up
PD1948	hypothetical protein	1.101 up	1.024 up	1.053 down	1.128 up	1.045 up	1.079 up
PD1949	ABC transporter permease protein	1.082 up	1.028 down	1.042 down	1.052 up	1.038 up	1.014 up
PD1950	ABC transporter ATP-binding protein	1.006 up	1.164 down	1.017 up	1.156 down	1.023 up	1.184 down
PD1951	hypothetical protein	1.091 down	1.090 up	1.009 up	1.000 down	1.080 down	1.079 up

PD1952	dihydroorotate dehydrogenase	1.131 down	1.215 down	1.189 down	1.375 down	1.346 down	1.021 down
PD1953	UDP-N-acetylenolpyruvoylglucosamine reductase	1.165 down	1.057 up	1.049 up	1.101 down	1.110 down	1.007 up
PD1954	hypothetical protein	1.097 down	1.388 down	1.195 down	1.523 down	1.311 down	1.161 down
PD1955	phosphatidylglycerophosphatase B	1.413 down	1.298 up	1.245 up	1.088 down	1.134 down	1.042 up
PD1956	4-hydroxy-3-methylbut-2-en-1-yl diphosphate synthase	1.101 up	1.010 down	1.232 down	1.089 up	1.119 down	1.220 up
PD1957	two-component system, sensor protein	1.163 up	1.134 down	1.116 down	1.025 up	1.041 up	1.015 down
PD1958	two-component system, regulatory protein	1.165 down	1.112 down	1.150 up	1.296 down	1.013 down	1.279 down
PD1959	elongation factor Ts	1.042 up	1.092 up	1.062 down	1.138 up	1.019 down	1.160 up
PD1960	30S ribosomal protein S2	1.453 up	1.064 up	1.301 down	1.547 up	1.116 up	1.386 up
PD1962	ABC transporter ATP-binding protein	1.109 down	1.183 up	1.152 up	1.066 up	1.039 up	1.026 up
PD1963	protein-L-isoaspartate O-methyltransferase	1.081 down	1.099 down	1.211 down	1.189 down	1.310 down	1.101 up
PD1964	outer membrane export factor	1.151 down	1.017 down	1.127 up	1.171 down	1.021 down	1.147 down
PD1965	UDP-2,3-diacetylglucosamine hydrolase	1.013 down	1.007 up	1.216 up	1.005 down	1.200 up	1.207 down
PD1966	hypothetical protein	1.015 down	1.040 down	1.383 down	1.056 down	1.404 down	1.329 up
PD1967	exopolyphosphatase	1.161 down	1.066 down	1.195 down	1.239 down	1.389 down	1.120 up
PD1968	polyphosphate kinase	1.104 up	1.025 down	1.493 down	1.077 up	1.352 down	1.457 up
PD1969	two-component system, sensor protein	1.225 down	1.020 up	1.249 up	1.201 down	1.019 up	1.224 down
PD1970	two-component system, regulatory protein	1.043 up	1.026 down	1.016 up	1.017 up	1.060 up	1.042 down
PD1971	protease	1.035 up	1.118 up	1.096 down	1.158 up	1.058 down	1.225 up
PD1972	glutaredoxin	1.002 up	1.286 down	1.013 up	1.282 down	1.016 up	1.303 down

PD1973	isocitrate dehydrogenase	1.072 up	1.049 down	1.175 down	1.021 up	1.095 down	1.119 up
PD1974	hypothetical protein	1.082 up	1.234 up	1.147 down	1.336 up	1.060 down	1.416 up
PD1975	6-O-methylguanine-DNA methyltransferase	1.073 down	1.157 up	1.142 up	1.078 up	1.064 up	1.012 up
PD1976	phosphodiesterase-nucleotide pyrophosphatase precursor	1.179 down	1.080 down	1.225 up	1.274 down	1.038 up	1.323 down
PD1977	ferredoxin	1.237 down	1.032 down	1.177 up	1.278 down	1.051 down	1.215 down
PD1978	hypothetical protein	1.067 down	1.374 up	1.218 up	1.287 up	1.141 up	1.127 up
PD1979	hypothetical protein	1.089 down	1.072 up	1.003 up	1.015 down	1.085 down	1.068 up
PD1980	pterin-4-alpha-carbinolamine dehydratase	1.150 down	1.552 down	1.345 down	1.785 down	1.547 down	1.153 down
PD1981	TonB protein	1.183 down	1.418 up	1.186 down	1.198 up	1.404 down	1.683 up
PD1982	pseudouridylate synthase	1.005 up	1.056 up	1.104 up	1.062 up	1.111 up	1.045 down
PD1983	ribonuclease E	1.100 down	1.121 up	1.109 down	1.018 up	1.221 down	1.244 up
PD1984	transcriptional regulator	1.178 up	1.249 up	1.026 up	1.472 up	1.209 up	1.217 up
PD1985	hypothetical protein	1.110 up	1.290 down	1.128 up	1.162 down	1.253 up	1.456 down
PD1986	response regulator	1.072 down	1.220 up	1.034 down	1.138 up	1.109 down	1.263 up
PD1987	hypothetical protein	1.968 down	1.107 up	1.111 up	1.778 down	1.771 down	1.003 down
PD1988	superoxide dismutase	1.263 up	1.075 up	1.209 down	1.359 up	1.044 up	1.301 up
PD1989	ribonuclease	1.186 up	1.015 up	1.152 up	1.205 up	1.367 up	1.134 down
PD1990	hypothetical protein	1.167 down	1.200 up	1.008 up	1.028 up	1.157 down	1.190 up
PD1991	ABC transporter ATP-binding protein	1.194 down	1.064 up	1.004 up	1.122 down	1.189 down	1.059 up
PD1992	hypothetical protein	1.113 up	1.254 up	1.015 up	1.396 up	1.130 up	1.234 up

PD1993	temperature acclimation protein B	1.031 up	2.389 up	1.424 up	2.465 up	1.468 up	1.678 up
PD1994	hypothetical protein	1.100 down	1.116 down	1.067 up	1.228 down	1.030 down	1.192 down
PD1995	heat shock protein HtpX	1.028 up	1.335 down	1.171 down	1.298 down	1.138 down	1.140 down
PD1996	elongation factor Tu	1.036 down	1.400 up	1.096 down	1.351 up	1.135 down	1.535 up
PD1997	elongation factor EF-2	1.003 up	1.181 down	1.092 down	1.177 down	1.088 down	1.081 down
PD1998	30S ribosomal protein S7	1.181 down	1.135 up	1.308 up	1.040 down	1.107 up	1.152 down
PD1999	30S ribosomal protein S12	1.074 down	1.069 up	1.198 up	1.004 down	1.116 up	1.120 down
PD2000	DNA-directed RNA polymerase beta' subunit	1.364 up	1.289 down	1.296 down	1.058 up	1.052 up	1.005 up
PD2001	DNA-directed RNA polymerase beta subunit	1.127 down	1.154 up	1.177 up	1.023 up	1.044 up	1.019 down
PD2002	50S ribosomal protein L7/L12	1.013 up	1.090 up	1.067 up	1.106 up	1.082 up	1.022 up
PD2003	50S ribosomal protein L10	1.095 down	1.208 up	1.067 down	1.103 up	1.168 down	1.289 up
PD2004	50S ribosomal protein L1	1.022 up	1.048 up	1.035 up	1.071 up	1.058 up	1.012 up
PD2005	50S ribosomal protein L11	1.332 up	1.016 down	1.279 up	1.311 up	1.705 up	1.300 down
PD2006	transcription antitermination protein NusG	1.107 up	1.133 down	1.206 down	1.023 down	1.089 down	1.064 up
PD2007	translocase	1.408 up	1.071 down	1.340 down	1.314 up	1.050 up	1.250 up
PD2009	elongation factor Tu	1.165 down	1.545 up	1.271 up	1.325 up	1.090 up	1.216 up
PD2013	GTP-binding protein	1.081 up	1.081 up	1.178 down	1.169 up	1.089 down	1.274 up
PD2014	peptidyl-tRNA hydrolase	1.083 up	1.064 down	1.075 up	1.018 up	1.165 up	1.144 down
PD2015	50S ribosomal protein L25	1.059 up	1.003 down	1.081 up	1.056 up	1.145 up	1.084 down
PD2016	ribose-phosphate pyrophosphokinase	1.294 down	1.253 down	1.036 up	1.622 down	1.249 down	1.299 down

PD2018	4-diphosphocytidyl-2-C-methyl-D-erythritol kinase	1.119 up	1.151 up	1.096 down	1.288 up	1.020 up	1.262 up
PD2019	outer membrane lipoprotein LolB precursor	1.027 up	1.235 up	1.173 up	1.269 up	1.206 up	1.052 up
PD2020	hypothetical protein	1.083 up	1.283 up	1.295 up	1.390 up	1.403 up	1.009 down
PD2021	glutamyl-tRNA reductase	1.090 up	1.032 up	1.167 down	1.126 up	1.070 down	1.205 up
PD2022	peptide chain release factor 1	1.194 down	1.141 down	1.113 down	1.362 down	1.329 down	1.024 down
PD2023	hypothetical protein	1.093 up	1.009 up	1.084 down	1.104 up	1.008 up	1.094 up
PD2024	hypothetical protein	1.032 up	1.221 up	1.025 down	1.261 up	1.007 up	1.252 up
PD2025	hypothetical protein	1.251 down	1.073 down	1.262 down	1.343 down	1.580 down	1.176 up
PD2026	hypothetical protein	1.230 down	1.139 down	1.559 down	1.402 down	1.919 down	1.368 up
PD2027	hypothetical protein	1.005 down	1.002 down	1.422 down	1.008 down	1.431 down	1.419 up
PD2028	hypothetical protein	1.258 up	1.106 up	1.007 up	1.392 up	1.267 up	1.098 up
PD2029	hypothetical protein	1.175 down	1.083 up	1.179 up	1.084 down	1.002 up	1.088 down
PD2030	hypothetical protein	1.099 up	1.220 up	1.232 up	1.341 up	1.355 up	1.010 down
PD2031	hypothetical protein	1.051 up	1.044 up	1.036 down	1.098 up	1.014 up	1.082 up
PD2032	hypothetical protein	1.710 up	1.222 down	1.257 down	1.398 up	1.360 up	1.028 up
PD2033	hypothetical protein	1.009 up	1.067 up	1.096 up	1.078 up	1.107 up	1.026 down
PD2034	hypothetical protein	1.269 down	1.063 up	1.205 up	1.194 down	1.053 down	1.133 down
PD2035	phosphoribosylaminoimidazole carboxylase	1.026 down	1.191 down	1.310 down	1.222 down	1.344 down	1.100 up
PD2036	phosphoribosylaminoimidazole carboxylase catalytic subunit	1.004 down	1.167 up	1.199 up	1.161 up	1.193 up	1.026 down
PD2037	hypothetical protein	1.104 up	1.062 down	1.004 down	1.039 up	1.098 up	1.057 down

PD2038	hypothetical protein	1.099 down	1.232 up	1.330 up	1.120 up	1.210 up	1.079 down
PD2039	oxidoreductase	1.020 down	1.056 down	1.062 up	1.077 down	1.040 up	1.121 down
PD2040	virulence protein	1.206 up	1.057 up	1.364 down	1.276 up	1.130 down	1.443 up
PD2041	ATP-dependent DNA helicase/DNA helicase II	1.057 up	1.337 up	1.138 up	1.413 up	1.203 up	1.174 up
PD2042	periplasmic glucan biosynthesis protein	1.080 up	1.061 up	1.090 down	1.146 up	1.009 down	1.157 up
PD2043	protease IV	1.221 up	1.309 up	1.115 up	1.600 up	1.363 up	1.173 up
PD2044	multidrug efflux protein NorA	1.041 up	1.008 up	1.071 down	1.050 up	1.028 down	1.080 up
PD2045	hypothetical protein	1.163 up	1.047 down	1.353 down	1.110 up	1.164 down	1.292 up
PD2046	hypothetical protein	1.169 down	1.001 up	1.126 down	1.167 down	1.317 down	1.128 up
PD2047	primosome assembly protein PriA	1.094 down	1.023 down	1.015 up	1.119 down	1.077 down	1.038 down
PD2048	RNA polymerase sigma factor	1.140 up	1.009 up	1.109 down	1.151 up	1.027 up	1.121 up
PD2049	uracil-DNA glycosylase	1.117 up	1.062 down	1.241 down	1.052 up	1.110 down	1.168 up
PD2050	two-component hybrid sensor and regulator	1.202 down	1.082 down	1.191 up	1.301 down	1.009 down	1.289 down
PD2051	cell division protein	1.342 up	1.027 down	1.125 down	1.306 up	1.193 up	1.095 up
PD2052	ABC transporter ATP-binding protein	1.053 down	1.079 down	1.056 down	1.137 down	1.112 down	1.022 down
PD2053	ATP-dependent RNA helicase	1.187 up	1.409 up	1.023 up	1.673 up	1.215 up	1.376 up
PD2054	thioredoxin	1.263 down	1.014 up	1.377 up	1.245 down	1.090 up	1.357 down
PD2055	transcription termination factor Rho	1.017 up	1.244 down	1.081 down	1.223 down	1.063 down	1.150 down
PD2056	isocitrate dehydrogenase	1.076 up	1.217 up	1.092 up	1.310 up	1.176 up	1.114 up
PD2057	carboxyl-terminal protease	1.170 up	1.028 down	1.381 up	1.138 up	1.617 up	1.420 down

PD2058	hypothetical protein	none	1.383 up	1.021 up	1.382 up	1.021 up	1.354 up
PD2059	peptidase	1.086 up	1.102 down	1.324 down	1.015 down	1.219 down	1.200 up
PD2060	hypothetical protein	1.015 up	1.149 up	1.054 up	1.166 up	1.070 up	1.089 up
PD2061	endo-1,4-beta-glucanase	1.091 down	1.107 up	1.070 down	1.014 up	1.168 down	1.185 up
PD2062	glutamate synthase, beta subunit	1.028 up	1.172 up	1.195 up	1.205 up	1.229 up	1.019 down
PD2063	glutamate synthase, alpha subunit	1.203 up	1.114 down	1.322 down	1.079 up	1.099 down	1.186 up
PD2064	pyrroline-5-carboxylate reductase	1.209 down	1.004 up	1.169 down	1.203 down	1.415 down	1.175 up
PD2065	tonB-dependent receptor	1.061 up	1.215 down	1.187 down	1.144 down	1.118 down	1.023 down
PD2066	alpha-L-fucosidase	1.200 down	1.096 down	1.005 down	1.315 down	1.207 down	1.089 down
PD2068	hypothetical protein	1.167 up	1.101 up	1.109 up	1.285 up	1.295 up	1.007 down
PD2069	hypothetical protein	1.061 up	1.030 up	1.073 down	1.093 up	1.012 down	1.106 up
PD2070	type I restriction-modification system endonuclease	1.119 up	1.006 down	1.057 down	1.112 up	1.058 up	1.051 up
PD2071	type I restriction-modification system specificity determinant	1.062 down	1.071 down	1.123 up	1.138 down	1.056 up	1.203 down
PD2072	type I restriction-modification system DNA methylase	1.122 up	1.287 down	1.018 up	1.147 down	1.143 up	1.311 down
PD2073	hypothetical protein	1.017 down	1.065 down	1.027 up	1.083 down	1.010 up	1.094 down
PD2074	type I restriction-modification system endonuclease	1.078 up	1.058 up	1.097 up	1.141 up	1.183 up	1.036 down
PD2075	type I restriction-modification system specificity determinant	1.033 up	1.112 down	1.117 down	1.076 down	1.081 down	1.004 up
PD2076	type I restriction-modification system DNA methylase	1.208 down	1.225 up	1.146 up	1.013 up	1.054 down	1.068 up
PD2077	amino acid transporter	1.043 up	1.118 down	1.190 down	1.072 down	1.141 down	1.064 up
PD2078	hypothetical protein	1.164 up	1.095 up	1.099 down	1.276 up	1.059 up	1.204 up

PD2079	hypothetical protein	1.060 down	1.047 down	1.038 down	1.110 down	1.101 down	1.008 down
PD2080	hypothetical protein	1.173 up	1.059 down	1.051 up	1.108 up	1.233 up	1.113 down
PD2081	hypothetical protein	1.005 up	1.069 down	1.036 down	1.063 down	1.030 down	1.031 down
PD2082	hypothetical protein	1.026 up	1.231 down	1.027 up	1.199 down	1.054 up	1.264 down
PD2083	hypothetical protein	1.011 up	1.311 up	1.294 up	1.326 up	1.309 up	1.013 up
PD2084	hypothetical protein	1.068 up	1.167 up	1.047 up	1.247 up	1.119 up	1.114 up
PD2085	hypothetical protein	1.105 down	1.105 up	1.010 down	none	1.116 down	1.116 up
PD2086	hypothetical protein	1.243 down	1.162 down	1.164 up	1.446 down	1.068 down	1.353 down
PD2087	hypothetical protein	1.227 up	1.127 down	1.316 down	1.088 up	1.072 down	1.168 up
PD2088	hypothetical protein	1.099 down	1.002 up	1.463 down	1.096 down	1.609 down	1.467 up
PD2089	hypothetical protein	1.095 down	1.046 up	1.048 down	1.046 down	1.148 down	1.097 up
PD2090	hypothetical protein	1.525 down	1.390 up	1.110 up	1.096 down	1.373 down	1.252 up
PD2091	hypothetical protein	1.147 down	1.172 up	1.093 up	1.021 up	1.049 down	1.071 up
PD2092	hypothetical protein	1.139 up	1.212 up	1.096 up	1.381 up	1.249 up	1.105 up
PD2093	hypothetical protein	1.203 up	1.141 down	1.051 up	1.054 up	1.265 up	1.200 down
PD2094	hemolysin-type calcium binding protein	1.028 up	1.134 up	1.193 down	1.166 up	1.160 down	1.354 up
PD2095	hypothetical protein	1.133 up	1.367 up	1.084 down	1.549 up	1.044 up	1.482 up
PD2096	hypothetical protein	1.111 up	1.023 up	1.216 up	1.136 up	1.351 up	1.188 down
PD2097	hemolysin-type calcium binding protein	1.196 up	1.032 up	1.054 down	1.235 up	1.134 up	1.089 up
PD2098	hypothetical protein	1.064 up	1.102 down	1.024 down	1.035 down	1.039 up	1.076 down

PD2103	hypothetical protein	1.002 up	1.302 up	1.206 up	1.305 up	1.210 up	1.078 up
PD2104	hypothetical protein	1.104 up	1.017 down	1.086 up	1.085 up	1.199 up	1.105 down
PD2105	hypothetical protein	1.102 down	1.096 up	1.090 up	1.005 down	1.011 down	1.005 up
PD2106	hypothetical protein	1.388 down	1.957 up	1.191 up	1.409 up	1.166 down	1.643 up
PD2107	hypothetical protein	1.352 up	1.008 up	1.042 down	1.363 up	1.296 up	1.051 up
PD2108	hypothetical protein	1.150 up	1.290 up	1.091 up	1.484 up	1.255 up	1.182 up
PD2109	hypothetical protein	1.633 up	1.684 down	1.104 down	1.031 down	1.478 up	1.524 down
PD2110	hemagglutinin-like secreted protein	1.171 up	1.333 up	1.105 up	1.561 up	1.295 up	1.205 up
PD2111	hypothetical protein	1.013 up	1.045 down	1.511 up	1.032 down	1.531 up	1.580 down
PD2112	hypothetical protein	1.171 up	1.100 up	1.380 up	1.288 up	1.617 up	1.255 down
PD2113	hypothetical protein	1.321 up	1.030 down	1.248 up	1.282 up	1.649 up	1.286 down
PD2114	hypothetical protein	1.256 up	1.034 up	1.117 up	1.299 up	1.403 up	1.080 down
PD2115	hypothetical protein	1.114 up	1.179 down	1.125 down	1.058 down	1.009 down	1.047 down
PD2116	hemagglutinin-like secreted protein	1.419 up	1.063 up	1.039 up	1.510 up	1.475 up	1.023 up
PD2117	hypothetical protein	1.062 up	1.021 down	1.025 up	1.040 up	1.089 up	1.047 down
PD2118	hemagglutinin-like secreted protein	1.207 up	1.521 up	1.470 up	1.843 up	1.774 up	1.038 up
PD2119	tRNA modification GTPase	1.042 up	1.132 up	1.051 down	1.180 up	1.008 down	1.190 up
PD2120	hypothetical protein	1.085 down	1.084 up	1.107 up	1.001 down	1.019 up	1.020 down
PD2121	putative inner membrane protein translocase component YidC	1.238 up	1.091 down	1.129 down	1.135 up	1.096 up	1.034 up
PD2122	ribonuclease P	1.116 down	1.418 up	1.200 up	1.270 up	1.075 up	1.181 up

PD2123	50S ribosomal protein L34	1.272 down	1.042 down	1.187 up	1.326 down	1.071 down	1.237 down
PDa0001	hypothetical protein	1.126 down	1.219 down	1.077 up	1.373 down	1.045 down	1.314 down
PDa0002	replication protein	1.280 up	1.701 down	1.488 down	1.328 down	1.162 down	1.142 down
