

Id	ID	log2ratio Condition1	log2ratio Condition2	pValue adjusted_Condition1	pValue adjusted_Condition2
PA0001	dnaA	-1.296	-0.041	5.95851153309937e-53	0.750556578396931
PA0002	dnaN	-0.438	-0.196	4.28063812618189e-15	0.00207566724566716
PA0003	recF	-0.601	0.195	9.67531093404635e-12	0.0694560493717059
PA0004	gyrB	-0.188	-0.056	0.0615002565588174	0.704680726646628
PA0005	lptA	-1.695	0.316	1.43932180642946e-95	0.000347968625644175
PA0006	PA0006	-1.282	0.314	9.45319653133285e-41	0.00178304568126611
PA0007	PA0007	1.922	-0.035	1.14456408057903e-59	0.854458455084762
PA0008	glyS	-1.445	0.039	9.37933192347703e-30	0.848623261622259
PA0009	glyQ	-1.693	0.025	8.56275397197513e-32	0.915475071171356
PA0010	tag	-0.914	0.139	1.54209406082113e-12	0.418828144668246
PA0011	PA0011	-1.029	0.192	1.10354175599226e-27	0.0921918166175733
PA0012	PA0012	0.147	0.276	0.170305295041415	0.024017888536059
PA0013	PA0013	-1.994	0.381	2.04763884080745e-64	0.000725527843322482
PA0014	PA0014	-0.841	0.039	7.39538414152955e-11	0.843815647202413
PA0015	PA0015	0.597	-0.047	5.75725064642439e-09	0.775159865026106
PA0016	trkA	0.258	-0.238	0.00149628116923709	0.011991643368161
PA0017	PA0017	-0.619	0.048	3.18518585560649e-08	0.781046360868517
PA0018	fmt	-0.803	0	7.27303510226034e-14	0.997899619935758
PA0019	def	-0.161	0.122	0.203903357371492	0.474425101482791
PA0020	tsaP	-1.723	-0.25	3.54295937826527e-83	0.0171281291464362
PA0021	PA0021	0.247	0.795	0.412649117908325	0.013760159616181
PA0022	PA0022	-0.669	-0.141	6.66542071138466e-07	0.441076049121828
PA0023	qor	0.539	-0.451	3.49694687208809e-06	0.000550881448561826
PA0024	hemF	-0.934	-0.018	1.0262448511959e-12	0.931328516227115
PA0025	aroE	-0.75	-0.026	5.4483044536387e-10	0.893228126099277
PA0026	plcB	-0.429	-0.543	0.0735245066889562	0.0543500280649675
PA0027	PA0027	-0.515	-0.262	0.0166367017121247	0.354593955739797
PA0028	PA0028	-0.379	-0.244	0.11359702812446	0.446262195194958
PA0029	PA0029	0.242	0.441	0.241596781068737	0.0650517204269475
PA0030	cosX	0.592	0.025	0.000890760906330935	0.93473365350233
PA0031	betC	0.182	0.14	0.237429430168068	0.500417881816099
PA0032	PA0032	-0.013	0.038	0.924172080755994	0.844001819262079
PA0033	hptC	0.244	-0.049	0.214637591095567	0.876344551230973
PA0034	PA0034	-0.635	0.035	0.000607425443351333	0.899424604350261
PA0035	trpA	-0.065	-0.422	0.503182740238726	3.04177514816823e-05
PA0036	trpB	0.05	-0.538	0.529477678176327	1.75630293756853e-11
PA0037	trpI	-0.632	-0.144	0.000694609999235506	0.579335126970984
PA0038	PA0038	1.248	0.044	1.87099278876695e-18	0.848933383829462
PA0039	PA0039	-1.129	0.302	4.23795327602818e-24	0.0229881303822652
PA0040	PA0040	-3.836	-0.292	0	0.000971663226245615
PA0041	PA0041	-2.191	-0.405	4.50529258695781e-145	1.36665048012395e-05
PA0042	PA0042	-0.388	-0.154	0.000914780318390899	0.315793817133636
PA0043	PA0043	0.058	0.132	0.668842331345264	0.451421606572143
PA0044	exoT	-2.015	0.746	4.54369650371342e-77	3.29310381220412e-11
PA0045	PA0045	-3.263	-0.758	2.69683739803924e-72	2.23889218856157e-06
PA0046	PA0046	-1.967	-0.785	2.32460745908511e-33	4.36099195994536e-07
PA0047	PA0047	-1.486	-0.472	2.43329510225406e-22	0.00277189190534512
PA0048	PA0048	-2.728	-0.686	1.68615304753574e-83	2.29341433492962e-07

PA0049	PA0049	-5.552	-0.971	1.62515326924354e-251	2.92488130856233e-11
PA0050	PA0050	-0.74	-0.295	0.00227244970792844	0.360186521780835
PA0051	phzH	0.691	-0.292	0.00116098866973731	0.308582953290896
PA0052	PA0052	2.599	0.204	6.06316692152176e-95	0.219814327172663
PA0053	PA0053	-0.082	0.147	0.519307318296681	0.362763067685264
PA0054	PA0054	-0.385	-0.208	0.0109683922318404	0.289781722167407
PA0055	PA0055	0.437	-0.226	0.0166442001713919	0.347469493574502
PA0056	PA0056	-0.249	0.153	0.307552264922732	0.648371436065503
PA0057	PA0057	0.026	-0.193	0.849016480031214	0.259489431272701
PA0058	dsbM	0.002	0.043	0.991625658064277	0.867408862012556
PA0059	osmC	0.28	-0.369	0.214051509825437	0.182714707897164
PA0060	PA0060	0.483	-0.224	0.00572705803020821	0.334464261162455
PA0061	PA0061	1.086	0.63	3.58091581337673e-13	0.000161246712742097
PA0062	PA0062	1.558	-0.599	6.41638155966462e-20	0.00332255185476321
PA0063	PA0063	-0.361	0.325	0.00389913358877173	0.0232924187408043
PA0064	PA0064	-0.495	0.051	4.16340881449845e-05	0.786191262769207
PA0065	PA0065	0.189	-0.211	0.0383740868097499	0.0548071494391666
PA0066	PA0066	0.069	-0.153	0.529738800637234	0.268561971527104
PA0067	prlC	0.005	-0.146	0.949141062204943	0.102062057772615
PA0068	PA0068	-0.207	-0.109	0.0293324930584709	0.385712620781833
PA0069	PA0069	0.362	0.035	0.0497886409764444	0.906083553974784
PA0070	tagQ1	-0.706	-0.821	0.00063727965543414	0.000331151651916274
PA0071	tagR1	0.118	-0.144	0.413834666024147	0.446830504207782
PA0072	tagS1	-0.825	0.18	6.8042579186854e-05	0.517699797493515
PA0073	tagT1	-0.527	0.357	0.0563812088318068	0.306749925182787
PA0074	ppkA	-0.598	-0.355	8.44639642569151e-07	0.0114902260050901
PA0075	pppA	-0.298	-0.266	0.132130930596594	0.293261382776832
PA0076	tagF1	-0.607	-0.093	0.00248048292023077	0.75636507396292
PA0077	icmF1	-0.447	-0.459	0.00605074884519193	0.014539698622534
PA0078	tssL1	-0.222	-0.263	0.282761397841261	0.320965538424694
PA0079	tssK1	-0.34	-0.371	0.0563010491360504	0.0824354764967184
PA0080	tssJ1	0.04	-0.207	0.854919988985752	0.455795382206528
PA0081	fha1	0.123	0.108	0.369279491552518	0.564753972812439
PA0082	tssA1	-0.797	0.12	1.36269953227954e-05	0.655606646476648
PA0083	tssB1	-0.926	-0.931	0.000723313398257284	0.00264249345147623
PA0084	tssC1	-0.946	-0.997	0.000535046031552588	0.00110204704055158
PA0085	hcp1	-1.699	-1.079	4.39415620213619e-11	0.000164221559735509
PA0086	tagJ1	-1.59	-0.269	6.50576542156685e-17	0.27690759549058
PA0087	tssE1	-1.798	-0.8	3.69157010701489e-15	0.00156228658884229
PA0088	tssF1	-1.428	-0.543	7.45171321781466e-09	0.0703233154177097
PA0089	tssG1	-1.681	-0.727	1.22195096902714e-17	0.00080304116481389
PA0090	clpV1	-1.049	-0.677	2.0288849939135e-09	0.000546353808702203
PA0091	vgrG1	-1.288	-0.657	3.19983947751069e-14	0.000536630336989867
PA0092	tsi6	-1.495	-0.427	3.33953521835368e-27	0.00574847696888933
PA0093	tse6	-1.589	-0.037	1.92333934757041e-11	0.921632300241698
PA0094	PA0094	-1.206	-0.512	4.49426557667199e-13	0.00766523061904866
PA0095	PA0095	-0.242	-0.201	0.110486622995386	0.303990069526246
PA0096	PA0096	0.008	-0.593	0.973823050063187	0.0390298675157521
PA0097	PA0097	-0.713	-0.408	0.000173584363804793	0.0764984227624827
PA0098	PA0098	-0.673	-0.317	0.000652765425316593	0.204880596558182

PA0099	PA0099	-0.583	-0.819	0.00151672907799605	4.25784620730857e-05
PA0100	PA0100	-0.238	-0.503	0.127972859527489	0.00376367444387521
PA0101	PA0101	-0.637	-0.397	0.000121932574138726	0.0442968202310198
PA0102	PA0102	-2.641	0.91	5.09972576293136e-95	1.01832733244129e-11
PA0103	PA0103	-4.659	1.505	3.65430342972777e-159	7.5898927891332e-19
PA0104	PA0104	-2.194	1.258	7.98134590180086e-56	5.99444790487206e-22
PA0105	coxB	-0.088	-0.26	0.591972066625242	0.1861235645842
PA0106	coxA	3.19	-0.32	1.48389317728778e-93	0.109827212870907
PA0107	PA0107	3.019	-0.222	4.41273799141133e-61	0.407699502531628
PA0108	colI	3.08	-0.3	5.35504475907708e-87	0.148067292822789
PA0109	PA0109	1.635	0.337	6.40505632306055e-51	0.00950266837531691
PA0110	PA0110	2.411	0.122	8.07572091100979e-47	0.64071048733099
PA0111	PA0111	2.756	0.109	1.52730466703971e-66	0.677774470663867
PA0112	PA0112	2.951	-0.107	1.55839172102403e-67	0.706510423914987
PA0113	PA0113	3.852	0.007	2.66225046562857e-109	0.983097783311626
PA0114	senC	0.611	0.45	3.34520851936378e-07	0.000819679890296742
PA0115	PA0115	-1.433	-0.343	3.56571625682688e-23	0.0428418123244907
PA0116	PA0116	0.946	0.019	1.78135740831854e-39	0.874443999784903
PA0117	PA0117	2.124	0.397	1.66429304752284e-37	0.066705093522703
PA0118	PA0118	3.221	0.336	1.08301592056629e-154	0.0471245980083166
PA0119	PA0119	1.841	-0.007	8.25615807639467e-69	0.969900478455718
PA0120	PA0120	0.829	-0.042	6.7092871599626e-22	0.761889737326257
PA0121	PA0121	0.868	-0.017	4.1761839869298e-11	0.938790928152356
PA0122	rahU	1.494	-0.452	1.31388711875097e-25	0.00664405538085398
PA0123	PA0123	0.375	-0.192	0.000278315704242461	0.146981857072671
PA0124	PA0124	-0.357	-0.368	0.0378959490098819	0.0732554396112582
PA0125	PA0125	-0.064	-0.475	0.744767037002407	0.0322182839957676
PA0126	PA0126	-1.24	-0.837	2.37875354573074e-15	5.1256953419207e-07
PA0127	PA0127	0.512	-0.054	7.55530593886295e-06	0.764253549413833
PA0128	PA0128	0.857	-0.235	4.3909224686749e-12	0.164285175515338
PA0129	bauD	1.169	-0.171	7.05917453199725e-19	0.39705770860577
PA0130	bauC	0.386	-0.312	3.14405874537261e-05	0.00378507453378352
PA0131	bauB	0.227	0.091	0.159081091638487	0.701534373533988
PA0132	bauA	2.359	-0.137	1.23442069518203e-72	0.509291442254987
PA0133	bauR	0.073	0.008	0.500042954204403	0.963345650755015
PA0134	PA0134	1.773	-0.239	3.41923483125954e-94	0.0279077808783358
PA0135	PA0135	0.611	-0.141	0.0294529490724003	0.757451465279189
PA0136	PA0136	0.717	0.418	1.35881329394074e-06	0.0183188172308496
PA0137	PA0137	0.486	0.684	0.0503474639273412	0.0139121154124697
PA0138	PA0138	0.151	0.829	0.391201182351353	1.45676887261206e-06
PA0139	ahpC	-0.82	-0.511	1.73544413362129e-17	9.37180167099822e-07
PA0140	ahpF	-1.304	-0.818	5.03725917552707e-36	3.05713586893553e-14
PA0141	PA0141	1.862	-0.096	3.60116196379037e-58	0.607536550367174
PA0142	PA0142	-1.062	0.526	2.85065018767262e-16	0.000182232718043515
PA0143	nuh	0.648	-0.106	2.37561056872033e-07	0.555673036778625
PA0144	PA0144	1.641	0.521	7.84638869814796e-34	0.00079374261811794
PA0145	PA0145	0.036	0.297	0.79402833565902	0.053693295750543
PA0146	PA0146	0.924	-0.116	3.00570507550811e-08	0.661394403556153
PA0147	PA0147	0.653	-0.45	1.16390543356033e-16	6.47720094376965e-07
PA0148	PA0148	1.424	0.01	4.01448387577304e-57	0.945277908056259

PA0149	PA0149	-5.466	-0.504	5.60424354538769e-153	0.00650364403273833
PA0150	PA0150	-3.725	-0.225	1.67345548789566e-46	0.509737675754092
PA0151	PA0151	-2.289	-0.633	1.15944310789774e-56	6.84612316612294e-06
PA0152	pcaQ	-0.475	0.163	0.000116409561171537	0.288821497374994
PA0153	pcaH	2.801	0.019	3.68426398759781e-36	0.967628884850684
PA0154	pcaG	2.876	0.46	2.87696173197265e-38	0.153554808281085
PA0155	pcaR	0.72	-0.344	4.95763666737107e-08	0.0335406156042585
PA0156	triA	1.134	-0.027	8.48581160229391e-16	0.908347397354863
PA0157	triB	0.973	-0.236	1.73174365151545e-08	0.307575011645862
PA0158	triC	1.136	-0.201	8.92245148408192e-28	0.12689353939569
PA0159	PA0159	0.657	-0.143	3.80803121671987e-14	0.208365926746336
PA0160	PA0160	-1.225	0.77	2.86058542646147e-13	5.57324840433044e-06
PA0161	PA0161	-4.119	0.821	1.37060763679379e-55	0.00438628763075241
PA0162	opdC	-1.122	0.206	1.10181412956751e-14	0.244276618917523
PA0163	PA0163	-0.057	-0.104	0.585685167129237	0.442324237628853
PA0164	PA0164	0.903	0.167	5.20919673605431e-19	0.218749875188958
PA0165	PA0165	0.15	-0.234	0.461523223553599	0.382580478046724
PA0166	PA0166	1.353	0.364	1.54189210904736e-05	0.436704588277164
PA0167	PA0167	-0.8	-0.218	3.96678197456784e-11	0.152652611637017
PA0168	PA0168	0.02	-0.018	0.876396625898235	0.926142399134448
PA0169	siaD	-0.34	-0.42	0.183286016317191	0.182422010256901
PA0170	PA0170	-0.598	-0.661	0.0331440346018093	0.0458683999474042
PA0171	PA0171	-0.697	-0.748	0.0055639162988942	0.00949379435369322
PA0172	siaA	-0.412	-0.442	0.0816780994747194	0.124661345444939
PA0173	PA0173	3.819	0.527	9.05753070957453e-206	0.000366388184194271
PA0174	PA0174	2.882	0.529	1.9429860401562e-225	8.12531042230889e-07
PA0175	PA0175	3.269	0.328	2.65539863579108e-193	0.0138471339259171
PA0176	aer2	4.04	0.505	4.58476782783312e-239	0.000275881027065953
PA0177	PA0177	3.461	0.447	1.31127126244148e-141	0.00556334671241356
PA0178	PA0178	3.301	0.63	2.34013686837815e-128	3.78205130242667e-05
PA0179	PA0179	2.51	0.577	4.70181587727988e-79	0.000114116287282794
PA0180	cttP	1.127	0.149	7.56861439755635e-23	0.336107536792741
PA0181	PA0181	0.18	-0.289	0.137460819415861	0.0466217406989316
PA0182	PA0182	0.768	0.245	6.58197018497772e-07	0.234941755929882
PA0183	atsA	-1.093	-1.858	7.87008167861295e-15	7.75495586555228e-36
PA0184	PA0184	-2.172	-2.479	2.03972712435466e-27	3.55754951530874e-31
PA0185	PA0185	-0.466	-0.933	0.00930786492767327	1.88364540679584e-06
PA0186	PA0186	-2.302	-2.411	4.25568092766369e-51	1.02145399648277e-53
PA0187	PA0187	-1.74	-0.777	2.666504948978e-28	2.54693033607969e-07
PA0188	PA0188	-1.749	-0.434	1.09922985070209e-26	0.00940372840365585
PA0189	PA0189	0.189	0.174	0.250341991672868	0.421531572959489
PA0190	PA0190	-0.417	0.22	0.0153792663036012	0.305767771242394
PA0191	PA0191	-3.114	-3.277	1.14476381108146e-94	1.07709745966751e-101
PA0192	PA0192	0.056	-0.48	0.824492970826762	0.11742899246164
PA0193	PA0193	-0.377	-0.864	0.0931267476029887	0.000685276529478501
PA0194	PA0194	-0.007	-0.208	0.977030432943376	0.48956725934492
PA0195	pntAA	1.705	0.03	5.61369196274117e-23	0.915048911918582
PA0195.1	pntAB	1.543	-0.048	5.28113924729084e-21	0.863527915248521
PA0196	pntB	1.863	0.051	5.12419891963983e-41	0.821441175879152
PA0197	tonB2	-5.637	-3.998	4.74396555950849e-55	2.10904121719747e-57

PA0198	exbB1	-3.356	-2.748	7.47859045030587e-100	5.13894564207577e-74
PA0199	exbD1	-3.767	-3.156	4.27965526200387e-112	2.30229606767694e-92
PA0200	PA0200	4.225	-0.237	8.06826501467592e-58	0.544712775017507
PA0201	PA0201	-3.782	-4.004	5.43211406431115e-96	5.02629543601688e-105
PA0202	PA0202	1.148	0.01	2.53057950841499e-06	0.98249838139065
PA0203	PA0203	1.868	-0.16	4.41233768086912e-22	0.61752057270641
PA0204	PA0204	1.179	0.441	4.15149384733165e-05	0.265239749619511
PA0205	PA0205	1.989	0.325	9.66756551200358e-12	0.48768081448771
PA0206	PA0206	0.828	0.283	7.41235988831391e-06	0.254038170672109
PA0207	PA0207	0.657	0.1	4.86545811687752e-07	0.601822922872013
PA0208	mdcA	5.559	-0.058		0.822852561343249
PA0209	PA0209	5.17	0.37	2.66243028489486e-157	0.20442937410974
PA0210	mdcC	5.645	0.282	8.274746800244e-104	0.547222896711725
PA0211	mdcD	5.037	-0.052		0.848623261622259
PA0212	mdcE	4.784	0.172	2.85498411013673e-185	0.52752670022972
PA0213	PA0213	4.905	0.933	5.09996682772672e-105	0.00127549261536356
PA0214	PA0214	4.885	0.325	7.1371893194793e-142	0.249947565931798
PA0215	PA0215	3.142	0.538	1.26712647733677e-118	0.00125205057021107
PA0216	PA0216	3.546	0.236	7.17708220142375e-185	0.182714707897164
PA0217	PA0217	-0.762	-0.081	4.89381909642626e-11	0.617449058101967
PA0218	PA0218	0.713	-0.229	1.87628304579372e-11	0.0901105277261408
PA0219	PA0219	0.399	0.052	0.0095488740101187	0.832809121541952
PA0220	PA0220	1.378	0.375	1.9342490266406e-10	0.197090635609619
PA0221	PA0221	2.077	0.044	1.27373613338818e-34	0.887355906076093
PA0222	PA0222	1.498	0.244	1.13070325931486e-09	0.502709966411287
PA0223	PA0223	-0.322	0.445	0.0323088577586599	0.00587513792275476
PA0224	PA0224	0.187	0.244	0.320631134408572	0.305301425922418
PA0225	PA0225	-0.662	-0.078	1.30420007079849e-10	0.596928466584304
PA0226	PA0226	1.307	0.057	2.11756188464249e-14	0.844001819262079
PA0227	PA0227	1.465	0.199	1.6961603371221e-14	0.479150579623336
PA0228	pcaF	1.217	0.044	3.06308608228986e-14	0.872538257204222
PA0229	pcaT	1.078	-0.159	7.98107413180628e-12	0.485949904362924
PA0230	pcaB	0.149	0.189	0.456833758703093	0.475884895136532
PA0231	pcaD	0.46	-0.359	0.00110351681725595	0.0355753660061436
PA0232	pcaC	0.981	-0.432	6.61261265689039e-23	0.000252179721821892
PA0233	PA0233	-0.495	0.075	2.63443664209953e-05	0.657037248645776
PA0234	PA0234	0.726	0.09	1.62411924709042e-05	0.731372918447137
PA0235	pcaK	2.51	0.464	1.91838193172877e-21	0.205031059677682
PA0236	PA0236	-1.714	-0.494	1.31979336455749e-33	0.00109172639091843
PA0237	PA0237	0.004	0.254	0.986713125658736	0.44913455505332
PA0238	PA0238	0.574	0.735	0.013455397051128	0.00486299039070124
PA0239	PA0239	-0.759	0.282	6.93154994778415e-10	0.0407378448789737
PA0240	PA0240	1.127	0.258	6.10093151105755e-05	0.549307069011334
PA0241	PA0241	1.145	0.19	5.39462283387689e-08	0.562115193197282
PA0242	PA0242	0.98	0.438	2.73072453993767e-08	0.0437488133614255
PA0243	PA0243	-0.888	-0.012	1.01943457153398e-25	0.930225180521633
PA0244	PA0244	0.679	0.502	0.0351068791564997	0.221132720136836
PA0245	aroQ2	0.507	0.264	0.00897841743866465	0.307575011645862
PA0246	PA0246	-0.893	0.273	1.1735223105294e-11	0.0765117876118892
PA0247	pobA	3.093	0.42	1.22218107733815e-75	0.0877020809644879

PA0248	PA0248	-0.022	0.04	0.83747856653957	0.793885739112294
PA0249	PA0249	0.946	-0.039	3.73831776096908e-18	0.82544155436988
PA0250	PA0250	1.222	-0.062	4.27535211889276e-101	0.449945505741061
PA0251	PA0251	0.211	0.224	0.437099363735602	0.541436690659554
PA0252	PA0252	-3.521	-0.201	1.37147296794511e-41	0.34693455276159
PA0253	hudR	-0.784	0.028	2.24852816763265e-07	0.905576339097557
PA0254	hudA	0.029	-0.321	0.804496947301962	0.0146230111937605
PA0255	PA0255	-0.718	0.207	5.17449048571005e-15	0.0570071934862639
PA0256	PA0256	1.022	0.234	7.05532567762448e-20	0.0942486460354764
PA0257	PA0257	-0.307	0.091	0.0296120357413608	0.654350453949988
PA0258	PA0258	-0.728	-0.235	1.43004615735024e-06	0.220199394022662
PA0259	tli3	-0.063	-0.535	0.594037736559268	1.20715826182004e-05
PA0260	tle3	-1.192	-1.087	2.44011319417422e-12	1.30955594790338e-09
PA0261	PA0261	-1.768	-1.067	2.38177228370093e-16	4.12262527126705e-06
PA0262	vgrG2b	-1.679	-0.756	4.20278783679911e-27	8.77518909279669e-06
PA0263	hpcC	-2.522	-1.757	6.33994225702179e-11	3.41056352475002e-05
PA0263.1	PA0263.1	-3.536	0.731	1.56027245977293e-51	0.000601166353164916
PA0264	PA0264	0.759	-0.158	0.00441160017752691	0.71526283989237
PA0265	gabD	-1.816	-0.771	1.77675421990905e-68	1.32970362850856e-12
PA0266	gabT	-1.326	-0.967	1.80609827946971e-17	5.1423359798892e-09
PA0267	PA0267	-2.256	-0.316	2.94890832196545e-74	0.0293144924656762
PA0268	PA0268	1.091	-0.209	3.48827196524333e-21	0.178568784903926
PA0269	PA0269	0.649	-0.695	4.41649186690712e-08	6.67213813387616e-08
PA0270	PA0270	0.481	-0.543	7.88701917570771e-05	6.38272237348952e-05
PA0271	PA0271	0.342	-0.479	0.00489074995094528	0.000455751775629626
PA0272	PA0272	-1.371	0.04	1.23811715109234e-28	0.811645368897694
PA0273	PA0273	0.388	-0.08	0.0726204445375143	0.818340454087453
PA0274	PA0274	1.062	0.102	5.9474498687764e-09	0.716839799567839
PA0275	PA0275	0.242	0.045	0.0437732415915195	0.811021357824033
PA0276	PA0276	0.844	-0.097	1.28897932523039e-06	0.718031379699503
PA0277	PA0277	1.167	-0.107	6.84791679733029e-13	0.680943914895722
PA0278	PA0278	-0.572	0.195	0.00174276589622566	0.407194078408972
PA0279	PA0279	1.069	0.539	0.00016864081594098	0.128610930175613
PA0280	cysA	-3.112	-3.11	3.80963448244963e-148	1.17826334212847e-147
PA0281	cysW	-4.347	-3.66	1.41886877244269e-109	1.1803010839331e-83
PA0282	cysT	-5.718	-5.015	1.08406111657269e-252	1.45125495121133e-212
PA0283	sbp	-5.616	-5.327	1.91280694591389e-196	1.1526670832817e-178
PA0284	PA0284	-5.471	-5.476	1.30103323886737e-153	1.94001624868158e-153
PA0285	PA0285	-1.264	-0.09	6.78260555602463e-44	0.456542120251136
PA0286	desA	-0.865	-0.825	1.05531661566718e-19	4.55060259082706e-17
PA0287	gpuP	0.436	0.388	0.00448004621407261	0.0312455522936622
PA0288	gpuA	1.56	0.073	1.33506557808081e-10	0.857261469891292
PA0289	gpuR	0.451	-0.325	9.53644252601539e-06	0.00645671450489885
PA0290	PA0290	-0.201	-0.182	0.111537471525802	0.257161876948954
PA0291	oprE	-2.026	-1.775	2.67803029632582e-56	1.1125099292501e-42
PA0292	aguA	-0.126	-0.137	0.0958234099448319	0.13668892892543
PA0293	aguB	0.132	0.489	0.4605283630527	0.0106952336751337
PA0294	aguR	-1.292	-0.05	1.42391887392703e-32	0.745689700971302
PA0295	PA0295	-2.332	-0.153	1.13170516445246e-93	0.28112658708396
PA0296	spul	-0.262	-0.613	0.00612616435152889	5.92801568280331e-10

PA0296.1	NA	1.258	0.178	2.9724899240715e-40	0.14718341962093
PA0297	spuA	-0.201	-0.032	0.115011449315574	0.873353508690949
PA0298	spuB	0.769	-0.393	6.92063256818447e-14	0.000775253018319317
PA0299	spuC	0.376	-0.532	0.00116508792575964	2.25568294193178e-05
PA0300	spuD	1.62	-0.464	7.16177474585913e-46	0.000307875486002499
PA0301	spuE	1.03	-0.289	2.77369533420789e-22	0.0238361527465049
PA0302	spuF	1.291	-0.347	5.9578174956999e-30	0.00987794467535116
PA0303	spuG	0.944	-0.243	4.86448809211238e-15	0.110527726751342
PA0304	spuH	0.902	0.098	1.66768974313124e-28	0.384738194321983
PA0305	hacB	1.115	0.039	1.51121633574845e-28	0.813677771027381
PA0306	PA0306	0.254	0.21	0.0386785932824092	0.167211074291569
PA0306.1	NA	0.441	0.169	0.000617294165950107	0.322924023845656
PA0307	PA0307	-1.002	0.545	4.94322122031033e-16	1.07626975345916e-05
PA0308	PA0308	-1.202	0.148	1.43599108522376e-22	0.361536758321953
PA0309	PA0309	-0.036	-0.082	0.646115248921073	0.416578459844205
PA0310	PA0310	-0.738	0.568	7.70867635660293e-11	1.01921844658205e-06
PA0311	PA0311	0.737	0.228	5.34436875013148e-05	0.370888278419118
PA0312	PA0312	0.156	0.178	0.175863353542955	0.215815453465322
PA0313	PA0313	0.785	0.058	1.8443438381491e-20	0.651668152315628
PA0314	PA0314	0.941	-0.14	9.82165916253195e-20	0.317283125423223
PA0315	PA0315	0.428	-0.192	0.0192771295177524	0.436271316809889
PA0316	serA	-1.249	-0.082	1.11977943951434e-30	0.602512242679975
PA0317	PA0317	-0.673	0.053	6.29577768987646e-25	0.569496939731977
PA0318	PA0318	-0.527	-0.139	8.70514756759594e-12	0.154074823196231
PA0319	PA0319	-1.417	-0.168	8.40931206039181e-30	0.299955144213253
PA0320	ygiW	-0.381	0.006	0.0455730087995261	0.984439320086285
PA0321	PA0321	0.864	-0.357	1.18324100239649e-11	0.0301096676360985
PA0322	PA0322	1.417	0.28	5.12932882909969e-17	0.234189721176191
PA0323	PA0323	0.622	-0.249	1.80842339553599e-06	0.14580719688187
PA0324	PA0324	2.239	0.177	8.28960273386708e-15	0.726913407615747
PA0325	PA0325	1.713	0.235	3.43156561665123e-13	0.522145978760809
PA0326	PA0326	2.622	0.222	2.18311519313951e-27	0.567480197298986
PA0327	PA0327	0.349	0.196	0.00208518317583515	0.168101748717774
PA0328	aaaA	-0.281	-0.426	0.00669478546522482	0.000182269838859684
PA0329	PA0329	1.854	0.102	1.24051203894195e-72	0.483191309926166
PA0330	rpiA	-1.401	0.113	3.4564031385942e-26	0.545961701393331
PA0331	ilvA1	-0.751	0.107	1.0670735692532e-07	0.599322831891008
PA0332	PA0332	0.965	0.549	5.37293395960407e-10	0.00194492328729183
PA0333	PA0333	1.102	0.359	3.54561713633415e-24	0.00473572817581434
PA0334	PA0334	-0.078	0.557	0.630344884377777	0.000866843191725939
PA0335	PA0335	-0.59	0.129	3.77172739992332e-10	0.29096469309846
PA0336	ygdP	-0.223	-0.176	0.0310638802198061	0.170357261801421
PA0337	ptsP	-0.117	-0.033	0.370889172191627	0.872538257204222
PA0338	PA0338	-0.611	-0.045	1.97883034591034e-17	0.677698995795013
PA0339	PA0339	0.099	0.058	0.437924564247172	0.755987517050185
PA0340	PA0340	-1.863	0.158	2.68408531452307e-78	0.116791364660628
PA0341	lgt	-1.633	0.014	7.70049349961589e-37	0.942037707384684
PA0342	thyA	-1.404	0.116	1.92461545416456e-52	0.335892571808572
PA0343	PA0343	0.151	0.015	0.0266020266761757	0.893498915652814
PA0344	PA0344	0.001	-0.078	0.99405073260509	0.714391985780079

PA0345	PA0345	-0.103	0.421	0.649915456998427	0.111518574858235
PA0346	PA0346	-4.877	-0.271	1.93584455642505e-175	0.178032257119204
PA0347	glpQ	0.03	-0.638	0.831353615993219	2.34273103532064e-05
PA0348	PA0348	0.324	0.184	0.0186711998958841	0.309346488133447
PA0349	PA0349	1.676	0.023	7.01241135276689e-25	0.938790928152356
PA0350	folA	-1.196	0.04	8.20336091304821e-22	0.826932798008344
PA0351	PA0351	-0.358	0.156	0.00130532824041203	0.276396077045122
PA0352	PA0352	-0.855	0.381	1.4159187618817e-14	0.00140704761299355
PA0353	ilvD	0.762	0.017	2.90507759125574e-21	0.897807642982476
PA0354	PA0354	-0.979	0.168	3.80116183968852e-18	0.239844350775319
PA0355	pfpl	0.347	-0.186	0.103435889330574	0.526824448691797
PA0356	PA0356	-1.407	0.154	2.01351777503256e-25	0.388648543598066
PA0357	mutY	-1.054	0.194	1.53371379794175e-34	0.0585292041848295
PA0358	PA0358	-0.741	0.604	2.39023359290503e-17	3.002841830602e-13
PA0359	PA0359	-0.204	0.013	0.084807960312551	0.942858808379788
PA0360	PA0360	-0.704	-0.236	1.13190609449775e-13	0.0363388899906825
PA0361	PA0361	-0.74	0.255	8.07808070292992e-07	0.178032257119204
PA0362	fdx1	-0.21	0.381	0.0895330965418423	0.0056824519617225
PA0363	coaD	-1.479	-0.069	6.36886551480748e-27	0.737909710915761
PA0364	PA0364	3.924	-0.066	1.3429677424608e-224	0.749561073283848
PA0365	PA0365	1.975	-0.113	3.14240106221623e-71	0.498246826768525
PA0366	PA0366	1.54	-0.275	1.86719803344653e-36	0.0719318405731735
PA0367	PA0367	-0.33	-0.151	0.00573178568819994	0.335291994030161
PA0368	PA0368	0.081	0.201	0.505342668045215	0.172926671236023
PA0369	PA0369	-0.442	0.129	0.000194690324793254	0.408702106617126
PA0370	PA0370	-0.413	-0.099	0.00172653944270255	0.598468637019046
PA0371	PA0371	-0.148	-0.22	0.24139174662317	0.151899258786424
PA0372	PA0372	-0.287	-0.089	0.00530136023128167	0.533469795853961
PA0373	ftsY	-1.382	-0.002	8.40627743400102e-54	0.992384981807099
PA0374	ftsE	-0.933	-0.085	3.15809243716511e-36	0.392821877628549
PA0375	ftsX	-0.591	0.215	5.28919327152296e-16	0.0106952336751337
PA0376	rpoH	-0.773	-0.123	7.7937404727263e-24	0.217742728218124
PA0377	PA0377	-0.702	0.016	1.64368275251957e-05	0.95167241786069
PA0378	PA0378	-1.214	0.442	8.85832056667803e-14	0.012552548859436
PA0379	PA0379	-0.793	0.078	2.2790407498063e-15	0.570730664174209
PA0380	PA0380	-1.648	0.251	4.08179152484659e-46	0.040022496811675
PA0381	thiG	-1.148	-0.06	1.07506987249795e-17	0.771751571001505
PA0382	micA	-1.917	0.17	4.37959827597028e-20	0.558919948077814
PA0383	PA0383	0.242	0.248	0.0755773556527696	0.134696087936397
PA0384	PA0384	1.223	-0.024	1.11843739537483e-66	0.839917683112686
PA0385	PA0385	-2.298	0.073	4.57507947223641e-54	0.676461174228628
PA0386	PA0386	-1.284	0.108	1.31153870979719e-14	0.618988731714465
PA0387	PA0387	0.782	0.276	4.20580295075033e-13	0.0336226195859649
PA0388	PA0388		1 -0.143	3.00483180936226e-46	0.115567771222057
PA0389	PA0389	-1.315	-0.1	3.90680517477519e-37	0.457284615359871
PA0390	metX	-2.06	-0.16	1.13575974659463e-63	0.302073560161973
PA0391	PA0391	-1.246	-0.368	1.01869154863515e-28	0.0043679547650847
PA0392	PA0392	-0.664	-0.27	3.44089148705238e-14	0.00744914364567666
PA0393	proC	-0.183	0.071	0.306197941180424	0.789460248339166
PA0394	PA0394	-0.829	-0.152	4.49883419052761e-12	0.340097247805035

PA0395	pilT	-0.428	-0.055	4.40164575978675e-10	0.577955449750086
PA0396	pilU	0.296	0.072	0.000360731278186034	0.541753568114094
PA0397	PA0397	0.537	0.012	4.04259982019871e-14	0.916210733264452
PA0398	PA0398	-0.25	0.066	0.0332309723079026	0.701495691775437
PA0399	PA0399	-1.375	-0.446	9.34207469360516e-26	0.00311088889182361
PA0400	PA0400	-1.492	-0.522	1.220521365151e-27	0.000758506114027622
PA0401	PA0401	0.174	0.149	0.151523390683782	0.341384884554234
PA0402	pyrB	0.021	0.003	0.875577008646727	0.988340460750209
PA0403	pyrR	0.853	0.155	8.34132272354816e-10	0.418974612345991
PA0404	PA0404	0.087	0.438	0.498751808903734	0.00143184967361307
PA0405	algH	-0.455	-0.067	1.06660079524612e-06	0.620438295890152
PA0406	tonB3	-1.286	0.198	2.33637390972229e-25	0.174961716602699
PA0407	gshB	0.359	-0.31	1.84425675178573e-06	0.000241946664161682
PA0408	pilG	-1.505	-0.078	3.12116777472042e-59	0.560618184212559
PA0409	pilH	-1.731	-0.209	4.13070328300803e-46	0.174866720151007
PA0410	pilI	-2.165	-0.041	1.03528884879446e-80	0.817723727446571
PA0411	pilJ	-1.164	-0.125	1.52855664216931e-22	0.450509464585714
PA0412	pilK	-0.941	0.157	5.55228973679323e-27	0.1496993549854
PA0413	chpA	-0.543	0.178	4.95039596876411e-07	0.196813015395089
PA0414	chpB	-0.7	0.232	5.44293348187475e-12	0.0552414668588531
PA0415	chpC	-0.438	0.117	0.00171323159550798	0.548657428507105
PA0416	chpD	-0.261	0.237	0.124106831781283	0.267310005999378
PA0417	chpE	0.23	0.682	0.206334313418298	0.000338675473351167
PA0418	PA0418	-0.58	-0.341	3.68511944519993e-08	0.0046286949442875
PA0419	PA0419	-2.013	0.555	8.24930374467602e-56	1.77779698430116e-05
PA0420	bioA	-1.812	0.771	3.85178437609492e-59	2.96255408175671e-11
PA0421	PA0421	-0.994	-0.266	1.93686514726878e-21	0.0337221039856449
PA0422	PA0422	-2.895	0.018	1.30478996622531e-131	0.91582091391408
PA0423	pasP	-4.979	-1.27	6.19600900357045e-299	6.22305420604485e-20
PA0424	mexR	-0.554	-0.061	1.50183183370524e-05	0.747344238762903
PA0425	mexA	0.149	0.011	0.252102449261643	0.957631396410715
PA0426	mexB	-0.013	0.085	0.922652086213362	0.635705527415325
PA0427	oprM	-0.115	0.177	0.403698637999636	0.312548393347639
PA0428	PA0428	-0.425	-0.031	0.000556976286135769	0.875780830277193
PA0429	PA0429	-0.86	0.062	1.48697518611387e-29	0.576286520162794
PA0430	metF	-0.803	-0.57	5.79179035645523e-07	0.00171201252233968
PA0431	PA0431	-0.761	-0.72	1.42722034144363e-05	0.000199867054111688
PA0432	sahH	0.156	-0.537	0.290454239178628	0.00073114745327184
PA0433	PA0433	-5.585	0.694	4.40527654702933e-250	8.23452834598242e-06
PA0434	PA0434	-5.081	0.366	2.23150263404892e-198	0.068164279993188
PA0435	PA0435	-4.199	0.57	2.15359116304023e-238	1.04209607829968e-06
PA0436	PA0436	-0.428	0.095	9.17884391991076e-05	0.534662498348852
PA0437	codA	-0.381	0.086	0.0223523161937708	0.726542992349316
PA0438	codB	-0.996	-0.12	1.58573518371995e-09	0.606756889662621
PA0439	PA0439	4.224	0.374	6.3671480627801e-19	0.602512242679975
PA0440	PA0440	3.867	0.222	3.29360032602896e-14	0.787227093323352
PA0441	dht	5.286	0.585	3.448203426947e-27	0.390557098717474
PA0442	PA0442	-0.878	-0.619	0.331190255898573	0.61484170420924
PA0443	PA0443	3.749	0.303	5.90240646939017e-14	0.696099252361194
PA0444	PA0444	3.627	0.362	1.26873217385319e-21	0.508206636593084

PA0445	PA0445	0.286	0.907	4.21276196327967e-06	4.72611725170825e-50
PA0446	PA0446	2.834	-0.504	2.7329704942778e-49	0.0304432377343395
PA0447	gcdH	3.163	-0.491	4.1225576761839e-59	0.0379192056645658
PA0448	PA0448	0.533	-0.277	2.11416860850994e-07	0.0270216140870724
PA0449	PA0449	0.455	-0.026	6.09594412991848e-05	0.886983976297238
PA0450	PA0450	0.164	0.464	0.309127934606981	0.0076996858939911
PA0451	PA0451	1.842	0.827	8.16029728581733e-23	7.33037961059021e-05
PA0452	PA0452	2.775	0.11	1.08592514863529e-96	0.588592921170828
PA0453	PA0453	0.701	0.197	7.21604475452472e-07	0.311680201940126
PA0454	PA0454	-0.227	0.148	0.0108041034144074	0.181383808019535
PA0455	dbpA	-1.289	-0.111	1.71501175555694e-37	0.410751880667132
PA0456	PA0456	-1.669	0.297	7.81856942065472e-55	0.0199170537138146
PA0457	PA0457	-0.797	0.126	1.59069814663345e-10	0.436544249556152
PA0457.1	PA0457.1	0.238	0.383	0.0560794933495781	0.00587784407254607
PA0458	PA0458	-0.281	0.035	0.00169043168655211	0.797727034140703
PA0459	PA0459	0.533	0.074	0.00259753882022417	0.786191262769207
PA0460	PA0460	1.844	-0.11	3.30368231421052e-37	0.606882139022941
PA0461	PA0461	-0.503	-0.235	2.1582725625604e-08	0.0270216140870724
PA0462	PA0462	1.489	-0.149	6.20800172635843e-32	0.395947735386918
PA0463	creB	-0.051	-0.149	0.54735471497769	0.143322712394127
PA0464	creC	-0.775	-0.174	4.15111186995244e-11	0.248913909537352
PA0465	creD	0.808	0.722	4.55911284792611e-07	3.90077632573588e-05
PA0466	PA0466	0.696	0.53	0.000319590028057874	0.0204016303202864
PA0467	PA0467	0.48	0.01	0.000896956458921364	0.967628884850684
PA0468	PA0468	0.096	0.274	0.606308001550374	0.225788206733845
PA0469	PA0469	0.514	-0.01	8.49806712247874e-13	0.932657792915042
PA0470	fiuA	-4.475	-0.661		0 3.93877185404227e-17
PA0471	fiuR	-6.9	-0.474		0 0.00151499680784483
PA0472	fiuI	-7.167	-0.625		0 2.00878114216825e-07
PA0473	PA0473	1.253	-0.092	7.61958570624986e-19	0.668199962804181
PA0474	PA0474	2.357	0.17	3.54304300155287e-08	0.830968200446284
PA0475	PA0475	-0.431	-0.001	0.000106874177631077	0.994170365179236
PA0476	PA0476	1.784	0.434	2.85587669457607e-31	0.0203988184550924
PA0477	PA0477	0.834	0.108	2.85849058176729e-10	0.590428307104472
PA0478	PA0478	-0.583	-0.142	9.37904761349601e-06	0.408941850625643
PA0479	PA0479	0.586	0.049	2.68309493070142e-07	0.785390052013889
PA0480	PA0480	0.214	0.038	0.352720156660832	0.915859326949674
PA0481	PA0481	-0.839	0.173	2.88846314335119e-14	0.186041861584443
PA0482	glcB	1.119	-0.35	6.37230050782697e-12	0.0819325839230934
PA0483	PA0483	1.115	0.034	2.98792788027835e-31	0.829700584582216
PA0484	PA0484	1.893	0.159	4.61376035584813e-96	0.178892983788785
PA0485	PA0485	-0.865	0.623	1.15118608866682e-17	2.53616723309973e-10
PA0486	PA0486	0.172	0.109	0.0527065829604627	0.349426202744645
PA0487	PA0487	0.196	-0.113	0.00861011652238706	0.244276618917523
PA0488	PA0488	0.137	0.52	0.355227918158905	0.000829528622587852
PA0489	PA0489	1.25	0.235	2.67915108659199e-07	0.50023671872193
PA0490	PA0490	1.885	0.326	1.99773379952859e-35	0.0898627961690946
PA0491	PA0491	-0.159	0.125	0.314243470083648	0.555673036778625
PA0492	PA0492	1.227	0.123	1.82299244745584e-07	0.749561073283848
PA0493	PA0493	0.268	-0.057	0.227729476342243	0.873345002782847

PA0494	PA0494	0.442	0.172	0.000194946154948138	0.275734890856588
PA0495	PA0495	0.334	-0.048	0.00171016041445121	0.777152399337511
PA0496	PA0496	0.364	0.321	0.00055638621802318	0.00800840731458747
PA0497	PA0497	0.794	-0.165	4.19620914215373e-11	0.347387181218016
PA0498	PA0498	0.775	-0.171	1.63932957854071e-07	0.413432117314071
PA0499	PA0499	1.718	-0.158	2.7171359689295e-17	0.655606646476648
PA0500	bioB	-2.339	0.285	2.62634861166251e-200	0.00108590315438524
PA0501	bioF	-0.748	1.065	3.93290791887173e-12	1.36108904014441e-23
PA0502	PA0502	0.711	0.637	1.47958679367553e-08	2.71391158933656e-06
PA0503	PA0503	0.157	0.892	0.353607992415638	1.95445373491821e-07
PA0504	bioD	-0.061	1.262	0.753923316363618	4.68117459143728e-12
PA0505	PA0505	0.691	0.837	6.6824785867406e-06	3.02344707649134e-07
PA0506	PA0506	1.278	0.193	7.53192022494354e-44	0.0938509764020411
PA0507	PA0507	1.706	-0.019	3.89519172609032e-54	0.918785198112024
PA0508	PA0508	0.032	-0.303	0.773344175207966	0.0121214977417088
PA0509	nirN	0.656	0.596	4.95328888318252e-05	0.00104185788517237
PA0510	nirE	1.017	0.569	0.000506350951580492	0.127754780593315
PA0511	nirJ	1.149	0.346	2.35809373234841e-09	0.189919334955948
PA0512	nirH	-0.016	0.946	0.953203412650906	0.000278856890699203
PA0513	nirG	1.507	-0.037	0.000205695471591421	0.960920094249018
PA0514	nirL	0.908	0.585	0.0196863699491656	0.250975478013518
PA0515	PA0515	1.204	0.42	0.0224205843092067	0.591468256428492
PA0516	nirF	1.337	0.106	1.30296242695886e-07	0.811645368897694
PA0517	nirC	1.442	-0.668	0.0107730532331878	0.463589028739603
PA0518	nirM	1.107	-1.35	0.0007732503173876	0.00755947947012623
PA0519	nirS	2.588	0.185	5.311833199171e-26	0.643246552730308
PA0520	nirQ	0.653	-0.022	3.11673855127905e-07	0.91582091391408
PA0521	PA0521	-0.216	0.235	0.287977418851925	0.341384884554234
PA0522	PA0522	-0.769	0.221	0.0461046603733855	0.648924330303318
PA0523	norC	-0.404	-0.119	0.142316192747813	0.761860205589629
PA0524	norB	-0.316	0.175	0.0752660363486332	0.443277756619251
PA0525	PA0525	-0.113	0.365	0.573637260311881	0.107986816937448
PA0526	PA0526	0.296	0.117	0.0597039902484932	0.603765551496064
PA0527	dnr	1.64	-0.121	9.68504123023902e-33	0.594840863631822
PA0527.1	rsmY	1.203	0.705	0.000951370745157708	0.116718448290405
PA0528	PA0528	0.47	-0.074	0.00464065396913965	0.776596887622979
PA0529	PA0529	-1.72	-0.531	2.26739309447168e-45	5.31445097414251e-05
PA0530	PA0530	-2.053	-0.716	2.65181966975759e-54	2.16797744441628e-07
PA0531	PA0531	-1.839	-0.663	5.17565894789876e-39	7.36744463241975e-06
PA0532	PA0532	0.408	-0.024	0.0274266347809196	0.937344965683109
PA0533	PA0533	-0.423	-0.157	4.23204628753385e-09	0.0710026049243304
PA0534	pauB1	2.609	0.2	3.94125133248157e-115	0.186580789204409
PA0535	PA0535	0.808	0.089	3.19983947751069e-14	0.568897684773297
PA0536	PA0536	-0.087	-0.318	0.537652092969975	0.0477718404787671
PA0537	PA0537	0.28	-0.246	0.0437031397403847	0.151548619197768
PA0538	dsbB	-1.229	0.125	9.36823785112617e-16	0.565281635514652
PA0539	PA0539	0.271	0.258	0.0818718422934872	0.180685025287858
PA0540	PA0540	0.532	0.275	0.00109464201654021	0.183486358913197
PA0541	PA0541	1.073	0.517	1.03456580284414e-11	0.00471693636494506
PA0542	PA0542	-1.209	0.033	1.91125333607004e-26	0.852251394811427

PA0543	PA0543	1.901	0.208	1.60535364462587e-34	0.325677748561098
PA0544	PA0544	-1.149	0.146	5.82286136539909e-34	0.192151772984019
PA0545	PA0545	0.8	0.368	4.79347929497959e-16	0.00120460306149164
PA0546	metK	-0.339	-0.521	0.0572660890500653	0.0101164937232877
PA0547	PA0547	-0.724	-0.461	2.77585481016271e-08	0.00180689920506623
PA0548	tktA	-0.155	-0.137	0.4418276581716	0.628170785088551
PA0549	PA0549	-0.479	-0.002	0.00405159545356411	0.994624209249136
PA0550	PA0550	0.028	-0.243	0.813489621080215	0.0797933051136613
PA0551	epd	-1.086	-0.036	2.72361153582358e-24	0.829710540879662
PA0552	pgk	-0.221	-0.078	0.231935177622629	0.776174250222665
PA0553	PA0553	0.724	0.281	4.41198293064959e-18	0.00373223971221899
PA0554	PA0554	0.007	-0.007	0.95169791406352	0.965528591886148
PA0555	fda	0.549	-0.305	3.18473241840937e-10	0.00221151729284536
PA0556	PA0556	0.523	0.051	2.56975362342187e-06	0.769967887347184
PA0557	PA0557	2.072	0.011	5.24445166619108e-79	0.955565965812858
PA0558	PA0558	-0.213	0.061	0.026262455271212	0.656675298965213
PA0559	PA0559	-0.613	0.007	3.49949428904278e-09	0.963345650755015
PA0560	PA0560	-0.878	0.296	6.94544291879296e-10	0.0715505691954936
PA0561	PA0561	-0.884	0.364	1.50718699382756e-15	0.00228511077241939
PA0562	PA0562	-1.028	0.053	2.10883556729892e-28	0.68641291915909
PA0563	PA0563	-1.684	-0.039	1.2047512701116e-24	0.88388838588742
PA0564	PA0564	-0.883	0.067	3.67969113930601e-13	0.704680726646628
PA0565	PA0565	1.253	0.032	2.22480891109204e-24	0.874647225579034
PA0566	PA0566	-0.053	0.26	0.629940743461296	0.0351492431075757
PA0567	PA0567	0.889	0.335	0.0005559562080218	0.327321519244147
PA0568	PA0568	-0.594	0.013	3.22171468153076e-06	0.948960960931959
PA0569	PA0569	-1.318	-0.182	1.21993572899063e-29	0.185766813550024
PA0570	PA0570	-1.836	-0.313	4.48428229211328e-35	0.0336698031475408
PA0571	PA0571	-0.931	-0.111	1.30753401087699e-20	0.404814790386939
PA0572	PA0572	-3.176	-0.352	1.88561594189399e-57	0.166447417711189
PA0573	PA0573	0.502	0.014	0.0088881221248944	0.964202536891395
PA0574	PA0574	-0.109	-0.169	0.453679035329537	0.364838565010296
PA0574.1	PA0574.1	0.726	0.762	0.00354397346051545	0.00703615241433781
PA0575	PA0575	1.179	0.388	2.52592162523688e-25	0.00301885781768152
PA0576	rpoD	-0.605	0.145	1.32908633749118e-08	0.304860544492824
PA0577	dnaG	-0.744	0.045	9.05067447603887e-13	0.782208717644026
PA0578	PA0578	-2.356	-0.171	7.64816342871953e-87	0.233893566843925
PA0579	rpsU	-1.858	0.163	1.22932379327404e-64	0.249947565931798
PA0580	gcp	-0.451	0.2	6.64011042582468e-11	0.0102497632373425
PA0581	PA0581	-0.318	0.288	0.0157005552175369	0.0650517204269475
PA0582	folB	-0.484	-0.034	5.70172810224604e-06	0.834395649461593
PA0583	PA0583	-0.585	-0.124	4.62881882616045e-06	0.468311590499684
PA0584	cca	1.205	0.176	4.42665787069322e-42	0.120513458735439
PA0585	PA0585	1.825	0.601	9.7712333470822e-47	2.34452724368354e-05
PA0586	PA0586	1.089	0.073	2.07577320318937e-22	0.66375726998999
PA0587	PA0587	0.808	-0.006	4.56082406828804e-15	0.970335475930805
PA0588	PA0588	0.966	-0.109	1.20833174884998e-16	0.509291442254987
PA0589	PA0589	-0.191	-0.036	0.0795080191540611	0.830968200446284
PA0590	apaH	0.342	-0.014	1.06908208667652e-06	0.906083553974784
PA0591	PA0591	0.186	-0.043	0.105766790855407	0.80751259314549

PA0592	ksgA	-1.762	0.095	5.30604967268103e-62	0.488026787015285
PA0593	pdxA	-0.833	0.04	1.43721321013177e-07	0.875585101763156
PA0594	surA	-0.469	0.055	6.67884729429579e-05	0.756760645411093
PA0595	lptD	-1.113	-0.066	8.29474154327855e-30	0.653400617177696
PA0596	PA0596	-0.056	-0.132	0.417279922683827	0.110725402276182
PA0597	PA0597	0.265	0.109	0.00288238001668944	0.360018188214815
PA0598	PA0598	0.832	0.22	2.31028926634061e-15	0.0938785511315639
PA0599	PA0599	-0.051	0.065	0.621611571598746	0.653400617177696
PA0600	agtS	-0.319	0.061	0.00100642176782401	0.666978625711572
PA0601	agtR	0.274	0.104	0.0123604221841463	0.490659104543216
PA0602	PA0602	-0.194	0.076	0.206594704198929	0.735559539466944
PA0603	agtA	1.853	-0.145	4.2815771053135e-36	0.496542743889128
PA0604	agtB	3.611	-0.105	1.95169414272421e-107	0.686787332056482
PA0605	agtC	2.983	-0.123	8.81448584413651e-80	0.63042127217435
PA0606	agtD	1.311	0.339	1.4756464069463e-23	0.0355746308136235
PA0607	rpe	-0.681	0.023	1.26315990462166e-07	0.911302755469389
PA0608	PA0608	-1.033	0.328	1.40511995453746e-19	0.0117651350727331
PA0609	trpE	-1.479	0.232	5.09262987250228e-31	0.151896101798484
PA0610	prtN	2.286	0.286	6.76065059530231e-23	0.365386158775936
PA0611	prtR	-0.343	-0.173	0.000248499122338891	0.135251735359406
PA0612	ptrB	2.404	0.791	2.36319025159026e-10	0.0928748491190252
PA0613	PA0613	2.352	0.776	2.79552759906086e-11	0.0743637232233586
PA0614	PA0614	0.594	0.818	0.112902269873047	0.0654850900936894
PA0615	PA0615	0.206	0.733	0.422868878616324	0.0102755406651411
PA0616	PA0616	0.884	0.521	0.027456551361395	0.320983325381446
PA0617	PA0617	0.708	0.587	0.0930024384445218	0.276528365905512
PA0618	PA0618	0.877	0.667	0.0228728839914976	0.16395421731252
PA0619	PA0619	0.85	0.566	0.0308925851252624	0.262606748996134
PA0620	PA0620	0.614	0.519	0.0887341884011445	0.258508555514593
PA0621	PA0621	1.05	0.343	0.000564423060335179	0.407485780884259
PA0622	PA0622	0.829	0.397	0.0202078299791175	0.40731975329691
PA0623	PA0623	0.908	0.268	0.0128961004323944	0.608832029336343
PA0624	PA0624	1.304	0.359	0.000252351786484499	0.463352678484182
PA0625	PA0625	0.619	0.501	0.0919526182402705	0.288821497374994
PA0626	PA0626	0.817	0.743	0.0267730779672759	0.0962010227220354
PA0627	PA0627	-0.027	0.649	0.946057171910515	0.1630922900634
PA0628	PA0628	0.109	0.667	0.789708035506604	0.166447417711189
PA0629	PA0629	0.502	0.76	0.233292534745637	0.134696087936397
PA0630	PA0630	0.18	0.84	0.54740027368801	0.0105459284819885
PA0631	PA0631	-0.471	0.814	0.225258849043773	0.0741952230746942
PA0632	PA0632	0.236	0.536	0.588107223372534	0.328593654990291
PA0633	PA0633	0.719	0.368	0.00960902165491632	0.312410774006605
PA0634	PA0634	0.604	0.3	0.0421173650258719	0.454331367907468
PA0635	PA0635	0.674	0.33	0.00998827748807181	0.337789828755593
PA0636	PA0636	0.617	0.543	0.0806287622908097	0.221004535430389
PA0637	PA0637	0.151	0.636	0.618022587389719	0.0674783134390313
PA0638	PA0638	0.261	0.542	0.40014905527851	0.146494024540355
PA0639	PA0639	0.968	0.604	0.00676186544995493	0.178693240478949
PA0640	PA0640	0.385	0.518	0.330718870757701	0.301746921166291
PA0641	PA0641	0.789	0.586	0.0345299968269796	0.212590977045377

PA0642	PA0642	-0.091	0.411	0.836875095206821	0.472175004156672
PA0643	PA0643	1.008	0.547	0.00521947708181208	0.236264201486477
PA0644	PA0644	0.516	0.173	0.0498344180007846	0.649059877049824
PA0645	PA0645	0.43	0.414	0.0890684513607747	0.186797374362771
PA0646	PA0646	0.73	0.378	0.00845125325629258	0.295471170112306
PA0647	PA0647	0.796	0.22	4.81203810753473e-05	0.410167255720742
PA0648	PA0648	0.76	0.293	1.09326200265742e-05	0.182847318245976
PA0649	trpG	-1.215	0.249	8.9283840273429e-31	0.0466217406989316
PA0650	trpD	-0.083	0.2	0.389702972808327	0.0745340837653871
PA0651	trpC	-0.208	0.292	0.0030937949673499	0.000127627384247764
PA0652	vfr	-1.254	0.088	1.37142098076722e-55	0.422531609302968
PA0653	PA0653	-0.512	0.233	0.00027507441508014	0.186630484703943
PA0654	speD	-1.037	0.149	1.01500950811408e-07	0.595602871198724
PA0655	PA0655	0.47	0.253	1.40590984645402e-09	0.00473572817581434
PA0656	PA0656	1.997	0.163	1.88322300808539e-125	0.134158615807812
PA0657	PA0657	-0.155	0.028	0.00548071904714835	0.737909710915761
PA0658	PA0658	-1.235	-0.28	1.48335811276735e-38	0.0104418576335598
PA0659	PA0659	-2.019	-0.753	2.7350963236881e-92	2.51155544220873e-13
PA0660	PA0660	-1.59	-0.966	3.04406627535323e-69	1.21032574687088e-25
PA0661	PA0661	-1.03	-0.102	2.88982631043465e-20	0.505918602715062
PA0662	argC	-0.476	0.212	0.000137052018937181	0.176790670452512
PA0663	PA0663	-0.998	0.273	1.38561312787451e-21	0.0223218249817197
PA0664	PA0664	-0.645	0.079	7.80592492031532e-07	0.683333107786437
PA0665	PA0665	-0.685	0.334	2.75943329251131e-12	0.00280040733224538
PA0666	PA0666	0.001	0.037	0.9931390518837	0.873345002782847
PA0667	PA0667	-0.277	-0.102	0.0137768926045065	0.510344297768625
PA0668	tyrZ	-1.795	0.69	5.78124676447917e-63	1.05005336128196e-09
PA0668.1	PA0668.1	0.594	-0.626	0.405605149935201	0.512825145201378
PA0668.2	PA0668.2	-1.381	0.648	3.82821192200682e-10	0.0109682435417875
PA0668.3	PA0668.3	-1.986	0.494	2.45592502290285e-34	0.00861675038309602
PA0668.4	PA0668.4	0.755	-0.541	NA	NA
PA0668.5	PA0668.5	0.643	1.05	0.0233158910366674	0.000739187302984793
PA0669	PA0669	-0.065	0.012	0.479226263708786	0.93517245363882
PA0670	PA0670	0.819	0.056	8.11646256273694e-11	0.787156513258316
PA0671	PA0671	0.852	-0.154	2.82058547476722e-05	0.613163145144381
PA0672	hemO	-8.476	-0.492		0.179140516918948e-10
PA0673	PA0673	1.201	-0.334	1.1638160706505e-21	0.0407235481011263
PA0674	vreA	-1.163	0.013	3.18053803974924e-13	0.957453766238076
PA0675	vrel	-1.37	-0.259	1.48407334769438e-10	0.26835242190588
PA0676	vreR	-2.467	-0.484	1.4113074892281e-88	0.000124001405604991
PA0677	hxcW	0.346	0.064	0.131515938435445	0.863527915248521
PA0678	hxcU	-0.481	0.007	0.168785486469082	0.990727129390908
PA0679	hxcP	0.929	0.401	8.16133533878368e-16	0.00354350814870174
PA0680	hxcV	-0.149	0.16	0.626872012506072	0.700495871955392
PA0681	hxcT	0.926	0.033	1.45148681775971e-07	0.91582091391408
PA0682	hxcX	0.224	0.474	0.516712961208074	0.25961963813851
PA0683	hxcY	0.658	0.529	0.00742135494575337	0.076226356116767
PA0684	hxcZ	1.527	0.651	2.51957320505815e-06	0.129208389248091
PA0685	hxcQ	0.259	0.517	0.153180305622965	0.00940372840365585
PA0686	hxcR	0.523	0.181	0.0315081418215456	0.613058671035429

PA0687	hxcS	-0.425	0.1	0.26460574911746	0.854761441298919
PA0688	lapA	-0.327	-0.191	0.0546446023635857	0.391707695179198
PA0689	lapB	-0.15	0.097	0.208479621768072	0.552396522680752
PA0690	pdtA	0.031	-0.077	0.64273804015185	0.36294575401429
PA0691	phdA	0.55	-0.29	0.0623538039098223	0.509778066231543
PA0692	pdtB	0.436	0.056	0.0235222875852836	0.859602985517813
PA0693	exbB2	0.266	0.565	0.127837341876847	0.00271700765269706
PA0694	exbD2	-0.196	-0.384	0.59914313597774	0.43674722438137
PA0695	PA0695	0.287	-0.157	0.481027003992295	0.805767624602317
PA0696	PA0696	0.555	0.056	0.0170174186125619	0.883247914571719
PA0697	PA0697	0.196	-0.169	0.515322578093562	0.702165291430598
PA0698	PA0698	-0.018	-0.119	0.944924662858614	0.75612394728057
PA0699	PA0699	-0.172	0.261	0.413339971544034	0.309646061981021
PA0700	PA0700	1.007	0.761	0.000162464468516126	0.015360224063232
PA0701	PA0701	0.444	0.356	0.00276252333201846	0.04320926297188
PA0702	PA0702	0.381	0.297	0.0674597327652751	0.268172128551014
PA0703	PA0703	0.348	0.277	0.004794218338485	0.0616571663429255
PA0704	PA0704	1.078	0.149	6.64386048236626e-16	0.419444489600193
PA0705	migA	-1.157	-0.032	1.02069231502903e-20	0.872538257204222
PA0706	cat	-2.364	-0.483	8.5364430474458e-148	1.95445373491821e-07
PA0707	toxR	-7.753	-0.936		0.790299731650238e-35
PA0708	PA0708	-0.354	-0.173	0.00156771186170292	0.217137015849762
PA0708.1	NA	0.255	-0.799	0.45914178903375	0.0809094865180038
PA0709	PA0709	0.92	-0.025	3.49044526943601e-10	0.922734032234111
PA0710	gloA2	0.947	-0.174	1.50330267218228e-07	0.545693197801543
PA0711	PA0711	0.225	-0.16	0.226022504678703	0.544133171364975
PA0712	PA0712	-0.166	0.305	0.169569057230428	0.026873520969417
PA0713	PA0713	0.605	0.713	0.0215438242200246	0.0190471271986463
PA0714	PA0714	0.483	0.422	0.0549554128426931	0.178032257119204
PA0714.1	phrD	0.502	0.779	0.00791099287369507	0.000151988104390084
PA0715	PA0715	-0.241	-0.081	0.335606497878474	0.830425178938447
PA0716	PA0716	0.238	-0.438	0.332734189191454	0.137083451964257
PA0717	PA0717	2.926	0.458	1.52855165537958e-47	0.104029648425118
PA0718	PA0718	2.161	-0.095	3.30105525108629e-21	0.812366475609884
PA0719	PA0719	2.255	0.262	6.8601338697295e-30	0.3563090592912
PA0720	PA0720	1.436	0.132	1.26509396979639e-12	0.67102717156255
PA0721	PA0721	1.09	0.357	7.84759160486688e-05	0.362536646114978
PA0722	PA0722	0.845	-0.085	1.33056383014896e-05	0.780198212149418
PA0723	coaB	0.952	0.204	9.10419315801193e-27	0.0643770976295728
PA0724	PA0724	0.599	0.135	9.71471493997068e-05	0.549015951719439
PA0725	PA0725	-0.497	-0.008	0.145195047447623	0.988340460750209
PA0726	PA0726	0.136	0.004	0.282274910828573	0.983487517885847
PA0727	PA0727	-2.693	-0.757	7.83011139298955e-121	9.53978047867141e-12
PA0728	PA0728	-0.794	-0.32	1.78787067069975e-10	0.0248032225984689
PA0729	PA0729	1.251	-0.415	1.38492491539393e-13	0.0423033554135934
PA0729.1	PA0729.1	-2.074	0.707	5.3384725891499e-11	0.0288882123317969
PA0730	PA0730	-2.386	0.495	5.50574857841088e-61	0.00156228658884229
PA0731	PA0731	1.195	-0.257	6.79699540508471e-18	0.151896101798484
PA0732	PA0732	1.594	-0.041	2.62914111185007e-59	0.794933565423859
PA0733	PA0733	-1.784	0.042	2.80039773267436e-25	0.859602985517813

PA0734	PA0734	-1.055	0.089	2.0536734762231e-13	0.648018334234306
PA0735	PA0735	-0.718	-0.382	2.632270698946e-17	2.79446462381111e-05
PA0736	PA0736	-0.988	-0.457	1.44370503482599e-29	8.11773172121862e-07
PA0737	PA0737	2.931	-0.293	2.65186226532907e-108	0.0836959149556351
PA0738	PA0738	2.952	-0.136	1.33812886685021e-64	0.630952763926648
PA0739	PA0739	-0.001	-0.182	0.9931390518837	0.292167065866353
PA0740	sdsA1	0.991	-0.074	2.09058865883746e-11	0.764414034896807
PA0741	PA0741	1.817	-0.069	3.8899443056552e-54	0.713938104262156
PA0742	PA0742	2.307	0.149	1.01737824164646e-42	0.567849035222341
PA0743	PA0743	2.248	0.233	2.97174788697404e-75	0.137083451964257
PA0744	PA0744	4.163	-0.521	2.03327086050788e-280	0.000117441339912084
PA0745	PA0745	3.705	-0.645	1.45655758786418e-180	9.93973585938871e-06
PA0746	PA0746	4.893	-0.493	2.14975573675182e-255	0.00522508026598622
PA0747	PA0747	4.061	0.027	3.40146551631585e-68	0.942114855249586
PA0749	PA0749	-0.519	-0.103	1.75513481551667e-06	0.4896039739376
PA0750	ung	-0.032	-0.185	0.808518763722556	0.251020844219495
PA0751	PA0751	0.801	0.207	2.43716301082333e-07	0.329085600469537
PA0752	PA0752	2.293	0.049	1.03376229523236e-26	0.891479413895458
PA0753	PA0753	2.563	-0.204	3.68257476087619e-19	0.682027226196992
PA0754	PA0754	2.64	-0.287	5.32627141513611e-52	0.230282114473847
PA0755	opdH	2.668	0.658	1.95333847563298e-22	0.0550055273417521
PA0756	PA0756	-0.49	0.183	0.000922443696170442	0.333110539897513
PA0757	PA0757	-0.453	0.195	0.00156269930257007	0.285547533149479
PA0758	PA0758	-0.321	0.349	0.000336128425264554	0.00035431371139732
PA0759	PA0759	-0.302	-0.011	0.000114993858262674	0.932022354924085
PA0760	PA0760	-0.31	0.417	0.00043679511093903	4.91019053047242e-06
PA0761	nadB	-0.139	-0.012	0.118401941548125	0.929999687331549
PA0762	algU	1.239	-0.245	1.34810059757474e-12	0.291053548888605
PA0763	mucA	2.336	-0.185	5.09696967655689e-62	0.332762860792135
PA0764	mucB	1.29	-0.316	3.1813409760794e-48	0.0020391794881789
PA0765	mucC	1.197	-0.285	3.66555158637748e-56	0.00140224662684954
PA0766	mucD	0.888	-0.379	3.12332722195951e-14	0.00518957967165744
PA0767	lepA	-0.867	0.02	5.5206745529483e-20	0.897807642982476
PA0768	lepB	-0.1	0.183	0.421612195059253	0.231175498415575
PA0769	PA0769	0.507	0.289	0.000198735839464487	0.0818925563217622
PA0770	rnc	0.584	0.136	3.21067658735395e-17	0.119367174562246
PA0771	era	1.23	-0.069	8.80506763633381e-31	0.67352303429849
PA0772	recO	-0.063	0.228	0.559982158012253	0.0652250349554088
PA0773	pdxJ	-0.006	-0.132	0.969757615452743	0.526387013592089
PA0774	PA0774	-1.19	0.133	2.23135032545546e-17	0.469272690797778
PA0775	PA0775	0.278	-0.055	0.00846819098226307	0.728674847095263
PA0776	PA0776	2.021	0.073	7.42643186867032e-94	0.631866384945636
PA0777	PA0777	-1.363	-0.024	1.98093789394294e-19	0.915475071171356
PA0778	icp	-1.633	-0.071	1.70989056410813e-32	0.717885222547415
PA0779	asrA	-0.804	-0.231	3.50506277943626e-09	0.18293182263857
PA0780	pruR	-1.647	0.311	8.64339473617899e-80	0.00107712127794816
PA0781	PA0781	6.036	0.371	6.35388514460186e-141	0.268703611295301
PA0782	putA	-3.617	0.035		0.787227093323352
PA0783	putP	-2.969	-0.01		0.93156012284837
PA0784	PA0784	0.095	0.018	0.33620430848135	0.90710337888009

PA0785	azoR1	0.328	0.031	0.00924228845951186	0.879328753877621
PA0786	PA0786	-0.202	0.174	0.450447437969797	0.630952763926648
PA0787	PA0787	-0.183	0.247	0.199002751932699	0.147609915761325
PA0788	PA0788	2.307	0.525	1.96010275272385e-59	0.00123727200029134
PA0789	PA0789	-1	0.066	1.66247858499583e-16	0.714216717949635
PA0790	PA0790	-1.108	0.667	1.08950100640347e-05	0.00449413733365658
PA0791	PA0791	0.629	0.208	2.60127470319066e-06	0.234080511604933
PA0792	prpD	-0.185	-0.027	0.265829101019952	0.91582091391408
PA0793	PA0793	4.053	-0.022	2.74664898940401e-136	0.938642603978266
PA0794	PA0794	4.441	-0.093	1.17972697765063e-114	0.76381832703202
PA0795	prpC	3.435	-0.244	7.25294441898024e-57	0.417075472153749
PA0796	prpB	1.997	-0.207	2.18618922334986e-14	0.587933033816968
PA0797	PA0797	0.27	0.075	0.285158371501345	0.847467712229842
PA0798	pmtA	0.055	0.338	0.852990538033514	0.356130206941056
PA0799	PA0799	-0.969	0.272	1.0137071311941e-25	0.00755947947012623
PA0800	PA0800	-4.145	-0.386	8.79396407758001e-111	0.00120057700350226
PA0801	PA0801	-2.933	-0.366	7.29721045565794e-95	0.02154902468298
PA0802	PA0802	-4.578	-0.459	6.74101812823906e-91	0.000361272782746822
PA0803	PA0803	0.846	0.038	3.13981793726269e-17	0.814404290934742
PA0804	PA0804	1.143	-0.112	1.71156923299835e-37	0.364330499089745
PA0805	PA0805	-1.17	-0.889	3.16043913724271e-14	6.63015621849407e-08
PA0806	PA0806	-0.278	-0.173	0.0939832266486357	0.434265061198462
PA0807	ampDh3	-0.828	0.28	0.000137770683739331	0.33164125479273
PA0808	PA0808	0.428	0.091	0.00616455940259016	0.699454244466753
PA0809	PA0809	0.128	0.596	0.483727581294016	0.00197249807385868
PA0810	PA0810	0.498	0.02	7.2780956138141e-09	0.887035590349533
PA0811	PA0811	0.723	0.601	2.61578222816794e-06	0.000469741021033004
PA0812	PA0812	0.173	-0.08	0.263024278990725	0.724690733026423
PA0813	PA0813	1.074	0.109	1.87214338751083e-10	0.667392308453976
PA0814	PA0814	0.641	0.176	2.81997949297875e-05	0.406715448172947
PA0815	PA0815	0.459	0.235	6.27330494849064e-06	0.0557322927725241
PA0816	PA0816	1.29	0.113	3.94624197450267e-17	0.622462286213805
PA0817	PA0817	-0.806	0.113	0.00175777579168283	0.771225729024939
PA0818	PA0818	-3.178	-0.219	1.74940561888846e-100	0.105067484234005
PA0819	PA0819	-2.179	0.566	5.34585466743881e-12	0.125105244695232
PA0820	PA0820	0.16	-0.148	0.347286720920244	0.518982646403539
PA0821	PA0821	0.604	-0.322	2.05449721432535e-05	0.0645764052170459
PA0822	PA0822	-0.13	-0.248	0.589297687379465	0.431751935902074
PA0823	PA0823	-0.113	-0.58	0.789727200471016	0.289269008932675
PA0824	PA0824	0.329	-0.269	0.332778142057628	0.5860341284103
PA0825	PA0825	0.526	-0.53	0.0151673174424604	0.0580539996561417
PA0826	PA0826	3.534	-0.276	2.28128974500871e-112	0.199877961541655
PA0826.1	PA0826.1	NA	NA	NA	NA
PA0826.2	ssrA	0.736	-0.001	2.73082214189105e-06	0.997369907054611
PA0827	PA0827	-1	-0.061	2.72399069193524e-26	0.648344165682979
PA0828	PA0828	-0.647	0.561	0.00321272403998652	0.0254750212314984
PA0829	PA0829	0.445	0.559	0.0921649570987738	0.075829315316424
PA0830	PA0830	0.549	-0.354	6.81282247317710e-09	0.00153108169614014
PA0831	oruR	-0.705	0.315	8.04705992899578e-09	0.0283993659520236
PA0832	PA0832	0.357	0.243	0.0219960844201298	0.218021928711071

PA0833	PA0833	1.878	-0.11	8.71479603963232e-70	0.458894390048569
PA0834	PA0834	0.398	0.004	4.4132867948708e-05	0.982278593283696
PA0835	pta	0.864	-0.122	4.39134143584124e-41	0.143166160248109
PA0836	ackA	0.825	-0.228	4.54970572538362e-24	0.0203988184550924
PA0836.1	P5	-1.402	0.835	0.00130158806336482	0.0664441663752069
PA0837	slyD	-0.174	0.352	0.117077717870208	0.00452068958620776
PA0838	PA0838	1.146	0.3	1.77872209829424e-53	0.000371459364971914
PA0839	PA0839	-0.321	0.102	0.109438820208135	0.727261246408108
PA0840	PA0840	0.654	0.089	5.58963142822305e-06	0.683450012990637
PA0841	PA0841	0.698	0.209	0.000776846754322632	0.46462295710473
PA0842	PA0842	0.396	0.257	0.119598910068109	0.454331367907468
PA0843	plcR	1.289	-0.071	1.74389167072872e-12	0.813677771027381
PA0844	plcH	0.77	0.063	3.8151564322147e-06	0.820683017282275
PA0845	cerN	1.82	0.47	7.42712242785304e-32	0.0210737930574314
PA0846	PA0846	-0.944	0.101	3.82220649150418e-24	0.417610111003479
PA0847	PA0847	0.663	0.173	1.73919864921673e-10	0.19584824819225
PA0848	ahpB	-0.527	-0.511	1.3889158454521e-05	0.000130380902598045
PA0849	trxB2	0.933	0.323	5.20782937824509e-15	0.0230922115375155
PA0850	PA0850	0.597	0.179	0.00162852568800767	0.50023671872193
PA0851	PA0851	-0.703	-0.21	3.14605378514429e-06	0.285896149842082
PA0852	cbpD	0.354	-0.844	0.120856440519965	0.000701910634710359
PA0852.1	NA	0.642	0.02	0.03327894606124	0.968018171086751
PA0853	PA0853	1.071	-0.157	1.16732253281272e-26	0.239805972389133
PA0854	fumC2	1.587	-0.384	6.25166866562374e-74	0.000101756534877922
PA0855	PA0855	-0.367	-0.344	0.027649798976304	0.0876973499524582
PA0856	PA0856	-0.147	-0.05	0.283914713619231	0.809921222202466
PA0857	bolA	-0.194	-0.135	0.145850840212926	0.447122085822656
PA0858	PA0858	0.423	-0.036	7.2083679235616e-07	0.787709038207167
PA0859	PA0859	0.957	0.337	2.57909977351854e-10	0.0714096693571331
PA0860	PA0860	1.184	0.144	2.9906208986888e-27	0.335291994030161
PA0861	rbdA	0.118	0.292	0.251268831488179	0.0108674165419399
PA0862	PA0862	0.66	-0.013	2.98282657925199e-21	0.911302755469389
PA0863	PA0863	-0.35	0.092	0.0330908851907591	0.701495691775437
PA0864	PA0864	-0.798	0.279	1.68568360458756e-08	0.094025983850687
PA0865	hpd	1.821	0.105	0.00517433945700902	0.918176224209309
PA0866	aroP2	1.172	0.256	0.0107318009988755	0.708220313342833
PA0867	mliC	-0.443	-0.082	7.19077659207166e-07	0.509737675754092
PA0868	PA0868	-0.884	0.14	1.67578510302718e-13	0.357795639726287
PA0869	pbpG	1.866	0.277	8.78691985562721e-71	0.0299796206171411
PA0870	phhC	-1.247	0.002	1.88226954177105e-39	0.992819788091883
PA0871	phhB	-0.956	-0.223	1.10329461086201e-10	0.246457411757289
PA0872	phhA	-4.028	-0.172	1.4239932347954e-21	0.795610053644878
PA0873	phhR	-0.521	0.006	2.14374813929073e-05	0.974684575592469
PA0874	PA0874	-0.878	0.038	0.000156864270600099	0.915859326949674
PA0875	PA0875	0.858	0.523	5.2688879617739e-14	4.081197805409e-05
PA0876	PA0876	2.314	0.211	2.67654144628441e-82	0.185766813550024
PA0877	PA0877	-0.371	0.434	0.00516463344682996	0.0021884339370685
PA0878	PA0878	0.295	0.453	0.100805675648211	0.0263216946296492
PA0879	PA0879	0.43	-0.021	0.0724417351930161	0.956731016758866
PA0880	PA0880	-0.275	-0.382	0.268924936956834	0.218749875188958

PA0881	PA0881	0.16	0.121	0.478710944223164	0.709065480849823
PA0882	PA0882	-0.069	0.242	0.697681544215813	0.257161876948954
PA0883	PA0883	-0.015	-0.013	0.962574943363165	0.978150358032392
PA0884	PA0884	1.381	-0.017	6.59868861518013e-19	0.950897371567443
PA0885	PA0885	1.311	0.657	1.40941404297745e-07	0.0328046004730014
PA0886	PA0886	0.926	0.26	2.1784313431206e-13	0.116346726293023
PA0887	acsA	0.813	0.134	4.35332348183609e-05	0.648371436065503
PA0887.1	P7	0.238	0.267	0.317542248980987	0.386513324981921
PA0888	aotJ	0.926	0.126	6.61508457137006e-18	0.391707695179198
PA0889	aotQ	-0.071	-0.124	0.560468422999686	0.436379883685963
PA0890	aotM	0.476	0.146	5.01653317618442e-06	0.289854154064522
PA0891	PA0891	0.694	0.021	2.00265752948108e-08	0.915859326949674
PA0892	aotP	0.601	0.063	5.60230776986647e-10	0.66888291268614
PA0893	argR	0.993	0.304	7.23698051446686e-22	0.0127815243090115
PA0894	PA0894	0.612	0.319	8.63356546011731e-06	0.0575324368352287
PA0895	aruC	-2.787	-0.393	2.8719991729099e-114	0.00569612525687417
PA0896	aruF	-2.841	-0.275	1.77708625788415e-85	0.125882124560548
PA0897	aruG	-2.327	-0.24	2.02816266601024e-105	0.0564729257145405
PA0898	aruD	-2.074	-0.123	1.47516363662835e-68	0.443609878100915
PA0899	aruB	-0.338	-0.04	2.89511164327931e-05	0.74577441886058
PA0900	PA0900	-0.245	-0.439	0.0719175538143119	0.00405537097183321
PA0901	aruE	-0.157	-0.164	0.112513563301757	0.182357830723461
PA0902	PA0902	-1.508	-0.07	2.38072953054812e-23	0.761363529604932
PA0903	alaS	-0.716	-0.178	2.86686304056897e-10	0.225460279444276
PA0904	lysC	-0.836	-0.238	1.21686793373838e-19	0.0305648435773292
PA0905	rsmA	0.722	-0.142	0.00025217208781817	0.620707274441045
PA0905.1	PA0905.1	-0.357	0.685	0.0324995221614731	0.000150763092963668
PA0905.2	PA0905.2	-1.634	0.509	8.90219153214612e-18	0.0239978684743805
PA0905.3	PA0905.3	-1.74	0.579	1.83432919473277e-23	0.00346355891296228
PA0906	PA0906	0.104	0.018	0.344447836069127	0.915859326949674
PA0907	PA0907	1.484	0.203	8.81964128073624e-15	0.446765858013169
PA0908	PA0908	-0.296	0.574	0.30605697359328	0.0905956294727679
PA0909	PA0909	-0.087	0.576	0.780967079535076	0.108691047620612
PA0910	PA0910	0.84	0.591	0.0187257849521471	0.186580789204409
PA0911	PA0911	0.545	0.482	0.154549646446531	0.331300606674763
PA0912	PA0912	0.598	-0.343	0.000946194124843668	0.158929786973815
PA0913	mgtE	0.341	0.554	0.00756072829134098	6.19760794663258e-05
PA0914	PA0914	3.135	0.725	2.55496443375344e-32	0.055138224581659
PA0915	PA0915	3.07	0.3	3.48693303668033e-47	0.391498741326753
PA0916	PA0916	2.029	0.121	4.35795990330877e-92	0.401335766546746
PA0917	kup	0.663	0.283	1.07492062075995e-16	0.00195459488586075
PA0918	PA0918	5.327	0.447	5.76968063755729e-244	0.0281617097230711
PA0919	PA0919	0.588	0.08	5.85183553091303e-08	0.612327138233078
PA0920	PA0920	0.355	0.091	4.13650371491523e-05	0.445134503238882
PA0921	PA0921	-0.235	-0.202	0.268841325815422	0.474425101482791
PA0922	PA0922	1.458	0.212	3.01857934256022e-20	0.327321519244147
PA0922.1	PA0922.1	-1.591	0.812	1.82979304385842e-12	8.47644705875421e-05
PA0923	dinB	0.005	0.369	0.971097610506149	0.0145141761947071
PA0924	PA0924	0.304	0.357	0.0270734097282185	0.0245211950678143
PA0925	PA0925	0.464	-0.023	0.000190638999672236	0.908966482602023

PA0926	PA0926	0.091	0.177	0.437213403313324	0.213677283055515
PA0927	ldhA	0.37	0.253	4.53865629941214e-05	0.0174629392662943
PA0928	gacS	0.169	0.229	0.00812472268833724	0.00125291341327977
PA0929	PA0929	-5.501	-0.891		0.169528275429502e-29
PA0930	PA0930	-2.41	-0.504	1.84326154878995e-168	1.16183845403889e-09
PA0931	pirA	-3.183	-1.012	6.51005056425007e-114	1.01212667553555e-12
PA0932	cysM	-1.501	0.117	6.79961599453905e-61	0.331554136023777
PA0933	ygcA	-0.381	0.162	2.34297680587877e-09	0.0317083609633554
PA0934	relA	-0.151	-0.153	0.128933117241824	0.219781019376743
PA0935	PA0935	-0.614	-0.339	1.13496701431794e-15	5.56516379471344e-05
PA0936	lpxO2	-1.132	0.184	1.138142941251e-45	0.0567890727294473
PA0937	PA0937	-1.281	-0.07	3.75068007998661e-15	0.781769263839428
PA0938	wzz2	-3.158	-0.517	2.93170855816466e-159	7.80719945289357e-05
PA0939	PA0939	-0.993	1.065	1.82882491012037e-08	5.60452816265386e-10
PA0940	PA0940	-1.009	1.062	5.35894077410759e-11	9.94833075578984e-12
PA0941	PA0941	-1.016	0.899	2.85694833808396e-11	5.76960112919615e-09
PA0942	PA0942	0.236	0.659	0.075834349646997	2.11491743361449e-06
PA0943	PA0943	0.669	-0.407	3.99461674515469e-13	7.46455923053915e-05
PA0944	purN	-0.108	-0.094	0.237851263187699	0.436379883685963
PA0945	purM	-0.587	-0.178	8.46581937424854e-09	0.167434309646163
PA0946	PA0946	-0.638	-0.141	5.71706515346317e-20	0.10127231532057
PA0947	PA0947	-1.279	0.175	2.81455040497223e-26	0.253550035927985
PA0948	PA0948	-1.039	0.038	1.80049478438864e-10	0.879219558214065
PA0949	wrbA	-0.655	-0.186	5.42469112667542e-16	0.0544587542959942
PA0950	PA0950	-0.551	-0.015	4.05117722425792e-06	0.938642603978266
PA0951	PA0951	-1.065	0.019	2.64820823800088e-30	0.898112210801848
PA0952	PA0952	-1.692	-0.43	2.58523417705175e-20	0.0424359624989526
PA0953	PA0953	-0.392	0.041	0.000243257449387832	0.807191572620621
PA0954	PA0954	0.453	-0.056	0.00338688572053012	0.817115120615627
PA0955	PA0955	-1.312	-0.064	4.25907709589562e-31	0.705005121336101
PA0956	proS	-1.21	-0.111	7.25119794120073e-39	0.380826524740092
PA0957	PA0957	-0.138	0.128	0.308780409924754	0.471438340629977
PA0958	oprD	1.638	-0.131	3.2517586435035e-38	0.458739034347327
PA0959	PA0959	1.592	0.315	3.10532651071453e-48	0.0155440982089391
PA0960	PA0960	1.521	0.112	2.17767932542266e-38	0.509191185672545
PA0961	PA0961	-2.517	-0.029	9.35032535692554e-48	0.897231746710581
PA0962	dps	-0.08	-0.426	0.593851754361633	0.00944627115653664
PA0963	aspS	-1.647	-0.058	1.19153527508533e-51	0.726821139114222
PA0964	pmpR	-1.752	-0.077	6.19210735508682e-62	0.616810059507547
PA0965	ruvC	-0.418	-0.051	0.00181305385870051	0.809897660068608
PA0966	ruvA	-0.933	0.078	4.46824427684964e-26	0.526033830417447
PA0967	ruvB	-0.127	0.18	0.151113655114494	0.0866187084028982
PA0968	PA0968	-2.309	0.206	6.57766950415716e-109	0.10692560607474
PA0969	tolQ	-1.791	0.018	2.84747247778946e-106	0.890351016081659
PA0970	tolR	-1.614	-0.078	7.67060857458825e-51	0.620707274441045
PA0971	tolA	-1.282	-0.156	5.81838763066268e-48	0.163856679417097
PA0972	tolB	-1.14	-0.103	3.18679630920463e-30	0.45691506168101
PA0973	oprL	-1.556	-0.053	3.0957648626635e-30	0.808882058287766
PA0974	PA0974	-1.582	0.176	8.88242202162169e-43	0.243164007717618
PA0975	PA0975	-1.362	0.368	1.16595772806848e-31	0.00306834003922751

PA0976	PA0976	-0.053	0.663	0.73796230277002	3.33899380119039e-05
PA0976.1	PA0976.1	-2.049	0.785	4.82454768040731e-23	0.00045583838200482
PA0977	PA0977	0.546	0.145	0.0849963154539906	0.769492070193689
PA0978	PA0978	-0.136	0.046	0.300366657347078	0.8154627964762
PA0979	PA0979	0.405	0.094	0.0223458222916738	0.726870604765118
PA0980	PA0980	1.188	-0.253	0.0130622963040017	0.742362422302831
PA0981	PA0981	1.872	0.341	2.71563718368858e-12	0.357534780158393
PA0982	PA0982	0.593	0.428	1.19878839120573e-08	0.000215498109727819
PA0983	PA0983	1.207	0.004	2.10362133084508e-15	0.989051257949327
PA0984	PA0984	-3.213	-1.049	4.03513584270016e-37	0.000170343379510111
PA0985	pyoS5	-2.033	-1.777	9.32201264588605e-27	6.94874424865271e-20
PA0986	PA0986	0.128	-0.2	0.676137240579706	0.644837868070098
PA0987	PA0987	0.098	0.401	0.564851232336074	0.0333047209286375
PA0988	PA0988	-0.767	0.206	3.027341495551e-10	0.180450297608703
PA0989	PA0989	-1.781	-0.539	5.00732218615593e-22	0.00452468421399884
PA0990	PA0990	2.246	-0.202	9.51447784939065e-50	0.347190420649312
PA0991	hptA	0.303	-0.385	0.0974461314599329	0.0842079988249402
PA0992	cupC1	-0.301	-0.078	0.0314737548630261	0.7023350420755
PA0993	cupC2	0.639	-0.206	0.0141386757620922	0.613163145144381
PA0994	cupC3	0.149	0.251	0.141585923493375	0.0309194681111882
PA0995	ogt	0.301	0.169	0.0292087366608794	0.351226692446642
PA0996	pqsA	-1.462	-4.601	0.000232750196086681	1.64811093194907e-30
PA0997	pqsB	-1.036	-4.937	0.0107318009988755	1.36694612330301e-33
PA0998	pqsC	-0.884	-4.323	0.0512010829144789	2.12392987284726e-21
PA0999	pqsD	-0.671	-3.478	0.0623849951872528	3.74443249484502e-22
PA1000	pqsE	-0.93	-3.276	0.0118646184389022	1.89675968490222e-18
PA1001	phnA	-1.489	-3.468	7.27874439444398e-07	4.59451737142201e-30
PA1002	phnB	-1.037	-2.696	0.00015675586556808	9.09731585632834e-22
PA1003	mvfR	-0.529	-0.848	1.25226718589542e-05	1.60613770616876e-11
PA1004	nadA	0.482	0.196	1.35471034250244e-07	0.0817345204964594
PA1005	PA1005	-0.555	-0.559	1.52642924461303e-08	8.70187318470966e-08
PA1006	PA1006	-1.568	0.761	7.10791760021845e-46	7.86049904115867e-14
PA1007	PA1007	-1.886	0.88	1.8166013482556e-62	1.4999190571138e-16
PA1008	bcp	-1.053	-0.051	1.35922548594476e-33	0.69812341929633
PA1009	PA1009	-1.48	-0.251	9.35871025560401e-55	0.0230501358374725
PA1010	dapA	-1.287	0.069	1.62988694653962e-69	0.501043746812814
PA1011	PA1011	-1.237	0.087	1.01194049906688e-16	0.699177768361699
PA1012	PA1012	-1.132	0.294	2.02497518604912e-31	0.00756592331548204
PA1013	purC	-0.134	0.031	0.206647958928007	0.849255728923118
PA1013.1	PA1013.1	-0.656	1.133	0.00133036779314896	1.16537655682907e-07
PA1014	wapB	-0.478	-0.208	5.87850515606055e-09	0.0330753851088453
PA1015	PA1015	0.203	-0.31	0.159081091638487	0.0740737768532504
PA1016	PA1016	1.48	0.158	1.19027606673954e-46	0.275345978953029
PA1017	pauA	0.457	0.349	7.04102383107277e-06	0.0026082684899469
PA1018	PA1018	1.33	0.466	7.63790757829914e-10	0.101936870810082
PA1019	mucK	0.632	0.326	0.00302138713928154	0.239844350775319
PA1020	PA1020	0.649	-0.054	1.69311742001334e-07	0.784203930426518
PA1021	PA1021	0.526	-0.464	3.91025834215157e-05	0.00256899122913347
PA1022	PA1022	0.614	-0.524	3.57488748889989e-06	0.000601166353164916
PA1023	PA1023	0.582	-0.4	8.6762482337794e-08	0.00168995395308697

PA1024	PA1024	0.338	-0.249	0.00684149751441089	0.110725402276182
PA1025	PA1025	0.987	-0.034	1.07261988544447e-13	0.883183428320051
PA1026	PA1026	-1.058	-0.139	1.47772299998911e-15	0.415113227679385
PA1027	PA1027	4.158	-0.732	3.46843637492156e-31	0.103098312297826
PA1028	PA1028	3.735	-0.676	6.11975174163142e-25	0.142421609491744
PA1029	PA1029	1.863	0.168	6.38978332204077e-19	0.585067172110325
PA1030	PA1030	1.532	-0.031	1.84412082291935e-16	0.918488871253612
PA1030.1	P8	1.007	-0.16	0.000497266593123774	0.715322790767632
PA1031	PA1031	-0.577	-0.189	6.98351301398996e-16	0.0252819998212687
PA1032	quiP	-0.544	0.055	5.26898230466819e-08	0.715322790767632
PA1033	PA1033	0.671	-0.301	1.38888446246654e-14	0.00306124843839919
PA1034	PA1034	-1.783	0.033	5.86212412807579e-27	0.900226009800283
PA1035	PA1035	-1.836	-0.089	2.30073378407775e-36	0.678931751065958
PA1036	PA1036	0.587	0.105	1.85641332304809e-07	0.509737675754092
PA1037	PA1037	0.359	0.159	0.00343846857755925	0.331589169794789
PA1038	PA1038	0.346	0.234	0.00620618980131842	0.135588934280168
PA1039	PA1039	-0.066	0.014	0.478274213763342	0.922375780555513
PA1040	PA1040	-0.194	-0.071	0.0183134231550086	0.530710141431802
PA1041	PA1041	2.7	0.234	5.04606605296873e-230	0.0188985748430005
PA1042	PA1042	0.8	-0.131	1.23388266154673e-11	0.428987804910561
PA1043	PA1043	0.529	-0.217	1.39936970438947e-11	0.0218474749060491
PA1044	PA1044	-0.405	0.042	0.000622004202228662	0.814149173066361
PA1045	PA1045	-1.487	-0.111	8.92088667312871e-83	0.232703093248676
PA1046	PA1046	0.712	0.182	2.56669832955389e-14	0.124661345444939
PA1047	PA1047	-0.313	-0.052	0.000936329367796304	0.710708345310536
PA1048	PA1048	1.753	0.639	9.69214097762729e-81	5.97812216219485e-11
PA1049	pdxH	0.422	0.118	9.12466145151854e-07	0.29818770352245
PA1050	PA1050	-0.326	0.002	0.0043044468630602	0.993444220216574
PA1051	PA1051	-1.731	-0.72	0.00250382215533122	0.341017966229691
PA1052	PA1052	-0.752	0.051	0.0159841403255526	0.916114907499967
PA1053	PA1053	0.382	0.463	0.00435139975370848	0.00207728876372584
PA1054	shaA	0.348	0.265	7.3949894853922e-05	0.00919565343109573
PA1055	shaB	0.689	0.178	3.64122478428334e-09	0.252599599759257
PA1056	shaC	0.441	0.268	0.000547079536083114	0.085170353683727
PA1057	shaD	0.484	0.222	6.49998003392195e-05	0.145800810975249
PA1058	shaE	0.673	0.391	2.71539549394246e-09	0.00299922550148361
PA1059	shaF	0.818	0.214	1.82487606415472e-11	0.175181807679158
PA1060	PA1060	-0.164	0.484	0.0501851709933243	1.2664658949386e-08
PA1061	PA1061	-0.619	-0.014	5.43648057041799e-05	0.953382684817309
PA1062	PA1062	-0.444	-0.015	0.000884950390339976	0.944570434436916
PA1063	PA1063	-0.48	0.018	0.000865809150797191	0.938642603978266
PA1064	PA1064	-0.67	-0.22	3.25220363906756e-07	0.186104005115772
PA1065	PA1065	0.764	-0.049	1.40062401820753e-07	0.831129403812671
PA1066	PA1066	1.227	0.108	3.20783527602714e-35	0.453191252273317
PA1067	PA1067	0.141	-0.209	0.199002751932699	0.12317269083213
PA1068	PA1068	-0.835	-0.364	1.43279717740065e-22	0.000107331416130911
PA1069	PA1069	0.728	-0.447	9.88773630821522e-15	1.86751984859907e-05
PA1070	braG	2.433	0.093	4.04114711477792e-91	0.620815323715236
PA1071	braF	2.852	0.122	6.75100447531466e-81	0.595858422643616
PA1072	braE	2.811	0.098	3.94125133248157e-115	0.606968782016136

PA1073	braD	2.22	0.015	3.34645083839405e-48	0.953382684817309
PA1074	braC	1.537	-0.106	1.65226327241141e-50	0.46462295710473
PA1075	PA1075	-0.5	0.14	0.00011512453106213	0.421531572959489
PA1076	PA1076	0.348	0.057	0.000109775545328256	0.667929006701864
PA1077	flgB	0.481	0.341	0.0102359760240389	0.142421609491744
PA1078	flgC	0.625	0.166	0.000295191444437291	0.488026787015285
PA1079	flgD	0.649	0.138	0.000661865642477618	0.616616900475094
PA1080	flgE	1.043	0.243	6.70682749520394e-09	0.311680201940126
PA1081	flgF	0.478	0.389	0.000643684355685072	0.0171281291464362
PA1082	flgG	0.626	0.078	4.73324316423485e-05	0.739173184112575
PA1083	flgH	0.61	0.027	0.000715400916983066	0.926142399134448
PA1084	flgI	0.529	0.306	0.00112913803923773	0.129093860956403
PA1085	flgJ	0.463	0.346	0.00312481085147846	0.0674721262407524
PA1086	flgK	0.927	0.119	5.85290701968343e-08	0.636731774876287
PA1087	flgL	1.3	0.113	7.27790179790406e-16	0.636606770033831
PA1088	PA1088	0.426	0.162	0.0103451628622052	0.477201345581773
PA1089	PA1089	0.141	0.253	0.388220647751678	0.20622563414508
PA1090	PA1090	0.847	0.252	1.6665626693996e-10	0.132746771201594
PA1091	fgtA	0.316	0.232	0.0732101882776847	0.310874547531006
PA1092	fliC	1.339	0.148	9.13376910967071e-20	0.47320473955536
PA1093	PA1093	0.83	-0.094	2.23039559201598e-09	0.646718572251588
PA1094	fliD	1.178	-0.123	5.56872028553159e-20	0.497340110103118
PA1095	PA1095	0.808	0.224	4.5654361810935e-08	0.245456774275559
PA1096	PA1096	0.469	0.207	0.000360491351836942	0.218291516550395
PA1097	fleQ	0.76	0.024	9.05208283924472e-22	0.85053807964183
PA1098	fleS	0.558	0.382	3.5081674840537e-05	0.0152338982497107
PA1099	fleR	0.924	0.463	4.52450817025025e-09	0.0119855736878645
PA1100	fliE	1.263	0.391	1.47485109049521e-19	0.0188692349855543
PA1101	fliF	0.824	0.277	3.55817428142408e-14	0.0340473574694867
PA1102	fliG	0.406	0.104	0.000820681324008577	0.546416179212499
PA1103	PA1103	0.428	0.32	3.02012888919146e-05	0.00675603596437694
PA1104	fliI	0.233	0.215	0.0110359104250575	0.0473199351988206
PA1105	fliJ	0.711	0.224	5.2323320846852e-10	0.12530256064392
PA1106	PA1106	-2.05	0.093	1.39218126483767e-98	0.483191309926166
PA1107	roeA	0.531	0.274	0.00100427585893006	0.178568784903926
PA1108	PA1108	1.183	0.558	7.70887110271784e-08	0.0427829727143969
PA1109	PA1109	0.348	0.166	0.00409543381823742	0.294871656025071
PA1110	PA1110	-1.102	0.193	9.87564161984027e-28	0.106672238936635
PA1111	PA1111	1.533	-0.059	9.62780785009964e-19	0.836652591710901
PA1112	PA1112	1.068	-0.252	2.55641156720526e-50	0.00314609547491535
PA1112.1	PA1112.1	0.045	0.753	0.753548751559037	8.43541035396852e-08
PA1113	PA1113	-1.145	0.097	1.88873555601061e-33	0.420351885424231
PA1114	PA1114	2.078	0.206	6.25560876918776e-52	0.280692116628855
PA1115	PA1115	0.882	0.187	1.15579533621284e-15	0.185766813550024
PA1116	PA1116	-0.918	-0.378	3.98215161321902e-16	0.00208609830330144
PA1117	PA1117	-0.405	0.383	4.75783748218749e-06	2.71639827803839e-05
PA1118	PA1118	1.509	0.345	1.2612066140703e-30	0.0289267813328472
PA1119	yfiB	0.908	0.12	1.78787067069975e-10	0.561799424761258
PA1120	tpbB	0.117	-0.127	0.381675213228328	0.476124135744537
PA1121	yfiR	0.329	0.173	0.000726363341855197	0.155426981896127

PA1122	PA1122	1.178	-0.195	9.07991805647951e-31	0.13912141783371
PA1123	PA1123	0.201	0.864	0.0645200757303785	3.22798253816208e-16
PA1124	dgt	0.445	-0.166	1.60425790395034e-08	0.0891737570921405
PA1125	PA1125	0.397	0.007	0.000154660659031487	0.966804188070011
PA1126	PA1126	-0.834	0.056	5.35316308602878e-16	0.693788610754411
PA1127	PA1127	-0.189	0.272	0.0861534539749093	0.0305648435773292
PA1128	PA1128	-0.097	-0.168	0.391347477565321	0.229877791643913
PA1129	PA1129	-0.384	-0.198	0.0040428532476985	0.238087573876691
PA1130	rhIC	-0.598	-0.085	3.19271639825334e-05	0.6959990711266
PA1131	PA1131	-2.006	0.418	4.53014841521653e-34	0.0339809380338383
PA1132	PA1132	0.008	-0.001	0.949370603140555	0.99736135557104
PA1133	PA1133	-2.528	-0.586	1.62416215152975e-76	1.99229811119344e-05
PA1134	PA1134	-7.568	-0.938		0 4.24595841283035e-27
PA1135	PA1135	1.807	-0.04	1.30086493524613e-37	0.864710376193529
PA1136	PA1136	0.556	-0.045	1.37458181217438e-05	0.825871599509213
PA1137	PA1137	-0.309	0.178	0.0601671347538038	0.393226968339505
PA1138	PA1138	0.919	0.116	3.20223766487012e-08	0.650466382920257
PA1139	PA1139	0.742	0.111	1.25793470255913e-07	0.590428307104472
PA1140	PA1140	1.366	-0.467	2.06239722743207e-13	0.038414150143907
PA1141	PA1141	-0.282	-0.12	0.0282150988120274	0.490929619475065
PA1142	PA1142	-1.819	0.038	9.9617105262348e-60	0.813922098146364
PA1143	PA1143	1.403	0.136	0.000232889603948261	0.836774400842945
PA1144	PA1144	1.461	0.348	2.17444835138026e-08	0.347190420649312
PA1145	PA1145	-0.495	0.046	2.65749824283168e-06	0.772111490991635
PA1146	PA1146	-0.047	0.612	0.810772957565974	0.0014155721958536
PA1147	PA1147	-0.153	0.396	0.215970147692718	0.00279455930211404
PA1148	toxA	-4.565	-0.453	2.0259085604132e-222	0.0020144266415461
PA1149	PA1149	0.248	0.193	0.152287157490077	0.400176177851827
PA1150	pys2	-1.16	-0.877	2.17889167877612e-12	8.34373623426617e-07
PA1151	imm2	-0.304	-0.418	0.185960888129838	0.133939937631075
PA1152	PA1152	-0.08	-0.591	0.801957045825226	0.111749336846821
PA1153	PA1153	-0.295	-0.361	0.0548904199699809	0.0452527615202387
PA1154	PA1154	-0.745	0.227	0.00287194533862678	0.449945505741061
PA1155	nrdB	-1.695	0.414	1.60889101228411e-56	0.000601166353164916
PA1156	nrdA	-1.567	0.203	8.99044573898388e-46	0.147609915761325
PA1157	PA1157	-0.705	0.24	4.49883419052761e-12	0.0384587427669419
PA1158	PA1158	0.157	0.212	0.0844384715007731	0.0449574941853859
PA1159	PA1159	-1.039	0.237	3.63161759944496e-26	0.046140909372395
PA1160	PA1160	-0.721	-0.155	7.60799010423694e-08	0.395626365761354
PA1161	rrmA	-3.952	-0.707	3.27448861216939e-197	2.72851074452089e-08
PA1162	dapE	-4.615	-0.835	1.8969321053321e-277	5.67566637316571e-11
PA1163	ndvB	0.98	0.427	3.11261545396669e-17	0.00130187880090023
PA1164	PA1164	-0.52	0.031	3.65989964027682e-08	0.833289647553706
PA1165	pcpS	-0.177	0.389	0.301561878720132	0.0456822138753044
PA1166	PA1166	0.401	-0.034	0.000517588845901584	0.853605337858352
PA1167	PA1167	0.214	0.07	0.0536902176883652	0.667168647278054
PA1168	PA1168	1.697	-0.227	0.000114062237313027	0.732214925677116
PA1169	PA1169	1.545	-0.18	1.63909257608503e-11	0.592846176009235
PA1170	PA1170	-2.171	0.746	3.46969670133337e-73	1.46272104509497e-10
PA1171	PA1171	-0.696	-0.192	2.55943541987897e-19	0.0371908202629217

PA1172	napC	6.917	-0.544		0.0261711995578053
PA1173	napB	7.411	-0.227	2.35048803812722e-228	0.605008982703623
PA1174	napA	6.244	-0.367		0.00928940231277428
PA1175	napD	3.777	-0.904	4.82270749990532e-147	2.20868146222451e-07
PA1176	napF	3.697	0.169	1.1892110674686e-42	0.684090124297007
PA1177	napE	3.128	0.042	4.17487482958547e-151	0.838179101322526
PA1178	oprH	0.037	-0.538	0.773793439077373	5.20268876116331e-05
PA1179	phoP	0.488	-0.13	1.05996858523372e-06	0.335291994030161
PA1180	phoQ	0.345	0.017	1.24136736972719e-05	0.89689113223896
PA1181	PA1181	0.92	0.376	6.93812592906418e-23	0.000361062741036749
PA1182	PA1182	-0.216	0.153	0.221447792370355	0.515017157675974
PA1183	dctA	-2.834	0.41	3.26766029933912e-62	0.0394894354115135
PA1184	PA1184	0.151	-0.068	0.138552502675184	0.642548433734814
PA1185	PA1185	1.008	-0.239	1.00163625063138e-05	0.494581546210781
PA1186	PA1186	0.509	0.391	0.00898417429546211	0.102858694810934
PA1187	PA1187	0.279	-0.064	0.0215576093141715	0.728674847095263
PA1188	PA1188	1.019	-0.053	5.14977841384396e-17	0.785284233475465
PA1189	PA1189	-2.26	0.192	2.83819106973517e-28	0.390242992842907
PA1190	PA1190	0.908	-0.291	2.6345831997116e-08	0.162143713506718
PA1191	PA1191	0.699	0.308	1.54522696825077e-05	0.128086815785319
PA1192	PA1192	-1.92	0.02	3.77906052869962e-69	0.908347397354863
PA1193	PA1193	-1.297	-0.115	3.36800030582611e-17	0.596928466584304
PA1194	PA1194	0.309	0.164	0.100531821320541	0.530211578558363
PA1195	PA1195	0.864	0.295	1.71333082780446e-05	0.278179180609328
PA1196	PA1196	0.855	0.071	1.8403766715454e-09	0.75102134756397
PA1197	PA1197	-0.314	-0.324	0.00046022292933859	0.00120998295795826
PA1198	PA1198	-0.719	-0.139	5.579075495976e-08	0.446648684848276
PA1199	PA1199	1.212	0.444	1.7074973686714e-27	0.000430452944808678
PA1200	PA1200	1.547	0.656	1.68750301758942e-37	6.807999670072e-07
PA1201	PA1201	-0.006	-0.149	0.962976756036668	0.37502673770377
PA1202	PA1202	0.755	-0.174	1.92888647106684e-09	0.295964200820428
PA1203	PA1203	0.489	-0.128	6.63518444493683e-06	0.400806554423773
PA1204	PA1204	0.879	-0.144	2.29940768941105e-18	0.293517742662178
PA1205	PA1205	1.013	-0.321	1.77072687646984e-27	0.00344714830822764
PA1206	PA1206	-0.386	-0.279	3.82767204500647e-05	0.00923526017781934
PA1207	kefB	-0.669	-0.285	2.17538554205134e-17	0.00129816435396716
PA1208	PA1208	1.612	0.194	5.27906311533758e-58	0.138637723468592
PA1209	PA1209	1.17	0.207	1.29361780085573e-17	0.261563530297231
PA1210	PA1210	-0.319	0.283	0.00742768801841633	0.0379984696609004
PA1211	PA1211	2.504	0.733	3.02850281863198e-40	0.00104387742193529
PA1212	PA1212	3.561	0.62	4.55321888334035e-57	0.0261711995578053
PA1213	PA1213	4.88	0.082	3.29870442181943e-71	0.867408862012556
PA1214	PA1214	5.404	0.163	1.02493866707678e-90	0.714166149876933
PA1215	PA1215	5.547	-0.346	7.9684894724883e-120	0.32505720580922
PA1216	PA1216	6.305	-0.111	8.42832182373103e-193	0.760363054282563
PA1217	PA1217	5.588	-0.094	2.28074470394717e-173	0.776596887622979
PA1218	PA1218	6.835	-0.006	2.15417651174667e-224	0.989433202504069
PA1219	PA1219	5.252	0.215	7.1040920033264e-82	0.692203044527311
PA1220	PA1220	6.429	0.022	5.0869010926314e-140	0.968018171086751
PA1221	PA1221	6.03	-0.076	8.93069291287125e-298	0.829710540879662

PA1222	PA1222	-2.038	-0.154	3.25938817088972e-42	0.417707844869306
PA1223	PA1223	0.677	0.2	2.3214526857643e-05	0.360833569708453
PA1224	PA1224	-0.29	-0.032	0.054138824652394	0.887859269543245
PA1225	PA1225	0.418	0.157	0.0667883712470302	0.636731774876287
PA1226	PA1226	0.62	-0.247	5.59493671857693e-06	0.165394995134092
PA1227	PA1227	0.389	0.34	0.0256229238861956	0.110246507196056
PA1228	PA1228	0.866	-0.012	0.00298740398283765	0.983097783311626
PA1229	PA1229	0.578	-0.161	0.000411844460449521	0.498560245833611
PA1230	PA1230	-1.557	-1.154	0.000656197940114386	0.0197890880747559
PA1231	PA1231	-1.144	-0.501	7.66320962759962e-08	0.0299796206171411
PA1232	PA1232	-0.655	-0.2	0.00028416590819957	0.39682515031103
PA1233	PA1233	-1.566	-1.509	6.15227215836154e-06	4.98359464337948e-05
PA1234	PA1234	-0.424	-0.061	8.91693245945244e-05	0.705005121336101
PA1235	PA1235	-0.539	0.071	0.000665791151515631	0.764414034896807
PA1236	PA1236	-0.48	0.372	0.0737533103698108	0.223969781943114
PA1237	PA1237	0.629	0.33	0.0423662746572467	0.44057050692931
PA1238	PA1238	1.17	0.102	0.00340050454772066	0.881587592507267
PA1239	PA1239	0.243	0.044	0.170567006815762	0.874647225579034
PA1240	PA1240	1.152	0.013	2.58092912628945e-10	0.965929422325263
PA1241	PA1241	-0.315	-0.323	0.00901438101323457	0.0212400476965494
PA1242	sprP	-0.139	0.083	0.464348273163373	0.765199070006346
PA1243	PA1243	-0.291	-0.495	0.0130639619157926	0.000104973506070426
PA1244	PA1244	-0.833	-0.733	1.22612898489635e-16	2.90183590637683e-12
PA1245	aprX	-6.665	-1.623		0 1.34208087107316e-20
PA1246	aprD	-5.634	-1.641	2.25539860539571e-251	4.325785129437e-22
PA1247	aprE	-3.788	-1.464	7.4010691249086e-131	3.33946858126604e-20
PA1248	aprF	-3.905	-1.248	6.76745407055873e-139	8.39602999521303e-15
PA1249	aprA	-3.17	-1.296	4.85478704484508e-56	1.30204798014555e-09
PA1250	aprl	-1.683	-0.659	1.46669178659978e-29	6.57715474686215e-05
PA1251	PA1251	0.812	0.084	0.000706439752342262	0.829710540879662
PA1252	PA1252	0.712	-0.396	2.38538464311471e-15	0.000138278793838803
PA1253	PA1253	2.915	0.157	5.61917975786893e-28	0.72604705782603
PA1254	PA1254	3.032	-0.166	5.96660923064412e-26	0.726821139114222
PA1255	PA1255	2.789	-0.33	5.70886589415364e-29	0.346963894488591
PA1256	PA1256	3.014	-0.296	4.23724914536615e-26	0.472332036062335
PA1257	PA1257	4.066	-0.066	9.03140270326937e-16	0.939084404082602
PA1258	PA1258	2.833	0.606	2.60580780702373e-18	0.159978354687638
PA1259	PA1259	6.024	0.482	1.90762792047822e-26	0.5657197859419
PA1260	PA1260	7.358	0.318	NA	NA
PA1261	PA1261	-0.632	-0.283	2.21699212009287e-06	0.0750397429695132
PA1262	PA1262	-0.559	0.362	0.0611722832258371	0.308469664418789
PA1263	PA1263	0.051	-0.042	0.665740492575625	0.81146325661606
PA1264	PA1264	0.535	0.065	0.00483057059045101	0.828600493552098
PA1265	PA1265	0.427	0.23	0.150147642721256	0.587294484187814
PA1266	PA1266	-0.371	0.04	0.218772498358308	0.931332831023428
PA1267	PA1267	-0.867	-0.276	0.000873305054371397	0.410313024151659
PA1268	PA1268	-0.809	-0.668	5.09509191433533e-05	0.00259343708144373
PA1269	PA1269	0.503	-0.236	0.000649679732352428	0.215083430909104
PA1270	PA1270	-2.089	1.395	3.01364115106849e-28	4.68864412136423e-17
PA1271	PA1271	-0.269	-0.418	0.0576519092974389	0.00935780294643097

PA1272	cobO	-0.119	-0.513	0.379888224534587	0.000469741021033004
PA1273	cobB	-0.543	-0.101	0.00593088274123758	0.728674847095263
PA1274	PA1274	-0.903	-0.043	9.71374677476392e-06	0.890163133232379
PA1275	cobD	-0.612	0.282	0.0104962597088749	0.353164119694911
PA1276	cobC	-0.672	0.075	0.00856481547849791	0.849299483947154
PA1277	cobQ	-0.657	0.21	0.00243451468137291	0.471438340629977
PA1278	cobP	-0.479	-0.29	0.0224426487013169	0.279980547295708
PA1279	cobU	-0.028	0.244	0.910391056759261	0.439064887455799
PA1280	PA1280	-0.235	-0.091	0.35895566123226	0.813677771027381
PA1281	cobV	-0.273	0.697	0.201370103123808	0.00197249807385868
PA1282	PA1282	0.584	0.761	0.00934852900721169	0.0022222273022178
PA1283	PA1283	1.008	-0.182	1.26453815334893e-24	0.162271884911646
PA1284	PA1284	1.185	-0.138	1.47716016339453e-23	0.437719987289321
PA1285	PA1285	0.401	-0.1	0.00389837850412995	0.618988731714465
PA1286	PA1286	1.071	-0.152	1.66990730586425e-15	0.455795382206528
PA1287	PA1287	0.061	-0.11	0.565409053647452	0.42580980003143
PA1288	PA1288	1.586	-0.286	1.2883210115601e-74	0.00498723583560237
PA1289	PA1289	3.445	1.31	3.56562161353874e-66	8.78894996621298e-10
PA1290	PA1290	1.063	-0.18	1.34336752225718e-09	0.487802736751146
PA1291	PA1291	-0.02	-0.388	0.90133732548063	0.0283993659520236
PA1292	PA1292	0.098	-0.29	0.215608120935342	0.00079987732797534
PA1293	PA1293	-1.49	-0.352	1.90203198693473e-27	0.0296598748075192
PA1294	rnd	-0.417	-0.015	9.23916956702831e-08	0.902099116482416
PA1295	PA1295	-0.312	-0.035	0.00271682322747945	0.826932798008344
PA1296	PA1296	0.805	-0.087	1.07785000376187e-16	0.535527715795755
PA1297	PA1297	-1.732	3.931	3.96188260006271e-28	2.04835054252166e-162
PA1298	PA1298	-1.314	3.365	2.60941563793666e-16	5.87365221415505e-119
PA1299	PA1299	-1.488	2.618	1.34668467889328e-37	3.60201872042139e-171
PA1300	PA1300	-7.811	0.161		0 0.339754239952251
PA1301	PA1301	-7.798	0.006		0 0.969515472348422
PA1302	PA1302	-3.21	-0.31	3.03520201648245e-196	0.00864457936969341
PA1303	PA1303	-1.463	0.169	1.66119268960119e-25	0.308469664418789
PA1304	PA1304	-1.571	0.001	2.39603163508639e-35	0.995191939197909
PA1305	PA1305	-1.066	0.428	1.2353797575318e-34	2.03715248689242e-06
PA1306	PA1306	-0.207	0.126	0.0321655704826101	0.31395168928091
PA1307	PA1307	0.265	-0.025	9.50713966075369e-05	0.8154627964762
PA1308	PA1308	-0.361	-0.072	2.54818291955947e-08	0.41192747129757
PA1309	PA1309	0.763	0.079	7.78887234825031e-12	0.64614339881882
PA1310	phnW	1.042	0.106	1.28044708476194e-22	0.510344297768625
PA1311	phnX	0.131	0.091	0.161354443733709	0.46759383779099
PA1312	PA1312	0.002	0.139	0.989295088108771	0.340892241389891
PA1313	PA1313	0.025	0.355	0.862224604946047	0.0214472424602405
PA1314	PA1314	0.634	0.102	2.23548026447324e-07	0.573207524112559
PA1315	PA1315	-0.142	-0.034	0.197228446611798	0.841559473040561
PA1316	PA1316	-2.133	-1.032	6.3776267177096e-72	3.60700859579977e-20
PA1317	cyoA	-8.311	0.312		0 0.0215173414121185
PA1318	cyoB	-7.505	0.411		0 0.00213753791537249
PA1319	cyoC	-7.221	0.403		0 0.0373681300434366
PA1320	cyoD	-7.256	0.705	2.08209222470375e-250	2.24319460949547e-06
PA1321	cyoE	-6.738	0.51		0 0.000122388448536553

PA1322	PA1322	-1.187	-0.294	4.47879453005962e-20	0.0475882410219182
PA1323	PA1323	0.416	-0.321	0.0595900158423065	0.253151266056229
PA1324	PA1324	0.445	-0.53	0.047349606711685	0.0442506255520496
PA1324.1	P9	0.104	-0.148	0.60134168378189	0.589377391101594
PA1325	PA1325	3.854	0.154	1.16898777519821e-06	0.905039707104338
PA1326	ilvA2	5.279	-0.048	3.01948087734689e-10	0.972766976717367
PA1327	PA1327	2.393	-0.091	2.24532023992142e-33	0.767881138960434
PA1328	PA1328	0.454	-0.125	0.000718011909524303	0.512825145201378
PA1329	PA1329	0.463	0.412	0.11428250557668	0.27072080334269
PA1330	PA1330	-0.918	-0.081	1.03266047564541e-12	0.663869888073673
PA1331	PA1331	-0.86	-0.338	6.09747777502296e-08	0.0791936451006823
PA1332	PA1332	0.606	0.655	0.00339191766872438	0.00495207923145581
PA1333	PA1333	1.322	0.634	5.11224536123623e-09	0.019221109355297
PA1334	PA1334	-0.334	0.545	0.189349211116583	0.0383386065476694
PA1335	aauR	0.06	0.023	0.713297201123279	0.925587031389571
PA1336	aauS	-0.365	-0.04	0.00741452923395971	0.852936429749765
PA1337	ansB	0.93	-0.45	4.36283195252108e-09	0.0155743433107055
PA1338	ggT	1.089	-0.253	6.57419517627002e-15	0.159057499710848
PA1339	aatP	0.313	-0.377	0.000253859653574051	6.05312267697636e-05
PA1340	aatM	0.36	-0.376	0.000600882903374242	0.00156228658884229
PA1341	aatQ	0.349	-0.355	6.94220647058864e-05	0.000326283497391627
PA1342	aatJ	0.022	-0.514	0.839551011243912	1.7056851217344e-06
PA1343	PA1343	-0.461	-0.489	0.0317273327519385	0.0537923990562449
PA1344	PA1344	0.379	-0.105	0.0198289881186358	0.657037248645776
PA1345	PA1345	0.014	-0.092	0.934017784069417	0.699454244466753
PA1346	PA1346	-0.496	-0.06	0.00270452386427168	0.809897660068608
PA1347	PA1347	-0.862	-0.3	0.000220247167259806	0.312548393347639
PA1348	PA1348	1.966	0.187	2.87697578753374e-44	0.334464261162455
PA1349	PA1349	1.569	-0.041	3.34317421246532e-58	0.796698129850447
PA1350	PA1350	1.308	-0.041	4.99937431883724e-45	0.787227093323352
PA1351	PA1351	1.179	0.32	4.60517304628294e-18	0.0576782920414338
PA1352	PA1352	0.435	0.151	0.248933167684542	0.793432393079988
PA1353	PA1353	1.51	-0.039	1.12152476793976e-32	0.854761441298919
PA1354	PA1354	0.023	-0.197	0.89705035842998	0.379094766913401
PA1355	PA1355	0.921	0.714	8.67449352134713e-05	0.00861091258916759
PA1356	PA1356	2.195	0.38	2.40891607756208e-44	0.0500193460766441
PA1357	PA1357	-0.197	-0.027	0.108486812157037	0.8891214803419
PA1358	PA1358	1.439	0	3.08090022492148e-79	0.999062324772579
PA1359	PA1359	-0.641	0.014	1.23652961763923e-06	0.942114855249586
PA1360	PA1360	-0.799	0.537	7.25021538234264e-07	0.000667845095346648
PA1361	norM	-1.258	0.256	3.51453290552227e-33	0.0199775483616464
PA1362	PA1362	0.327	-0.256	0.0187475514770184	0.159256383075039
PA1363	PA1363	-3.595	-1.097	1.3853483439742e-173	8.55886824198347e-34
PA1364	PA1364	-3.94	-1.11	8.68440868569766e-98	5.16007726509442e-12
PA1365	PA1365	-2.446	-1.053	1.93317303264805e-99	2.66012437851223e-21
PA1366	PA1366	0.951	0.244	2.54762540344919e-11	0.181494856642783
PA1367	PA1367	-0.1	-0.248	0.523896562190304	0.196918543217055
PA1368	PA1368	0.208	0.018	0.0806103165149984	0.923684341587075
PA1369	PA1369	-0.517	-0.715	0.0318194811624067	0.00904206899769905
PA1370	PA1370	0.049	-0.524	0.774175305348553	0.00377589464802183

PA1371	PA1371	-0.172	-0.257	0.422201896018671	0.349453689588497
PA1372	PA1372	0.206	-0.359	0.309149189214963	0.141247041697106
PA1373	fabF2	-0.416	0.487	0.0193773438394352	0.0148346816374816
PA1374	PA1374	0.263	-0.289	0.0850653762637089	0.137176608878419
PA1375	pdxB	-1.178	0.453	3.31725055300021e-08	0.0782885831723497
PA1376	aceK	1.34	-0.058	3.69808949622322e-68	0.612327138233078
PA1377	PA1377	-0.354	-0.171	0.00391371889253799	0.28316260152865
PA1378	PA1378	0.089	-0.178	0.454697113985749	0.229855048913785
PA1379	PA1379	0.316	0.094	0.0199742699514064	0.636734426290324
PA1380	PA1380	0.536	0.401	0.000359173131673119	0.0232887816193013
PA1381	PA1381	-0.032	0.13	0.899444362157653	0.702368800415872
PA1382	PA1382	0.872	0.135	9.71476301887329e-11	0.476124135744537
PA1383	PA1383	-0.019	-0.102	0.867103743725701	0.488200432712773
PA1384	galE	0.611	-0.27	0.000120498606951092	0.206330252570886
PA1385	PA1385	0.923	0.22	2.42695285505811e-10	0.251617555387736
PA1386	PA1386	0.743	-0.519	0.000119856515632763	0.0281617097230711
PA1387	PA1387	0.931	-0.236	3.39821206232018e-10	0.237714513906861
PA1388	PA1388	1.174	-0.121	4.64349464524853e-26	0.462996085784941
PA1389	PA1389	0.436	0.157	5.55725032885157e-05	0.267706951236875
PA1390	PA1390	0.302	0.193	0.00832959343869108	0.180640257403052
PA1391	PA1391	0.419	0.081	2.85956768898089e-05	0.583554285756386
PA1392	PA1392	0.996	0.222	3.71119400426371e-17	0.144302244730836
PA1393	cysC	0.592	-0.168	0.000511132290638138	0.500282397697287
PA1394	PA1394	-1.068	0.073	1.2375481618392e-06	0.818193976471603
PA1395	PA1395	-0.636	-0.52	0.00138012475109902	0.024017888536059
PA1396	PA1396	-1.298	0.244	1.56992526874286e-29	0.0692562415606336
PA1397	PA1397	-0.905	-0.042	1.64607766226157e-15	0.80882878582189
PA1398	PA1398	-1.093	0.189	2.4500765304442e-17	0.226079209370468
PA1399	PA1399	-0.016	0.309	0.929025295358213	0.113626609553503
PA1400	PA1400	0.186	0.251	0.12882164710191	0.0846081779345888
PA1401	PA1401	0.649	-0.146	1.36788039609502e-08	0.353957810200677
PA1402	PA1402	0.458	-0.281	0.000469249878718019	0.097445602937172
PA1403	PA1403	0.718	-0.309	3.61911356043884e-10	0.0316686387022093
PA1404	PA1404	1.266	0.076	3.51823576669052e-07	0.848933383829462
PA1405	PA1405	-0.475	0.144	3.73450156216255e-05	0.329581894614355
PA1406	PA1406	1.017	0.232	2.71751643058046e-16	0.15132726442093
PA1407	PA1407	0.699	-0.091	8.96366698920166e-11	0.569487499079765
PA1408	PA1408	1.034	0.034	1.44878984385339e-17	0.865662324413757
PA1409	aphA	1.367	-0.102	4.9670696557657e-17	0.70916375299817
PA1410	PA1410	1.996	-0.178	8.34774512816075e-29	0.542866709228744
PA1411	PA1411	-0.493	0.18	0.000300477217984078	0.307575011645862
PA1412	PA1412	-0.71	-0.141	0.0139237304645495	0.726870604765118
PA1413	PA1413	0.082	-0.046	0.592146357830273	0.843099823193734
PA1414	PA1414	2.534	0.965	3.08578872985366e-66	7.55991419279046e-10
PA1415	PA1415	1.042	0.079	2.41613485037477e-25	0.601822922872013
PA1416	PA1416	0.921	-0.055	2.38115670029545e-08	0.844001819262079
PA1417	PA1417	0.729	-0.086	5.83856201962308e-06	0.741623180602141
PA1418	PA1418	1.12	-0.165	2.6345153031224e-15	0.42947983814595
PA1419	PA1419	-0.922	-0.223	3.87247530237243e-14	0.126485039244144
PA1420	PA1420	-3.065	-0.343	3.12801469614003e-62	0.0795875596697916

PA1421	gbuA	-2.937	-0.405	8.68319350494841e-57	0.0632247973663386
PA1422	gbuR	-0.008	-0.035	0.953286435277466	0.87142867065229
PA1423	bdIA	1.429	-0.255	3.45618482433591e-15	0.291111518858932
PA1424	PA1424	-0.889	0.446	1.59166874665658e-08	0.00577721985650618
PA1425	PA1425	-0.932	0.406	4.09443335709973e-23	2.96703378153083e-05
PA1426	PA1426	0.704	0.134	0.00252119979488791	0.713739859778873
PA1427	PA1427	0.417	-0.04	0.0576042133612144	0.912002231537093
PA1428	PA1428	-0.705	-0.019	1.0793316428948e-05	0.938642603978266
PA1429	PA1429	1.726	0.299	2.85892880172874e-27	0.145150308711655
PA1430	lasR	0.297	0.281	0.0227725205100322	0.072498998050096
PA1431	rsaL	0.215	-0.287	0.309149189214963	0.281359088213638
PA1432	lasI	-0.19	0.233	0.382150982550643	0.410751880667132
PA1433	PA1433	0.564	-0.038	3.07874394245669e-17	0.710759681475885
PA1434	PA1434	-0.651	-0.034	1.33503562254086e-13	0.802978267461179
PA1435	PA1435	0.668	0.113	7.20907956754555e-07	0.57522956073425
PA1436	PA1436	0.682	0.164	1.02444899534563e-08	0.31273222161675
PA1437	PA1437	0.535	-0.087	5.64531608621067e-07	0.578003884596529
PA1438	PA1438	0.136	-0.177	0.142026707708207	0.116791364660628
PA1439	PA1439	-0.144	0.217	0.229026463372232	0.126465034007074
PA1440	PA1440	-0.521	0.216	4.24408376177176e-09	0.0415315963927112
PA1441	PA1441	0.273	0.413	0.0997936986695484	0.0317083609633554
PA1442	PA1442	0.051	0.205	0.644732242153992	0.10984401281201
PA1443	fliM	0.121	-0.053	0.204813241866454	0.700495871955392
PA1444	fliN	0.56	0.108	3.48248878115369e-13	0.295434493734237
PA1445	fliO	0.035	0.251	0.872149197944393	0.342406666530378
PA1446	fliP	-0.31	0.096	0.00850982861592299	0.56203931449044
PA1447	fliQ	0.681	0.515	1.53255863337466e-10	9.71692928744257e-06
PA1448	fliR	0.384	0.487	0.00153991635488362	0.000252901139375505
PA1449	flhB	0.361	0.34	2.40557531762055e-05	0.000331151651916274
PA1450	PA1450	-0.87	-0.067	2.21905293545095e-10	0.742835765655274
PA1451	PA1451	-0.778	-0.146	5.3055536913763e-09	0.41192747129757
PA1452	flhA	0.415	0.322	0.00357914971405917	0.0593462546647345
PA1453	flhF	0.714	0.161	2.71350346684091e-15	0.163275498633755
PA1454	fleN	0.351	-0.156	2.9216559241658e-05	0.13811739507745
PA1455	fliA	0.604	0.061	3.36152695289843e-15	0.5860341284103
PA1456	cheY	0.876	0.097	9.39483839540601e-18	0.505013651160439
PA1457	cheZ	0.444	-0.034	2.66310874422683e-06	0.823659076128342
PA1458	PA1458	0.918	0.167	5.34022398398166e-19	0.209823607371604
PA1459	PA1459	0.953	0.215	3.27558232607118e-34	0.0210737930574314
PA1460	motC	0.511	0.287	2.04952517317956e-08	0.00656338791438642
PA1461	motD	0.654	0.254	3.96103694511654e-16	0.00682938809581273
PA1462	PA1462	0.739	0.158	9.21635608730387e-16	0.180820981422162
PA1463	PA1463	0.998	0.237	2.6715850962635e-27	0.0331540346189241
PA1464	PA1464	1.163	-0.085	6.71994999507003e-24	0.616339815827776
PA1465	PA1465	0.522	0.783	0.00860144587695181	0.000327196593216967
PA1466	PA1466	-1.099	-2.135	1.40461784419445e-17	1.5074101999507e-50
PA1467	PA1467	0.549	0.033	5.74598131989036e-06	0.867720446487585
PA1468	PA1468	-0.12	-0.186	0.356677012010564	0.253151266056229
PA1469	PA1469	-0.402	0.223	0.00391321188729001	0.199997198229539
PA1470	PA1470	1.681	0.119	6.84458452465019e-73	0.370888278419118

PA1471	PA1471	1.843	-0.471	2.17296376372398e-79	2.06763633821003e-05
PA1472	PA1472	-0.074	0.191	0.526895238821039	0.167144952979598
PA1473	PA1473	-0.018	0.127	0.89259005294272	0.452925653706251
PA1474	PA1474	0.284	0.24	0.022221856461797	0.113788160960245
PA1475	ccmA	-2.076	0.194	2.86006034857243e-97	0.0802582222599187
PA1476	ccmB	-1.494	0.688	3.68446752173936e-44	1.51371571494971e-10
PA1477	ccmC	-0.837	0.311	4.18730932469018e-15	0.0115889857440794
PA1478	PA1478	0.571	0.339	0.0144121624914732	0.267502731966221
PA1479	ccmE	0.928	0.015	4.16449139765414e-10	0.952604987756842
PA1480	ccmF	1.112	0.295	8.81964128073624e-15	0.0992580201698192
PA1481	ccmG	0.858	0.239	9.01969263096242e-08	0.259021227995485
PA1482	ccmH	0.809	0.059	3.26661732962511e-06	0.830968200446284
PA1483	cycH	0.609	0.488	0.00139760709001157	0.0299796206171411
PA1484	PA1484	-0.059	-0.4	0.725882198829678	0.0337436561902728
PA1485	PA1485	1.709	0.164	3.32022318054463e-44	0.368030295859211
PA1486	bapF	1.527	-0.262	2.410373841988e-45	0.0712096232499515
PA1487	PA1487	1.31	0.133	5.42187332918193e-30	0.433267848265356
PA1488	PA1488	1.26	0.184	3.72385251499964e-14	0.43788290937577
PA1489	PA1489	1.587	-0.02	2.66358275143939e-30	0.933674581669407
PA1490	PA1490	-0.284	-0.453	0.00691780938215292	8.7054078195165e-05
PA1491	PA1491	0.944	0.12	1.56680183544967e-06	0.6959990711266
PA1492	PA1492	0.295	0.155	0.173379480923031	0.613163145144381
PA1493	cysP	-0.839	-1.95	2.47560854545745e-17	2.50781818197964e-85
PA1494	muiA	0.66	-0.093	2.20484734068291e-06	0.655606646476648
PA1495	PA1495	0.747	0.098	3.96091191611925e-09	0.606756889662621
PA1496	PA1496	0.704	-0.159	2.51802049960394e-05	0.502014818021517
PA1497	PA1497	-0.368	0.803	0.270856139370997	0.0167759504592241
PA1498	pykF	1.133	0.263	4.35402796153162e-12	0.256637531555222
PA1499	PA1499	1.214	0.481	3.13207082397789e-09	0.0702050682514984
PA1500	PA1500	0.35	0.776	0.0344438490642087	7.66234804425832e-06
PA1501	PA1501	0.678	0.493	0.000161659872340227	0.0201934118344233
PA1502	gcl	2.15	0.027	4.19012677409603e-25	0.942227870438925
PA1503	PA1503	1.089	-0.068	6.58188323778552e-10	0.826192917928414
PA1504	PA1504	-1.482	-0.073	4.04034137550718e-38	0.655468504381575
PA1505	moaA2	-0.391	0.059	0.00615177731510457	0.787227093323352
PA1506	PA1506	-0.772	0.446	3.61068490684205e-05	0.034403136407896
PA1507	PA1507	1.651	-0.002	2.44430892345028e-29	0.995191939197909
PA1508	PA1508	-0.15	-0.804	0.482962270705511	0.00049450171152667
PA1509	tli4	-0.549	-1.064	0.0252273502685318	5.85663557212873e-05
PA1510	tli4	-1.495	-1.106	3.35675000269633e-11	6.29553723821085e-06
PA1511	vgrG2a	-1.77	-0.756	1.41428266433942e-30	6.81364946915283e-06
PA1512	hcpA	-2.475	-1.726	8.19396161575638e-11	3.7608683047885e-05
PA1513	PA1513	3.676	-0.262	6.05905248697552e-88	0.311680201940126
PA1514	PA1514	2.896	-0.177	1.10824166078731e-43	0.576286520162794
PA1515	alc	2.316	-0.67	7.97606587069874e-34	0.0033849320105489
PA1516	PA1516	2.913	-0.755	1.58801511037741e-51	0.00158734879136415
PA1517	PA1517	3.011	-0.553	2.33082514687499e-67	0.0096594258187019
PA1518	PA1518	1.673	-0.388	5.27585547991897e-23	0.0694560493717059
PA1519	PA1519	2.574	0.145	1.68278822207918e-29	0.698847113819869
PA1520	PA1520	0.075	-0.169	0.604812317134	0.353438384270691

PA1521	PA1521	1.848	-0.099	1.15842793828193e-119	0.4112459665503
PA1522	PA1522	2.174	0.184	4.53195964159785e-105	0.174866720151007
PA1523	xdhB	2.353	0.019	1.09801814662637e-107	0.916114907499967
PA1524	xdhA	2.273	-0.144	2.18156525304856e-59	0.479407635035148
PA1525	alkB2	1.983	0.086	2.11232156301089e-76	0.614508750504979
PA1526	PA1526	-0.02	0.153	0.883204075654164	0.367953390118694
PA1527	PA1527	0.549	-0.077	2.64494842446613e-10	0.537248716697226
PA1528	zipA	0.075	-0.035	0.359064570328209	0.775622446470116
PA1529	lig	0.582	-0.093	1.85883036959732e-19	0.28118634860682
PA1530	PA1530	0.6	-0.039	4.16274856192985e-09	0.812366475609884
PA1530.1	ffs	1.01	1.416	0.0136288978476388	0.00196411032320428
PA1531	PA1531	-0.392	-0.272	0.000235050537018112	0.0295958725150031
PA1532	dnaX	-1.14	-0.006	1.11694288510934e-62	0.959430214068196
PA1533	PA1533	-0.974	-0.328	2.57861175152655e-26	0.0016611001330676
PA1534	recR	-1.474	-0.162	3.88168453545787e-45	0.214566042175022
PA1535	PA1535	0.172	-0.464	0.0710395479687618	8.54438390631595e-06
PA1536	PA1536	-0.977	-0.023	4.23544602026066e-16	0.900226009800283
PA1537	PA1537	2.148	-0.042	9.94505550773433e-38	0.893596501534441
PA1538	PA1538	2.176	0.067	3.05514403335756e-47	0.794129905311035
PA1539	PA1539	0.261	0.076	0.0163555512392858	0.62812814623758
PA1540	PA1540	2.257	0.031	9.22038636522582e-23	0.940068733359176
PA1541	PA1541	2.565	-0.229	3.34186643663314e-24	0.562693356583515
PA1542	PA1542	1.159	0.186	7.24754512976007e-12	0.43996922785811
PA1543	apt	0.39	-0.103	7.45004837222836e-06	0.394217556824461
PA1544	anr	2.679	-0.569		0 1.6012310271573e-14
PA1545	PA1545	1.326	0.113	7.08142503020639e-11	0.714694397757143
PA1546	hemN	4.577	0.018	2.66896282252974e-162	0.950897371567443
PA1547	PA1547	1.306	0.705	1.0973782368131e-14	0.000234991876725152
PA1548	PA1548	0.776	0.211	5.45337945760184e-08	0.271411740772975
PA1549	PA1549	2.419	0.872	1.02086420524413e-68	6.06000762500921e-09
PA1550	PA1550	2.614	0.748	1.82963192385733e-79	9.80470232191758e-07
PA1551	PA1551	2.437	0.647	1.33104115560341e-70	2.11467908344656e-05
PA1552	ccoP1	1.768	0.146	6.80557256521785e-39	0.439307189178585
PA1552.1	ccoQ1	1.601	0.035	1.30128528129346e-39	0.866650873627049
PA1553	ccoO1	1.678	0.157	4.9782517997746e-45	0.335303880693367
PA1554	ccoN1	2.153	0.155	3.89918586925065e-75	0.331878229038587
PA1555	ccoP2	1.815	0.045	1.17838169096106e-37	0.848933383829462
PA1555.1	ccoQ2	1.669	-0.15	9.8881034998421e-30	0.495108963600523
PA1556	ccoO2		3 -0.081	1.41094983233071e-62	0.796301007604722
PA1557	ccoN2	3.376	0.312	1.74305975540417e-220	0.0166086659335157
PA1558	PA1558	0.129	0.178	0.433788039150114	0.405298656689523
PA1559	PA1559	1.483	-0.813	5.19418281766509e-19	1.29906972275519e-05
PA1560	PA1560	0.752	-0.363	1.61423451292628e-05	0.0938785511315639
PA1561	aer	1.861	0.161	8.74709681433888e-54	0.325413437422284
PA1562	acnA	2.525	-0.001	1.17685425175568e-79	0.997493886260956
PA1563	PA1563	-0.023	0.078	0.792528042074232	0.489467642610094
PA1564	PA1564	-0.649	0.072	2.50399688376373e-07	0.698850475664026
PA1565	pauB2	0.473	-0.031	0.00736312084590122	0.91591596370429
PA1566	pauA3	1.021	0.254	1.09171278741799e-05	0.458394464459023
PA1567	PA1567	0.34	0.175	0.0294529490724003	0.408702106617126

PA1568	PA1568	0.558	-0.264	0.161943561526004	0.677549443124589
PA1569	PA1569	-0.194	0.145	0.336514371585146	0.590428307104472
PA1570	PA1570	0.101	0.088	0.391031368018959	0.592361610498141
PA1571	PA1571	1.56	0.212	2.1235629342869e-22	0.327620856570127
PA1572	PA1572	-0.183	0.117	0.0754159041337189	0.390984819889618
PA1573	PA1573	-0.222	-0.102	0.0679805176244229	0.544712775017507
PA1574	PA1574	0.066	-0.03	0.536819240799771	0.852251394811427
PA1575	PA1575	0.485	0.09	5.03152304200568e-08	0.470910469866766
PA1576	PA1576	-0.212	0.27	0.107577482945971	0.084490188981681
PA1577	PA1577	-0.582	0.537	0.00117190507196616	0.00253818053299427
PA1578	PA1578	0.076	0.29	0.606821364497918	0.0898627961690946
PA1579	PA1579	1.272	-0.118	3.56748450584765e-35	0.408702106617126
PA1580	gltA	-0.359	-0.148	0.0206536916222437	0.486485108699932
PA1581	sdhC	-2.391	0.453	3.48720024672011e-111	0.000127646384331983
PA1582	sdhD	-1.555	0.266	1.84139557891399e-35	0.0825014609018155
PA1583	sdhA	-0.946	0.325	1.03266047564541e-12	0.0413824691604707
PA1584	sdhB	-1.483	0.409	3.40722975027622e-35	0.00301885781768152
PA1585	sucA	-1.454	0.087	1.11654685674594e-30	0.644837868070098
PA1586	sucB	-0.995	0.043	2.06593718748903e-13	0.842801841469795
PA1587	lpd	-1.123	0.017	1.44346503677303e-15	0.940876195814688
PA1588	sucC	-1.038	0.004	3.35745140943121e-07	0.991301139633299
PA1589	sucD	-1.045	0.128	8.88537017501059e-10	0.606968782016136
PA1590	braB	-1.827	0.157	1.11414192324545e-62	0.271571745303688
PA1591	PA1591	-2.93	0.725	1.87704686240806e-84	6.13483761903882e-13
PA1592	PA1592	3.12	-0.151	2.00563180189749e-106	0.448818122925101
PA1593	PA1593	-1.701	-0.051	8.68389704976168e-56	0.717200857596164
PA1594	PA1594	-1.489	-0.11	1.52891125862981e-30	0.513283208466999
PA1595	PA1595	-1.047	0.118	1.81949534364686e-18	0.455795382206528
PA1596	htpG	-1.767	-0.319	5.95427132715046e-89	0.00132962245514953
PA1597	PA1597	-0.785	0.271	9.37196174565547e-05	0.30207192750727
PA1598	PA1598	0.074	-0.003	0.696207769510243	0.99169849470688
PA1599	PA1599	-0.463	-0.11	0.00226735087620555	0.608832029336343
PA1600	PA1600	2.518	0.596	3.65959131796323e-50	0.00743550193708536
PA1601	PA1601	3.598	0.507	1.63393870499568e-89	0.0348986113259629
PA1602	PA1602	3.35	0.543	3.19981458343273e-48	0.110019013395248
PA1603	PA1603	-0.453	0.011	2.31525712702016e-05	0.948960960931959
PA1604	PA1604	1.011	0.046	2.88200471753839e-19	0.796698129850447
PA1605	PA1605	-0.076	-0.375	0.573689604939112	0.0123238762307786
PA1606	PA1606	0.017	-0.491	0.924172080755994	0.0143620384502401
PA1607	PA1607	-0.722	0.302	1.24760613348573e-16	0.00198156713264258
PA1608	PA1608	1.161	0.316	5.26858481515205e-11	0.161095805706231
PA1609	fabB	-0.93	0.62	6.21417109965075e-25	5.93190006223601e-11
PA1610	fabA	-2.015	0.926	2.35888313475894e-104	9.27119208078753e-23
PA1611	PA1611	-0.607	0.029	7.51881288682283e-11	0.847990913775284
PA1612	PA1612	-1.629	0.312	7.7206603621191e-96	2.60110716762648e-05
PA1613	PA1613	-1.188	-0.157	2.59074073398059e-50	0.10575013178809
PA1614	gpsA	0.344	-0.124	9.66446738649121e-07	0.168668138216145
PA1615	PA1615	0.758	-0.174	5.58631063136592e-26	0.0559808350891748
PA1616	PA1616	0.79	0.218	3.38520586565842e-08	0.243437082033705
PA1617	PA1617	2.955	-0.203	8.86276603378583e-161	0.156027348116295

PA1618	PA1618	0.483	0.007	1.34368590117199e-07	0.964322951539275
PA1619	PA1619	0.328	0.271	0.0083520903564314	0.0706521089160232
PA1620	PA1620	0.025	0.184	0.944924662858614	0.714391985780079
PA1621	PA1621	0.324	-0.026	0.00311572743122427	0.879328753877621
PA1622	PA1622	0.878	-0.013	1.40855126687421e-15	0.944239217119427
PA1623	PA1623	-0.143	-0.327	0.10383077907961	0.000662018189273663
PA1624	PA1624	-0.199	-0.082	0.0263119594604588	0.506490944187065
PA1625	PA1625	0.515	0.054	6.92648881048666e-07	0.731011539483264
PA1626	PA1626	0.662	-0.245	0.0108163413912833	0.498297470199241
PA1627	PA1627	0.946	-0.079	0.00108819084084064	0.866650873627049
PA1628	PA1628	1.247	0.063	4.90013791850377e-18	0.793432393079988
PA1629	PA1629	1.194	-0.461	3.77456051995485e-10	0.068164279993188
PA1630	PA1630	0.876	-0.461	3.47559159914531e-11	0.00341547791156706
PA1631	PA1631	0.993	-0.295	3.59974460228371e-16	0.0627096654025732
PA1632	kdpF	-0.174	0.895	0.859461964296821	0.439307189178585
PA1633	kdpA	-1.356	-0.411	5.65564549482241e-17	0.014418528973642
PA1634	kdpB	-1.361	-0.164	2.40432508736078e-25	0.262595593051801
PA1635	kdpC	-1.887	-0.391	2.98389976123354e-10	0.23385085964322
PA1636	kdpD	0.523	0.127	6.65889303934187e-06	0.424550294601455
PA1637	kdpE	0.176	-0.122	0.0720483250542037	0.344399514316102
PA1638	PA1638	-0.544	-0.119	1.3543488627458e-05	0.479694854150176
PA1639	PA1639	-1.877	-0.116	1.3002443459085e-44	0.525273069497194
PA1640	PA1640	-0.804	-0.149	2.26836488160919e-14	0.279160094579145
PA1641	PA1641	1.178	-0.107	1.7640597274566e-27	0.490805119467334
PA1642	selD	0.214	0.007	0.0891952354989323	0.972028918443289
PA1643	PA1643	-0.211	0.083	0.164202829693538	0.706457790595559
PA1644	PA1644	-0.794	-0.107	6.0238262050147e-16	0.415491469767628
PA1645	PA1645	-0.364	0.316	0.0371212177094872	0.135504832622099
PA1646	PA1646	2.075	0.098	6.20890485864224e-47	0.655971488681968
PA1647	PA1647	0.192	0.085	0.0437732415915195	0.518982646403539
PA1648	PA1648	0.578	-0.155	2.50377017943477e-05	0.41192747129757
PA1649	PA1649	0.901	0.228	1.37364641404572e-19	0.0725385776735017
PA1650	PA1650	2.298	-0.055	2.95531391185315e-64	0.807191572620621
PA1651	PA1651	-1.818	-0.128	3.6561835618706e-33	0.549413100617565
PA1652	PA1652	-0.463	0.129	8.53756444296383e-06	0.332769952194299
PA1653	PA1653	-1.816	-0.123	2.30570760438229e-30	0.509711831592954
PA1654	PA1654	-2.244	-0.414	9.66075662242872e-107	0.000113419144465294
PA1655	PA1655	-1.961	-0.638	9.35669684654996e-87	4.95465209310966e-10
PA1656	hsiA2	-1.218	-1.424	2.77819396752218e-06	2.70823983652127e-07
PA1657	hsiB2	-1.163	-2.186	0.000142424310951774	4.62697439965832e-12
PA1658	hsiC2	-1.168	-2.114	8.00905836908672e-05	5.16331508511251e-12
PA1659	hsiF2	-1.528	-1.832	1.75859400928552e-08	1.13164202566142e-10
PA1660	hsiG2	-1.42	-1.741	4.827078565438e-08	1.66126047795534e-10
PA1661	hsiH2	-1.704	-1.666	4.21163455271076e-11	8.72687251610738e-10
PA1662	clpV2	-1.638	-1.577	2.14986249068258e-11	9.04036226106831e-10
PA1663	sfa2	-2.094	-1.71	4.52378666480907e-16	2.75784075419836e-10
PA1664	orfX	-2.82	-1.754	2.61384069078694e-19	4.7250876239058e-08
PA1665	fha2	-1.716	-1.742	6.45007309036408e-11	2.70450126339943e-10
PA1666	lip2	-1.891	-1.932	1.54437682861164e-12	4.35239462771485e-12
PA1667	hsij2	-1.424	-1.673	3.03103108468925e-08	5.63894801808491e-10

PA1668	dotU2	-1.716	-1.736	5.68661882148835e-12	2.72163687276609e-11
PA1669	icmF2	-2.031	-1.625	7.38012000479447e-18	5.21802090188757e-11
PA1670	stp1	-1.791	-1.295	8.87320477034862e-19	1.08405755977803e-09
PA1671	stk1	-2.021	-1.29	1.69288994762567e-18	1.11183497951302e-07
PA1672	PA1672	0.567	0.07	1.17227063413273e-06	0.691478059370574
PA1673	PA1673	3.852	0.091	6.46895581252547e-90	0.769314153156462
PA1674	folE2	-1.006	-0.006	1.49371677232139e-15	0.976044326864975
PA1675	PA1675	0.903	-0.058	1.01694312119686e-33	0.62113834535048
PA1676	PA1676	1.014	0.457	1.15246053404921e-12	0.00621758481601241
PA1677	PA1677	0.59	0.053	1.50218341856102e-07	0.757451465279189
PA1678	PA1678	-0.282	0.035	3.56350641017179e-05	0.727493606705966
PA1679	PA1679	1.292	0.476	3.34001309471744e-29	0.000251754751388514
PA1680	PA1680	0.717	0.106	2.63551119426224e-05	0.686646676470046
PA1681	aroC	-1.431	0.032	6.89461155110436e-30	0.875780830277193
PA1682	PA1682	-0.991	0.075	1.35836964781811e-20	0.604545601035873
PA1683	PA1683	-0.878	-0.295	4.23307110245725e-10	0.0844578483060621
PA1684	PA1684	0.077	-0.122	0.363929491639617	0.246225652687741
PA1685	masA	-0.042	-0.169	0.763230352131174	0.331423165576134
PA1686	alkA	-0.085	0.188	0.503358591956806	0.226368151218084
PA1687	speE	0.146	-0.159	0.196646592532827	0.276187297438911
PA1688	PA1688	-1.276	0.276	1.28271972829034e-42	0.00709039475648001
PA1689	PA1689	-1.361	0.138	4.40885609145676e-27	0.426193032463847
PA1690	pscU	-1.939	0.965	2.01973310122548e-28	7.45034638969779e-10
PA1691	pscT	-2.2	0.989	9.49590547627694e-27	3.31964701776538e-09
PA1692	PA1692	-1.669	0.85	5.49524133665159e-17	3.56663085402643e-06
PA1693	pscR	-1.009	0.73	7.66872018996655e-19	1.84927807372379e-10
PA1694	pscQ	-4.274	1.01	1.1200579702602e-101	4.46193859068195e-15
PA1695	pscP	-4.469	1.032	6.7190318285864e-85	8.29731344346851e-10
PA1696	pscO	-4.163	0.9	1.13708695525187e-55	1.45475314291479e-06
PA1697	PA1697	-4.941	0.844	8.31391736982737e-188	2.78889869716879e-12
PA1698	popN	-3.569	0.891	2.36919219643944e-139	1.96504335190252e-13
PA1699	pcr1	-4.221	0.597	8.24610941017498e-45	0.00402857775198558
PA1700	pcr2	-2.648	1.121	1.20885613398492e-41	3.05000031351287e-15
PA1701	pcr3	-3.816	1.128	5.56598820686582e-35	7.21895544728995e-06
PA1702	pcr4	-3.149	1.085	1.32069427725468e-24	1.20746125181068e-08
PA1703	pcrD	-1.436	0.712	1.00741993047921e-28	1.07806051484009e-07
PA1704	pcrR	-1.483	0.864	1.17616843241108e-15	1.4316467469466e-07
PA1705	pcrG	-3.742	1.069	1.25396033476415e-85	3.43601872700056e-09
PA1706	pcrV	-3.157	0.732	2.62114310060461e-166	2.47964041055545e-10
PA1707	pcrH	-3.851	0.367	3.03772323852928e-121	0.062428988256426
PA1708	popB	-3.955	0.411		0 0.000366895927048829
PA1709	popD	-3.97	0.45		0 3.43408265251485e-05
PA1710	exsC	-3.537	0.405	5.78197821517493e-239	0.000494923675979735
PA1711	exsE	-3.121	0.361	3.60557539428479e-109	0.0277187808376638
PA1712	exsB	-2.555	0.529	2.38724196154204e-50	0.00701796203984736
PA1713	exsA	-4.921	-0.672	4.14472190172848e-159	0.00104505976937806
PA1714	exsD	-3.156	0.432	1.76445604947276e-180	0.000344046267937338
PA1715	pscB	-3.421	0.956	5.55536346216049e-113	4.12365875313208e-16
PA1716	pscC	-2.669	0.788	2.33308082071355e-159	3.58776093235745e-18
PA1717	pscD	-3.161	0.981	8.90202309526205e-97	2.3140573104386e-15

PA1718	pscE	-2.817	0.585	1.85092238640682e-52	0.000146718540289628
PA1719	pscF	-3.169	0.353	1.39812341456588e-78	0.0473046572566966
PA1720	pscG	-2.956	0.557	6.00917753759824e-95	1.20210053793563e-06
PA1721	pscH	-2.931	0.708	9.52681407368356e-66	1.75434490087983e-07
PA1722	pscI	-2.112	0.328	2.18068892066798e-40	0.041981108113566
PA1723	pscJ	-2.157	0.447	3.97471130460141e-56	0.00138603367397779
PA1724	pscK	-2.274	0.542	7.0056019846155e-26	0.00618107822136303
PA1725	pscL	-1.059	0.171	2.72941548483608e-11	0.402402538774243
PA1726	bglX	-0.386	0.027	2.34198280933825e-06	0.833412576109811
PA1727	mucR	-1.374	0.26	1.43656345663078e-101	8.15979305434981e-05
PA1728	PA1728	1.722	0.26	1.12901445220925e-30	0.177668330132031
PA1729	PA1729	1.176	0.242	1.87751976601224e-22	0.110261010740869
PA1730	PA1730	-0.077	-0.02	0.481646783878519	0.90821890319466
PA1731	PA1731	0.21	-0.102	0.0570958025288845	0.503722773718515
PA1732	PA1732	0.54	0.081	4.31926308486479e-06	0.639143913802811
PA1733	PA1733	1.091	0.069	2.30873777817109e-38	0.576565950442272
PA1734	PA1734	-1.091	-0.294	2.52548500511551e-17	0.0554814036969285
PA1735	PA1735	-1.346	0.478	2.28268378961788e-27	0.000168042258511663
PA1736	PA1736	1.317	-0.218	1.36265392531664e-65	0.0274678188219789
PA1737	PA1737	1.488	-0.4	2.40584060515987e-55	0.000278016345801502
PA1738	PA1738	-0.455	-0.302	8.192951453899e-05	0.0259087601199447
PA1739	PA1739	-0.291	0.125	0.0581787837649031	0.550060035517964
PA1740	PA1740	0.285	0.142	0.0489251678915922	0.471857861203389
PA1741	PA1741	-1.478	-0.003	4.28911528762138e-40	0.988788363440197
PA1742	pauD2	-1.033	-0.465	5.74956782371428e-25	2.37634231460201e-05
PA1743	PA1743	0.404	-0.064	0.186794832493172	0.899212663912919
PA1744	PA1744	1.211	0.218	2.08454344101904e-06	0.589513082374795
PA1745	PA1745	0.86	0.052	1.64552558583387e-17	0.735559539466944
PA1746	PA1746	2.84	0.029	2.26961481722025e-45	0.932825180069851
PA1747	PA1747	-0.014	0.387	0.938966951500911	0.0460136728372267
PA1748	PA1748	-0.05	-0.038	0.655718787075449	0.818585555145163
PA1749	PA1749	-0.026	0.165	0.849016480031214	0.327321519244147
PA1750	PA1750	-1.977	-0.227	7.10311537267302e-39	0.253151266056229
PA1751	PA1751	-0.573	0.087	3.99547799928696e-07	0.589377391101594
PA1752	PA1752	0.075	-0.121	0.237734666935157	0.112085635152666
PA1753	PA1753	0.927	0.134	4.57879257311597e-17	0.375118292458129
PA1754	cysB	0.686	-0.217	7.25115627995686e-15	0.0423519766673464
PA1755	PA1755	0.04	0.181	0.8085158383309	0.383113011620502
PA1756	cysH	-0.782	-1.481	1.60730823428711e-13	2.47274940158919e-42
PA1757	thrH	-0.179	0.011	0.175552785345944	0.95545843229463
PA1758	pabB	-1.569	0.015	1.0397714184958e-75	0.908128116307669
PA1759	PA1759	1.628	0.08	8.66552726715183e-124	0.405387255203717
PA1760	PA1760	1.949	0.041	1.79171882384074e-159	0.713746718281884
PA1761	PA1761	3.674	-0.183	1.58465711063143e-238	0.220434671324673
PA1762	PA1762	2.209	0.002	4.00139391659256e-119	0.991431085564438
PA1763	PA1763	2.884	0.083	1.75542301428583e-159	0.635270562046592
PA1764	PA1764	1.058	0.021	6.98795439194919e-24	0.90800511583869
PA1765	PA1765	1.323	-0.28	3.51329721972521e-43	0.0168531814064495
PA1766	PA1766	-1.278	-0.103	5.5048997368819e-44	0.413432117314071
PA1767	PA1767	-1.17	-0.184	7.40007148961822e-37	0.110019013395248

PA1768	PA1768	-2.003	-0.091	2.32952683999951e-87	0.509291442254987
PA1769	PA1769	0.18	-0.055	0.181953388548439	0.787321611329242
PA1770	ppsA	-0.783	-0.062	3.07481883156522e-24	0.578798170140022
PA1771	estX	-1.574	-0.111	1.27596198234911e-12	0.727261246408108
PA1772	PA1772	0.18	0.153	0.0986003634383863	0.271531307079781
PA1773	cmaX	0.785	0.127	2.64177329238706e-14	0.36353130860451
PA1774	crfX	-1.756	0.93	5.21975084792401e-26	1.48174454053786e-07
PA1775	cmpX	-1.913	0.649	2.64521112548937e-39	5.91806834379691e-05
PA1776	sigX	-1.41	0.541	1.06592022638842e-39	3.55729876909953e-06
PA1777	oprF	0.385	0.346	2.91816064791075e-08	3.98710574704836e-06
PA1778	cobA	1.965	0.047	7.1830399826101e-32	0.871199184752456
PA1779	PA1779	0.606	-0.225	2.39695482920153e-06	0.179905025416262
PA1780	nirD	0.513	0.055	0.0444463807571549	0.896345267049913
PA1781	nirB	0.654	0.285	1.0800411755767e-05	0.133180669452589
PA1781.1	nalA	-0.213	0.667	0.744767037002407	0.379066027186331
PA1782	PA1782	0.742	0.418	4.79119119999051e-06	0.0341486145881443
PA1783	nasA	1.33	0.208	1.16912310287382e-09	0.53982270277428
PA1784	PA1784	2.437	-0.135	2.03261270300464e-61	0.523681987177529
PA1785	nasT	0.994	0.79	2.31758496033385e-05	0.00363371984712153
PA1786	nasS	0.718	0.062	2.29614109153773e-05	0.824882666632393
PA1787	acnB	0.299	0.071	0.086589945000451	0.787538545595792
PA1788	PA1788	-2.551	0.634	5.60934509776827e-94	1.46475919457204e-07
PA1789	PA1789	2.228	-0.103	2.64707983547376e-95	0.503599707112386
PA1790	PA1790	-1.467	0.072	7.57001043127282e-45	0.583896351763722
PA1791	PA1791	-2.144	-0.797	4.1985506660758e-27	0.00017298361051172
PA1792	PA1792	-1.305	-0.149	5.07805284618914e-58	0.12513959424968
PA1793	ppiB	-0.199	-0.281	0.133883119936698	0.0747964297815165
PA1794	glnS	-1.04	-0.022	2.94778557938469e-34	0.872958382959784
PA1795	cysS	-1.122	-0.055	5.64598623849814e-57	0.591387095817896
PA1796	folD	-1.412	-0.177	1.20683767196685e-88	0.0296356752337057
PA1796.1	PA1796.1	-2.147	0.279	2.18970412315596e-43	0.153569335725562
PA1796.2	PA1796.2	-2.057	0.393	3.33005428864969e-39	0.027148239469565
PA1796.3	PA1796.3	-2.396	0.597	9.75109455260809e-31	0.0080208501621048
PA1796.4	PA1796.4	-1.576	0.57	5.79612068149993e-14	0.0119719839963064
PA1797	PA1797	-1.861	-1.205	6.47188753543495e-42	4.9308151457111e-18
PA1798	parS	-1.341	0.039	9.47109396286283e-46	0.780198212149418
PA1799	parR	-1.357	-0.097	1.45107526427133e-45	0.431404914960352
PA1800	tig	-2.351	-0.18	1.82738622581068e-67	0.325677748561098
PA1801	clpP	-0.916	0.023	1.20691155779151e-18	0.893596501534441
PA1802	clpX	0.039	-0.321	0.829550399804896	0.121821711854906
PA1803	lon	0.247	-0.19	0.0460296574883242	0.225025737911385
PA1804	hupB	-0.686	-0.006	2.13600374686512e-12	0.970853515106357
PA1804.1	PA1804.1	-0.588	0.404	0.000194293392360402	0.0303427553203548
PA1805	ppiD	-0.654	-0.067	8.89146370219599e-09	0.698960804880808
PA1806	fabI	0.826	-0.281	8.07346155033647e-14	0.0385988160248125
PA1807	nppD	0.523	-0.299	1.04348979999931e-06	0.0193200590658359
PA1808	nppC	-0.039	-0.348	0.764208224228353	0.0141815015599503
PA1809	nppB	-0.071	-0.135	0.569226874344716	0.402402538774243
PA1810	nppA2	0.545	-0.364	4.4821414570862e-07	0.00345800853377189
PA1811	nppA1	-0.163	-0.145	0.267566286350372	0.45807607497177

PA1812	mltD	-1.456	-0.226	1.27561914147261e-30	0.159219357958298
PA1813	PA1813	0.899	-0.012	1.49497315529832e-20	0.938642603978266
PA1814	kerV	-0.03	0.206	0.741441352207871	0.0393127021297838
PA1815	rnhA	-0.347	0.029	0.00110734095863672	0.865979408670823
PA1816	dnaQ	-0.033	0.184	0.762837356059149	0.141247041697106
PA1817	PA1817	0.527	0.083	3.28627229249643e-10	0.481768052650215
PA1818	ldcA	-0.879	-0.294	1.47408548632476e-09	0.103251886630862
PA1819	PA1819	0.229	0.189	0.00105586624578982	0.0211562354831556
PA1820	nhaB	-0.547	0.176	7.32974500230522e-07	0.200463241947818
PA1821	PA1821	-0.698	-0.157	3.71763552577985e-12	0.22732741022
PA1822	fimL	-0.322	-0.168	6.37427403954451e-05	0.0876483338816565
PA1823	nudC	-0.204	0.075	0.0197635160182222	0.539492819995151
PA1824	PA1824	-1.331	0.134	2.89224324411543e-10	0.610143330470223
PA1825	PA1825	-0.484	0.031	0.000147048100730673	0.876294498524656
PA1826	PA1826	0.78	0.103	7.93617642003484e-18	0.422889835653659
PA1827	PA1827	0.155	0.267	0.301910695311648	0.135112259861918
PA1828	PA1828	-0.161	-0.318	0.0617603885883881	0.000775253018319317
PA1829	PA1829	-0.376	-0.484	0.00187645860037143	0.000278016345801502
PA1830	PA1830	-0.377	-0.349	0.00322573146722501	0.0190890244539098
PA1831	PA1831	-0.679	-0.249	1.38603132132564e-18	0.00452468421399884
PA1832	PA1832	-0.241	-0.344	0.0227210160802529	0.00375889133338373
PA1833	PA1833	0.074	-0.11	0.396128357131023	0.326709896748192
PA1834	PA1834	-0.433	-0.187	1.26467351625911e-05	0.127644357009456
PA1835	PA1835	0.244	-0.34	0.0836832151341573	0.042684994781895
PA1836	PA1836	-0.322	-0.067	0.0137554968849627	0.727493606705966
PA1837	PA1837	-3.771	-3.679	5.11003957021739e-206	2.31491375675306e-198
PA1838	cysl	-3.919	-3.891	1.13376928585803e-178	1.47558307487972e-175
PA1839	PA1839	0.23	-0.037	0.0361358064355204	0.831645576607977
PA1840	PA1840	-1.883	0.123	2.51910233075199e-43	0.488043080604796
PA1841	PA1841	-1.58	-0.1	1.64744004159456e-43	0.509711831592954
PA1842	PA1842	1.082	-0.249	2.27061859350837e-30	0.040022496811675
PA1843	metH	1.089	-0.401	9.1112103872828e-32	0.000138550421167348
PA1844	tse1	-1.429	-0.449	4.59952745775834e-12	0.0494215273869728
PA1845	tsi1	-1.703	-0.415	2.46432405171442e-17	0.0517397708150061
PA1846	cti	-0.585	0.03	7.17112536942431e-07	0.874478373766358
PA1847	nfuA	-0.065	0.181	0.665438869453088	0.336107536792741
PA1848	PA1848	0.122	0.026	0.311067802727394	0.890163133232379
PA1849	PA1849	0.107	-0.139	0.6712782694042	0.704657742724337
PA1850	PA1850	0.063	-0.031	0.627565638332346	0.876191129190249
PA1851	PA1851	0.721	-0.025	8.67766671570725e-09	0.901862805872208
PA1852	PA1852	-1.649	0.791	1.31691499012484e-10	0.00799217928679279
PA1853	PA1853	-0.977	0.219	5.39209465073588e-21	0.0686717239787167
PA1854	PA1854	-0.475	0.192	0.099090998552248	0.60254392051347
PA1855	PA1855	-1.473	0.307	9.12622788370994e-11	0.21187090236563
PA1856	PA1856	3.009	0.194	1.63417160438178e-93	0.342165122751589
PA1857	PA1857	-0.515	-0.225	8.38313154291756e-09	0.0331176608971758
PA1858	str	0.317	0.05	0.000458883449153684	0.716317140478294
PA1859	PA1859	0.308	-0.232	0.000637890654423058	0.0345009425921713
PA1860	PA1860	1.104	0.298	7.75905339103314e-19	0.0492944558060589
PA1861	modC	-0.529	0.03	1.69154239585007e-05	0.875922399909499

PA1862	modB	-1.51	-0.068	2.1119817667244e-53	0.592883088820046
PA1863	modA	-0.282	0.095	0.0849918137682668	0.688431794166447
PA1864	PA1864	1.64	0.031	2.25774787840675e-15	0.934610582923997
PA1865	PA1865	-0.212	-0.06	0.104960746148207	0.759572647063867
PA1866	PA1866	-0.146	0.079	0.0982888062678854	0.505013651160439
PA1867	xphA	-1.962	0.549	1.83615402921702e-08	0.0536276340263012
PA1868	xqhA	0.356	0.301	0.0315414207664996	0.139064106402014
PA1869	PA1869	-2.457	-0.47	6.11632018464153e-71	0.00277170777709936
PA1870	PA1870	0.923	-0.435	1.15298076407436e-05	0.102307186211271
PA1871	lasA	-0.817	-1.486	0.000204709446541303	7.44091051911459e-11
PA1872	PA1872	-0.202	-0.001	0.00660518961450659	0.994123269840024
PA1873	PA1873	0.569	0.46	0.0262827065164426	0.148750335824477
PA1874	PA1874	4.656	0.068	2.17296376372398e-79	0.867408862012556
PA1875	PA1875	3.843	0.133	3.51089070579109e-80	0.666978625711572
PA1876	PA1876	3.328	0.348	1.12706471449172e-72	0.139333915747088
PA1877	PA1877	4.046	-0.014	3.03456879594261e-51	0.975122796937722
PA1878	PA1878	-0.826	-0.056	6.83184758287344e-12	0.747561788145827
PA1879	PA1879	-0.372	0.274	0.064589256327736	0.269948939570924
PA1880	PA1880	2.66	0.256	1.59690850196699e-112	0.0840179836647576
PA1881	PA1881	2.345	0.18	2.28142486937291e-92	0.247696351238865
PA1882	PA1882	-0.25	0.111	0.15178331713397	0.654942388966908
PA1883	PA1883	0.327	0.816	0.120856440519965	0.00018361811475699
PA1884	PA1884	0.692	0.557	0.00147782455064051	0.0305648435773292
PA1885	PA1885	1.435	0.489	6.30462324172091e-30	0.000861536930694117
PA1886	polB	0.263	0.168	0.00221860192085846	0.111643474854153
PA1887	PA1887	2.258	-0.393	4.02680494605157e-72	0.00847768702138523
PA1888	PA1888	2.441	-0.6	1.51318525376779e-108	6.46889676065003e-07
PA1889	PA1889	1.937	-0.35	2.45386733791918e-55	0.0230922115375155
PA1890	PA1890	-0.331	-0.229	5.41426845038123e-06	0.00603741321443468
PA1891	PA1891	5.019	0.741	2.1894288148365e-36	0.21402556878703
PA1892	PA1892	5.084	0.229	2.79769629624365e-114	0.505918602715062
PA1893	PA1893	4.886	-0.055	1.88561385931184e-73	0.903373068638848
PA1894	PA1894	5.646	-0.142	1.41833779168193e-50	0.818585555145163
PA1895	PA1895	6.547	-0.403	2.26262588731713e-166	0.225003100906082
PA1896	PA1896	6.987	-0.223	4.54825019965007e-285	0.501736551584984
PA1897	PA1897	7.516	0.03		0.925587031389571
PA1898	qscR	4.237	-0.195	1.06133219655756e-100	0.532120905122661
PA1899	phzA2	-2.396	-3.064	8.7813642415851e-09	1.6360351558229e-12
PA1900	phzB2	-0.464	-2.705	0.285331348181008	7.55991419279046e-10
PA1901	phzC2	-0.205	-0.441	0.352880565038976	0.089865076347472
PA1902	phzD2	-0.56	-2.464	0.143656133517338	3.40120699161179e-10
PA1903	phzE2	-0.638	-2.227	0.0341797263786917	3.73154778764147e-13
PA1904	phzF2	-0.815	-2.228	0.00439312957299652	3.21346826723355e-14
PA1905	phzG2	-0.757	-2.079	0.00748128853502414	8.9425535430071e-13
PA1906	PA1906	-1.492	-0.064	9.70827466560225e-21	0.775567014571014
PA1907	PA1907	-3.709	-0.75	2.61674622883212e-64	0.000150030789183243
PA1908	PA1908	-3.261	-0.69	6.07720517186422e-54	0.000371171988228069
PA1909	PA1909	-2.752	-0.93	2.43127583369823e-124	1.62616856589907e-21
PA1910	femA	-4.556	-1.049	1.04952886498648e-242	2.65323359358908e-24
PA1911	femR	-6.721	-0.593	1.60247189781648e-138	0.0375686990281228

PA1912	feml	-6.179	-1.145	0	2.02000324037848e-53
PA1913	PA1913	-0.895	-0.627	9.01699653855573e-10	9.94292688509128e-05
PA1914	PA1914	3.861	0.096	3.21825091080063e-62	0.794933565423859
PA1915	PA1915	0.71	0.103	9.96144751164157e-24	0.274929015648665
PA1916	PA1916	1.443	0.618	9.87045393640192e-09	0.0529059611796051
PA1917	PA1917	0.047	-0.408	0.928144154546788	0.576565950442272
PA1918	PA1918	0.398	0.399	0.0933908336390037	0.172970972131332
PA1919	nrdG	0.479	0.35	0.143715958816152	0.424828324728086
PA1920	nrdD	0.496	-0.01	0.00437114776186814	0.972611863712757
PA1921	PA1921	1.259	-0.209	1.48383067287659e-07	0.551814444693015
PA1922	PA1922	3.374	0.46	8.23524430235463e-49	0.154232255389773
PA1923	PA1923	2.079	0.454	5.24549695797952e-23	0.0972351536157627
PA1924	PA1924	3.32	0.918	5.33926138803476e-13	0.161102515867509
PA1925	PA1925	3.596	0.438	1.45780389185292e-23	0.468311590499684
PA1926	PA1926	-0.868	0.161	1.38752256321317e-21	0.151103797815099
PA1927	metE	4.567	0.356	3.09753184540445e-88	0.24783913109615
PA1928	rimJ	-0.126	-0.213	0.179715579196114	0.0509786119622243
PA1929	PA1929	0.019	0.316	0.890614454685024	0.0367300149102169
PA1930	PA1930	2.725	0.132	8.90407402077446e-79	0.526033830417447
PA1931	PA1931	2.32	0.502	4.66403043005888e-130	2.70021892364829e-06
PA1932	PA1932	1.78	0.365	1.14982386656142e-38	0.0358678525790497
PA1933	PA1933	1.864	0.152	2.05667644770897e-58	0.346963894488591
PA1934	PA1934	-1.276	-0.507	3.3862763640662e-20	0.00080392337735195
PA1935	PA1935	-0.143	-0.231	0.327552300428582	0.196718086915592
PA1936	PA1936	-0.446	0.243	0.0513044794311349	0.39376511422734
PA1937	PA1937	0.514	0.006	0.00601269970313091	0.986118448995828
PA1938	PA1938	-0.051	0.034	0.719707046007986	0.872963467178767
PA1939	PA1939	0.475	-0.591	0.00150377076112163	0.000361062741036749
PA1940	PA1940	1.378	-0.474	8.24873188605783e-14	0.0375686990281228
PA1941	PA1941	1.248	-0.556	1.18778102905331e-23	7.83141460998585e-05
PA1942	PA1942	-0.914	-0.574	1.58895634943568e-05	0.0183434162615277
PA1943	PA1943	1.099	-0.115	3.11958227116942e-21	0.484704672393887
PA1944	PA1944	1.135	-0.13	3.60821524512121e-35	0.291757869056392
PA1945	PA1945	1.121	0.076	2.820844436445e-36	0.56583342576307
PA1946	rbsB	2.891	0.111	5.86029837931426e-131	0.530710141431802
PA1947	rbsA	3.741	0.154	0	0.331423165576134
PA1948	rbsC	2.188	0.183	3.77329999267548e-115	0.170981957716472
PA1949	rbsR	1.254	-0.038	1.01146057999423e-45	0.792948123268
PA1950	rbsK	0.819	0.306	1.1473842292485e-10	0.0466217406989316
PA1951	fapF	0.975	-0.03	1.73442618103681e-30	0.82544155436988
PA1952	fapE	-0.119	0.111	0.798251853013824	0.869946537702493
PA1953	fapD	0.591	0.391	0.0720303377435018	0.373481031979385
PA1954	fapC	0.232	0.583	0.15645750914051	0.000802669937518642
PA1955	fapB	0.52	-0.855	0.234736616850888	0.157295274989348
PA1956	fapA	0.263	1.036	0.450447437969797	0.00346496965392609
PA1957	PA1957	-1.189	0.215	7.70867635660293e-11	0.342406666530378
PA1958	PA1958	-1.503	0.245	1.47472567606214e-47	0.0211259628331879
PA1959	bacA	-0.56	-0.154	5.1071851454165e-05	0.406961885246737
PA1960	PA1960	0.231	0.089	0.176516652010617	0.724690733026423
PA1961	PA1961	0.138	0.042	0.257911142413397	0.822852561343249

PA1962	azoR2	-0.115	-0.334	0.413834666024147	0.0427829727143969
PA1963	PA1963	1.22	0.459	7.10136050843387e-30	0.000153992654111412
PA1964	PA1964	-1.17	0.495	4.48740667826848e-27	1.21248300484844e-05
PA1965	PA1965	-1.321	0.49	3.7536757908368e-17	0.00300857003056022
PA1966	PA1966	-0.779	0.226	0.000464973393275393	0.411225314613048
PA1967	PA1967	0.666	0.32	0.00251889617981152	0.261743204449354
PA1968	PA1968	0.912	0.288	4.65138142889601e-13	0.0641748030939023
PA1969	PA1969	-0.377	0.062	0.0043497149856743	0.756369381011392
PA1970	PA1970	-0.437	-0.213	0.221429374480814	0.664985473333416
PA1971	braZ	-2.824	0.351	3.12364142051482e-43	0.0567890727294473
PA1972	PA1972	-0.029	0.343	0.884841192113872	0.11711592858879
PA1973	pqqF	-1.212	0.116	2.54124207659652e-07	0.741399563602539
PA1974	PA1974	0.431	-0.003	0.0715018402892753	0.994170365179236
PA1975	PA1975	0.219	-0.101	0.221447792370355	0.705563620529437
PA1976	ercS'	0.829	-0.183	7.12027491760886e-07	0.439307189178585
PA1977	PA1977	2.126	0.5	1.68214839847e-13	0.235895366868011
PA1978	erbR	2.231	0.125	5.04780403416327e-70	0.548218204569508
PA1979	eraS	1.569	0.568	2.51146680006053e-12	0.0449246741797189
PA1980	eraR	1.706	0.157	2.31977000670281e-15	0.650334985860808
PA1981	PA1981	3.131	0.192	1.16673584614975e-25	0.729512394831169
PA1982	exaA	4.392	0.103	9.46702519857268e-174	0.696529904323592
PA1983	exaB	1.696	-0.077	1.33217943928747e-06	0.900045476445877
PA1984	exaC	5.066	0.003		0.989433202504069
PA1985	pqqA	1.099	0.405	6.41638155966462e-20	0.00354350814870174
PA1986	pqqB	0.436	-0.052	0.00565505274334678	0.83205336623543
PA1987	pqqC	0.779	-0.031	2.51436578115074e-06	0.908201882428365
PA1988	pqqD	0.599	-0.173	0.00282851763953431	0.547285435199079
PA1989	pqqE	0.673	-0.049	1.08076151136233e-05	0.84022250911499
PA1990	pqqH	0.681	0.28	0.000377935989720847	0.261563530297231
PA1991	PA1991	1.585	0.092	3.99822255290311e-90	0.417468125660136
PA1992	ercS	3.777	0.173	2.12704471865281e-263	0.276396077045122
PA1993	PA1993	-2.702	0.697	3.78476621623186e-72	2.82799010047054e-07
PA1994	PA1994	0.924	0.038	1.06833889079727e-42	0.723223357711133
PA1995	PA1995	-0.011	0.106	0.919508869101744	0.434285397919848
PA1996	ppiC1	0.436	0.107	0.000490838692390186	0.555056491224903
PA1997	PA1997	1.864	0.112	1.83283728561554e-75	0.437719987289321
PA1998	dhcR	0.52	0.209	3.73335006686891e-05	0.19702938759267
PA1999	dhcA	-0.305	-2.925	0.582866074488424	1.93672968442578e-07
PA2000	dhcB	0.642	-3.139	NA	NA
PA2001	atoB	0.608	-0.632	0.0217129460070053	0.04320926297188
PA2002	PA2002	0.968	0.327	4.49824746512078e-06	0.233444018879817
PA2003	bdhA	1.887	-0.136	8.4757369771832e-28	0.596928466584304
PA2004	PA2004	2.151	-0.768	NA	NA
PA2005	PA2005	-0.776	0.056	1.40485860477227e-22	0.609556395132057
PA2006	PA2006	0.082	0.475	0.608297866935039	0.00441724340037075
PA2007	maiA	0.127	0.332	0.39141292108654	0.0499187484539582
PA2008	fahA	0.634	0.187	1.81420622328641e-08	0.198218414517077
PA2009	hmgA	0.793	0.341	4.54861120694657e-07	0.0785629909210658
PA2010	PA2010	-0.575	0.261	7.63837195131309e-06	0.0771746053133033
PA2011	liuE	-0.427	-0.237	0.0291728530239075	0.357283203244418

PA2012	liuD	-0.475	-0.067	0.0211674109715895	0.83366856882779
PA2013	liuC	-0.843	-0.211	0.000185746673745424	0.496542743889128
PA2014	liuB	-0.876	-0.098	0.000258578459768264	0.792493379254922
PA2015	liuA	-1.142	-0.144	1.99657607724276e-13	0.509711831592954
PA2016	liuR	-1.632	0.076	7.3155601012692e-18	0.79697198353811
PA2017	PA2017	0.951	0.364	1.69174372946403e-15	0.00964901450878729
PA2018	mexY	-2.157	-0.95	1.54558093626979e-71	1.42074298284114e-14
PA2019	mexX	-3.135	-1.084	8.5869228676357e-128	2.37777569959907e-18
PA2020	mexZ	-0.106	-0.48	0.526895238821039	0.00940372840365585
PA2021	PA2021	1.62	-0.165	3.49887259158424e-18	0.552372247138596
PA2022	PA2022	0.947	0.157	1.58153139899417e-09	0.496542743889128
PA2023	galU	0.416	-0.27	1.01331214513279e-05	0.0144092148180196
PA2024	PA2024	1.507	0.406	1.34653348379059e-20	0.038666388303051
PA2025	gor	0.507	-0.177	1.77778997053274e-09	0.0896444071612668
PA2026	PA2026	2.604	-0.068	2.4838827791955e-10	0.918488871253612
PA2027	PA2027	8.365	-0.007	9.61616590605382e-74	0.993444220216574
PA2028	PA2028	1.799	-0.327	1.15520477661163e-13	0.335306403405607
PA2029	PA2029	0.927	-0.21	2.00168727944409e-12	0.239844350775319
PA2030	PA2030	4.816	-1.088	2.13295088284581e-272	5.68632706100454e-13
PA2031	PA2031	4.814	-0.963	1.98584767543734e-212	9.90525375163212e-08
PA2032	PA2032	0.478	-0.761	6.99431074753122e-09	2.38615826466462e-18
PA2033	PA2033	-7.629	-0.436		0 5.81332811886014e-05
PA2034	PA2034	-7.191	-0.047		0 0.856936370538474
PA2035	PA2035	3.041	-0.315	1.19592316083327e-17	0.536531590732046
PA2036	PA2036	0.815	-0.367	0.00223461397776536	0.322689673557135
PA2037	PA2037	0.991	-0.192	1.25158627394469e-06	0.506821661252015
PA2038	PA2038	0.515	1.029	0.0863666124022345	0.00107299410917348
PA2039	PA2039	0.437	0.301	0.0493924226632344	0.297091330386524
PA2040	pauA4	-0.678	-0.684	5.44870406631569e-12	2.97135492413827e-11
PA2041	PA2041	0.002	-0.112	0.989869013163956	0.688431794166447
PA2042	PA2042	-1.44	0.161	1.31557784313876e-23	0.411895827318445
PA2043	PA2043	-1.554	0.107	1.04477530313559e-39	0.464129881648071
PA2044	PA2044	-1.57	-0.013	1.66022597496435e-55	0.937344965683109
PA2045	PA2045	-0.669	0.301	1.7919306814499e-07	0.0441371766441877
PA2046	PA2046	1.005	-0.174	2.22866775013605e-05	0.627205109887062
PA2047	PA2047	0.349	0.053	0.000181235096003894	0.706510423914987
PA2048	PA2048	0.122	0.214	0.382972488416561	0.212406710000842
PA2049	PA2049	-1.938	0.187	1.42663034167567e-49	0.239502873172138
PA2050	PA2050	-5.187	-4.292	5.60257749842633e-86	1.96959943330841e-86
PA2051	PA2051	-3.472	-3.121	2.23734842397065e-61	9.19881746961397e-55
PA2052	cynS	0.295	-0.044	0.130374444451593	0.886610853799252
PA2053	cynT	0.592	0.2	0.000840785606128312	0.418974612345991
PA2054	cynR	0.285	0.258	0.0411053512582364	0.13060252893655
PA2055	PA2055	0.669	0.537	0.0102960580545239	0.092738203854147
PA2056	PA2056	-0.378	-0.479	0.0127333656757787	0.00544707296709895
PA2057	PA2057	-0.547	-0.589	0.00365377280975933	0.00604187100804877
PA2058	PA2058	-0.702	-0.533	0.00188929321967944	0.0437488133614255
PA2059	PA2059	0.495	0.34	0.00271570735046101	0.0943081679998637
PA2060	PA2060	-0.244	-0.32	0.301107343668244	0.285547533149479
PA2061	PA2061	0.152	0.08	0.252216554227112	0.677698995795013

PA2062	PA2062	-5.241	-5.156		0	0
PA2063	PA2063	-3.103	-0.835	6.05723843879432e-125	2.87704590664756e-15	
PA2064	pcoB	0.59	-0.379	0.00241680929267724	0.140647045080057	
PA2065	pcoA	0.28	0.026	0.0590736756613462	0.911302755469389	
PA2066	PA2066	-0.728	-0.931	0.00100490334781191	0.000127627384247764	
PA2067	PA2067	-0.385	-0.692	0.112710199869388	0.0118276181107523	
PA2068	PA2068	-1.441	-1.155	8.75233364110891e-11	1.43811738506408e-06	
PA2069	PA2069	-0.725	-1.356	0.00632916895543134	1.54047959295513e-06	
PA2070	PA2070	-1.055	-1.534	6.37106369485511e-12	6.51576019096316e-22	
PA2071	fusA2	1.427	-0.387	9.49549107818614e-34	0.00469748361440604	
PA2072	PA2072	1.425	0.035	2.33385807539433e-44	0.829710540879662	
PA2073	PA2073	0.252	0.079	0.104092088406206	0.727930988695377	
PA2074	PA2074	1.422	0.183	3.41092295797085e-10	0.589279270688691	
PA2075	PA2075	0.129	0.061	0.261766965116576	0.715322790767632	
PA2076	PA2076	0.429	0.684	0.000182847730698523	1.08337354306603e-08	
PA2077	PA2077	1.126	0.232	2.02581040817631e-05	0.57067235659034	
PA2078	PA2078	1.156	0.466	6.93674594451112e-08	0.09193762384332	
PA2079	PA2079	0.954	0.116	2.48075445369294e-14	0.527294220797123	
PA2080	kynU	0.485	-0.296	0.000267333334695364	0.0685591714255577	
PA2081	kynB	0.451	-0.186	7.21537647561857e-05	0.205457453335439	
PA2082	kynR	-0.321	-0.204	0.0331462244583015	0.293138808556164	
PA2083	PA2083	-4.941	-4.639	2.86002942393333e-117	9.86141842998983e-104	
PA2084	PA2084	-1.967	-1.703	1.69852285976479e-29	1.69957736021792e-21	
PA2085	PA2085	-4.815	-5.56	4.8451420731322e-78	1.0910613678521e-86	
PA2086	PA2086	-5.618	-5.513	1.04518571212842e-110	7.42380674545142e-109	
PA2087	PA2087	-5.156	-5.517	2.17249859928366e-83	5.44482268398632e-85	
PA2088	PA2088	-4.577	-4.743	2.20068048327078e-89	3.09291939091316e-93	
PA2089	PA2089	-3.92	-3.814	3.19827792337126e-69	6.59312356549074e-65	
PA2090	PA2090	-4.085	-4.399	7.53494727925058e-76	1.33843202607474e-83	
PA2091	PA2091	-4.432	-4.149	2.92852052910018e-75	2.13116802556238e-68	
PA2092	PA2092	-3.413	-3.107	2.19587685530599e-50	3.16824377720349e-42	
PA2093	PA2093	-3.536	-3.147	2.54687978835537e-51	9.82130611480151e-42	
PA2094	PA2094	-3.034	-2.951	1.08591176285776e-37	3.18757109220433e-35	
PA2095	PA2095	-2.912	-2.922	2.71864244927026e-124	1.53119266524937e-124	
PA2096	PA2096	0.409	-0.022	0.000977211480756884	0.915475071171356	
PA2097	PA2097	1.729	0.071	2.77844506924362e-37	0.749561073283848	
PA2098	PA2098	1.684	0.47	4.78432908132631e-11	0.168186998656857	
PA2099	PA2099	1.904	0.14	4.36530358083351e-33	0.588592921170828	
PA2100	PA2100	1.119	-0.208	5.3544184818657e-13	0.321314662280713	
PA2101	PA2101	0.348	-0.1	0.0657941378307826	0.726542992349316	
PA2102	PA2102	0.105	-0.474	0.557173962763365	0.0197869281820049	
PA2103	PA2103	0.271	-0.432	0.0417484332772607	0.0041992352321959	
PA2104	PA2104	0.124	-0.419	0.414127143559354	0.01396744838775	
PA2105	PA2105	0.334	-0.316	0.00254120969757001	0.0146328738697422	
PA2106	PA2106	0.039	-0.013	0.763230352131174	0.947692607749849	
PA2107	PA2107	0.391	0.051	0.235254428176171	0.92138080244396	
PA2108	PA2108	0.929	-0.163	1.48954978263505e-13	0.357283203244418	
PA2109	PA2109	-3.043	0.155	9.23534411680311e-50	0.514239765789474	
PA2110	PA2110	-5.604	0.411	4.35266985296024e-118	0.0559808350891748	
PA2111	PA2111	-5.675	0.512	1.39364720251322e-185	0.00524057498497679	

PA2112	PA2112	-5.06	0.143	3.67090519628752e-138	0.512757268509979
PA2113	opdO	-6.313	-0.293	4.34116529220926e-226	0.126553979193127
PA2114	PA2114	-5.341	0.173		0.166766372932745
PA2115	PA2115	-3.285	0.185	1.17469650739016e-178	0.112901272223258
PA2116	PA2116	-9.193	-0.139		0.135112259861918
PA2117	PA2117	-0.288	0.015	0.0262695160691213	0.940876195814688
PA2118	ada	-3.235	-0.121	1.66338147102381e-170	0.423272477321552
PA2119	PA2119	5.273	-0.076	4.67431084854415e-153	0.831129403812671
PA2120	PA2120	1.575	-0.115	1.58359187862834e-26	0.634358998176168
PA2121	PA2121	1.557	-0.008	6.04248761166505e-39	0.971364907517949
PA2122	PA2122	2.216	0.301	1.27882502994161e-104	0.0207398822757084
PA2123	PA2123	0.276	-0.022	0.00950912463189135	0.898142606097448
PA2124	PA2124	0.958	0.393	2.14525813367378e-11	0.0256450732892039
PA2125	PA2125	0.037	0.11	0.835570376362392	0.650010747337953
PA2126	cgrC	1.445	0.098	5.76057638260171e-18	0.727261246408108
PA2126.1	cgrB	0.863	0.264	0.000271068019840881	0.434240016270987
PA2127	cgrA	2.163	0.035	1.1492969930455e-56	0.892841292870623
PA2128	cupA1	0.64	-0.37	0.000150272795204374	0.107683722184337
PA2129	cupA2	-1.12	1.864	0.00072040196348541	1.64939600656721e-14
PA2130	cupA3	0.356	0.651	0.066274306893545	0.0018687093589019
PA2131	cupA4	-0.296	0.72	0.389055023926571	0.0437488133614255
PA2132	cupA5	-0.225	0.696	0.631790632720282	0.1801258171356
PA2133	PA2133	-0.668	1.031	0.0315414207664996	0.000139226717555727
PA2134	PA2134	1.561	-0.425	8.9783084259046e-13	0.132316082235905
PA2135	PA2135	0.689	0.239	0.00246887944150418	0.445450976669899
PA2136	PA2136	1.052	0.149	0.000251203541113096	0.754446757590652
PA2137	PA2137	0.453	0.557	0.072583055417497	0.0592265437762169
PA2138	ligD	0.797	0.387	5.63914931010279e-08	0.0286374091042223
PA2139	PA2139	0.886	0.233	0.174984254665216	0.826192917928414
PA2140	PA2140	1.087	0.024	0.00413542933043315	0.971554578946585
PA2141	PA2141	0.62	0.023	0.0289528410602814	0.960920094249018
PA2142	PA2142	1.294	0.118	6.50196620512817e-09	0.740689615596945
PA2143	PA2143	1.172	0.187	1.65354145650413e-06	0.604523218313843
PA2144	glgP	0.615	-0.254	0.00556850141636711	0.396446450080804
PA2145	PA2145	2.148	-0.318	1.32204295391745e-23	0.328541560045495
PA2146	PA2146	2.036	-0.072	1.52735257454903e-07	0.910163521469412
PA2147	katE	2.714	-0.09	4.3090342434097e-85	0.72160009413214
PA2148	PA2148	0.473	-0.149	0.0802785513735763	0.714348790115934
PA2149	PA2149	1.138	-0.35	1.98439628083571e-08	0.239035571709145
PA2150	PA2150	1.166	-0.181	1.70669110261108e-09	0.522730189118504
PA2151	PA2151	-0.097	-0.058	0.689825842036128	0.875344297836418
PA2152	PA2152	0.051	-0.081	0.828446319721312	0.813647021473642
PA2153	glgB	-0.083	-0.142	0.734228352336864	0.678853220420153
PA2154	PA2154	0.284	0.79	0.242462331640776	0.0019482823257289
PA2155	PA2155	0.521	0.362	0.00923645644201513	0.148067292822789
PA2156	PA2156	-0.064	0.149	0.804201383060881	0.669298119267019
PA2157	PA2157	0.021	-0.083	0.924586894514072	0.796301007604722
PA2158	PA2158	0.564	0.184	0.003293068448309	0.491866724487686
PA2159	PA2159	0.668	-0.088	0.000851393700948482	0.780522827942803
PA2160	PA2160	-0.634	-0.546	0.00139800113698594	0.0182349206708844

PA2161	PA2161	-0.498	-0.239	0.132339043585428	0.60254392051347
PA2162	PA2162	-1.198	-0.328	1.53733390804029e-06	0.319137181993427
PA2163	PA2163	-1.076	-0.185	1.52689336060578e-05	0.601822922872013
PA2164	PA2164	-0.692	-0.491	0.00041574942494902	0.0337436561902728
PA2165	PA2165	-0.604	-0.261	0.000283067882282133	0.217944010303507
PA2166	PA2166	-1.35	0.698	1.80869897306312e-08	0.0110945811658872
PA2167	PA2167	1.306	-0.328	2.46089382766528e-07	0.335781163159842
PA2168	PA2168	1.531	-0.162	1.8397464168766e-10	0.657886138007396
PA2169	PA2169	0.707	-0.254	0.00594160364015222	0.47963679229131
PA2170	PA2170	1.054	-0.093	0.000390669183941639	0.850669260559471
PA2171	PA2171	2.519	-0.308	3.66540220111729e-47	0.207329163649323
PA2172	PA2172	1.537	0.015	3.95824937229233e-15	0.963930208288887
PA2173	PA2173	0.762	0.089	0.000155878013363961	0.782208717644026
PA2174	PA2174	1.731	0.01	3.82603042995627e-39	0.963930208288887
PA2175	PA2175	0.984	-0.329	6.3207204758874e-05	0.323042760829209
PA2176	PA2176	0.884	-0.187	0.000322571686709117	0.600286111118662
PA2177	PA2177	1.845	-0.286	7.68662917591707e-87	0.0113102396026504
PA2178	PA2178	1.517	0.351	2.00807569875869e-11	0.259489431272701
PA2179	PA2179	0.067	-0.062	0.807407646673016	0.880721658840593
PA2180	PA2180	0.416	-0.133	0.0696722891770958	0.697665168825685
PA2181	PA2181	0.451	0.231	0.0241181130734196	0.393676153368993
PA2182	PA2182	1.604	-0.093	3.60129515763202e-52	0.579335126970984
PA2183	PA2183	0.706	0.688	0.0010863095613493	0.00521203698325628
PA2184	PA2184	0.253	-0.165	0.133870790449766	0.476124135744537
PA2185	katN	0.343	-0.074	0.0444242330152625	0.777544034198083
PA2186	PA2186	0.764	-0.2	0.00098710107841765	0.579382508111654
PA2187	PA2187	1.038	0.319	0.000327681130959577	0.433743997057474
PA2188	PA2188	-0.142	0.101	0.352175412624468	0.63042127217435
PA2189	PA2189	0.756	0.347	9.34793406034049e-05	0.161336680360591
PA2190	PA2190	1.252	0.03	1.50610021995662e-22	0.888080759586895
PA2191	exoY	-3.809	0.638	2.11395873083697e-134	9.48449822156732e-05
PA2192	PA2192	0.67	-0.187	2.52124643989854e-05	0.420268931718601
PA2193	hcnA	-0.845	-0.909	2.5952639987418e-13	3.39927249336197e-14
PA2194	hcnB	-0.618	-0.907	6.96534137491528e-07	2.31696880584696e-12
PA2195	hcnC	-0.365	-0.78	0.000717331994054542	2.98708219629022e-12
PA2196	PA2196	0.541	0.299	8.15393289134585e-10	0.00329023670616939
PA2197	PA2197	0.925	-0.255	7.83867566935771e-14	0.100972324991943
PA2198	PA2198	0.622	-0.168	1.02910130412343e-05	0.392328545806465
PA2199	PA2199	-0.534	-0.187	9.01165057770101e-07	0.175493762827776
PA2200	PA2200	-0.67	-0.028	9.24544142851214e-08	0.890099736075451
PA2201	PA2201	-2.012	-0.018	1.56664488730426e-67	0.910163521469412
PA2202	PA2202	-6.044	-4.166	1.20795589753668e-118	8.67218699736664e-121
PA2203	PA2203	-7.225	-5.226	6.30480479409282e-188	3.22274884320302e-214
PA2204	PA2204	-8.014	-5.818		0.124804856980723e-222
PA2205	PA2205	-1.47	-0.773	3.10228220356321e-13	0.000434482803857544
PA2206	PA2206	0.099	-0.152	0.374115540665748	0.28190161875582
PA2207	PA2207	1.445	-0.16	7.68438792597488e-17	0.572902949450763
PA2208	PA2208	1.331	-0.175	8.56233583611704e-08	0.678356922385509
PA2209	PA2209	1.299	-0.255	3.49425553426252e-10	0.436271316809889
PA2210	PA2210	0.862	0.835	1.23601219495832e-07	1.95168391206387e-06

PA2211	PA2211	0.632	0.785	0.000840354464097634	0.000134546541640439
PA2212	PA2212	1.324	0.586	2.23587958117247e-19	0.000609993238206227
PA2213	PA2213	0.634	0.454	0.0038543009918857	0.0928748491190252
PA2214	PA2214	1.042	0.476	0.000235446572536352	0.203136229364808
PA2215	lyxD	0.691	-0.108	4.97883995703135e-06	0.644873908148809
PA2216	PA2216	0.985	-0.003	1.07461171837626e-15	0.990336650592198
PA2217	PA2217	0.375	-0.073	0.02976356786431	0.787664610649057
PA2218	PA2218	-0.037	0.013	0.754244283110287	0.941415133114659
PA2219	opdE	-0.01	0.523	0.949141062204943	0.00103218284773981
PA2220	PA2220	0.741	-0.19	8.11185309829497e-06	0.407208534764386
PA2221	PA2221	0.108	0.173	0.396860645457718	0.276949135361363
PA2222	PA2222	0.783	-0.378	1.7017941950455e-07	0.0370858629646649
PA2223	PA2223	0.887	-0.383	4.13153028722434e-09	0.0357347976211957
PA2224	PA2224	0.635	-0.206	0.0104393083666128	0.561282928999931
PA2225	PA2225	0.755	0.249	4.15668307012501e-07	0.201768266950316
PA2226	qsrO	1.116	0.266	1.68368045672136e-12	0.194633743112286
PA2227	vqsM	0.866	0.131	1.45216525179327e-05	0.657471545845536
PA2228	PA2228	1.519	0.244	4.35333544935635e-11	0.451837260051589
PA2229	PA2229	-0.812	0.454	4.67227620171002e-17	8.20017927173893e-06
PA2230	PA2230	-0.995	0.355	8.90739104098461e-19	0.0021884339370685
PA2231	psIA	1.419	0.096	6.05535385141726e-17	0.709065480849823
PA2232	psIB	1.987	-0.115	1.85345706315306e-67	0.481768052650215
PA2233	psIC	1.435	-0.024	2.28823468858675e-44	0.886973849775468
PA2234	psID	2.125	-0.129	8.83817776570149e-70	0.44707442262105
PA2235	psIE	2.045	-0.229	2.10492242078856e-54	0.179880119686099
PA2236	psIF	1.683	0.199	1.2247824056741e-43	0.214999938271761
PA2237	psIG	1.293	-0.012	1.24618374123138e-24	0.954329750810601
PA2238	psIH	1.22	0.219	6.54402419660855e-24	0.159256383075039
PA2239	psII	1.369	0.065	1.83263376607546e-25	0.752318765114406
PA2240	psIJ	1.19	0.151	1.73279813383647e-17	0.436379883685963
PA2241	psIK	0.881	0.282	8.46581937424854e-09	0.145326708920538
PA2242	psIL	1.453	-0.153	7.78501545940206e-15	0.574779299358574
PA2243	psIM	0.922	0.237	1.8080892301672e-08	0.2888146190973
PA2244	psIN	0.033	-0.035	0.893648639817476	0.923123056540287
PA2245	psIO	0.526	0.374	0.0190897292140107	0.185766813550024
PA2246	bkdR	-0.243	-0.261	0.0684903819050039	0.105655847573105
PA2247	bkdA1	4.338	-0.199	4.04877323801954e-210	0.290653458274451
PA2248	bkdA2	4.673	-0.241		0.0453715087017461
PA2249	bkdB	4.298	-0.029		0.818380491593204
PA2250	lpdV	3.937	-0.084		0.529636029271206
PA2251	PA2251	0.724	-0.131	1.01915208316164e-10	0.402161863190754
PA2252	PA2252	-0.591	0.39	5.41232195833732e-05	0.0154362146076993
PA2253	ansA	-0.583	0.176	0.000127690789645455	0.380688629524101
PA2254	pvcA	-2.155	-0.69	2.41000325826544e-19	0.0053829252237634
PA2255	pvcB	-1.526	-0.955	2.01453410273424e-06	0.00778116138912677
PA2256	pvcC	-1.102	-0.177	1.90158692614733e-06	0.562569952898432
PA2257	pvcD	-0.431	0.229	0.227815390106227	0.636626584051055
PA2258	ptxR	0.071	-0.374	0.570732308389059	0.0077495944820557
PA2259	ptxS	-1.707	-0.743	7.6813352627903e-49	1.26332107153771e-09
PA2260	PA2260	0.037	0.17	0.890040281303915	0.63462383453604

PA2261	PA2261	1.777	0.054	1.02069231502903e-20	0.877988708139666
PA2262	PA2262	3.07	-0.05	4.18698488118569e-78	0.875780830277193
PA2263	PA2263	3.359	0.141	6.9313366763639e-66	0.697665168825685
PA2264	PA2264	3.386	0.179	2.93025492815541e-194	0.282505052253392
PA2265	PA2265	3.6	-0.023	8.70503617883519e-214	0.911302755469389
PA2266	PA2266	3.51	0.315	1.84634490635477e-129	0.10575013178809
PA2267	PA2267	-0.083	-0.161	0.506543518332224	0.310249388098997
PA2268	PA2268	1.412	0.337	2.34517915873618e-27	0.042684994781895
PA2269	PA2269	0.357	0.045	0.0259304948428675	0.860675744072844
PA2270	PA2270	-0.549	-0.074	0.000140382561734406	0.72952377476324
PA2271	PA2271	-0.099	-0.083	0.51525090515401	0.701304889214064
PA2272	pbpC	-1.441	-0.02	4.07966074624672e-94	0.848933383829462
PA2273	soxR	-1.345	0.651	2.67338652834957e-34	7.17250670150638e-09
PA2274	PA2274	-0.795	0.602	8.92670764139128e-09	8.97068267741756e-06
PA2275	PA2275	0.042	0.117	0.764061642700337	0.519506400337853
PA2276	PA2276	-0.332	-0.149	0.00444597139159617	0.327263742545629
PA2277	arsR	0.415	-0.203	0.0132877827654579	0.372879561854596
PA2278	arsB	-0.561	-0.117	3.0545915202939e-05	0.528097753370779
PA2279	arsC	0.097	-0.179	0.507354701938855	0.340253747498653
PA2280	PA2280	0.203	-0.322	0.0260949174980973	0.00210664706611042
PA2281	PA2281	-0.853	-0.184	1.89476089447444e-14	0.182714707897164
PA2282	PA2282	0.196	0	0.340234450785576	0.998440115152354
PA2283	PA2283	0.061	0.395	0.774175305348553	0.0884259281083633
PA2284	PA2284	0.184	-0.036	0.668399953633261	0.956366806670853
PA2285	PA2285	-0.279	-0.495	0.168121042773119	0.0386118640682389
PA2286	PA2286	-0.05	0.115	0.874673679146802	0.796301007604722
PA2287	PA2287	0.437	0.41	0.142414519196736	0.279980547295708
PA2288	PA2288	1.801	0.135	5.7770240333975e-23	0.618699211029996
PA2289	PA2289	-1.513	-0.127	2.02655114303085e-46	0.36744618419473
PA2290	gcd	-1.1	-0.249	2.62204465576419e-31	0.0281975762513387
PA2291	PA2291	-0.424	0.296	6.82046863750187e-05	0.0169913988015816
PA2292	PA2292	-0.261	-0.606	0.655718787075449	0.441121715401239
PA2293	PA2293	-1.279	-1.509	0.000384408629802883	0.000174791746101216
PA2294	PA2294	-0.841	-1.429	1.67227957471556e-06	4.13113261318085e-13
PA2295	PA2295	-1.901	-2.108	2.49910219317042e-09	8.12983761418562e-10
PA2296	PA2296	-1.221	-1.404	6.49399280159498e-18	1.36284292577725e-21
PA2297	PA2297	-0.676	-2.194	0.000992174388147994	8.93688625444948e-20
PA2298	PA2298	-1.25	-1.908	3.05965589188799e-47	3.07934831038478e-98
PA2299	PA2299	-2.119	-1.709	1.39043790234415e-61	7.33461470388748e-43
PA2300	chiC	-3.596	-1.167	4.50353501704694e-42	7.34353155524611e-05
PA2301	PA2301	-1.166	-0.113	8.0240187988491e-15	0.602689901821946
PA2302	ambE	-0.857	-0.191	3.73434243461381e-07	0.407575128217404
PA2303	ambD	-1.007	-0.488	4.78987086680473e-23	1.22346804412689e-05
PA2304	ambC	-1.072	-0.458	2.36693077031072e-17	0.00143242209679642
PA2305	ambB	-1.477	-0.212	1.22358975418997e-19	0.33288789224211
PA2306	ambA	-1.838	-0.497	1.20051031073786e-22	0.0261711995578053
PA2307	PA2307	-4.292	-3.431	6.26893171615273e-92	7.41899542272595e-85
PA2308	PA2308	-4.235	-4.311	1.0963013091685e-144	3.05877135576417e-147
PA2309	PA2309	-4.942	-4.861	5.48850853630566e-177	2.63180453780677e-179
PA2310	PA2310	-4.328	-4.225	3.35039133810273e-182	6.9492797006537e-179

PA2311	PA2311	-5.67	-5.104	4.5615724002953e-132	1.75767380875279e-133
PA2312	PA2312	-4.993	-4.748	1.44040955592253e-174	5.21142523912908e-167
PA2313	PA2313	-1.214	-0.812	2.39922043966066e-08	0.000401814582839321
PA2314	PA2314	0.18	0.625	0.461985462020512	0.0200897540513886
PA2315	PA2315	0.743	0.669	0.000284151146171606	0.0041992352321959
PA2316	PA2316	0.08	-0.115	0.374484274149523	0.31819698823095
PA2317	PA2317	-0.606	-0.56	1.13411088206849e-06	3.67727505384505e-05
PA2318	PA2318	-0.927	-0.574	3.3342329893884e-25	2.83790767282896e-10
PA2319	PA2319	0.286	0.907	4.21276196327967e-06	4.72611725170825e-50
PA2320	gntR	-0.272	0.827	0.115175563223095	4.88125820902856e-06
PA2321	PA2321	-1.161	1.435	7.03975127078531e-14	2.70055217505378e-21
PA2322	PA2322	1.66	1.03	7.34497416720582e-23	1.7782649986212e-08
PA2323	PA2323	0.648	-0.116	4.10497541202275e-15	0.305656973415828
PA2324	PA2324	1.281	0.506	0.00115785887767912	0.36153217287105
PA2325	PA2325	-0.069	-0.112	0.83998661251919	0.82544155436988
PA2326	PA2326	1.772	-0.187	8.17184291169152e-33	0.390557098717474
PA2327	PA2327	1.318	-0.684	2.04288516597012e-41	2.77149502970388e-10
PA2328	PA2328	1.88	-1.651	2.28335772508832e-61	8.43824691213952e-40
PA2329	PA2329	2.905	-1.354	2.42045119350258e-81	5.86131345085897e-14
PA2330	PA2330	4.015	-0.85	4.49633103909062e-71	0.00136676993828586
PA2331	PA2331	4.893	-1.331	3.84255442624464e-123	1.75043673777874e-08
PA2332	PA2332	-0.948	-0.23	7.30696084455001e-13	0.156168414006851
PA2333	PA2333	-0.708	-0.735	1.28888144531605e-10	1.84104061877385e-10
PA2334	PA2334	-3.257	-2.617	1.93317303264805e-99	1.35727609569638e-73
PA2335	PA2335	-0.364	-0.489	0.0761240502098434	0.0437488133614255
PA2336	PA2336	-0.503	-0.692	0.00150569523468013	8.75119925873034e-05
PA2337	mtlR	0.004	-0.062	0.979937231235114	0.79163089886131
PA2338	PA2338	3.251	0.282	1.297035105627e-92	0.241219169226313
PA2339	PA2339	2.291	0.313	2.14613922168907e-23	0.355556284716079
PA2340	PA2340	2.004	0.232	1.07613646588563e-27	0.399946533079443
PA2341	PA2341	2.937	0.126	2.6335006587014e-63	0.688431794166447
PA2342	mtlD	2.436	0.236	1.15519311647601e-25	0.550236790951631
PA2343	mtlY	2.312	-0.607	6.6821453762046e-11	0.310502595605995
PA2344	mtlZ	-0.606	0.361	0.00245548214209233	0.12070966565108
PA2345	PA2345	0.235	-0.062	0.117380093998432	0.787240383466317
PA2346	PA2346	-0.259	0.431	0.330754286913515	0.153462033263646
PA2347	PA2347	0.311	0.441	0.321019354288815	0.253151266056229
PA2348	PA2348	-0.622	0.116	0.00391331748090723	0.688431794166447
PA2349	PA2349	-0.396	-0.297	0.0977038328462333	0.329130026804112
PA2350	PA2350	0.118	0.526	0.536215662912031	0.00849002590149118
PA2351	PA2351	-0.266	0.43	0.235592800408927	0.0852795798383417
PA2352	PA2352	-1.44	-0.363	2.63858785757877e-16	0.0441073250859011
PA2353	PA2353	-1.369	0.051	2.84055942081492e-38	0.742774228369908
PA2354	PA2354	-1.202	-0.42	4.39725503159146e-17	0.00645671450489885
PA2355	PA2355	0.398	0.208	0.00727403658826296	0.287977298928233
PA2356	msuD	-0.371	0.223	0.143174150485469	0.486823635271892
PA2357	msuE	-0.932	-0.53	0.00185573205074717	0.135112259861918
PA2358	PA2358	-2.188	-1.088	3.56840327503715e-38	2.28414307846412e-10
PA2359	sfa3	-3.569	-2.993	1.72404207546332e-126	2.61842448397724e-94
PA2360	hsiA3	-0.231	0.119	0.0946181912777529	0.532120905122661

PA2361	icmF3	-0.393	0.208	0.000471421738426069	0.136983679538236
PA2362	dotU3	-0.462	0.264	1.33363067067655e-06	0.0158563042977599
PA2363	hsiJ3	-0.222	0.328	0.047338464479849	0.00976741175801083
PA2364	lip3	-0.665	0.308	8.70986059057606e-08	0.0369516580209793
PA2365	hsiB3	-1.09	0.083	1.26857479678101e-14	0.700556638151873
PA2366	hsiC3	-1.048	-0.136	4.23566480347348e-14	0.483191309926166
PA2367	hcp3	-1.251	-0.05	6.43399548597429e-15	0.847688699049916
PA2368	hsiF3	-1.463	0.767	3.69159836697316e-12	0.00112704910099276
PA2369	hsiG3	-1.701	0.226	4.78300869921815e-31	0.237714513906861
PA2370	hsiH3	-1.704	0.279	1.21246841249749e-24	0.186797374362771
PA2371	clpV3	-1.677	0.089	1.51423412754671e-29	0.6959990711266
PA2372	PA2372	-1.164	-0.277	1.1720186629051e-07	0.346515895353734
PA2373	vgrG3	-0.721	-0.122	0.000104847671101644	0.655065214515935
PA2374	PA2374	-0.155	0.038	0.3537471925464	0.881587592507267
PA2375	PA2375	0.891	0.361	2.35882222438871e-15	0.0058607989096734
PA2376	PA2376	-0.809	0.491	6.66346227917693e-11	0.000278950203245154
PA2377	PA2377	-6.058	-2.111		0 3.34213780380151e-47
PA2378	PA2378	2.943	0.237	1.64387757279621e-176	0.0708611223305151
PA2379	PA2379	2.184	0.349	2.28257749290664e-73	0.0177709922184867
PA2380	PA2380	-1.325	0.281	1.91541542711849e-20	0.109942357346743
PA2381	PA2381	3.288	0.5	6.59870684254893e-33	0.15498472470151
PA2382	lIdA	-2.798	-0.931	5.92912464900683e-125	1.13148787247471e-17
PA2383	PA2383	-4.676	-0.392	1.57264955601313e-299	0.00521476539305259
PA2384	PA2384	-6.181	-0.38		0 0.0307572442685089
PA2385	pvdQ	-9.417	-0.884		0 8.48675925230683e-23
PA2386	pvdA	-10.229	-0.933		0 3.42131037724727e-68
PA2387	fpvI	-2.749	0.409	1.00584856201445e-152	0.000111179179210213
PA2388	fpvR	-1.782	-0.079	2.23944779406277e-120	0.446830504207782
PA2389	pvdR	-7.638	-0.606		0 3.48675641770383e-10
PA2390	pvdT	-7.619	-0.363		0 0.00132604082355198
PA2391	opmQ	-7.691	-0.441		0 0.000114116287282794
PA2392	pvdP	-7.715	-0.618		0 9.57280343890842e-09
PA2393	PA2393	-9.597	-0.96		0 5.28394772741742e-19
PA2394	pvdN	-9.605	-1.016		0 7.8047574465097e-17
PA2395	pvdO	-8.863	-0.92		0 8.01250623635105e-14
PA2396	pvdF	-6.781	-1.012		0 4.44467643169359e-22
PA2397	pvdE	-9.978	-1.021		0 2.75079967124884e-28
PA2398	fpvA	-8.929	-1.082		0 1.71593964836782e-16
PA2399	pvdD	-6.941	-0.848		0 1.12081986368185e-58
PA2400	pvdJ	-6.813	-0.766		0 3.6878566951961e-29
PA2402	PA2402	-7.057	-0.759		0 2.66409610505772e-44
PA2403	PA2403	-5.052	-0.268		0 0.0727755843948343
PA2404	PA2404	-5.16	-0.278	9.54836838240995e-287	0.0628015784269881
PA2405	PA2405	-5.251	-0.442		0 5.1820473173739e-05
PA2406	PA2406	-5.531	-0.022	4.72833428823227e-162	0.935424388558838
PA2407	PA2407	-4.928	-0.214	8.03975527640925e-134	0.39705770860577
PA2408	PA2408	-4.915	0.184	5.45355237594194e-116	0.495412307989572
PA2409	PA2409	-4.926	-0.067	1.40473621923278e-155	0.787664610649057
PA2410	PA2410	-4.344	-0.176	6.89801407850045e-162	0.392208655230601
PA2411	PA2411	-7.069	-0.565		0 0.000469741021033004

PA2412	PA2412	-7.223	-0.878		0.901323357482862e-22
PA2413	pvdH	-6.698	-1.314		0.123058381133176e-33
PA2414	PA2414	1.855	-0.569	3.63712464279886e-25	0.00660160429651447
PA2415	PA2415	1.375	-0.656	1.39488592273575e-14	0.00139584623321242
PA2416	treA	1.846	-0.231	1.18473309035081e-34	0.252455531180928
PA2417	PA2417	0.207	0.04	0.0685761309155031	0.822852561343249
PA2418	PA2418	0.567	-0.256	0.000347558354302212	0.227678043845365
PA2419	PA2419	1.581	-0.112	4.03583659086285e-15	0.724334451050238
PA2420	PA2420	-0.609	-0.089	0.000373522705246607	0.716153173868006
PA2421	PA2421	0.335	-0.223	0.382282934132885	0.703822449708835
PA2422	PA2422	0.47	-0.449	0.0196934376355677	0.0837398971122406
PA2423	PA2423	-0.195	-0.021	0.0273446305269029	0.877525904112589
PA2424	pvdL	-9.329	-0.854		0.937946589174802e-18
PA2425	pvdG	-9.803	-0.757		0.542193604814529e-25
PA2426	pvdS	-9.931	-1.611		0.19698239617093e-64
PA2427	PA2427	-9.305	-0.685		0.102185088810537e-14
PA2428	PA2428	-0.207	-0.222	0.14138468030879	0.201477877396176
PA2429	PA2429	-0.99	-0.05	1.71772003662304e-05	0.877422388811374
PA2430	PA2430	0.885	0.052	6.36405196133142e-11	0.812631065860214
PA2431	PA2431	0.357	0.257	0.000344881147629051	0.0292649748258131
PA2432	bexR	-0.325	-0.132	0.0384963907972699	0.53981963352679
PA2433	PA2433	2.007	-0.47	1.07155807313987e-19	0.0868712145064498
PA2434	PA2434	1.216	0.041	1.13043638533843e-15	0.872656410109415
PA2435	PA2435	1.085	0.306	1.68703535503458e-10	0.157177249100295
PA2436	PA2436	-1.102	-0.118	1.37569189605224e-19	0.476124135744537
PA2437	PA2437	0.53	0.398	0.0419025315546299	0.227819300023682
PA2438	PA2438	0.699	0.211	5.16519899191519e-06	0.306907132024968
PA2439	PA2439	0.649	0.592	0.000207097455979216	0.00282158857719269
PA2440	PA2440	-0.502	0.141	0.0218257132010031	0.64071048733099
PA2441	PA2441	-0.178	0.008	0.335873193930464	0.979571034272843
PA2442	gcvT2	-1.107	-0.343	9.50460133586943e-10	0.129753790344081
PA2443	sdaA	-0.524	-0.426	0.00246887944150418	0.0375478668807635
PA2444	glyA2	-3.042	-0.792	1.03124233365398e-47	0.000831158123284371
PA2445	gcvP2	-6.705	-0.929	2.32497946814094e-286	3.5071683840393e-06
PA2446	gcvH2	-6.825	-0.547	3.66459953063361e-215	0.0206121093008681
PA2447	PA2447	-0.841	-0.311	7.24479255632682e-14	0.0150259734201077
PA2448	PA2448	0.55	-0.689	3.83670939556223e-06	7.66859274907308e-08
PA2449	PA2449	-1.616	0.287	5.37022725675187e-70	0.00358853574083435
PA2450	PA2450	-3.036	-0.82	1.26629664075354e-287	4.34464697152313e-24
PA2451	PA2451	-5.888	-1.397		0.297604431445988e-62
PA2452	PA2452	-6.528	-1.185		0.101245296388224e-27
PA2453	PA2453	-2.299	0.159	5.03809483230233e-67	0.29765249215748
PA2454	PA2454	-1.836	-0.325	1.79711358911449e-70	0.00326004142167231
PA2455	PA2455	-1.926	-0.458	4.57325953416766e-56	9.28121762531655e-05
PA2456	PA2456	-1.223	-0.219	2.81786029355881e-12	0.344455327999398
PA2457	PA2457	0.923	-0.18	3.24454000967084e-06	0.528802411116607
PA2458	PA2458	-0.084	-0.133	0.623709679006818	0.567480197298986
PA2459	PA2459	0.549	0.155	0.0236258362585788	0.667288389968958
PA2460	PA2460	-0.508	-0.039	0.0017815726509864	0.876878182401235
PA2461	PA2461	-1.291	-0.098	7.89221671855343e-08	0.791215991186956

PA2462	PA2462	-2.186	-0.475	4.49060609474007e-141	3.70712643791563e-07
PA2463	PA2463	-3.688	-0.305		0 0.000356368811796348
PA2464	PA2464	-1.786	-0.421	1.71428856900726e-102	1.30086873277457e-06
PA2465	PA2465	-0.342	0.04	0.123617908877296	0.907571575365046
PA2466	foxA	-3.892	-0.945	4.78603327455246e-270	3.45216846888086e-28
PA2467	foxR	-6.058	-0.641	1.37185972960242e-193	0.00218885645719258
PA2468	foxI	-6.272	-0.901		0 4.29091927707755e-24
PA2469	PA2469	0.525	-0.056	4.04340481072431e-05	0.787227093323352
PA2470	gtdA	1.065	0.26	1.45323721834748e-11	0.2299960939978
PA2471	PA2471	0.717	0.282	9.38357633291811e-06	0.180724195805334
PA2472	PA2472	0.38	0.203	0.324234313426294	0.718634760061832
PA2473	PA2473	-0.147	0.191	0.69649108020861	0.707936804653159
PA2474	PA2474	1.205	0.179	0.0111920862594451	0.826192917928414
PA2475	PA2475	0.449	0.186	3.44883598822697e-07	0.086551082658125
PA2476	dsbG	0.13	-0.084	0.226634882188471	0.576286520162794
PA2477	PA2477	-0.262	0.007	0.0533875058218047	0.973805940564203
PA2478	PA2478	-0.636	0.077	2.34932873290308e-05	0.728674847095263
PA2479	PA2479	-0.55	0.236	2.53725793571725e-05	0.118991422901192
PA2480	PA2480	-0.425	0.405	0.00353016353055133	0.0134650496437985
PA2481	PA2481	3.353	0.504	6.76903667204142e-67	0.040022496811675
PA2482	PA2482	0.799	0.558	4.62235800135259e-06	0.00543413255287411
PA2483	PA2483	-0.392	0.313	0.0236188222372715	0.143166160248109
PA2484	PA2484	-0.13	0.158	0.22663016370151	0.236264201486477
PA2485	PA2485	1.881	-0.22	3.27563982219426e-20	0.4478691269879
PA2486	PA2486	3.415	-0.498	3.25396454429027e-70	0.0401829267900159
PA2487	PA2487	0.334	0.032	0.110633901425326	0.922734032234111
PA2488	PA2488	0.542	0.2	0.000456722562429186	0.337913124122914
PA2489	PA2489	-0.582		0 1.8080892301672e-08	0.997948383434808
PA2490	PA2490	0.603	1.067	0.00263825012776776	2.59551214069951e-07
PA2491	mexS	1.042	-0.599	6.12287624590843e-57	2.32176637005379e-17
PA2492	mexT	-0.837	-0.133	2.13120085637922e-34	0.11431320988576
PA2493	mexE	-0.358	-0.007	0.0984819835858759	0.984439320086285
PA2494	mexF	-0.415	0.088	0.00660518961450659	0.683333107786437
PA2495	oprN	-0.379	0.199	0.0309941923122685	0.360498356888341
PA2496	PA2496	-0.695	-0.083	6.12671590240011e-06	0.702165291430598
PA2497	PA2497	0.339	0.001	0.00211174238729051	0.997369907054611
PA2498	PA2498	0.486	0.042	0.0365097141206673	0.913135001837033
PA2499	PA2499	0.492	0.032	0.0513467991311451	0.938642603978266
PA2500	PA2500	0.481	0.162	0.00522392650974727	0.506821661252015
PA2501	PA2501	2.419	-0.122	1.30577005974454e-36	0.691648872052924
PA2502	PA2502	-0.549		0 1.24457106028801e-05	0.998246537713693
PA2503	PA2503	-1.775	-0.114	2.25546315139244e-46	0.446345864800869
PA2504	PA2504	1.806	0.031	1.84857655222435e-74	0.847042608513486
PA2505	opdT	-0.155	0.211	0.369155231564919	0.324930766665482
PA2506	PA2506	0.688	-0.001	0.000664945599337291	0.997948383434808
PA2507	catA	2.902	0.33	5.92463216587434e-42	0.32489463198196
PA2508	catC	2.1	0.03	1.51219321607124e-16	0.952159558625432
PA2509	catB	1.467	0.535	1.31142005355585e-11	0.0620003981632948
PA2510	catR	1.032	0.14	3.33318911504248e-10	0.576565950442272
PA2511	antR	2.277	0.284	1.42388576018884e-75	0.0879214608590665

PA2512	antA	-0.126	0.078	0.489770068693226	0.764414034896807
PA2513	antB	1.686	0.256	0.000431383845999102	0.752295991996055
PA2514	antC	0.611	0.261	0.00549119866975616	0.390984819889618
PA2515	xyIL	1.424	0.452	1.05677393841711e-08	0.182550922851298
PA2516	xyIZ	1.073	0.008	2.50303036514683e-06	0.98576729999969
PA2517	xyIY	2.13	-0.293	4.99272419906995e-10	0.644837868070098
PA2518	xyIX	1.538	0.275	4.92691972126653e-16	0.323239058724067
PA2519	xyIS	3.986	0.644	7.14736427969004e-132	0.00123727200029134
PA2520	czcA	0.047	0.296	0.750460054922274	0.0720719226012425
PA2521	czcB	0.118	0.304	0.60134168378189	0.264610260836267
PA2522	czcC	0.864	0.989	0.00105087828170044	0.0006302903341174
PA2523	czcR	-1.229	0.818	1.34271459353586e-15	3.03724238820893e-08
PA2524	czcS	-1.991	1.096	1.64248478079749e-36	2.16211510128903e-21
PA2525	opmB	0.421	-0.316	0.0354675712589766	0.215083430909104
PA2526	muxC	0.075	-0.041	0.571783732679468	0.837367038744667
PA2527	muxB	0.155	0.031	0.0888183965737541	0.826932798008344
PA2528	muxA	0.329	-0.234	0.00187039686307776	0.0733210645291193
PA2529	PA2529	-1.325	-0.313	1.13085125925153e-25	0.0385988160248125
PA2530	PA2530	-1.107	-0.223	3.82080629725658e-16	0.198218414517077
PA2531	PA2531	-7.484	-1.302		0.764447565084052e-38
PA2532	tpx	-1.568	-0.074	7.46115346455536e-94	0.488026787015285
PA2533	PA2533	-0.959	-0.265	7.1043568873595e-27	0.00997822625233487
PA2534	PA2534	0.073	0.079	0.576562771103537	0.667976076912659
PA2535	PA2535	0.02	-0.092	0.863861846054568	0.542669752463142
PA2536	PA2536	-1.575	-0.013	2.6893410262012e-51	0.938642603978266
PA2537	PA2537	-1.908	-0.184	5.0279330390182e-51	0.262695037121538
PA2538	PA2538	-2.257	0.444	1.65211365653027e-24	0.0939696193941631
PA2539	PA2539	-1.86	0.316	9.29720699523999e-28	0.137052958714956
PA2540	PA2540	-1.501	0.06	2.30000339748007e-32	0.761307529519357
PA2541	PA2541	-2.002	0.419	2.01238169320722e-77	0.000437165039114993
PA2542	PA2542	-0.381	0.177	0.000373432819311418	0.186362187596283
PA2543	PA2543	0.431	-0.181	2.05994740765362e-07	0.0805881874383159
PA2544	PA2544	2.074	0.411	2.37878669830773e-122	3.38632219377514e-05
PA2545	xthA	-0.949	0.033	2.19426510142104e-17	0.853751511995072
PA2546	PA2546	0.801	-0.205	5.80759943877742e-15	0.13160722805154
PA2547	PA2547	-0.377	-0.15	0.0172998744001335	0.475772620422329
PA2548	PA2548	0.095	0.317	0.599160888946245	0.131694186775252
PA2549	PA2549	0.421	-0.002	0.00589782109158801	0.992819788091883
PA2550	PA2550	1.222	0.039	2.02179986550767e-16	0.874647225579034
PA2551	PA2551	0.659	-0.212	2.67930629935875e-11	0.0862284191805767
PA2552	PA2552	1.969	-0.389	1.53800675871696e-07	0.452942399320929
PA2553	PA2553	1.978	-0.33	1.25423150596863e-08	0.50023671872193
PA2554	PA2554	1.585	-0.231	1.05832566344926e-08	0.564753972812439
PA2555	PA2555	0.861	0.543	0.000993478463418713	0.0887380489354697
PA2556	PA2556	-0.477	-0.059	6.07284963953518e-06	0.702165291430598
PA2557	PA2557	-0.149	0.369	0.259992830471253	0.0119362276436005
PA2558	PA2558	-0.979	0.225	1.65744601823183e-19	0.0555267961460536
PA2559	PA2559	0.382	-0.087	4.9532888318252e-05	0.512665251110241
PA2559.1	NA	-0.129	-0.757	0.401656719526333	4.80985381055611e-06
PA2560	PA2560	0.36	-0.055	0.0839398836747736	0.866650873627049

PA2561	ctpH	0.376	0.108	0.117079013631334	0.763625032494313
PA2562	PA2562	2.281	-0.681	6.53044549117849e-141	1.07211650236331e-12
PA2563	PA2563	0.546	-0.048	0.00725678956139045	0.885840123070455
PA2564	PA2564	4.198	0.813	1.7840192475937e-128	2.96551014417802e-05
PA2565	PA2565	3.269	0.248	1.64522369139839e-87	0.264610260836267
PA2566	PA2566	3.29	-0.429	8.34858985336457e-100	0.0218612533464967
PA2566.1	NA	0.035	0.372	0.891339145124762	0.209545544955308
PA2567	PA2567	0.124	0.168	0.378745437769915	0.353164119694911
PA2568	PA2568	0.102	0.27	0.336579669530201	0.0245211950678143
PA2569	PA2569	1.285	-0.043	7.29809039283845e-33	0.812932974839116
PA2570	lecA	3.249	-1.403	4.34741583881588e-35	1.04739772067547e-06
PA2570.1	PA2570.1	0.624	0.904	0.000760724892837423	5.50249094945492e-06
PA2571	PA2571	1.745	-0.018	3.55688463324958e-51	0.925587031389571
PA2572	PA2572	1.535	0.052	1.42474280169643e-38	0.782486969143411
PA2573	PA2573	2.064	-0.031	1.46845686913632e-69	0.873934172766342
PA2574	alkB1	0.691	-0.053	1.36591328916842e-12	0.728674847095263
PA2575	PA2575	-1.263	-0.483	2.10973162300505e-34	1.79479109417363e-05
PA2576	PA2576	0.353	0.375	0.00127023913573954	0.00235329455505451
PA2577	PA2577	0.47	-0.15	3.445211535404e-07	0.218056751415765
PA2578	PA2578	0.957	-0.308	3.50384046045039e-28	0.00587513792275476
PA2579	kynA	-0.561	-0.177	1.68837220866774e-11	0.0833997644674784
PA2580	PA2580	0.283	0.259	0.00998827748807181	0.046593842451991
PA2581	PA2581	-1.095	-0.572	3.55411397335026e-11	0.0023907988487853
PA2581.1	PA2581.1	-3.167	0.412	2.7528028735109e-59	0.0737000748588923
PA2582	PA2582	-0.295	-0.073	0.000507772607184744	0.539452979491847
PA2583	PA2583	0.375	0.177	0.000295603053833698	0.178032257119204
PA2583.1	PA2583.1	-1.392	0.391	1.61799345094412e-13	0.0834426562686625
PA2584	pgsA	-1.574	0.187	1.51336362341071e-79	0.0442568543269442
PA2585	uvrC	0.671	0.117	2.36107046790999e-09	0.454331367907468
PA2586	gacA	0.778	0.372	1.47571568966171e-11	0.00519150617431828
PA2587	pqsH	0.055	0.052	0.597468657668925	0.72952377476324
PA2588	PA2588	0.785	-0.177	1.10584184618624e-17	0.127167856057448
PA2589	PA2589	-0.758	-0.855	0.00105600141678052	0.000947528662084557
PA2590	PA2590	-0.851	-1.243	0.000461015779303994	1.88607109754804e-06
PA2591	vqsR	0.078	-0.002	0.603398831579937	0.99507684509529
PA2592	PA2592	-1.295	-0.406	1.59320451908447e-27	0.00306834003922751
PA2593	qteE	-0.061	0.455	0.762837356059149	0.042326893947029
PA2594	PA2594	-3.205	-2.992	2.59477912492485e-139	1.58443829912165e-123
PA2595	PA2595	-2.377	-2.129	1.00823055904557e-45	9.39861159830722e-40
PA2596	PA2596	-2.255	-1.361	8.24130833509155e-51	5.49184200738311e-23
PA2597	PA2597	-2.907	-2.914	1.45154809928737e-112	2.31864754088868e-113
PA2598	PA2598	-2.842	-2.935	8.97641955172888e-106	2.03038979933423e-110
PA2599	PA2599	-2.623	-2.524	1.41418496270158e-77	6.4268413518623e-73
PA2600	PA2600	-2.582	-2.873	1.74815483589224e-64	1.18339257618272e-75
PA2601	PA2601	0.782	-0.217	1.17025893540004e-11	0.14747067343228
PA2602	PA2602	-3.786	-3.16	6.98859466322801e-104	1.58730437509145e-91
PA2603	PA2603	-2.304	-2.736	1.72433989070025e-154	4.79148692740283e-200
PA2603.1	PA2603.1	-1.042	0.766	0.000325498163750001	0.0190902332285005
PA2604	PA2604	0.799	-0.266	1.13461175206036e-07	0.163275498633755
PA2605	PA2605	-0.245	0.158	0.153181751603674	0.496542743889128

PA2606	PA2606	0.784	0.135	5.3384725891499e-11	0.413790833162826
PA2607	PA2607	-0.708	-0.171	1.10276265925497e-05	0.43503705331025
PA2608	PA2608	-0.569	-0.187	3.84596888793914e-06	0.236434555368615
PA2609	PA2609	0.589	-0.073	5.52642582303191e-08	0.652249471163237
PA2610	PA2610	1.283	0.227	1.76121332824762e-32	0.100027577274277
PA2611	cysG	0.573	0.078	1.5921586692661e-22	0.331589169794789
PA2612	serS	0.167	-0.201	0.068204978623478	0.0660620806813014
PA2613	PA2613	0.159	-0.087	0.0705068132514498	0.463352678484182
PA2614	lolA	0.279	-0.296	0.015166697276121	0.0283993659520236
PA2615	ftsK	-0.131	-0.026	0.218419868480992	0.873934172766342
PA2616	trxB1	-0.131	-0.399	0.0686325930372417	9.84568279506818e-08
PA2617	aat	-1.518	-0.329	6.93601632252377e-39	0.0125947782814233
PA2618	PA2618	1.919	0.261	1.16852818773923e-32	0.214955508463519
PA2619	infA	-1.637	-0.113	2.13129851481079e-28	0.599322831891008
PA2620	clpA	1.071	-0.087	1.64430159132232e-29	0.520158817841599
PA2621	clpS	0.558	-0.214	0.00205885891233007	0.375330225162724
PA2622	cspD	1.605	-0.759	6.27329219883863e-42	1.62992648463931e-09
PA2623	icd	0.385	-0.158	0.00543990913914819	0.396446450080804
PA2624	idh	-2.382	0.383	2.87505641624529e-49	0.0496409811795432
PA2625	PA2625	-0.785	0.315	0.000168333098730244	0.2064294016856
PA2626	trmU	-1.076	0.233	9.87282396717519e-25	0.0653525128946909
PA2627	PA2627	-0.912	0.31	1.74464486003025e-12	0.0392108118136733
PA2628	PA2628	-0.594	0.422	2.43230039752815e-05	0.00508516490155864
PA2629	purB	-1.889	0.012	2.78364156646342e-41	0.956892435147525
PA2630	PA2630	-1.487	-0.014	3.43293158053343e-20	0.955565965812858
PA2631	PA2631	1.029	0.138	5.09268445836596e-14	0.474425101482791
PA2632	PA2632	1.04	0.256	4.04002759828133e-22	0.0532892588042143
PA2633	PA2633	0.969	0.049	5.84779474874961e-26	0.727434698591903
PA2634	aceA	1.965	0.581	3.10876733039226e-22	0.0152338982497107
PA2635	PA2635	0.919	0.617	1.09835076966423e-05	0.0117651350727331
PA2636	PA2636	0.875	-0.295	0.00548251068697404	0.550060035517964
PA2637	nuoA	1.671	0.498	9.55695359047624e-29	0.00465854318599982
PA2638	nuoB	1.766	0.316	3.91784427467055e-119	0.000322782990999484
PA2639	nuoD	1.568	0.164	1.57267970215617e-31	0.372204019705487
PA2640	nuoE	1.354	0.21	1.79883102135056e-41	0.104029648425118
PA2641	nuoF	1.465	0.226	1.52558566495017e-48	0.0708611223305151
PA2642	nuoG	1.506	0.119	2.72231700819563e-27	0.555627503137058
PA2643	nuoH	1.266	0.263	1.84789995419296e-26	0.0753209056226251
PA2644	nuoI	1.414	0.077	1.03882687700931e-26	0.70812196175421
PA2645	nuoJ	1.282	0.179	2.50559151957753e-30	0.232068542615027
PA2646	nuoK	0.896	0.065	5.51493589454759e-14	0.727261246408108
PA2647	nuoL	1.221	0.084	3.91224937954908e-21	0.667668503561753
PA2648	nuoM	1.299	0.134	7.26112644497122e-20	0.510114917781128
PA2649	nuoN	0.98	0.208	2.60282587575766e-12	0.260363790245421
PA2650	PA2650	-1.928	-0.342	1.28249561430656e-31	0.0300344282277714
PA2651	PA2651	-0.439	-0.077	9.60229263831442e-05	0.643246552730308
PA2652	PA2652	0.658	0.042	0.000103022549513224	0.876191129190249
PA2653	PA2653	-0.141	-0.019	0.379896953505783	0.938642603978266
PA2654	PA2654	1.275	0.461	7.44662531459652e-24	0.0014462269938026
PA2655	PA2655	0.795	0.3	7.77485090028615e-07	0.143976078707304

PA2656	PA2656	0.119	0.105	0.142557065989208	0.314395092357937
PA2657	PA2657	-0.007	-0.078	0.944924662858614	0.574502923602752
PA2658	PA2658	0.472	-0.151	0.000496167516489704	0.411864259360428
PA2659	PA2659	0.744	-0.078	5.57754601823774e-11	0.644837868070098
PA2660	PA2660	-1.74	-0.009	8.65432642400397e-22	0.974065970510156
PA2661	PA2661	-1.143	-0.165	4.30071886760712e-21	0.262143965594356
PA2662	PA2662	0.633	-0.149	3.15294007660096e-08	0.352012215706538
PA2663	ppyR	0.81	-0.949	9.61646958026118e-07	4.28902729286117e-06
PA2664	fhp	-0.047	-0.605	0.639317619536747	2.36306028433468e-09
PA2665	fhpRá	1.067	0.141	2.65373010459474e-11	0.543364152725087
PA2666	PA2666	-1.797	0.235	1.96975381921491e-31	0.178032257119204
PA2667	mvaU	-0.311	0.063	0.035982463604795	0.780198212149418
PA2668	PA2668	0.672	-0.176	7.70611757501175e-05	0.455795382206528
PA2669	PA2669	0.7	-0.061	1.72828218412111e-05	0.823659076128342
PA2670	PA2670	0.469	-0.1	0.000219970905188102	0.599318996132724
PA2671	PA2671	0.512	0.223	0.000224312478621765	0.217132391081558
PA2672	PA2672	0.029	-0.171	0.901778725133538	0.592846176009235
PA2673	PA2673	1.035	0.179	3.49632534441637e-11	0.433267848265356
PA2674	PA2674	0.246	-0.115	0.309149189214963	0.752653812045159
PA2675	PA2675	-0.21	-0.119	0.266696566079154	0.654453362119399
PA2676	PA2676	0.343	0.048	0.0202645353288093	0.836774400842945
PA2677	PA2677	0.01	-0.256	0.941105217277538	0.0832676559392677
PA2678	PA2678	-0.543	-0.004	0.00446015252748598	0.990663198184721
PA2679	PA2679	-0.196	0.185	0.0530160045000625	0.132611471611005
PA2680	PA2680	0.322	-0.071	0.04228442357422	0.772289612635962
PA2681	PA2681	-0.054	0.175	0.738973927891364	0.392208655230601
PA2682	PA2682	2.191	0.164	1.1094082303225e-43	0.48956725934492
PA2683	PA2683	-0.097	0.008	0.362815067919253	0.962761151318646
PA2683.1	NA	0.227	-0.021	0.20883902548302	0.940876195814688
PA2684	tse5	-0.864	-0.235	1.3396495799655e-13	0.102735804770785
PA2685	vgrG4	-0.672	-0.294	1.47384682691421e-07	0.0564401255744253
PA2686	pfeR	-5.651	0.062		0.722581935594828
PA2687	pfeS	-3.994	-0.096	2.35225493362185e-227	0.492908823842797
PA2688	pfeA	-3.484	-1.288	1.89045741981435e-124	3.46004776453256e-29
PA2689	PA2689	-0.891	-0.564	0.000719045507310239	0.0662920848677909
PA2690	PA2690	0.286	0.907	4.21276196327967e-06	4.72611725170825e-50
PA2691	PA2691	-0.918	3.74	1.09689200941167e-07	1.74979479633155e-111
PA2692	PA2692	-1.005	1.062	2.6059505545096e-12	2.20258240116457e-13
PA2693	PA2693	-2.402	0.654	1.26592804122065e-29	0.004180859186218
PA2694	trx2	-0.032	0.058	0.812253117416437	0.765973094117285
PA2695	PA2695	-1.001	0.083	1.21779013948299e-28	0.487802736751146
PA2696	PA2696	0.378	-0.287	0.0290602358428844	0.189804051400857
PA2697	PA2697	-0.289	0.112	0.0915906438915995	0.634358998176168
PA2698	PA2698	0.436	-0.32	0.000284236697394088	0.0283249629012599
PA2699	PA2699	1.873	0.028	2.51911218716319e-43	0.900919698108037
PA2700	opdB	0.633	0.202	1.13472356564444e-11	0.0814170595964693
PA2701	PA2701	1.173	0.213	1.95710198746089e-16	0.26254377741545
PA2702	tse2	-1.287	-0.219	2.78954608320799e-28	0.12444916221115
PA2703	tsi2	-0.896	-0.775	2.49026277564599e-07	4.29827690666368e-05
PA2704	PA2704	2.583	-0.103	1.44836568446074e-75	0.65161645048397

PA2705	PA2705	2.213	-0.258	1.40607651325223e-138	0.0194599919489529
PA2706	PA2706	2.263	-0.064	2.45861125029848e-118	0.688431794166447
PA2707	PA2707	0.982	-0.314	7.59965226285099e-23	0.00779510433195468
PA2708	PA2708	0.57	0.122	9.00942606999924e-05	0.557742306347664
PA2709	cysK	0.301	-0.134	0.00015028117965218	0.185692810101791
PA2710	PA2710	-0.622	-0.047	6.30203064615871e-08	0.792051662991936
PA2711	PA2711	1.225	0.176	4.2548797580676e-14	0.440261103674849
PA2712	PA2712	0.795	0.816	6.2402048705065e-06	1.87035489138921e-05
PA2713	PA2713	0.423	-0.012	8.67649342990971e-07	0.932908853398699
PA2714	PA2714	0.948	0.088	1.5705636575776e-10	0.711731394272706
PA2715	PA2715	0.777	-0.318	0.00567940113765824	0.451039184245449
PA2716	PA2716	0.428	-0.155	2.91860731242847e-06	0.188892334415547
PA2717	cpo	2.461	-0.074	3.94280166580112e-193	0.540803958425861
PA2718	PA2718	0.361	0.056	8.52291741355432e-05	0.688431794166447
PA2719	PA2719	0.562	-0.073	4.85136175160317e-10	0.590823263905295
PA2720	PA2720	-1.053	0.114	6.39434809834394e-23	0.416932269842823
PA2721	PA2721	1.464	0.27	3.72243787383848e-32	0.0832676559392677
PA2722	PA2722	1.336	0.097	1.08032343634069e-22	0.638271856286924
PA2723	PA2723	0.428	0.327	0.000137186511956959	0.0121592698990858
PA2724	PA2724	-0.436	0.188	0.0199384554688048	0.445134503238882
PA2725	PA2725	-0.653	-0.242	3.72504841311616e-05	0.236264201486477
PA2726	PA2726	-0.948	-0.405	1.21538607960391e-06	0.0887380489354697
PA2727	PA2727	-0.717	-0.3	4.15410593583865e-10	0.0270561195839585
PA2728	PA2728	-0.616	-0.383	2.01012424853103e-14	1.15793199593459e-05
PA2729	PA2729	-0.4	-0.236	0.000244585385656941	0.0720719226012425
PA2730	PA2730	0.715	-0.134	3.54886727555064e-08	0.456211824470648
PA2731	PA2731	0.601	-0.111	2.80795180685658e-07	0.500417881816099
PA2732	PA2732	1.096	-0.029	4.22319642010078e-44	0.821281796362002
PA2733	PA2733	0.124	-0.21	0.191106225952715	0.0593462546647345
PA2734	PA2734	0.167	-0.204	0.0998337318430928	0.0959295827395877
PA2735	PA2735	0.113	-0.287	0.296655249428323	0.0195866798650569
PA2736	PA2736	-0.065	-0.074	0.657126615917928	0.72160009413214
PA2736.1	PA2736.1	-0.414	0.371	0.00829327171035015	0.0448891419984567
PA2737	PA2737	0.519	-0.049	2.3532121308702e-05	0.799963447019652
PA2738	himA	0.652	-0.052	1.23567103956925e-06	0.807191572620621
PA2739	pheT	-0.862	-0.125	4.35472117752882e-36	0.149844950059001
PA2740	pheS	-1.092	-0.293	1.15385874543221e-22	0.0271612695140141
PA2741	rplT	-2.057	-0.217	3.58713377323194e-76	0.122571631873704
PA2742	rpmI	-1.604	-0.38	6.25614157352835e-36	0.011811512512083
PA2743	infC	-1.372	-0.202	2.92952872982286e-25	0.245315187205581
PA2744	thrS	-1.398	-0.072	2.99662815102996e-38	0.654453362119399
PA2744.1	P13	-1.814	0.418	9.56980339596103e-06	0.291053548888605
PA2745	PA2745	-1.554	0.462	1.84712604684813e-53	1.40688272279721e-06
PA2746	PA2746	0.24	0.759	0.123182071953066	3.30843872417257e-06
PA2747	PA2747	-2.729	0.564	9.09704580681534e-34	0.0370858629646649
PA2748	PA2748	-2.338	1.166	1.15519311647601e-25	1.15107568154514e-06
PA2749	endA	-0.16	1.022	0.474945333964213	6.2584750305496e-07
PA2750	PA2750	0.312	0.011	0.0545571047703938	0.967628884850684
PA2751	PA2751	0.331	0.38	0.0806452160807933	0.094632286525607
PA2752	PA2752	-0.419	0.254	0.0128617053532921	0.210732187033148

PA2753	PA2753	4.178	0.352	1.22433008231818e-45	0.407982384821462
PA2754	PA2754	1.838	0.039	1.14001250667336e-17	0.911302755469389
PA2755	eco	0.083	-0.337	0.610838807093552	0.0731058701845536
PA2756	PA2756	-0.45	0.254	1.47745784319244e-05	0.0388568494553271
PA2757	PA2757	-1.144	0.533	3.72566570229626e-06	0.0294405360945814
PA2758	PA2758	0.71	-0.006	1.69946183286758e-06	0.980653174470081
PA2759	PA2759	-0.074	-0.136	0.585497277160502	0.44057050692931
PA2760	oprQ	-1.375	-1.536	5.86296534380882e-29	9.78337885166233e-35
PA2761	PA2761	-6.508	-0.04	8.50445136179313e-130	0.822852561343249
PA2762	PA2762	2.217	-0.042	1.62203221776266e-71	0.848295330469232
PA2763	PA2763	-0.37	0.261	0.0452484867820982	0.242537450548427
PA2764	PA2764	-0.08	-0.295	0.501132502245403	0.0274368249728672
PA2765	PA2765	1.079	-0.409	1.6564010319582e-16	0.00859159769597422
PA2766	PA2766	-0.114	-0.213	0.255221859784352	0.0723532943174289
PA2767	PA2767	1.485	-0.141	1.52160686091139e-18	0.61867713216675
PA2768	PA2768	1.526	-0.695	2.865821696997e-07	0.139793807228212
PA2769	PA2769	0.719	0.109	2.33498532104353e-05	0.672423554187364
PA2770	PA2770	0.451	-0.03	4.65104461776497e-07	0.832809121541952
PA2771	PA2771	0.512	-0.126	0.00126768955629421	0.57855306693021
PA2772	PA2772	-1.001	0.037	5.41574792287294e-08	0.894812968477423
PA2773	PA2773	-0.852	-0.35	2.70764724997182e-05	0.157081550351926
PA2774	tse4	-1.731	-0.658	1.18540682466185e-32	2.30481463992632e-05
PA2775	tsi4	-2.426	-0.34	4.20905762626239e-47	0.0767104304720929
PA2775.1	PA2775.1	-1.518	0.593	6.33564316094878e-10	0.0332475296520926
PA2776	pauB3	-0.197	-0.751	0.0880213104417676	1.75016920445232e-10
PA2777	PA2777	1.472	0.003	2.75798892898888e-18	0.990893211919859
PA2778	PA2778	3.175	0.234	9.65843091188761e-203	0.0822613503886457
PA2779	PA2779	4.076	0.046	9.81627432730847e-174	0.848295330469232
PA2780	PA2780	-0.219	0.114	0.191518210613111	0.632294851448349
PA2781	PA2781	0.375	-0.086	0.00100171962273395	0.602689901821946
PA2782	bamI	0.013	0.306	0.944670566915423	0.161336680360591
PA2783	mep72	0.124	0.449	0.588593973068277	0.0804333793290779
PA2784	PA2784	1.389	-0.095	2.13266476330983e-19	0.726543526715577
PA2785	PA2785	1.129	-0.256	4.96733267428069e-05	0.564824742339298
PA2786	PA2786	-5.302	-4.522		0
PA2787	cpg2	0.181	-0.473	0.286026821496574	0.0132011383430722
PA2788	PA2788	1.892	0.324	8.93274171327098e-56	0.0249706539929592
PA2789	PA2789	-1.268	-0.1	1.61500035924337e-16	0.635270562046592
PA2790	PA2790	-0.088	0.128	0.599929024441756	0.576286520162794
PA2791	PA2791	-0.525	-0.041	0.0422906878550605	0.91582091391408
PA2792	PA2792	-1.856	-0.619	3.95076015706747e-31	0.000252999816132989
PA2793	PA2793	-2.029	-0.452	9.24811567589139e-46	0.00543440065546392
PA2794	PA2794	1.333	0.036	4.69954730103015e-13	0.904506675483058
PA2795	PA2795	-2.177	0.049	7.8946751844237e-78	0.749561073283848
PA2796	tal	-0.086	-0.226	0.42542980217233	0.0744161241039611
PA2797	PA2797	0.167	0.085	0.272586997322878	0.701495691775437
PA2798	PA2798	0.041	-0.094	0.648640325913574	0.418974612345991
PA2799	PA2799	2.033	0.392	2.99248358405336e-105	0.000262054237959983
PA2800	vacJ	-0.147	-0.103	0.104347679968179	0.389222127683879
PA2801	PA2801	-0.233	-0.181	0.0910559712182206	0.308441874597745

PA2802	PA2802	-0.716	0.027	2.85918005149668e-14	0.85542350741394
PA2803	PA2803	0.276	-0.316	0.54075631906012	0.629274590251565
PA2804	PA2804	0.548	0.232	0.0525032557063656	0.569408221488586
PA2805	PA2805	0.687	-0.006	3.44868081448768e-07	0.979571034272843
PA2806	PA2806	-1.386	0.08	1.09166038325796e-33	0.610088413981728
PA2807	PA2807	0.792	-0.033	1.79285106578541e-05	0.915859326949674
PA2808	ptrA	-0.142	0.127	0.552896467408105	0.704914394334368
PA2809	copR	0.17	-0.27	0.0600841940776825	0.00986468857412113
PA2810	copS	-0.161	-0.04	0.10192313436984	0.789381029314511
PA2811	PA2811	-0.343	-0.236	0.00208379107385388	0.0803718111587308
PA2812	PA2812	-0.48	-0.482	4.76042562653135e-05	0.000212332362471243
PA2813	PA2813	0.449	-0.175	2.68166574413715e-08	0.0819325839230934
PA2814	PA2814	0.706	0.348	1.60742435928013e-10	0.00806334801986104
PA2815	PA2815	1.435	-0.224	9.67597362895813e-48	0.0662920848677909
PA2816	PA2816	0.119	-0.018	0.259077136914692	0.911302755469389
PA2817	PA2817	0.059	-0.05	0.462066169351875	0.657471545845536
PA2818	arr	-0.181	0.062	0.0680817167223823	0.66407201719768
PA2819	PA2819	-0.241	0.175	0.458530671790328	0.6959990711266
PA2819.1	PA2819.1	-2.631	-0.105	1.8090651136466e-108	0.520280457151283
PA2819.2	PA2819.2	-2.891	-0.253	1.103260523912e-112	0.10718549398988
PA2819.3	PA2819.3	-1.851	0.505	1.04477574872815e-16	0.0348194737733657
PA2820	PA2820	-0.57	-0.157	1.05187835057653e-05	0.362536646114978
PA2821	PA2821	1.526	0.725	3.54255807871256e-67	7.72998435443514e-15
PA2822	PA2822	-0.42	-0.06	2.52046382759753e-05	0.683918112235475
PA2823	PA2823	-1.092	-0.1	1.58014098360968e-28	0.454331367907468
PA2824	sagS	0.211	0.311	0.0602088747625607	0.0151663032374982
PA2825	ospR	1.652	-0.077	1.77828024270281e-49	0.666240681658188
PA2826	PA2826	1.608	-0.111	8.03035079251773e-24	0.649059877049824
PA2827	PA2827	1.019	-0.049	3.10384001272964e-21	0.772871031664781
PA2828	PA2828	-2.03	-0.227	6.85261790726779e-54	0.165206485824576
PA2829	PA2829	-2.545	-0.274	7.14027291180411e-35	0.166250834552985
PA2830	htpX	-0.058	-0.559	0.672427778576229	0.00010223557986548
PA2831	PA2831	0.507	-0.152	0.000462964731295441	0.445450976669899
PA2832	tpm	-0.713	-0.016	1.71533283025716e-20	0.896001721050682
PA2833	PA2833	-0.233	0.3	0.311613448090132	0.295434493734237
PA2834	PA2834	-0.047	-0.313	0.667871578870128	0.0101718567801935
PA2835	PA2835	0.536	0.52	0.00625530945108943	0.0223571471372538
PA2836	PA2836	0.355	0.329	0.327841459839652	0.498623933424999
PA2837	PA2837	0.075	0.288	0.771001930354342	0.359742421786691
PA2838	PA2838	0.542	0.13	0.000207583012425314	0.544451842963617
PA2839	PA2839	0.04	0.047	0.780703730133143	0.826932798008344
PA2840	PA2840	0.179	0.606	0.321863228123517	0.00196411032320428
PA2841	PA2841	0.736	0.082	1.6969847998777e-09	0.652883920729716
PA2842	PA2842	-0.384	0.312	6.04808485432445e-05	0.00290581239773319
PA2843	PA2843	-0.925	-0.217	2.62451326691286e-32	0.0161126987672534
PA2844	PA2844	-0.531	0.085	1.78649848155901e-05	0.635212530449444
PA2845	PA2845	0.81	0.359	4.75783748218749e-06	0.112103395613854
PA2846	PA2846	0.876	-0.159	2.55965595541022e-10	0.424863344613876
PA2847	PA2847	-1.414	0.955	1.97809195546922e-17	2.90445267901257e-09
PA2848	PA2848	0.676	-0.038	0.000101890174026369	0.896001721050682

PA2849	ohrR	1.739	-0.477	1.23688385482906e-16	0.066543913268949
PA2850	ohr	0.252	-0.953	0.362862157552075	0.00158587989937742
PA2851	efp	-2.024	-0.157	2.62083867722374e-70	0.299233481677964
PA2852	PA2852	0.099	0.05	0.363322780857555	0.755998789853742
PA2852.1	PA2852.1	-0.053	1.189	0.868283607693046	0.000252336646646211
PA2852.2	NA	-0.224	0.222	0.238155981659737	0.357534780158393
PA2853	oprl	0.401	0.51	0.000289229343942688	2.11246627705997e-05
PA2854	PA2854	-0.175	0.078	0.000160100569268993	0.180609734127473
PA2855	PA2855	-0.626	-0.071	6.45212185342723e-07	0.698850475664026
PA2856	tesA	-0.451	-0.29	1.57107620412242e-07	0.00301885781768152
PA2857	PA2857	-0.838	0.008	1.56154685341537e-11	0.969515472348422
PA2858	PA2858	-0.967	0.143	2.84462030544876e-17	0.34374476811863
PA2859	greB	-0.946	0.114	1.65797425854222e-14	0.490929619475065
PA2860	PA2860	-1.061	-0.028	1.7665576124322e-25	0.863528131849727
PA2861	ligT	0.584	0.166	0.000160100569268993	0.445134503238882
PA2862	lipA	6.76	-0.11		0.680375427532255
PA2863	lipH	4.374	0.372	2.03780636177639e-126	0.179160871062029
PA2864	PA2864	0.394	-0.269	3.53674205130419e-05	0.0159869896669509
PA2865	PA2865	-0.77	0.326	3.30731535651154e-18	0.000857861133217624
PA2866	mttC	-0.788	0.068	1.14582451223877e-14	0.630720747685697
PA2867	PA2867	1.057	0.441	1.58846168964509e-20	0.00061206467702253
PA2868	PA2868	0.917	0.151	2.99586052716437e-30	0.149340913254699
PA2869	PA2869	0.143	0.107	0.311067802727394	0.583075871479469
PA2870	PA2870	1.084	0.256	2.49744365387796e-27	0.0359688493909985
PA2871	PA2871	-0.441	-0.209	5.7739182700079e-05	0.122541953075043
PA2872	PA2872	0.296	0.263	0.123786749137924	0.285670567393244
PA2873	tgpA	0.061	0.075	0.646115248921073	0.692708914154442
PA2874	PA2874	-0.176	0.023	0.381301264704118	0.939084404082602
PA2875	PA2875	-0.328	-0.01	7.52138725853468e-05	0.939084404082602
PA2876	pyrF	-0.847	0.109	2.61467358376273e-12	0.500642948714171
PA2877	PA2877	0.258	-0.128	0.00856077232355098	0.331554136023777
PA2878	PA2878	0.962	-0.305	1.91619620495153e-07	0.239997793024282
PA2879	PA2879	0.439	0.199	0.00470083670683184	0.333788733622365
PA2880	PA2880	0.024	0.425	0.917609444925961	0.0981798463147602
PA2881	PA2881	1.479	0.013	2.206092394046e-12	0.972610354446092
PA2882	PA2882	0.539	0.177	0.00347769701575903	0.502709966411287
PA2883	PA2883	0.943	0.132	4.42615202544125e-08	0.598563443512856
PA2884	PA2884	-0.451	0.139	0.000598606486793024	0.432256266804734
PA2885	atuR	0.289	0.087	0.00399151938442222	0.539163474730477
PA2886	atuA	1.129	-0.027	1.94692411544231e-13	0.91582091391408
PA2887	atuB	2.136	-0.166	2.95897044935946e-25	0.608832029336343
PA2888	atuC	2.143	-0.197	4.49767431999735e-29	0.486326468489245
PA2889	atuD	2.316	-0.262	7.73849336145433e-37	0.305732715826633
PA2890	atuE	2.056	0.039	2.15258812972694e-25	0.911302755469389
PA2891	atuF	1.961	0.06	9.68354890050738e-27	0.846527738807095
PA2892	atuG	2.491	0.277	1.48116884455985e-45	0.273121345532641
PA2893	atuH	1.952	0.062	7.80797514370278e-103	0.688431794166447
PA2894	PA2894	0.394	0.179	3.01483102313398e-05	0.129208389248091
PA2895	PA2895	0.639	0.512	0.0128961004323944	0.102351742560623
PA2896	PA2896	0.128	0.044	0.394749039434824	0.848933383829462

PA2897	PA2897	1.096	-0.396	5.32462388816793e-12	0.0385794639871203
PA2898	PA2898	0.241	0.178	0.172404488870731	0.449945505741061
PA2899	PA2899	0.337	0.364	0.00241494478366629	0.00377656624770593
PA2900	PA2900	-0.763	-0.127	6.80827875157718e-11	0.424863344613876
PA2901	PA2901	-0.814	-0.271	3.27546798386431e-11	0.0679581932911115
PA2902	PA2902	-0.7	-0.221	2.40125243354773e-14	0.0431003270341872
PA2903	cobJ	-0.344	0.244	0.126889336628772	0.411810262796494
PA2904	cobl	-0.498	-0.182	0.00108129243757987	0.36294575401429
PA2905	cobH	-0.967	0.171	1.89163973473771e-08	0.433620963791493
PA2906	PA2906	-1.258	0.489	8.24225068696629e-19	0.0020144266415461
PA2907	cobL	-0.824	0.365	5.94595290993263e-06	0.0976951335916098
PA2908	cbiD	-1.002	0.153	2.64494842446613e-10	0.473695881392546
PA2909	PA2909	-0.547	0.542	0.0601671347538038	0.114453486773149
PA2910	PA2910	-0.348	0.322	0.0591557224518112	0.121236878727335
PA2911	PA2911	0.653	-0.09	1.13010436647365e-06	0.670080203193427
PA2912	PA2912	-3.851	-1.19	1.53188631647199e-46	6.89286619103093e-10
PA2913	PA2913	-1.954	-0.79	2.54236469907084e-38	1.15084756608803e-08
PA2914	PA2914	-2.257	-0.738	3.10111680164835e-24	0.000915133456923219
PA2915	PA2915	0.116	-0.344	0.217404067228425	0.000829528622587852
PA2916	PA2916	-0.058	0.751	0.846033621439727	0.0103285538087673
PA2917	PA2917	1.033	0.211	6.00179786745765e-24	0.109311105941338
PA2918	PA2918	-0.22	-0.318	0.0482510011440517	0.0119362276436005
PA2919	PA2919	-0.257	-0.373	0.0865098229155945	0.0332475296520926
PA2920	PA2920	2.093	0.286	2.47018400056553e-102	0.0136999784217926
PA2921	PA2921	-0.716	0.023	8.44583584515895e-08	0.910163521469412
PA2922	PA2922	1.785	0.466	8.87936478081359e-12	0.216728347203211
PA2923	hisJ	2.39	0.785	4.20566170717534e-16	0.0478396776283377
PA2924	hisQ	1.761	0.08	1.23227188155604e-07	0.898826993676933
PA2925	hisM	1.52	0.333	4.88604983844039e-11	0.331300606674763
PA2926	hisP	1.59	0.103	5.30651977567919e-12	0.805151586564803
PA2927	PA2927	0.875	-0.235	6.72693259835797e-13	0.128089632737316
PA2928	PA2928	-1.896	-1.195	2.29557070925302e-32	9.59689275840307e-14
PA2929	PA2929	-3.774	-3.69	3.81320101895467e-86	2.33780894977206e-83
PA2930	PA2930	0.206	-0.257	0.259136809936663	0.269948939570924
PA2931	cifR	0.878	0.027	7.33926551944604e-08	0.919513120824994
PA2932	morB	0.296	0.183	0.143656133517338	0.506821661252015
PA2933	PA2933	1.719	1.324	7.77682550088409e-08	0.000277652404650313
PA2934	cif	0.152	0.558	0.407858315458234	0.00452467690743852
PA2935	PA2935	-0.144	0.309	0.644064679040903	0.424828324728086
PA2936	PA2936	-0.354	-0.46	0.129433153318353	0.104301869759413
PA2937	PA2937	1.928	0.035	6.03625165225807e-37	0.887842311322016
PA2938	PA2938	2.335	0.148	4.83710442745155e-37	0.598596206283457
PA2939	PA2939	2.093	-0.355	4.70723471263421e-34	0.0988304844682471
PA2940	PA2940	0.537	0.289	1.37458181217438e-05	0.0550290959647856
PA2941	PA2941	-0.308	0.653	0.114106116605508	0.0018575708043665
PA2942	PA2942	-0.922	0.304	1.50952999857928e-12	0.0458573961767472
PA2942.1	P15	-2.053	0.439	1.20485700813409e-38	0.0171281291464362
PA2943	PA2943	-3.558	0.716	4.87259458738637e-81	0.000331151651916274
PA2944	cobN	0.014	-0.198	0.929449064975453	0.326709896748192
PA2945	PA2945	0.043	-0.238	0.77999226784517	0.186797374362771

PA2946	PA2946	-0.18	-0.035	0.0590736756613462	0.813647021473642
PA2947	PA2947	-0.709	-0.253	0.000842661276325792	0.362536646114978
PA2948	cobM	-0.249	-0.488	0.239536608899124	0.0478537334356903
PA2949	PA2949	-0.409	-0.049	2.46170691461557e-05	0.735433978540658
PA2950	pfm	-2.088	0.474	4.14071409652762e-119	1.01921844658205e-06
PA2951	etfA	-1.106	-0.217	1.6609632538879e-21	0.138251504890493
PA2952	etfB	-1.252	-0.402	4.82220611529233e-22	0.00779879716643321
PA2953	PA2953	2.177	-0.372	7.21697488853373e-55	0.0290520213513947
PA2954	PA2954	0.454	0.154	1.68474935018266e-06	0.211176483832531
PA2955	PA2955	0.121	0.187	0.228217553164163	0.121785458119762
PA2956	PA2956	-0.447	0.031	8.47412435185298e-06	0.846151134612416
PA2957	PA2957	-1.275	-0.119	1.65114426688449e-33	0.405554155164064
PA2958	PA2958	0.112	-0.061	0.18184414583233	0.606756889662621
PA2958.1	rgsA	2.778	0.88	2.10010502478988e-33	0.00082593542300218
PA2959	PA2959	-0.949	0.066	2.8387528103277e-23	0.631866384945636
PA2960	pilZ	-1.025	0.073	1.56111261852784e-26	0.600062815569029
PA2961	holB	0.376	0.054	4.10613174194717e-06	0.656719346947514
PA2962	tmk	0.219	0.17	0.0301886215843259	0.17919573943995
PA2963	PA2963	-0.134	0.032	0.0433296173001223	0.739775864956638
PA2964	pabC	0.405	0.396	0.0136481704888413	0.0401003224129989
PA2965	fabF1	-0.488	-0.076	9.99216789459853e-07	0.597732212382261
PA2966	acpP	-1.407	0.221	3.37723047667291e-24	0.220379346471402
PA2967	fabG	-1.37	0.457	1.55044539814108e-55	1.25166509493972e-06
PA2968	fabD	-2.341	0.412	9.66628829353658e-99	0.000983053346466768
PA2969	plsX	-1.26	0.022	4.64550419383864e-48	0.869852475135368
PA2970	rpmF	-0.819	0.15	2.16198288534585e-07	0.498400894348874
PA2971	PA2971	-0.429	0.027	0.00115571171830511	0.898142606097448
PA2972	PA2972	-0.83	-0.393	8.11373025296986e-12	0.00333588480081741
PA2973	PA2973	-0.61	0.106	1.78880282827433e-08	0.479150579623336
PA2974	PA2974	-0.695	0.13	2.51168836828402e-18	0.191919203631738
PA2975	rluC	-1.135	0.237	8.94154116706415e-61	0.00160618639274129
PA2976	rne	-1.827	-0.266	1.05152761440474e-98	0.0087445605376142
PA2977	murB	-0.86	0.135	2.55405062613019e-22	0.227678043845365
PA2978	ptpA	-1.162	0.14	3.68408235155438e-22	0.370811315677355
PA2979	kdsB	-0.663	0.149	2.54403132186418e-12	0.218056751415765
PA2980	PA2980	-0.538	0.137	8.04570326521829e-07	0.341017966229691
PA2981	lpxK	-1.083	0.401	1.51090508041489e-37	6.26119478338769e-06
PA2982	PA2982	-1.653	0.078	6.67171167808679e-44	0.645404578075844
PA2983	PA2983	-1.835	-0.084	4.29644656214559e-57	0.600046809645635
PA2984	PA2984	0.338	0.002	0.0227725205100322	0.995191939197909
PA2985	PA2985	-0.273	0.207	0.0577942401462007	0.253480103584718
PA2986	PA2986	-0.16	0.108	0.231633000143219	0.556898916111299
PA2987	PA2987	0.103	0.361	0.521273905691967	0.0490812484784812
PA2988	PA2988	-0.491	0.347	2.02469226962943e-06	0.00272652913431108
PA2989	PA2989	0.385	0.164	1.31867980340435e-05	0.138637723468592
PA2990	PA2990	0.667	-0.204	1.79820717455454e-15	0.0460136728372267
PA2991	sth	-0.977	-0.047	3.41805208031968e-30	0.717566423429975
PA2992	PA2992	0.383	0.188	5.44248201977876e-05	0.112103395613854
PA2993	PA2993	-0.684	0.405	4.12734247489243e-19	1.98724406499075e-07
PA2994	nqrF	-0.577	0.194	4.86880325761565e-12	0.0508226651370086

PA2995	nqrE	-0.353	0.087	1.71406680940626e-05	0.433462966658968
PA2996	nqrD	-0.216	0.197	0.0101782522520357	0.042684994781895
PA2997	nqrC	-0.657	0.176	3.52734364671063e-11	0.15029883167186
PA2998	nqrB	-0.732	0.205	4.13767032240209e-15	0.0660620806813014
PA2999	nqrA	-1.005	0.15	9.87293320580371e-23	0.260363790245421
PA3000	aroP1	-0.925	0.662	3.05175543275047e-09	7.78897770734928e-05
PA3001	PA3001	-0.271	0.052	0.0571289385943794	0.814149173066361
PA3002	mfd	-1.041	0.111	1.82299197706176e-50	0.215285815247909
PA3003	PA3003	-0.611	0.149	1.62579703894071e-16	0.0946909789339368
PA3004	PA3004	0.237	-0.287	0.000731603313177543	0.000249795380614521
PA3005	nagZ	-0.469	-0.145	1.75609192322531e-11	0.088700536926361
PA3006	psrA	0.119	0.061	0.357985497778029	0.744504570957751
PA3007	lexA	0.583	-0.407	6.14251130307192e-05	0.0173177365473254
PA3008	PA3008	0.599	-0.444	0.000228215174977653	0.0205066262442575
PA3009	PA3009	-1.426	0.552	1.09232147210624e-25	0.000212505926278862
PA3010	PA3010	0.303	0.066	5.92703828658834e-05	0.536208544881406
PA3011	topA	-0.362	-0.404	0.000818256569455374	0.000798952263732656
PA3012	PA3012	0.047	0.034	0.743263919584656	0.872963467178767
PA3013	foaB	0.232	-0.336	0.215008641778874	0.13668892892543
PA3014	faoA	0.409	-0.528	0.0266133193752603	0.0122706604634046
PA3015	PA3015	0.76	0.054	3.42268372561726e-28	0.606857133495191
PA3016	PA3016	-0.502	0.313	0.000520941588480148	0.0450950836518721
PA3017	PA3017	1.292	-0.131	3.94916408004722e-41	0.314760996905349
PA3018	PA3018	-0.516	-0.15	0.000222189761242999	0.410167255720742
PA3019	PA3019	-1.101	-0.048	1.62671706852796e-41	0.689501504429856
PA3020	PA3020	-0.028	0.039	0.787430468708958	0.793432393079988
PA3021	PA3021	-0.367	-0.497	0.0176571333219426	0.00450244042574211
PA3022	PA3022	1.22	-0.183	3.49576886309418e-30	0.188755259647522
PA3023	PA3023	0.973	-0.244	5.1856578609384e-12	0.178183845569496
PA3024	PA3024	0.253	-0.136	0.00246887944150418	0.206330252570886
PA3025	PA3025	-0.105	0.152	0.501132502245403	0.454331367907468
PA3026	PA3026	0.089	-0.22	0.464180125165185	0.131343959700959
PA3027	PA3027	-0.465	0.15	8.82410412752048e-05	0.33297902551089
PA3028	moeA2	-0.724	-0.184	1.54957153358427e-12	0.154692087132185
PA3029	moaB2	-0.501	-0.298	1.74081803179185e-10	0.000694150510164094
PA3030	mobA	-0.915	-0.094	2.19917524512046e-18	0.498976403390862
PA3031	PA3031	1.468	-0.488	3.2886453985386e-40	7.59188127677918e-05
PA3031.1	PA3031.1	-1.475	0.398	7.41325168473723e-06	0.264610260836267
PA3032	snr1	2.802	-0.49	3.15382824034926e-126	0.000259175861323262
PA3033	PA3033	-0.844	0.484	1.97693135711458e-12	9.32375920481744e-05
PA3034	PA3034	-1.067	0.299	2.77273708875694e-23	0.0141815015599503
PA3035	PA3035	0.265	0.373	0.0624976979520197	0.0214691958118463
PA3036	PA3036	1.062	0.299	0.000101660464531086	0.447343090685876
PA3037	PA3037	0.936	-0.438	0.00139475430255162	0.322924023845656
PA3038	PA3038	0.908	0.101	5.42163613872805e-07	0.714216717949635
PA3039	PA3039	0.163	0.298	0.294299157808728	0.101399288820284
PA3040	PA3040	1.631	0.002	4.1889874659238e-39	0.994170365179236
PA3041	PA3041	0.885	0.128	2.41798064632063e-14	0.424828324728086
PA3042	PA3042	0.281	0.131	0.0547218937146054	0.512757268509979
PA3043	PA3043	-0.067	-0.309	0.483754985654544	0.00293403845849277

PA3044	rocsS2	0.259	0.094	0.00658464010074438	0.47479944006384
PA3045	rocA2	0.783	0.588	6.26275042529325e-05	0.00986528738057867
PA3046	PA3046	0.461	0.08	1.35318070829085e-05	0.604570309208955
PA3047	PA3047	-1.401	-0.042	3.39976462970236e-101	0.649059877049824
PA3048	PA3048	-0.802	-0.413	1.8669577480271e-27	1.38016482041822e-07
PA3049	rmf	0.692	-0.271	0.000419987350291549	0.292167065866353
PA3050	pyrD	-1.719	0.149	1.72168493192757e-80	0.183900509566097
PA3051	PA3051	2.105	0.859	1.23479828541858e-35	4.07285102450736e-06
PA3052	PA3052	-0.394	0.089	9.05973795676463e-09	0.326282983365699
PA3053	PA3053	0.206	-0.152	0.0202645353288093	0.174961716602699
PA3054	PA3054	0.272	-0.177	0.0146020587309607	0.215083430909104
PA3055	PA3055	0.043	-0.397	0.740131746346558	0.0046286949442875
PA3056	PA3056	0.036	-0.337	0.814894299264139	0.0517526461595409
PA3057	PA3057	0.597	0.076	0.00610328862596055	0.827228063760661
PA3058	pelG	-0.129	0.678	0.47618543473276	0.000149007349310589
PA3059	pelF	0.158	0.072	0.420252054390934	0.809921222202466
PA3060	pelE	0.613	0.225	0.0388906662983671	0.607897268682474
PA3061	pelD	0.376	0.135	0.142412455739271	0.723223357711133
PA3062	pelC	1.595	0.488	3.69072743147331e-10	0.165394995134092
PA3063	pelB	0.424	0.367	0.00134752528166607	0.017468551720498
PA3064	pelA	0.5	0.269	0.000196443976679259	0.109942357346743
PA3065	PA3065	0.293	0.398	0.125344575692339	0.0791839888977441
PA3066	PA3066	0.969	0.27	3.98991220940939e-17	0.0605979466899414
PA3067	PA3067	0.017	0.132	0.900036649320866	0.445827404968057
PA3068	gdhB	-0.585	-0.31	4.57481568542579e-05	0.0762564756723116
PA3069	PA3069	1.347	0.275	5.35426520482625e-36	0.0409351772766466
PA3070	PA3070	-0.378	0.011	1.24292856849811e-08	0.92004492964012
PA3071	PA3071	0.075	0.157	0.501425228420019	0.25195115568984
PA3072	PA3072	-0.045	0.714	0.845587186018365	0.00268300692042062
PA3073	PA3073	-0.09	0.348	0.415750001388999	0.00299840383023429
PA3074	PA3074	-0.316	0.203	0.00839334117969533	0.173960291595627
PA3075	PA3075	0.201	0.132	0.247173423863017	0.587603295985041
PA3076	PA3076	1.112	0.163	9.98512286863698e-16	0.393138472514971
PA3077	cprR	0.608	0.071	2.57443428722207e-07	0.69812341929633
PA3078	cprS	0.952	0.055	4.18061972500825e-11	0.813647021473642
PA3079	PA3079	4.233	0.096	1.08101987050428e-179	0.683918112235475
PA3080	PA3080	2.595	0.478	1.58757830751051e-105	0.000721043720878939
PA3081	PA3081	-1.264	-0.372	3.74022070588072e-20	0.0152338982497107
PA3082	gbt	-1.753	-0.268	5.16882923767559e-73	0.0103650000891741
PA3083	pepN	0.317	-0.102	0.000656605574876597	0.418829372050439
PA3084	PA3084	-0.48	-0.023	4.85482781124547e-07	0.880019246765552
PA3085	PA3085	0.16	0.129	0.0455724903306366	0.198972534556214
PA3086	PA3086	0.081	0.305	0.367070889534873	0.00155686652592929
PA3087	PA3087	-0.048	0.041	0.595354891925574	0.754579030547039
PA3088	PA3088	0.049	-0.058	0.7087728910295	0.755442394854057
PA3089	PA3089	1.522	0.366	4.10272002947228e-33	0.0159780639678587
PA3090	PA3090	2.557	0.391	2.16956541482856e-43	0.117497889984257
PA3091	PA3091	0.819	0.247	2.92144268432854e-11	0.108382279664589
PA3092	fadH1	1.187	-0.133	4.55654201604595e-17	0.523139148093743
PA3093	PA3093	-0.872	0.097	6.06324979232103e-14	0.552129859779443

PA3094	PA3094	-0.04	0.223	0.725030024511458	0.0833542882889125
PA3094.1	PA3094.1	-0.268	0.319	0.0779268922222728	0.0785629909210658
PA3094.2	PA3094.2	-1.188	0.474	1.76695622563636e-12	0.0161592481020955
PA3094.3	PA3094.3	-0.943	0.773	0.000295993313035626	0.00858236545725635
PA3095	xcpZ	0.74	-0.016	1.94963928138079e-05	0.95530146283956
PA3096	xcpY	0.493	0.031	0.00254571003936995	0.908128116307669
PA3097	xcpX	0.4	-0.146	0.000491695527332168	0.344391479084802
PA3098	xcpW	0.445	-0.227	4.27862206234155e-05	0.0924513402269498
PA3099	xcpV	0.216	-0.53	0.0923282885964499	0.000185731894008281
PA3100	xcpU	0.123	-0.188	0.233993503778883	0.136250768341895
PA3101	xcpT	0.484	-0.594	8.03673666422999e-05	9.39431358214513e-06
PA3102	xcpS	0.321	-0.111	0.00111405038764098	0.40731975329691
PA3103	xcpR	0.544	-0.291	2.35126908573072e-21	4.30147892961216e-06
PA3104	xcpP	-0.873	-0.011	4.27851055920011e-14	0.95530146283956
PA3105	xcpQ	-0.336	-0.792	0.00338061418354136	1.99728927080846e-11
PA3106	PA3106	-0.866	-0.001	2.04879182185736e-30	0.992959592496423
PA3107	metZ	-0.415	-0.065	1.97422449515978e-07	0.56583342576307
PA3108	purF	-0.486	-0.21	2.38021313105158e-12	0.00904206899769905
PA3109	PA3109	-1.407	0.287	2.10483079639639e-40	0.0191318988386495
PA3110	PA3110	-0.922	0.304	1.15240949248044e-31	0.000479972574647213
PA3111	folC	-2.186	0.441	5.43697808635001e-153	6.47720094376965e-07
PA3112	accD	-2.698	0.38	6.28793127808833e-145	0.00143184967361307
PA3113	trpF	-1.401	0.154	1.26630513818493e-92	0.0557322927725241
PA3114	truA	0.008	0.126	0.935171813034524	0.28118634860682
PA3115	fimV	0.472	0.041	1.38694281057594e-23	0.545265193863743
PA3116	PA3116	0.906	0.113	0.0259786156944643	0.860088235216421
PA3117	asd	2.289	-0.024	8.01177353282589e-07	0.974684575592469
PA3118	leuB	3.816	-0.098	4.98457405063793e-12	0.912557498735196
PA3119	PA3119	6.447	-0.208	4.16609279369945e-24	0.839957253386171
PA3120	leuD	6.944	-0.398	1.19792749294404e-28	0.674436364147201
PA3121	leuC	6.363	-0.552	1.96850551732565e-27	0.507934821619604
PA3122	PA3122	1.059	-0.173	6.04160181868231e-08	0.545402709853126
PA3123	PA3123	1.829	-0.277	6.88831199107443e-52	0.0644388244739984
PA3124	PA3124	0.959	-0.087	2.15893473929078e-17	0.604901986163325
PA3125	PA3125	0.443	0.225	0.00104881631563063	0.192705201783975
PA3126	ibpA	-0.981	-0.322	1.9164107798583e-14	0.0362634919775559
PA3127	PA3127	-0.091	-0.261	0.498154866040556	0.0996072782024884
PA3128	PA3128	0.601	-0.122	0.000265218541878514	0.612327138233078
PA3129	PA3129	-0.924	-0.109	1.96399592635218e-11	0.574779299358574
PA3130	PA3130	-1.156	-0.151	2.99068117032315e-21	0.340356321630386
PA3131	PA3131	-0.944	0.007	1.25766579379129e-22	0.961534101649433
PA3132	PA3132	1.133	0.044	1.26939959898647e-25	0.811645368897694
PA3133	PA3133	0.729	-0.384	5.32829276234254e-08	0.0249706539929592
PA3133.1	PA3133.1	-2.983	0.241	1.1426147454381e-48	0.303922688009128
PA3133.2	PA3133.2	-1.999	0.216	1.9972727462552e-53	0.185766813550024
PA3133.3	PA3133.3	-2.519	0.457	2.07811681333774e-53	0.0111985874936332
PA3133.4	PA3133.4	-2.172	0.49	1.65930792745178e-39	0.00773449132332073
PA3134	glxX	-0.927	-0.221	5.17080953074618e-17	0.107683722184337
PA3135	PA3135	-0.228	-0.079	0.0103310610431526	0.513286397474333
PA3136	PA3136	-1.444	-0.028	2.31600960415357e-08	0.936340497544531

PA3137	PA3137	-0.03	0.29	0.854153500871667	0.116273115183349
PA3138	uvrB	-0.49	-0.266	4.54384812891349e-08	0.0106422860958417
PA3139	PA3139	-1.804	0.314	3.56953674061204e-49	0.0322576599069746
PA3139.1	PA3139.1	-2.167	0.671	6.89082172067147e-32	0.000325574196635976
PA3140	PA3140	0.248	-0.261	0.0772009266472935	0.134158615807812
PA3141	wbpM	-0.116	0.163	0.30473466712935	0.248742173586532
PA3142	PA3142	-0.431	0.56	7.32532369801012e-09	6.39827041396813e-14
PA3143	PA3143	0.711	0.008	2.52007384243067e-13	0.958950387027266
PA3144	PA3144	-0.097	0.077	0.516578709861277	0.718295100504594
PA3145	wbpL	0.16	0.009	0.145589252004039	0.957828438223002
PA3146	wbpK	0.06	-0.078	0.706007177215232	0.729774423546728
PA3147	wbpJ	-0.129	-0.183	0.491881485471607	0.456357079803804
PA3148	wbpI	0.449	-0.311	0.0598452440372922	0.31727434686087
PA3149	wbpH	-0.498	-0.496	0.0261492470127122	0.0639703290157711
PA3150	wbpG	0.401	-0.386	0.0820157407289092	0.177191355385662
PA3151	hisF2	1.167	-0.077	2.57863490534827e-07	0.829710540879662
PA3152	hisH2	0.841	0.058	0.00307254618449946	0.899424604350261
PA3153	wzx	-0.207	-0.021	0.323787812859149	0.948620823295499
PA3154	wzy	-0.583	-0.167	0.0044487468903128	0.565281635514652
PA3155	wbpE	0.647	-0.182	5.66760171274063e-06	0.338058118150148
PA3156	wbpD	0.023	-0.225	0.863931928617571	0.159057499710848
PA3157	PA3157	-0.163	0.05	0.174971548304096	0.783998630898638
PA3158	wbpB	-0.429	-0.08	0.0196934376355677	0.776596887622979
PA3159	wbpA	-0.334	0.025	0.00509828938429776	0.89547432597274
PA3160	wzz	0.291	-0.109	0.110360519388601	0.683333107786437
PA3161	himD	0.569	-0.068	0.000463921270374407	0.787290543819526
PA3162	rpsA	-2.119	-0.086	4.98589391267668e-77	0.610820200690618
PA3163	cmk	-2.353	-0.669	3.76192974906909e-78	6.43371430740179e-07
PA3165	hisC2	-3.407	-0.778	8.5790428184785e-160	4.09561785335301e-09
PA3166	pheA	-0.855	0.002	9.74614999273986e-11	0.992819788091883
PA3167	serC	-1.082	-0.073	8.58933470378337e-18	0.702165291430598
PA3168	gyrA	-1.16	0.034	1.117111449086e-28	0.837367038744667
PA3169	PA3169	-0.759	0.001	1.81012113702535e-15	0.992819788091883
PA3170	PA3170	-0.493	0.188	3.6812876183507e-10	0.0451199708958195
PA3171	ubiG	-0.401	0.277	2.298468697047e-05	0.0106870018293837
PA3172	PA3172	-0.066	0.161	0.665462407133825	0.40815021740013
PA3173	PA3173	-0.653	0.119	6.44576672734192e-14	0.292264237080472
PA3174	PA3174	-1.831	0.307	7.26351268273643e-22	0.155650128997889
PA3175	PA3175	-1.11	0.535	1.37143485224809e-09	0.00413605443947056
PA3176	gltS	0.026	0.394	0.895151772193467	0.0727755843948343
PA3177	PA3177	1.295	0.495	1.22373320485152e-13	0.0168531814064495
PA3178	PA3178	-1.129	-0.139	2.50037513072327e-16	0.456560358474579
PA3179	PA3179	0.544	-0.065	5.03243301064729e-11	0.593189892778608
PA3180	PA3180	-0.358	-0.009	7.90359924665551e-07	0.938642603978266
PA3181	PA3181	0.658	-0.215	6.17794557999863e-06	0.267706951236875
PA3182	pgl	1.38	-0.086	4.747886724527e-15	0.761085175625457
PA3183	zwf	1.239	-0.511	1.66119268960119e-25	0.000156571756172841
PA3184	PA3184	-0.517	-0.3	1.58191104040821e-07	0.0080790150188209
PA3185	PA3185	0.195	0.461	0.0228049542810041	2.66751400892709e-07
PA3186	oprB	-0.28	0.228	0.0073064409553606	0.0686397431303238

PA3187	PA3187	1.135	0.04	4.36913308838832e-13	0.881587592507267
PA3188	PA3188	1.658	0.193	4.14515286779057e-10	0.662569483457921
PA3189	PA3189	0.157	0.47	0.321909049199472	0.00550794161658644
PA3190	PA3190	2.375	0.102	7.62436356397583e-52	0.696452443733654
PA3191	gtrS	1.661	-0.169	3.47782063943512e-30	0.439064887455799
PA3192	gltR	2.175	0.026	6.49197811459452e-39	0.927703648825879
PA3193	glk	0.821	0.247	7.23923522841484e-11	0.12181778567507
PA3194	edd	1.837	-0.491	1.26623356868849e-97	1.09251712267997e-06
PA3195	gapA	1.072	-1.485	4.40935795370029e-06	3.15558007060589e-09
PA3196	PA3196	-0.287	0.096	0.0238914141975432	0.589513082374795
PA3197	PA3197	-1.089	0.183	1.90438782990504e-39	0.0577643898110873
PA3198	PA3198	0.069	0.009	0.365352493163278	0.938642603978266
PA3199	PA3199	0.411	-0.12	4.6114089594207e-08	0.222488832874715
PA3200	PA3200	-0.179	0.203	0.0251039590686176	0.0274707463135406
PA3201	PA3201	-1.284	0.007	1.03545019746455e-35	0.966933133845744
PA3202	PA3202	-0.701	0.162	3.53929674999725e-20	0.0768809896993002
PA3203	PA3203	0.442	0.295	7.40455666942906e-06	0.0102347286818695
PA3204	PA3204	0.614	0.195	1.49274548147729e-06	0.243409784023121
PA3205	PA3205	1.295	-0.054	3.80225248920026e-37	0.742428101664845
PA3206	PA3206	-0.737	0.204	1.61775696388354e-11	0.11113656195522
PA3207	PA3207	-0.171	0.322	0.412896778407377	0.19702938759267
PA3208	PA3208	-0.813	0.325	1.02910130412343e-05	0.155327256260417
PA3209	PA3209	-1.422	0.042	1.11803993964824e-11	0.882078516551039
PA3210	trkH	-1.728	0.113	5.78761166480247e-67	0.336107536792741
PA3211	PA3211	-0.568	0.144	9.73049836588448e-12	0.173960291595627
PA3212	PA3212	-0.391	0.007	0.000271305294388219	0.969900478455718
PA3213	PA3213	-0.153	-0.164	0.010106369308168	0.016707643143366
PA3214	PA3214	0.195	0.057	0.182422464031369	0.795225195568823
PA3215	PA3215	0.204	0.14	0.0187742397954996	0.200922892013812
PA3216	PA3216	2.571	0.326	2.16280817097868e-126	0.017468551720498
PA3217	cyaB	-0.138	0.317	0.0783972977860952	0.000161385084713666
PA3218	PA3218	1.202	0.841	0.0015638011118435	0.0749095972511199
PA3219	PA3219	0.186	-0.01	0.420427681004721	0.979571034272843
PA3220	PA3220	-0.318	0.212	0.014119138194992	0.187946509312493
PA3221	csaA	0.984	0.568	0.0146119550812797	0.276187297438911
PA3222	PA3222	0.409	0.79	0.371357926336866	0.15132726442093
PA3223	azoR3	-1.329	-0.22	7.52047483415425e-11	0.378941654140601
PA3224	PA3224	0.012	-0.107	0.924586894514072	0.509291442254987
PA3225	PA3225	-0.478	-0.696	3.18239403201801e-09	5.69249788136894e-17
PA3226	PA3226	-0.346	-0.367	3.91261803083091e-06	5.44292219513736e-06
PA3227	ppiA	-0.053	-0.791	0.57082602098518	3.25023114187976e-18
PA3228	PA3228	-1.024	-0.663	9.49310539260134e-38	7.25737975836697e-16
PA3229	PA3229	0.505	-0.397	0.000176962463133703	0.0168531814064495
PA3230	PA3230	-0.388	0.091	1.68037954256007e-06	0.400806554423773
PA3231	PA3231	0.731	0.541	0.00836157056143439	0.112009549626584
PA3232	PA3232	0.017	0.206	0.891954209023179	0.152958380705661
PA3233	PA3233	1.704	0.111	7.07761577174157e-31	0.634365967356374
PA3234	PA3234	2.238	0.314	6.16861404070077e-47	0.115616043929992
PA3235	PA3235	1.91	0.508	8.72959401774524e-16	0.0868691857906432
PA3236	betX	2.175	0.102	2.52068509627877e-23	0.767881138960434

PA3237	PA3237	-2.544	-0.329	2.6674221261292e-24	0.169831204132529
PA3238	PA3238	-0.45	-0.43	6.52455083213635e-05	0.000620954835599991
PA3239	PA3239	-0.528	-0.233	2.48928448882369e-08	0.0385901094449326
PA3240	PA3240	0.985	0.204	1.68368491620685e-21	0.130878771193992
PA3241	PA3241	-0.339	0.142	0.00047345640482932	0.25195115568984
PA3242	PA3242	-1.407	0.356	4.72635103595354e-48	0.000254938391382444
PA3243	minC	-0.553	-0.177	1.04273010033235e-08	0.143436334041193
PA3244	minD	-1.175	-0.407	4.60021741171584e-41	2.39274734647084e-05
PA3245	minE	-1.447	-0.248	4.5848447127727e-51	0.0309530223420066
PA3246	rluA	-1.601	-0.234	3.81109186727862e-24	0.198218414517077
PA3247	PA3247	-0.302	0.179	4.22933592590972e-05	0.0393669643669739
PA3248	PA3248	0.549	-0.004	8.74658604933127e-11	0.974684575592469
PA3249	PA3249	0.428	0.245	0.0538036263323052	0.409144960552645
PA3250	PA3250	1.325	0.026	5.78385246173728e-20	0.912557498735196
PA3251	PA3251	0.597	-0.14	0.000344880943094663	0.560260916667116
PA3252	PA3252	0.325	-0.08	0.0140989398171917	0.68850000566178
PA3253	PA3253	0.227	0.163	0.173276951414599	0.46462295710473
PA3254	PA3254	0.34	0.079	0.00266401600248695	0.634358998176168
PA3255	PA3255	0.367	0.074	0.00155305224982519	0.666978625711572
PA3256	PA3256	0.331	-0.093	6.98261251483509e-05	0.414995312688723
PA3257	algO	0.368	-0.157	0.000170065390026235	0.209424583147761
PA3258	PA3258	0.138	0.154	0.283442841632704	0.349453689588497
PA3259	PA3259	1.014	0.692	4.54620192482775e-11	4.62693667868335e-05
PA3259.1	NA	0.629	0.097	9.74494786274832e-07	0.605100669561866
PA3260	PA3260	1.044	0.278	9.04971011345277e-12	0.154157491203412
PA3261	PA3261	0.024	0.381	0.792100761032534	2.35839443768036e-05
PA3262	PA3262	-1.062	-0.193	2.39193358984038e-30	0.0927774152099012
PA3262.1	PA3262.1	-1.513	0.505	1.16541372944011e-14	0.0293144924656762
PA3262.2	PA3262.2	-1.045	0.799	0.000133126223934084	0.0096531654317157
PA3263	PA3263	-0.614	0.382	1.08755632714439e-06	0.00599254481309806
PA3264	PA3264	0.355	0.148	0.0387946533634051	0.538978172610208
PA3265	PA3265	-0.993	0.342	1.64121200651863e-14	0.00876973891702058
PA3266	capB	-1.245	0.454	2.6492734851085e-17	0.0081563804688205
PA3267	PA3267	-1.469	0.572	6.35973228427109e-25	0.000333968090057974
PA3268	PA3268	-2.35	-1.077	3.87524369511184e-77	1.77110647749942e-18
PA3269	PA3269	0.628	0.188	8.49875830159873e-12	0.105254747238715
PA3270	PA3270	0.74	0.044	1.3906040287657e-20	0.718634760061832
PA3271	PA3271	0.086	0.347	0.480337397595967	0.00975430624488998
PA3272	PA3272	0.181	0.041	0.236393237992615	0.864710376193529
PA3273	PA3273	-0.346	-0.139	0.0278250425541909	0.517259377764906
PA3274	PA3274	1.068	-0.165	3.9379579977541e-06	0.636731774876287
PA3275	PA3275	0.801	1.06	2.08322415402778e-08	6.11241305326875e-13
PA3276	PA3276	-1.697	0.488	1.51768152017871e-31	0.00026460290647627
PA3277	PA3277	1.554	-0.111	8.4068731377809e-59	0.424863344613876
PA3278	PA3278	-0.533	0.495	0.065881345370191	0.160974434950608
PA3279	oprP	-0.532	-0.003	0.0680817167223823	0.994903039327877
PA3280	oprO	-0.552	-0.056	0.000727781623771733	0.823659076128342
PA3281	PA3281	0.332	0.072	0.00727514904996284	0.698008278811519
PA3282	PA3282	-0.099	-0.14	0.573109898459021	0.555673036778625
PA3283	PA3283	-0.848	-0.195	1.57316040112942e-15	0.132320997790405

PA3284	PA3284	-0.93	-0.326	1.1170444811696e-18	0.00587513792275476
PA3285	PA3285	-1.642	0.623	1.6054173087844e-37	6.26119478338769e-06
PA3286	PA3286	-2.23	0.192	9.13722534901441e-123	0.102313871620308
PA3287	PA3287	0.692	-0.105	2.71737222485237e-07	0.599555481774299
PA3288	PA3288	-0.547	0.099	1.81679336986407e-09	0.41396872262608
PA3289	PA3289	0.717	0.382	3.79436815336699e-12	0.00113296614252413
PA3290	tle1	-0.161	-0.649	0.364949116740056	0.000670959871250303
PA3291	tli1	-1.328	-1.266	2.93870401408907e-05	0.000327864170951462
PA3292	PA3292	-2.516	-1.018	9.86475119401604e-20	0.000928727281696696
PA3293	PA3293	-2.449	-0.998	3.7469121726582e-27	4.43314294069882e-05
PA3294	vgrG4a	-2.763	-0.982	3.02647537332804e-38	3.04819507259338e-05
PA3295	PA3295	-0.891	-0.271	1.91623233337002e-23	0.00859159769597422
PA3296	phoA	0.074	-0.28	0.675270236798303	0.202074285777702
PA3297	PA3297	-1.232	0.188	7.88680507049538e-33	0.143839636038654
PA3298	PA3298	-0.079	0.034	0.868283607693046	0.961521859860842
PA3299	fadD1	-0.187	-0.199	0.0427974079602066	0.0710026049243304
PA3300	fadD2	1.6	-0.354	3.57509976678772e-52	0.00443213078504861
PA3301	PA3301	-0.505	-0.025	2.91114831563812e-10	0.844001819262079
PA3302	PA3302	-0.044	-0.18	0.54128945375046	0.0261958286981304
PA3303	PA3303	-0.547	0.486	6.37240608900734e-05	0.00106462316999532
PA3304	PA3304	0.105	0.629	0.37602296759435	1.46475919457204e-07
PA3304.1	P18	0.124	0.23	0.452689892869286	0.262348830068468
PA3305	PA3305	-0.303	0.89	0.0115361890287916	1.90609933802647e-13
PA3305.1	phrS	7.046	0.298	2.42724533520521e-181	0.383265183420393
PA3306	PA3306	0.925	0.292	2.87136762263699e-19	0.0178370004798558
PA3307	PA3307	1.531	0.6	7.78036000313151e-17	0.00494538297334309
PA3308	hepA	-1.745	0.075	8.02712652109865e-65	0.600348278809534
PA3309	PA3309	3.202	0.664	3.28785453748684e-93	0.000158735692324083
PA3310	PA3310	-1.16	-0.159	1.09244500690304e-31	0.184296003811707
PA3311	nbdA	1.26	0.338	2.18068892066798e-40	0.00187884348685709
PA3312	PA3312	-0.585	0.19	0.000780123019435664	0.41015953895265
PA3313	PA3313	-0.605	-0.398	0.00147328748549075	0.0853721307953523
PA3314	PA3314	-1.234	0.147	1.24272393146426e-07	0.667288389968958
PA3315	PA3315	0.846	0.845	8.27836104833732e-09	6.1136207020255e-08
PA3316	PA3316	0.704	0.394	2.10506460826977e-08	0.00702592562190564
PA3317	PA3317	-0.713	-0.297	2.16694197682337e-13	0.00773449132332073
PA3318	PA3318	-0.997	-0.711	4.74488797747306e-20	1.85657837416799e-10
PA3319	plcN	0.052	0.065	0.70691231911192	0.74039211851942
PA3320	PA3320	0.862	0.942	0.000735271015346848	0.00087329388458644
PA3321	PA3321	0.776	-0.183	2.34334890924068e-08	0.347454756932382
PA3322	PA3322	-0.779	0.127	8.28121395225761e-19	0.246659316075736
PA3323	PA3323	3.165	-0.211	6.30713084750498e-133	0.292894188797871
PA3324	PA3324	3.278	-0.067	1.01493889558711e-210	0.718618886180309
PA3325	PA3325	2.197	-0.023	3.20891868203394e-58	0.923684341587075
PA3326	clpP2	-0.336	-0.219	7.05798835416464e-06	0.0119482360777953
PA3327	PA3327	-2.685	-0.252	4.44617225758556e-97	0.119786265745352
PA3328	PA3328	-2.624	-0.032	5.35475804386067e-61	0.900919698108037
PA3329	PA3329	-2.549	-0.05	4.14890528590831e-54	0.848933383829462
PA3330	PA3330	-2.352	-0.091	1.21251175367231e-40	0.732442654336847
PA3331	PA3331	-2.366	-0.259	1.23496451120157e-36	0.300589002661888

PA3332	PA3332	-2.334	-0.295	5.31141620348362e-25	0.331589169794789
PA3333	fabH2	-2.665	-0.262	1.74604635276423e-29	0.421537505506213
PA3334	PA3334	-2.541	-0.288	4.94252626527155e-35	0.29096469309846
PA3335	PA3335	-2.495	-0.324	2.36579128678077e-50	0.12326769480687
PA3336	PA3336	-2.462	-0.044	7.30041316244396e-30	0.900717117022956
PA3337	rfaD	3.504	0.052	7.19247981875545e-65	0.881587592507267
PA3338	PA3338	-0.078	0.399	0.650845127330597	0.0363619064111697
PA3339	plpD	-1.382	-0.127	2.39677104127303e-41	0.308896310373558
PA3340	PA3340	1.08	0.063	3.03374260373698e-36	0.624451642774834
PA3341	PA3341	0.038	1.031	0.718455756945772	3.17355207820353e-25
PA3342	PA3342	2.008	0.099	4.01834590357012e-133	0.395418573549175
PA3343	PA3343	1.372	0.35	5.16974636360682e-30	0.0145623718749572
PA3344	recQ	-1.505	0.109	2.60458733213735e-94	0.245730640321472
PA3345	hptB	0.497	0.458	8.2833757782029e-07	3.18810207350958e-05
PA3346	PA3346	1.127	0.174	2.16671948481992e-72	0.0211259628331879
PA3347	PA3347	0.597	0.043	8.63908932513982e-09	0.790945140803804
PA3348	PA3348	0.575	-0.063	2.04162302009359e-11	0.618988731714465
PA3349	PA3349	1.012	-0.143	1.10986946151986e-19	0.340097247805035
PA3350	PA3350	0.265	0.345	0.073266393658599	0.0456528336486604
PA3351	flgM	1.043	0.236	1.94489082438933e-21	0.0830442754001601
PA3352	PA3352	0.622	0.208	1.30383905267422e-12	0.0508781452686127
PA3353	PA3353	0.322	-0.011	0.000494034031962996	0.941415133114659
PA3354	PA3354	0.856	0.182	2.65345762627746e-17	0.161521363161562
PA3355	PA3355	0.516	0.098	1.39476034528623e-08	0.436271316809889
PA3356	pauA5	0.018	-0.351	0.914331107312729	0.0507852108073124
PA3357	dsdA	-1.154	-0.25	7.14921629113595e-27	0.0496409811795432
PA3358	PA3358	-1.47	-0.029	6.7301218204501e-20	0.900919698108037
PA3359	PA3359	0.088	0.677	0.69079617970384	0.0030590133307844
PA3360	PA3360	-0.597	0.587	7.45562156222051e-06	3.77213055726578e-06
PA3361	lecB	0.38	-1.86	0.0408568689108317	6.12581744663749e-24
PA3362	PA3362	0.833	0.449	3.22738341670294e-11	0.00211740145642316
PA3363	amiR	0.664	-0.238	5.63383054837692e-09	0.109117187691406
PA3364	amiC	0.444	-0.09	2.6205614179496e-06	0.510344297768625
PA3365	PA3365	1.26	0.21	1.0507211024868e-27	0.182758807657125
PA3366	amiE	0.639	0.224	2.99101515502055e-09	0.0961367266110589
PA3366.1	amiL	-0.94	-0.005	4.17323642423362e-05	0.990030115598355
PA3367	PA3367	-0.768	-0.349	1.46392472159204e-06	0.0683276222122569
PA3368	PA3368	0.283	0.104	0.125728871327183	0.703597684796799
PA3368.1	PA3368.1	-0.791	0.347	0.000924737954804007	0.212358994098697
PA3369	PA3369	-2.455	0.416	9.78851102732285e-26	0.157286736551899
PA3370	PA3370	-2.717	0.494	1.70338694051302e-29	0.0884472743983007
PA3371	PA3371	-2.876	0.541	3.28309042957145e-33	0.0517694120450455
PA3372	PA3372	0.271	0.026	0.0235980712984167	0.890099736075451
PA3373	PA3373	-0.127	0.118	0.433230885068214	0.597732212382261
PA3374	PA3374	0.172	0.302	0.335346430602529	0.161542255466178
PA3375	PA3375	0.274	0.062	0.202752711144787	0.853451468544547
PA3376	PA3376	0.374	0.181	0.194490099879772	0.66407201719768
PA3377	PA3377	0.012	-0.16	0.953680126258317	0.561087796123156
PA3378	PA3378	-0.079	-0.583	0.761549402657745	0.051899808592997
PA3379	PA3379	0.138	0.017	0.629901598536927	0.969515472348422

PA3380	PA3380	-0.389	0.163	0.35927133001406	0.7838757206664
PA3381	PA3381	-0.273	-0.028	0.37184582123817	0.950851523888874
PA3382	phnE	0.143	-0.012	0.563202118355742	0.976040904443242
PA3383	PA3383	0.695	0.175	0.00106340950168354	0.577194008110567
PA3384	phnC	-0.095	0.057	0.60466996478642	0.833034485785261
PA3385	amrZ	0.149	0.068	0.360068057715831	0.780198212149418
PA3386	PA3386	0.311	0.377	0.0250440535416039	0.0182337550788106
PA3387	rhlG	0.552	0.442	4.49365309804015e-05	0.00443402687839851
PA3388	PA3388	-0.882	0.306	2.95015807275205e-09	0.0526514436523426
PA3389	PA3389	1.488	0.123	1.79014850446783e-14	0.707936804653159
PA3390	PA3390	2.69	-0.003	7.06085332983088e-24	0.99583694424202
PA3391	nosR	0.054	0.24	0.792315438368898	0.333110539897513
PA3392	nosZ	1.121	0.227	7.18690565012821e-13	0.311680201940126
PA3393	nosD	0.301	0.408	0.11205031303343	0.0653525128946909
PA3394	nosF	1.322	0.851	0.00532936387008606	0.161919101470403
PA3395	nosY	0.214	0.292	0.626016353688763	0.62358082045799
PA3396	nosL	0.15	0.419	0.723632388086924	0.423335986031982
PA3397	fprA	-5.492	-0.36		0.958813931587996e-05
PA3398	PA3398	-0.881	-0.446	1.45650926061676e-21	5.73842078556724e-06
PA3399	PA3399	0.892	-0.048	3.77277641689584e-16	0.784958134271281
PA3400	PA3400	-0.204	-0.157	0.0708920644829588	0.27607928482745
PA3401	PA3401	-0.506	0.015	3.94719790635769e-05	0.938642603978266
PA3402	PA3402	-0.763	-0.045	5.94714826695384e-19	0.721311753336019
PA3403	PA3403	-1.922	0.176	6.02643681479506e-45	0.218503016052184
PA3404	PA3404	-4.492	-1.298	5.13967129517325e-106	2.1342991072065e-12
PA3405	hasE	-5.74	-1.53	1.49097195256443e-143	1.25795464463859e-20
PA3406	hasD	-6.549	-1.686	4.99257354875325e-197	6.1149859099691e-25
PA3407	hasAp	-9.519	-1.95		0.442092976315072e-41
PA3408	hasR	-6.595	-1.784		0.216511206167411e-26
PA3409	hasS	-4.758	-0.58	3.94065835730921e-136	0.00230886534270722
PA3410	hasI	-7.1	-0.841	7.64415111450131e-187	1.16012375970894e-08
PA3411	PA3411	-2.127	-0.461	3.42285043697846e-11	0.143756057599814
PA3412	PA3412	-1.479	-0.208	4.42486467670041e-32	0.137996452487222
PA3413	PA3413	0.027	-0.325	0.804901152856003	0.00665226474174736
PA3414	PA3414	0.214	-0.146	0.0647411010412805	0.338525887496184
PA3415	PA3415	3.695	0.599	5.21339529869239e-137	0.000406860199979254
PA3416	PA3416	3.532	0.369	2.15651008244233e-131	0.0372898084145824
PA3417	PA3417	3.521	0.504	8.19389817489789e-87	0.0184102517474491
PA3418	ldh	2.134	0.316	3.35265344059816e-59	0.0495071142797533
PA3419	PA3419	0.47	-0.156	7.40112916564965e-05	0.325200621873055
PA3420	PA3420	3.582	0.495	1.15529945626507e-132	0.00856094408545065
PA3421	PA3421	1.288	-0.004	3.38716595579511e-21	0.988788363440197
PA3422	PA3422	0.258	0.034	0.0305017290918785	0.85973758397357
PA3423	PA3423	-0.406	0.148	3.53368009330093e-05	0.226505983975014
PA3424	PA3424	1.435	0.392	5.40642508363429e-14	0.112054791024087
PA3425	PA3425	2.437	0.539	6.00818549408786e-32	0.0490812484784812
PA3426	PA3426	0.636	0.257	6.68751184670793e-05	0.208027963585345
PA3427	PA3427	1.961	-0.146	4.30859805425473e-103	0.237562651320115
PA3428	PA3428	2.789	0.218	1.20626681391307e-52	0.456542120251136
PA3429	PA3429	4.112	0.217	7.49269852487102e-259	0.269043088023082

PA3430	PA3430	3.755	-0.201		0	0.13668892892543	
PA3431	PA3431	-3.341	-0.204	2.46828357413833e-50		0.462289990886824	
PA3432	PA3432	-3.472	-0.409	9.11347983777095e-56		0.067148572990699	
PA3433	PA3433	0.437	-0.016	4.75732462357859e-05		0.92899162158052	
PA3434	PA3434	0.286	0.907	4.21276196327967e-06		4.72611725170825e-50	
PA3435	PA3435	-1.179	-0.094	6.39524221810801e-32		0.480235116515555	
PA3436	PA3436	0.561	0.539	0.0262720475823841		0.0749095972511199	
PA3437	folM	-1.014	0.049	9.51983671379538e-29		0.715573728124408	
PA3438	folE1	-1.253	-0.346	2.30141932707087e-34		0.00282001529313767	
PA3439	folX	-0.142	-0.304	0.106881970207376		0.00176474838242421	
PA3440	PA3440	-1.095	-0.313	5.09713327756125e-27		0.00743550193708536	
PA3440.1	NA	-0.918	-0.257	1.9793805900133e-18		0.0391938341433717	
PA3441	PA3441	-5.803	-5.786		0		0
PA3442	PA3442	-3.862	-4.189	6.28876515433523e-95		2.84373036242364e-105	
PA3443	PA3443	-5.164	-4.874	1.9368444933405e-123		3.86223210388271e-120	
PA3444	PA3444	-5.248	-4.88	1.26697336179092e-261		1.37293516680384e-256	
PA3445	PA3445	-4.436	-5.421	1.59721011625886e-162		4.35922845206756e-199	
PA3446	PA3446	-3.885	-4.167	1.91544006044025e-114		4.43313785480746e-127	
PA3447	PA3447	-5.119	-5.445	1.38497714530028e-121		1.52859137915815e-117	
PA3448	PA3448	-4.063	-4.286	6.32601100088774e-137		1.10919903974871e-142	
PA3449	PA3449	-6.023	-5.427	6.02513400297935e-179		2.13925076497768e-192	
PA3450	PA3450	-6.065	-5.809	6.02182219838459e-176		1.6869182867488e-162	
PA3451	PA3451	1.159	0.209	4.99447501289149e-16		0.267706951236875	
PA3452	mqaA	-2.453	-1.337	1.0616031952013e-102		6.89268924691228e-31	
PA3453	PA3453	-1.342	-0.309	7.4283982736866e-19		0.088061497849316	
PA3454	PA3454	0.928	-0.119	5.27859197292747e-17		0.451039184245449	
PA3455	PA3455	0.191	-0.208	0.0586867228159085		0.0887380489354697	
PA3456	PA3456	0.113	0.396	0.471496684582733		0.024017888536059	
PA3457	PA3457	-0.393	0.85	0.0123095755782975		4.27395939594747e-08	
PA3458	PA3458	0.399	0.042	0.00691579641190623		0.860367011446642	
PA3459	PA3459	1.302	-0.159	1.85184125777945e-14		0.509259486504221	
PA3460	PA3460	1.244	-0.122	6.08737303505562e-13		0.634358998176168	
PA3461	PA3461	1.211	-0.116	1.03116327748428e-14		0.616737385644639	
PA3462	PA3462	0.341	0.322	1.1899160249456e-05		0.000182232718043515	
PA3463	PA3463	0.744	0.188	8.43768732155534e-12		0.186797374362771	
PA3464	PA3464	0.062	-0.088	0.648931247731138		0.644837868070098	
PA3465	PA3465	1.78	0.343	8.40705070124323e-61		0.00715951447695506	
PA3466	PA3466	-1.333	0.016	3.24550974043439e-40		0.918176224209309	
PA3467	PA3467	1.768	0.608	1.41155384526454e-21		0.00854766554296537	
PA3468	PA3468	-1.597	-0.007	1.13741679009623e-75		0.956892435147525	
PA3469	PA3469	-0.668	0.02	4.61787294663845e-14		0.879328753877621	
PA3470	PA3470	-0.22	0.008	0.075243443866214		0.965528591886148	
PA3471	PA3471	-0.614	-0.246	3.52544028947138e-09		0.04944122863061	
PA3472	PA3472	-0.991	-0.623	5.05075158751719e-09		0.00103879569772558	
PA3473	PA3473	0.682	0.195	8.20045311105707e-08		0.251780807540418	
PA3474	PA3474	0.822	0.119	5.94545116395286e-13		0.47103131745687	
PA3475	pheC	1.059	0.057	3.88627955919988e-73		0.506821661252015	
PA3476	rhII	-0.595	-0.125	2.80679840080621e-08		0.390232389169057	
PA3477	rhIR	-1.976	-0.587	5.62910052409806e-55		2.70584525439016e-05	
PA3478	rhIB	-5.17	-0.915	3.05227696110231e-299		6.97764899404928e-10	

PA3479	rhIA	-4.98	-1.025	1.69625423561558e-253	3.63273216625292e-11
PA3480	PA3480	-1.063	-0.097	3.01236719901996e-38	0.380627891194572
PA3481	PA3481	-0.55	-0.166	5.32180405548806e-13	0.0744425062594514
PA3482	metG	-1.425	-0.032	9.00414148960965e-66	0.809921222202466
PA3483	PA3483	-1.404	0.026	3.64995380067017e-36	0.881587592507267
PA3484	tse3	-1.339	-0.562	1.24691370261469e-20	0.00041247784839118
PA3485	tsi3	-1.031	-0.398	1.50708790998817e-13	0.0117651350727331
PA3486	vgrG4b	-2.657	-0.992	1.58746012730213e-36	1.7832628271641e-05
PA3487	tle5	-1.829	-1.122	1.53665187704121e-15	7.21895544728995e-06
PA3488	tli5	-1.674	-1.314	2.23177448865719e-10	4.30501875317894e-06
PA3489	PA3489	-0.102	0.118	0.387958911691494	0.439307189178585
PA3490	PA3490	0.548	-0.105	0.00112432567687039	0.686588579946601
PA3491	PA3491	0.964	-0.027	2.17455353153982e-12	0.904506675483058
PA3492	PA3492	0.945	-0.107	5.14685724489909e-08	0.697411020965888
PA3493	PA3493	0.773	-0.063	0.000120360264313998	0.848295330469232
PA3494	PA3494	0.486	-0.058	0.00479899776341827	0.833996415374348
PA3495	nth	0.806	-0.418	1.61576632383574e-06	0.0490812484784812
PA3496	PA3496	-0.479	-0.406	0.0182512174202987	0.0994221365381038
PA3497	PA3497	0.149	0.294	0.353170618949452	0.116948838920919
PA3498	PA3498	0.938	0.32	8.85159409651056e-18	0.015360224063232
PA3499	PA3499	1.828	0.002	3.68788549384002e-14	0.995919413653092
PA3500	PA3500	1.786	0.029	7.6683606910457e-21	0.929999687331549
PA3501	PA3501	1.965	-0.278	2.23462364541706e-11	0.564824742339298
PA3502	PA3502	1.253	-0.004	4.82688076752708e-07	0.993300592412008
PA3503	PA3503	2.157	-0.168	5.00875689288508e-24	0.639985397063355
PA3504	PA3504	1.072	0.083	6.51977335147873e-14	0.714809063444948
PA3505	PA3505	0.983	0.178	6.93701853733854e-06	0.589377391101594
PA3506	PA3506	1.334	-0.297	2.16009388700249e-11	0.289394287673564
PA3507	PA3507	1.116	-0.132	2.54724076407998e-05	0.759523795530396
PA3508	PA3508	1.396	0.058	2.06605758156782e-15	0.847990913775284
PA3509	PA3509	1.084	-0.102	6.09276899897455e-08	0.761442735514413
PA3510	PA3510	1.462	-0.554	1.89927992629782e-14	0.0349251918006213
PA3511	PA3511	1.603	0.037	1.29216600389361e-10	0.935424388558838
PA3512	PA3512	1.595	-0.01	2.50820475606589e-21	0.973632441230181
PA3513	PA3513	1.378	-0.2	3.28765258813425e-11	0.533510552604491
PA3514	PA3514	1.232	0.327	1.4354008378721e-17	0.0847178438245995
PA3515	PA3515	0.949	0.091	1.49978805031919e-19	0.559712035541386
PA3516	PA3516	1.044	-0.153	3.23625763288285e-13	0.486326468489245
PA3517	PA3517	0.647	0.368	0.000133659852938502	0.0808286579974724
PA3518	PA3518	1.863	-0.001	3.82749169619814e-10	0.997826160083582
PA3519	PA3519	0.046	-0.474	0.821581928114838	0.0456528336486604
PA3520	PA3520	-0.297	-1.231	0.129194475689713	1.11017079674194e-09
PA3521	PA3521	0.004	0.301	0.982362686894764	0.196718086915592
PA3522	PA3522	-0.787	0.356	1.29462820494764e-11	0.00347540772290886
PA3523	PA3523	-0.028	0.048	0.924172080755994	0.911302755469389
PA3524	gloA1	0.749	0.071	7.70497319406035e-13	0.649059877049824
PA3525	argG	-0.03	0.037	0.789162952769647	0.822852561343249
PA3526	motY	1.284	0.509	6.63456129292861e-22	0.000783659011700835
PA3527	pyrC	-0.855	0.134	7.46339494861239e-24	0.215722497216021
PA3528	rnt	-0.343	0.111	2.01281419255027e-05	0.29138027586801

PA3529	PA3529	-0.134	0.191	0.108688927726612	0.0511687860925015
PA3530	bfd	-6.941	0.407		0 0.00102678542123619
PA3531	bfrB	6.241	0.053		0 0.777152399337511
PA3532	PA3532	0.671	0.339	7.21604475452472e-07	0.0395861278837147
PA3533	grxD	0.497	0.313	3.95276743559842e-06	0.012552548859436
PA3534	PA3534	1.677	-0.185	1.55358391668173e-76	0.128610930175613
PA3535	PA3535	2.384	-0.004	3.77996207520966e-37	0.990893211919859
PA3536	PA3536	-0.362	0.353	0.0256229238861956	0.0669504566070717
PA3537	argF	-0.769	-0.165	5.41283863078796e-14	0.199900785499309
PA3538	PA3538	-0.442	-0.126	1.4035479408169e-08	0.20621388685103
PA3539	PA3539	-0.751	0.077	5.16580126337498e-08	0.705005121336101
PA3540	algD	-0.3	0.017	0.0879434133978848	0.948960960931959
PA3541	alg8	0.192	-0.015	0.287722440153638	0.956892435147525
PA3542	alg44	-0.189	0.187	0.332254472967142	0.447343090685876
PA3543	algK	0.55	0.218	0.0548904199699809	0.60254392051347
PA3544	algE	0.649	0.057	0.000434532547216972	0.850953094997023
PA3545	algG	0.292	-0.258	0.111609273458912	0.302236430070586
PA3546	algX	0.845	0.117	1.03735587949141e-07	0.635321372642805
PA3547	algL	0.472	0.076	0.0521982927491332	0.846151134612416
PA3548	algI	0.289	0.504	0.0837955144083218	0.0061537962850328
PA3549	algJ	1.022	-0.009	5.18971734059638e-07	0.982278593283696
PA3550	algF	1.505	-0.017	4.75385930617999e-17	0.95736115349635
PA3551	algA	0.831	-0.097	3.68131454100991e-09	0.648018334234306
PA3552	arnB	1.111	-0.022	4.23006198381587e-11	0.938642603978266
PA3553	arnC	1.484	-0.225	2.34509916887511e-16	0.401025286597236
PA3554	arnA	1.606	-0.29	5.52703394420366e-29	0.130827749063896
PA3555	arnD	1.107	-0.349	1.61349124999538e-05	0.33896641867837
PA3556	arnT	1.038	-0.26	6.20010143654173e-10	0.270631977267595
PA3557	arnE	1.186	-0.655	0.000128323264317809	0.166447417711189
PA3558	arnF	1.453	-0.445	6.11985286448387e-06	0.367953390118694
PA3559	PA3559	1.83	-0.562	1.14037324037371e-33	0.00272652913431108
PA3560	fruA	1.976	0.063	6.14400549468136e-58	0.756369381011392
PA3561	fruK	1.676	0.084	8.01842200940946e-29	0.734328016932492
PA3562	fruI	1.122	-0.032	1.18783055425815e-23	0.867408862012556
PA3563	fruR	-0.685	0.054	1.762004185232e-13	0.693783053514807
PA3564	PA3564	-0.36	0.131	0.0167947584442945	0.520491638959178
PA3565	PA3565	2.292	0.002	8.18208727511284e-50	0.995191939197909
PA3566	PA3566	-0.17	-0.105	0.343618100724337	0.683333107786437
PA3567	PA3567	0.035	-0.162	0.731948167759423	0.182329295414438
PA3568	PA3568	6.808	-0.44		0 0.00514806163294303
PA3569	mmsB	9.148	-0.315		0 0.14747067343228
PA3570	mmsA	8.719	-0.373		0 0.104663494546956
PA3571	mmsR	0.709	0.088	7.78786538864833e-11	0.590374648519807
PA3572	PA3572	1.594	0.131	4.78822516446411e-32	0.498560245833611
PA3573	PA3573	-1.076	0.424	5.24524688726822e-15	0.0032818181767558
PA3574	nalD	0.223	0.031	0.062897587656919	0.870529449395473
PA3574.1	NA	1.062	-0.14	1.35380813703424e-18	0.43503705331025
PA3575	PA3575	2.108	-0.314	8.0500292723008e-25	0.29315049811349
PA3576	PA3576	1.285	0.252	4.01128132705005e-22	0.137052958714956
PA3577	PA3577	0.319	0.023	0.00445831674028517	0.900919698108037

PA3578	PA3578	-0.13	0.013	0.305857441743695	0.948960960931959
PA3579	PA3579	-0.776	-0.043	2.34198280933825e-06	0.87057639478587
PA3580	PA3580	-0.57	-0.314	0.000439285152012085	0.110807496386307
PA3581	glpF	0.122	-1.538	0.544351293779984	3.31192717359777e-13
PA3582	glpK	1.719	-0.496	7.46834327280912e-59	5.44347393081375e-05
PA3583	glpR	-0.825	-0.245	2.61806142025499e-12	0.0831548083173734
PA3584	glpD	-0.566	-1.289	0.00728057913288319	6.12615482056411e-09
PA3585	glpM	-1.948	0.462	2.79948574319666e-34	0.00146664000071748
PA3586	PA3586	-0.395	0.268	0.0110861055734892	0.131149028961592
PA3587	metR	0.679	0.063	4.11635282147431e-09	0.720249861840292
PA3588	PA3588	0.669	0.258	7.49089511965907e-07	0.137176608878419
PA3589	PA3589	0.658	0.353	0.000774166259664315	0.160974434950608
PA3590	PA3590	-0.187	0.33	0.155358020286803	0.0223542934770444
PA3591	PA3591	-0.138	0.029	0.658764979230253	0.95059037410768
PA3592	PA3592	0.084	0.099	0.671576869346107	0.724401906755197
PA3593	PA3593	-0.174	-0.078	0.207655222664122	0.696099252361194
PA3594	PA3594	0.089	0.001	0.521870676059782	0.99583694424202
PA3595	PA3595	0.114	0.484	0.384935069293587	0.000349706642596036
PA3596	PA3596	0.491	0.068	0.00920487943140415	0.81947266522982
PA3597	PA3597	1.865	0.364	9.6839666997006e-36	0.0750397429695132
PA3598	PA3598	0.8	-0.159	1.13766224011873e-09	0.400857649639312
PA3599	PA3599	-0.253	0.023	0.000306999038425732	0.830968200446284
PA3600	PA3600	1.872	-0.269	5.4087172938605e-37	0.179686523599409
PA3601	PA3601	2.222	-0.273	3.12055956210777e-31	0.292264237080472
PA3602	PA3602	0.848	0.341	1.37129990260097e-18	0.00213510866273154
PA3603	dgkA	-1.489	0.162	2.08944426824368e-26	0.346963894488591
PA3604	erdR	-0.451	-0.264	3.59948589394745e-08	0.00471693636494506
PA3605	PA3605	-1.796	0.043	1.63434778780902e-30	0.848295330469232
PA3606	PA3606	-0.697	0.367	9.539511968779e-14	0.00017168164893659
PA3607	potA	-1.329	-0.495	5.46250964667524e-08	0.0709262341354203
PA3608	potB	-0.665	0.09	0.00756441959075158	0.796901775468318
PA3609	potC	-0.869	0.308	0.00135785641022632	0.310099196469838
PA3610	potD	-0.106	-0.083	0.648854549848751	0.809643577148241
PA3611	PA3611	0.054	0.071	0.719608808299513	0.739775864956638
PA3612	PA3612	0.076	0.163	0.498751808903734	0.23600533296071
PA3613	PA3613	1.896	-0.024	1.40529830070022e-50	0.911166059833814
PA3614	PA3614	1.024	-0.331	7.37109150091964e-22	0.00814366002874197
PA3615	PA3615	1.142	-0.161	2.38559775747883e-73	0.0379735896452248
PA3616	PA3616	-0.309	-0.042	0.0632742752191559	0.872958382959784
PA3617	recA	0.809	-0.248	6.75599645537773e-09	0.161919101470403
PA3618	PA3618	-0.522	0.093	5.90759797363514e-08	0.477219367383506
PA3619	PA3619	-0.56	-0.334	9.88761805377542e-07	0.0110171235211704
PA3620	mutS	-1.667	0.217	8.43055660707238e-58	0.0832448656764901
PA3621	fdxA	-0.26	0.069	0.208534083512046	0.826504172966735
PA3621.1	rsmZ	1.869	0.226	6.1368920708636e-06	0.716153173868006
PA3622	rpoS	1.546	-0.468	2.48788318387407e-41	0.00029250253382647
PA3623	PA3623	1.331	0.172	4.84554763850892e-40	0.184212564646164
PA3624	pcm	-0.879	-0.109	5.23964730970058e-27	0.315255708625662
PA3625	surE	-1.643	-0.045	3.99388991820145e-135	0.630952763926648
PA3626	PA3626	-0.482	0.045	4.02026773838338e-10	0.69373425333744

PA3627	ygbB	-0.346	0.119	0.00142545387792814	0.413432117314071
PA3628	PA3628	-0.822	-0.272	1.34100800554413e-25	0.00228511077241939
PA3629	adhC	-0.174	-0.203	0.0350859854724836	0.035363826220549
PA3630	PA3630	0.788	-0.108	2.92345689721159e-18	0.413197135209058
PA3631	PA3631	0.099	0.135	0.275557044870957	0.227113924046976
PA3632	PA3632	0.587	-0.008	8.96493371919432e-07	0.967450604109678
PA3633	ygbP	-0.56	-0.094	6.68333846934027e-06	0.594153989869664
PA3634	PA3634	-0.054	0.129	0.60355066059261	0.325200621873055
PA3635	eno	0.23	0.055	0.0549417733400768	0.761316787725311
PA3636	kdsA	-0.912	0.028	5.12576777338118e-19	0.867408862012556
PA3637	pyrG	-0.565	0.113	7.53920006435756e-10	0.361147158566008
PA3638	PA3638	-0.432	0.771	0.000497270126361082	1.30736041972014e-09
PA3639	accA	-2.086	0.425	1.04981978007767e-162	2.24528679719531e-07
PA3640	dnaE	-1.476	-0.112	2.51560791471794e-75	0.294406474313388
PA3641	PA3641	-2.933	-0.918	6.11539191381394e-263	1.08757613559109e-31
PA3642	rnhB	-0.767	0.624	6.6576522452166e-07	0.000164221559735509
PA3643	lpxB	-1.11	0.612	3.41322337106376e-44	4.80265260530693e-15
PA3644	lpxA	-1.547	0.332	4.29938360223062e-116	3.95582558053863e-06
PA3645	fabZ	-2.24	0.292	3.45019410549334e-76	0.0433227791049005
PA3646	lpxD	-1.084	0.081	2.25322913400368e-50	0.4112459665503
PA3647	PA3647	-1.325	-0.026	1.89939185257716e-33	0.880721658840593
PA3648	opr86	-1.042	0.012	8.64049571986133e-34	0.931210826486601
PA3649	mucP	-0.791	0.099	7.78501545940206e-15	0.486288694198607
PA3650	dxr	-0.565	0.177	1.82143351026919e-05	0.307575011645862
PA3651	cdsA	-1.474	0.221	4.91640251653599e-28	0.180640257403052
PA3652	uppS	-0.792	-0.065	1.30625055493471e-10	0.72604705782603
PA3653	frr	-0.187	-0.124	0.256300999387453	0.587824952517047
PA3654	pyrH	-0.671	-0.042	0.000229798811247522	0.885016438651702
PA3655	tsf	-1.776	-0.255	1.59261347163139e-34	0.167697405678942
PA3656	rpsB	-2.16	-0.32	3.79711205586096e-80	0.0180797267826471
PA3657	map	-0.15	-0.309	0.0411053512582364	0.000105839204382313
PA3658	glnD	0.292	-0.396	0.00616876572970849	0.000984063425495908
PA3659	PA3659	-0.058	-0.297	0.647878882532886	0.040082578589084
PA3660	PA3660	-0.799	-0.448	5.90240646939017e-14	0.000129030439125371
PA3661	PA3661	-3.035	-1.41	1.15644016395021e-22	1.59816129968514e-05
PA3662	PA3662	-1.704	-0.12	3.8044170027193e-16	0.704657742724337
PA3663	PA3663	-0.255	0.015	0.0360645182637708	0.938642603978266
PA3664	PA3664	-0.782	0.239	9.77940872259447e-21	0.0112905034894731
PA3665	PA3665	-1.465	0.245	9.67313529812318e-36	0.0758793769987017
PA3666	dapD	-1.529	-0.179	1.77976159687095e-43	0.2064294016856
PA3667	PA3667	0.427	0.361	0.000266309324848351	0.00723393737636033
PA3668	PA3668	1.481	0.764	3.75679435400552e-31	3.33695083285884e-08
PA3669	PA3669	0.395	0.334	0.000785339563852979	0.014265206872178
PA3670	PA3670	-0.022	-0.274	0.890296468291493	0.143756057599814
PA3671	PA3671	-0.067	-0.582	0.780703730133143	0.0331176608971758
PA3672	PA3672	-0.355	-0.302	0.023714337376903	0.113642515370287
PA3673	plsB	-0.847	-0.285	6.20120442452691e-31	0.000455751775629626
PA3674	PA3674	1.303	-0.048	8.15547582175675e-48	0.731011539483264
PA3675	PA3675	-1.063	0.022	1.26677502111369e-25	0.887842311322016
PA3676	mexK	0.517	0.268	1.32640351601051e-08	0.0123246405170335

PA3677	mexJ	1.006	-0.228	1.75778690880093e-16	0.186630484703943
PA3678	mexL	-0.85	-0.13	2.69700338016327e-17	0.312410774006605
PA3679	PA3679	-1.28	0.004	2.61588711633617e-25	0.98434178340702
PA3680	PA3680	-1.435	0.321	9.05762614993243e-20	0.0836959149556351
PA3681	PA3681	0.301	0.512	0.00327640730819729	2.23889218856157e-06
PA3682	PA3682	0.366	0.095	0.0114843432203126	0.654453362119399
PA3683	PA3683	-0.102	-0.076	0.511048285082205	0.730606373452156
PA3684	PA3684	0.393	0.659	0.0590701583439351	0.00476495677850923
PA3685	PA3685	-1.01	0.562	1.69414009407774e-10	0.0010302170595723
PA3686	adk	-0.208	-0.162	0.0832108422505035	0.295471170112306
PA3687	ppc	0.954	-0.25	1.40389266464849e-35	0.00540736425276147
PA3688	PA3688	3.281	0.313	8.30804232933478e-177	0.0270216140870724
PA3689	PA3689	0.27	0.045	0.0957097031801885	0.860675744072844
PA3690	PA3690	-1.101	-0.371	2.61528372883989e-35	0.00014940003764784
PA3691	PA3691	0.144	-0.322	0.554224809526885	0.29146034120484
PA3692	lptF	0.267	-0.343	0.244179689526753	0.230149096495813
PA3693	PA3693	-0.016	0.384	0.883222601567076	0.000338770545433168
PA3694	PA3694	0.226	0.302	0.0371212177094872	0.0144918679101616
PA3695	PA3695	0.109	0.137	0.290008235164581	0.293382596472561
PA3696	PA3696	0.649	-0.005	1.77528615716221e-11	0.974684575592469
PA3697	PA3697	0.334	-0.107	3.24513900270916e-05	0.317686326823336
PA3698	PA3698	-0.112	-0.028	0.241596781068737	0.846734441170604
PA3699	PA3699	-0.255	-0.13	0.041412599594667	0.438270931726689
PA3700	lysS	-1.069	-0.238	7.94396997063023e-12	0.241405174911771
PA3702	wspR	0.633	0.1	8.37212979091626e-13	0.411225314613048
PA3703	wspF	0.194	0.004	0.0159519386339976	0.974522942174017
PA3704	wspE	-0.286	0.017	0.00495966192262268	0.91582091391408
PA3705	wspD	-0.391	-0.004	4.52916391048296e-06	0.974684575592469
PA3706	wspC	-0.362	0.028	1.23413448135127e-07	0.793432393079988
PA3707	wspB	-0.337	-0.068	0.000129603635562478	0.591730012204047
PA3708	wspA	-0.299	-0.087	0.000312669169678424	0.439307189178585
PA3709	PA3709	9.289	0.259		0.326709896748192
PA3710	PA3710	6.813	0.184	8.58569950898472e-280	0.510344297768625
PA3711	PA3711	0.49	-0.087	0.00225670262163419	0.721278454926608
PA3712	PA3712	1.204	-0.384	1.73481958604397e-15	0.0354957196373954
PA3713	spdH	0.743	0.217	1.64051258994649e-13	0.085745245611187
PA3714	PA3714	0.218	0.262	0.0855951183988077	0.0830465537324103
PA3715	PA3715	0.186	-0.248	0.00775329405966211	0.00178729498017909
PA3716	PA3716	-0.566	-0.201	5.4062397496786e-08	0.118991422901192
PA3717	PA3717	0.154	-0.06	0.216103707352244	0.747501986046928
PA3718	PA3718	-0.278	0.326	0.120759287018724	0.10840733110856
PA3719	armR	-0.356	0.228	0.0977586291822439	0.391058709179234
PA3720	PA3720	-0.438	0.036	0.00569150063014126	0.882162918978037
PA3721	nalC	0.758	-0.143	6.41464947738566e-07	0.518982646403539
PA3722	PA3722	-1.405	-0.256	1.71794726145711e-30	0.0891737570921405
PA3723	PA3723	2.851	-0.033		0.782139094070424
PA3724	lasB	2.921	-1.464	3.53695510042695e-155	5.90528425338212e-39
PA3725	recJ	-0.969	0.125	1.45130110997821e-18	0.39376511422734
PA3726	PA3726	-1.698	0.036	1.67438331366944e-28	0.87375719630866
PA3727	PA3727	-1.005	-0.61	1.44680130675269e-08	0.00230948420835018

PA3728	PA3728	-1.349	-0.63	7.80417920805993e-13	0.00354350814870174
PA3729	PA3729	-0.956	-0.96	6.36524150831207e-05	0.00028540090479949
PA3730	PA3730	-1.094	-0.7	2.61528722458825e-07	0.00385779424160724
PA3731	PA3731	-0.018	-0.626	0.928144154546788	0.00238545955627028
PA3732	PA3732	-0.278	-0.652	0.145104765180067	0.00194899179753731
PA3733	PA3733	-0.12	0.03	0.121351795383653	0.797891334640894
PA3734	PA3734	1.987	-0.981	4.21274532756776e-39	1.69408924558703e-09
PA3735	thrC	-0.715	-0.138	9.04248141943241e-17	0.212188570579376
PA3736	hom	-0.686	-0.177	6.38720984751155e-13	0.137870228072984
PA3737	dsbC	-1.129	0.013	1.20145218291862e-47	0.916637446701588
PA3738	xerD	-1.46	0.022	3.71878198159401e-73	0.848623261622259
PA3739	PA3739	0.396	0.031	0.000129220266635996	0.853199194581125
PA3740	PA3740	0.842	-0.092	7.83316860269895e-20	0.4784376070703
PA3741	PA3741	-0.9	-0.041	3.29714301833569e-05	0.899155445026921
PA3742	rplS	0.402	-0.051	0.00302160179266988	0.811645368897694
PA3743	trmD	-1.32	-0.086	2.29115304943313e-44	0.517799664847937
PA3744	rimM	-1.744	0.039	8.16589528740613e-78	0.789460248339166
PA3745	rpsP	-1.748	0.317	1.82392834654988e-69	0.00433393923704347
PA3746	ffh	-1.379	-0.171	6.99159267927062e-31	0.276528365905512
PA3747	PA3747	-2.641	0.161	6.61092221801665e-105	0.29122007837053
PA3748	PA3748	-0.965	0.29	5.29017285660881e-29	0.00206097129831534
PA3749	PA3749	0.111	0.363	0.418721057276078	0.0154362146076993
PA3750	PA3750	2.231	0.747	1.33965621856674e-22	0.00577042516622889
PA3751	purT	1.889	0.126	8.83102595266973e-59	0.451421606572143
PA3752	PA3752	2.252	0.23	5.04294090123728e-57	0.239102265607203
PA3753	PA3753	1.93	0.135	8.12044062572698e-75	0.355755670871127
PA3754	PA3754	0.367	0.253	0.000161375769530449	0.0280775285646763
PA3755	PA3755	0.132	0.156	0.314230750762468	0.356182810953081
PA3756	PA3756	-0.92	0.007	1.91797155559773e-27	0.959109114056697
PA3757	nagR	1.296	-0.264	5.80727265779238e-11	0.331423165576134
PA3758	PA3758	1.688	-0.195	1.27981603642719e-22	0.42512472913234
PA3759	PA3759	1.644	-0.093	7.13256817663436e-28	0.700441228663051
PA3760	PA3760	1.852	0.145	1.71923778308326e-42	0.454331367907468
PA3761	nagE	2.301	0.154	2.06065641130725e-46	0.514012327107745
PA3762	PA3762	-0.917	-0.199	2.35492451363266e-13	0.216164117378883
PA3763	purL	-1.365	0.072	1.80633206886293e-37	0.652942320428435
PA3764	PA3764	-0.755	0.017	5.08648909035813e-31	0.867610660601695
PA3765	PA3765	1.603	0.304	3.50077470477079e-14	0.290768673979633
PA3766	PA3766	-1.354	-0.132	4.95617167424332e-33	0.341384884554234
PA3767	PA3767	-0.079	0.161	0.412066355019147	0.161597174805853
PA3768	PA3768	-3.918	-0.048		0.565734732150276
PA3769	guaA	-1.7	-0.086	1.88136642430588e-29	0.705563620529437
PA3770	guaB	-1.259	0.003	3.16247292782736e-32	0.988382575242007
PA3771	PA3771	0.851	0.163	2.05484499368109e-10	0.374091300958942
PA3772	PA3772	0.274	0.46	0.0836143691815013	0.00928541748871717
PA3773	PA3773	0.513	0.371	0.100364663391085	0.369621803902957
PA3774	PA3774	1.297	0.561	3.40213792217472e-05	0.180640257403052
PA3775	PA3775	-1.385	0.094	6.65879191017554e-11	0.727434698591903
PA3776	PA3776	-0.185	-0.019	0.400273395729215	0.953382684817309
PA3777	xseA	-0.671	0.212	3.35675000269633e-11	0.0843166971347991

PA3778	PA3778	-0.488	0.087	1.34063431629959e-08	0.442625788359677
PA3779	PA3779	-2.2	-1.763	6.11418595261031e-49	2.05803477718286e-32
PA3780	PA3780	-0.311	-0.132	0.466912076751332	0.832809121541952
PA3781	PA3781	-0.07	-0.147	0.755324142158254	0.632294851448349
PA3782	PA3782	1.197	0.197	6.13399981850524e-35	0.116346726293023
PA3783	PA3783	0.447	-0.143	0.0181395318167746	0.60067781869472
PA3784	PA3784	1.299	-0.014	8.72540397792709e-25	0.945750431203718
PA3785	PA3785	1.634	-0.103	8.49081590389195e-47	0.529298966046145
PA3786	PA3786	0.693	0.077	9.75955121421906e-07	0.718031379699503
PA3787	PA3787	1.308	0.474	1.37817621568374e-23	0.00153866664885391
PA3788	PA3788	1.189	0.103	1.35009916726576e-15	0.644837868070098
PA3789	PA3789	0.651	0.512	0.000214583214076842	0.0120630061942873
PA3790	oprC	-0.769	0.273	4.46813118366087e-05	0.264997895910589
PA3791	PA3791	0.817	0.689	3.54252522759968e-05	0.00204758265343836
PA3792	leuA	4.257	-0.19	8.61478283995646e-13	0.842081757642916
PA3793	PA3793	-1.322	-0.163	2.71516945024598e-15	0.47860087838216
PA3794	PA3794	-1.071	-0.177	3.84818675087283e-13	0.362497278269502
PA3795	PA3795	0.452	-0.475	0.00134626964329151	0.00301349245883816
PA3796	PA3796	1.374	-0.165	1.18428361627734e-20	0.419297489903287
PA3797	PA3797	-0.295	-0.333	7.88376123600415e-06	2.79475273189172e-06
PA3798	PA3798	-2.177	-0.586	2.24172941358637e-62	3.33899380119039e-05
PA3799	PA3799	0.279	-0.029	0.00395231483055064	0.848295330469232
PA3800	PA3800	-0.639	-0.07	5.43072561993771e-05	0.775546728044503
PA3801	PA3801	-0.677	0.018	1.0244586456058e-06	0.936160157805068
PA3802	hisS	-0.733	0.023	2.56039234802628e-09	0.908347397354863
PA3803	gcpE	-0.445	-0.118	7.1848081509543e-06	0.375118292458129
PA3804	PA3804	-0.466	-0.006	8.41246001688932e-05	0.975122796937722
PA3805	pilF	-1.122	-0.142	4.2096875258698e-39	0.189199569867865
PA3806	PA3806	-0.954	-0.257	3.29097842864529e-27	0.0132191142480961
PA3807	ndk	-1.162	-0.407	1.79439316416003e-32	0.000195098878368215
PA3808	PA3808	0.634	1.137	5.14338035130545e-07	9.74014096687335e-19
PA3809	fdx2	-2.249	0.994	2.11297900583285e-123	3.15826658257458e-28
PA3810	hscA	-2.357	0.939	7.45677858169487e-171	4.96935892868435e-29
PA3811	hscB	-2.886	0.774	2.40120825248035e-205	2.61358253567012e-16
PA3812	iscA	-2.159	0.795	7.61225166144723e-155	2.57810493975722e-22
PA3813	iscU	-2.134	0.68	2.15517510558177e-224	3.24125829364652e-24
PA3814	iscS	-2.526	0.552	2.27697772452908e-222	3.77370818594008e-11
PA3815	iscR	-3.596	0.737		0.804721845708945e-25
PA3816	cysE	-0.883	0.1	7.41596570414137e-35	0.280162399150553
PA3817	PA3817	-1.316	-0.12	4.60712502099939e-66	0.206365897795336
PA3818	PA3818	-0.934	0.242	3.52179135699879e-32	0.00569612525687417
PA3819	PA3819	2.915	-0.543	1.61172321952116e-144	1.80893422055677e-05
PA3820	secF	-1.732	-0.031	1.0466238075611e-41	0.880289961759512
PA3821	secD	-2.115	-0.106	2.18306659542113e-43	0.638707905317475
PA3822	PA3822	-2.443	-0.113	2.00156372866656e-80	0.530787516998339
PA3823	tgt	-1.4	0.064	8.3166622936472e-39	0.672471271960017
PA3824	queA	-1.546	0.265	1.47291558036536e-41	0.0246651259535357
PA3824.1	PA3824.1	-1.74	0.991	8.31373724956067e-14	6.69344289453366e-05
PA3825	PA3825	0.814	0.246	6.6155998084087e-18	0.0305648435773292
PA3826	PA3826	-1.368	0.145	3.8007333377938e-28	0.33500456418406

PA3827	lptG	-1.283	0.264	9.44990647760309e-31	0.0463956142273284
PA3828	lptF	-1.472	0.155	8.22635090702203e-83	0.0930840464466665
PA3829	PA3829	0.43	0.161	0.000358649356277157	0.316250399861023
PA3830	PA3830	-0.19	0.213	0.0314786470722596	0.0343601728592368
PA3831	pepA	-0.82	-0.169	9.57711470720913e-15	0.218056751415765
PA3832	holC	-1.372	-0.087	1.16137949537785e-26	0.636731774876287
PA3833	PA3833	1.026	0.216	3.67451687086979e-23	0.0971649458749098
PA3834	valS	-1.231	-0.003	2.79348371429847e-31	0.986265192947993
PA3835	PA3835	0.821	-0.164	9.58007215701948e-09	0.421635400935013
PA3836	PA3836	1.259	-0.35	7.53364679079186e-47	0.000479972574647213
PA3837	PA3837	0.735	-0.271	2.22257705552487e-05	0.236264201486477
PA3838	PA3838	0.86	-0.057	3.96314946719696e-14	0.751279304318271
PA3839	PA3839	0.625	0.136	1.35324525658832e-08	0.360186521780835
PA3840	PA3840	0.41	-0.145	0.00292117209961509	0.45156641824984
PA3841	exoS	-1.622	0.642	1.60622252956013e-58	1.43514361069361e-09
PA3842	spcS	-2.604	0.55	1.6250826226617e-70	0.000576028094637849
PA3843	PA3843	-2.518	0.468	7.21494374390238e-63	0.00480317102161729
PA3844	PA3844	0.559	0.288	4.34857536766852e-07	0.0290754872860514
PA3845	PA3845	0.146	-0.131	0.257024518893737	0.450825579770913
PA3846	PA3846	2.049	0.193	5.42685260216512e-106	0.10588255082022
PA3847	PA3847	1.029	0.065	2.37840365931153e-27	0.654942388966908
PA3848	PA3848	1.117	-0.142	2.56843365523261e-43	0.180609734127473
PA3849	PA3849	-0.137	-0.068	0.261017941605787	0.700495871955392
PA3850	PA3850	-0.144	-0.239	0.26460574911746	0.121817692907943
PA3851	PA3851	0.618	0.033	8.24000760131786e-12	0.819045077407097
PA3852	PA3852	0.798	-0.035	3.74109757115472e-27	0.761860205589629
PA3853	PA3853	0.978	0.218	6.54917610074285e-19	0.119588379962279
PA3854	PA3854	0.789	0.051	3.39112030234478e-11	0.788678707295101
PA3855	PA3855	1.024	0.178	1.62431020527849e-22	0.191919203631738
PA3856	PA3856	1.506	0.217	7.92988082702804e-136	0.00320195920203211
PA3857	pcs	1.451	0.008	2.89035159263884e-61	0.955000729639505
PA3858	PA3858	1.829	0.354	3.08116936096932e-143	8.82294789716001e-06
PA3859	PA3859	0.775	0.28	5.03288895597888e-06	0.196813015395089
PA3860	PA3860	2.393	0.035	1.95379898824885e-88	0.865092798608819
PA3861	rhl	-1.134	-0.265	3.622815462891e-38	0.00956457977851714
PA3862	dauB	0.746	-0.479	0.000795278380751523	0.084333866355568
PA3863	dauA	0.983	-0.342	1.13066052913546e-05	0.25195115568984
PA3864	dauR	0.036	-0.151	0.786594055072909	0.370314773275901
PA3865	PA3865	1.838	-0.36	4.5686456232586e-15	0.244220787522011
PA3865.1	PA3865.1	-3.235	-1.553	6.72516716427691e-48	2.30320948478654e-11
PA3866	PA3866	-3.971	-1.775	4.77637962880629e-145	2.23133230260263e-29
PA3867	PA3867	-0.619	0.149	1.75506240113449e-06	0.373884971064428
PA3868	PA3868	0.144	0.301	0.348943114405924	0.0953455250406786
PA3869	PA3869	-0.048	0.329	0.798723769121373	0.116000406871484
PA3870	moaA1	0.301	0.424	0.104163323527435	0.0467823782328902
PA3871	PA3871	0.224	0.019	0.170193765968233	0.941415133114659
PA3872	narI	0.364	-0.05	0.104092088406206	0.890351016081659
PA3873	narJ	1.285	0.597	1.88210297146645e-06	0.0882885653637833
PA3874	narH	0.531	0.209	6.68751184670793e-05	0.23370769830009
PA3875	narG	0.699	0.173	1.74447020147688e-07	0.356130206941056

PA3876	narK2	0.703	0.367	0.0160861386082702	0.354909509054813
PA3877	narK1	0.662	0.789	0.0193586703035658	0.0136999784217926
PA3878	narX	0.211	0.029	0.0417507887363469	0.85973758397357
PA3879	narL	0.868	0.03	6.87958311996425e-30	0.812509551299492
PA3880	PA3880	1.774	0.339	1.34283173127637e-28	0.124972106955618
PA3881	PA3881	-0.609	-0.04	1.96549972745447e-07	0.824882666632393
PA3882	PA3882	0.165	-0.104	0.216225088185744	0.577470721787244
PA3883	PA3883	-0.404	0.269	0.0409183515899753	0.286193495935523
PA3884	PA3884	-0.66	0.478	0.017934074590115	0.132746771201594
PA3885	tpbA	-1.075	0.747	0.000157628441272295	0.0150046554437447
PA3886	PA3886	-0.588	-0.048	6.47242773511696e-08	0.771653925444832
PA3887	nhpA	-2.108	-0.594	1.83155412595865e-70	9.43537405108721e-07
PA3888	opuCD	-1.505	0.051	7.5974454939511e-18	0.844141316687371
PA3889	opuCC	-0.813	-0.126	1.22977848838895e-06	0.597786900784446
PA3890	opuCB	-1.574	-0.129	2.84636542719468e-11	0.701495691775437
PA3891	opuCA	-0.837	-0.075	3.88755365466755e-06	0.788678707295101
PA3892	PA3892	-1.094	0.315	9.59269045728732e-13	0.0593462546647345
PA3893	PA3893	-2.081	0.699	3.10880039078543e-38	1.82630416455437e-06
PA3894	PA3894	-2.409	0.585	3.23882833471308e-39	0.0023907988487853
PA3895	PA3895	0.01	-0.183	0.941255918789315	0.246225652687741
PA3896	PA3896	-0.868	-0.159	7.99265042280133e-15	0.266528659941901
PA3897	PA3897	0.481	0.307	0.0044928112158827	0.1496993549854
PA3898	PA3898	-0.565	0.11	2.23512887240152e-08	0.412999618861698
PA3899	fecI	-6.847	-0.832	4.32609661902933e-243	8.68039328443638e-14
PA3900	fecR	-6.019	-0.351	6.76439784085862e-121	0.177111845686223
PA3901	fecA	-3.881	-0.539	2.81815962580325e-127	4.48349552661272e-05
PA3902	PA3902	0.82	-0.267	4.63358493171823e-10	0.109827212870907
PA3903	prfC	-1.672	0.104	1.80883094580118e-43	0.544712775017507
PA3904	PA3904	-1.749	0.192	1.61545280792662e-38	0.27932799622949
PA3905	PA3905	-2.302	-0.212	1.86848131563549e-82	0.14747067343228
PA3906	PA3906	-2.05	-0.145	8.36756013474064e-49	0.435797265734443
PA3907	PA3907	-1.815	-0.131	1.55676626271727e-48	0.436271316809889
PA3908	PA3908	-1.34	-0.329	1.15801889647121e-18	0.0776682018204197
PA3909	eddB	-0.745	-0.69	2.88878416219327e-06	7.57462023142849e-05
PA3910	eddA	0.068	-0.164	0.641300727779552	0.391460106266368
PA3911	PA3911	0.407	0.407	0.0204088627734224	0.0490812484784812
PA3912	PA3912	0.307	0.319	0.200091958478302	0.294271743702555
PA3913	PA3913	0.576	0.225	0.00515712009454062	0.433002260726405
PA3914	moeA1	0.559	0.404	0.0102860793995056	0.136256684949899
PA3915	moaB1	-0.117	-0.212	0.466356217557525	0.296349483021044
PA3916	moaE	0.124	0.003	0.31709980634309	0.990030115598355
PA3917	moaD	0.139	0.049	0.22303414397649	0.775159865026106
PA3918	moaC	0.066	-0.1	0.365140115241707	0.276341379480528
PA3919	PA3919	2.036	-0.569	6.51362442173674e-34	0.00333588480081741
PA3920	PA3920	-0.336	-0.042	0.00442318029889507	0.81947266522982
PA3921	PA3921	1.618	0.056	1.15926840915188e-43	0.756369381011392
PA3922	PA3922	3.587	-0.484	5.01252314020402e-184	0.000664575121442556
PA3923	PA3923	3.505	-0.425	4.30288155017177e-294	8.26722614206469e-05
PA3924	PA3924	0.882	-0.448	1.93826802294728e-16	0.000192816310068345
PA3925	PA3925	0.242	-0.541	0.0664661961771955	0.000177828072530214

PA3926	PA3926	-0.01	0.019	0.953502649490531	0.938642603978266
PA3927	PA3927	0.253	-0.199	0.123682236196751	0.362536646114978
PA3928	PA3928	1.822	1.049	6.28607119696686e-28	2.98770002101776e-09
PA3929	cioB	1.971	0.9	3.39542124655848e-101	3.99655819522409e-21
PA3930	cioA	1.664	0.942	1.23412288731616e-64	1.23496765237683e-20
PA3931	PA3931	-3.293	-3.978	3.74664333598894e-82	2.46562216715753e-112
PA3932	PA3932	-1.806	-2.207	2.70741918248182e-65	6.86464450131243e-92
PA3933	betT3	-1.343	-0.25	2.18208269350228e-34	0.0434157088803945
PA3934	PA3934	-1.223	0.11	2.34621388656708e-98	0.124615596194888
PA3935	tauD	-5.093	-5.149	2.39887598701208e-203	5.27085169199054e-206
PA3936	PA3936	-4.968	-5.112	1.70933669395841e-221	4.89709228421691e-225
PA3937	PA3937	-5.226	-5.135	1.82194619572277e-292	4.78692916981514e-294
PA3938	PA3938	-5.129	-4.798	3.28988022203634e-208	2.05244291641285e-186
PA3939	PA3939	-4.261	-3.924	8.02096931534038e-208	2.0311803443252e-190
PA3940	PA3940	-0.046	-0.263	0.667372175356668	0.0292904866734734
PA3941	PA3941	-0.161	0.162	0.269716693906129	0.382885404959916
PA3942	tesB	0.03	0.01	0.803969391430027	0.954329750810601
PA3943	PA3943	1.213	0.115	7.68821694581702e-42	0.34990739017238
PA3944	PA3944	1.055	0.154	2.00431953496891e-35	0.165394995134092
PA3945	PA3945	1.771	0.307	1.45257313547738e-55	0.0238126031170395
PA3946	rocS1	0.505	0.136	2.8367449618626e-06	0.353563771063086
PA3947	rocR	0.304	0.223	0.00842097198918898	0.115225420359753
PA3948	rocA1	-0.533	0.139	2.15448212799914e-06	0.348986658163812
PA3949	PA3949	-0.917	0.122	1.85601886207701e-26	0.25195115568984
PA3950	PA3950	-0.786	0.059	5.6149213109931e-27	0.567666700479087
PA3951	PA3951	-0.405	0.195	7.89934582212262e-05	0.111122124390017
PA3952	PA3952	0.036	-0.036	0.85157960383695	0.900781433404536
PA3953	PA3953	-0.849	0.282	2.56975362342187e-06	0.182714707897164
PA3954	PA3954	0.644	0.107	0.000818817703396973	0.723223357711133
PA3955	PA3955	-1.776	0.118	5.48005104323712e-29	0.54592006162683
PA3956	PA3956	-1.173	0.187	2.41357995874071e-09	0.487454200898941
PA3957	PA3957	1.567	0.646	2.38112562679922e-25	0.000129575868081017
PA3958	PA3958	-1.589	0.02	2.49230041536752e-37	0.917438045254244
PA3959	PA3959	-0.943	0.26	1.71658614352909e-09	0.151365989183726
PA3960	PA3960	2.734	0.352	1.99767710381546e-20	0.447857192020563
PA3961	PA3961	-0.231	0.247	0.0424926699021741	0.067859157515735
PA3962	PA3962	0.604	-0.131	2.66503883255662e-07	0.417468125660136
PA3963	PA3963	-0.111	-0.094	0.345936022854225	0.561354788059732
PA3964	PA3964	1.202	0.872	9.26879581206338e-07	0.00177273266271615
PA3965	PA3965	2.633	0.162	2.62801585263032e-08	0.829710540879662
PA3966	PA3966	-2.114	0.296	1.37247224631612e-60	0.0550055273417521
PA3967	PA3967	-1.78	0.605	3.10366314150686e-39	2.98943063159955e-07
PA3968	PA3968	-1.267	-0.093	2.81760972062292e-31	0.521676953560493
PA3969	PA3969	0.578	-0.191	2.95864241072621e-08	0.150821209183373
PA3970	amn	-0.005	-0.307	0.967005061017905	0.0296598748075192
PA3971	PA3971	0.712	0.048	6.235098337953e-08	0.821281796362002
PA3972	PA3972	0.747	-0.023	9.65575277930777e-12	0.899155445026921
PA3973	PA3973	1.118	0.471	2.41877326849864e-16	0.00272652913431108
PA3974	ladS	-0.12	0.168	0.114033589695524	0.0602223481634309
PA3975	thiD	-0.637	0.545	8.8822262725171e-06	0.000572531515398353

PA3976	thiE	-0.897	0.382	7.7714262227316e-07	0.0819325839230934
PA3977	hemL	-0.646	0.039	1.54650289309082e-05	0.872538257204222
PA3978	PA3978	-0.322	0.04	0.00156627187138657	0.798127811364946
PA3979	PA3979	-0.335	0.161	0.00897891935949794	0.325677748561098
PA3980	PA3980	-1.561	0.044	6.94487473633157e-90	0.697665168825685
PA3981	PA3981	0.241	-0.312	0.0153495208567465	0.00587784407254607
PA3982	PA3982	-0.643	-0.396	1.44719116390968e-06	0.0101479296685355
PA3983	PA3983	0.261	-0.331	0.0356349800702803	0.0215917964808515
PA3984	Int	-1.751	-0.046	3.44726890598012e-36	0.834575294404124
PA3985	PA3985	-0.041	0.154	0.732049183415939	0.29146034120484
PA3986	PA3986	1.572	0.44	6.33322435099001e-14	0.0906705757203204
PA3987	leuS	-1.226	0.019	6.90682466978622e-51	0.887011188559093
PA3988	lptE	-1.106	-0.076	1.56961153993717e-40	0.511898016488277
PA3989	holA	-1.172	-0.105	1.60250856063257e-13	0.653144575449639
PA3990	PA3990	3.179	0.278	1.94728913028628e-65	0.277545748620784
PA3991	PA3991	0.856	0.489	0.000268243315905941	0.0991051290926206
PA3992	PA3992	-0.874	-0.108	1.79260295171766e-14	0.495412307989572
PA3993	PA3993	0.286	0.907	4.21276196327967e-06	4.72611725170825e-50
PA3994	PA3994	0.473	0.257	0.000244647531869802	0.111911493437604
PA3995	PA3995	0.709	0.01	6.73552284977075e-09	0.961534101649433
PA3996	lis	-0.144	0.203	0.0918682383642152	0.0411692851821198
PA3997	lipB	-1.158	-0.005	7.9348450419091e-29	0.974765793449468
PA3998	PA3998	-1.073	-0.165	3.50197229780067e-21	0.268581949123628
PA3999	dacC	-0.57	-0.182	3.53770937479487e-08	0.163742269199258
PA4000	rlpA	-0.547	-0.025	7.33124299563974e-07	0.8897888901644
PA4001	sltB1	-0.82	-0.135	2.00474790285417e-27	0.156307763072633
PA4002	rodA	-1.303	0.084	5.64348903659856e-40	0.535527715795755
PA4003	pbpA	-1.957	0.137	2.17063496808223e-42	0.478798819486185
PA4004	PA4004	-1.153	0.284	1.46176136507814e-15	0.0942486460354764
PA4005	PA4005	-0.814	-0.079	8.00616185281765e-13	0.634358998176168
PA4006	nadD	-1.739	0.396	2.65235568414139e-31	0.0229572036231341
PA4007	proA	-1.357	0.252	7.05034810888957e-27	0.107073157607624
PA4008	PA4008	0.746	0.584	1.71703354947444e-05	0.00322353770445048
PA4009	PA4009	0.485	0.124	5.09586931851131e-10	0.230628791609072
PA4010	PA4010	-0.426	-0.03	3.4002470059424e-07	0.815144187862311
PA4011	PA4011	-0.366	0.243	0.000727170753985154	0.0572713678681959
PA4012	PA4012	1.378	0.535	2.12671932794207e-58	6.74194210188857e-09
PA4013	PA4013	-1.151	0.121	6.93612842746626e-30	0.341017966229691
PA4014	PA4014	-0.894	0.077	2.5905348203961e-17	0.588592921170828
PA4015	PA4015	1.744	-0.162	1.52466955269072e-30	0.445134503238882
PA4016	PA4016	-1.131	0.016	8.57143737958039e-36	0.911519751559051
PA4017	PA4017	0.9	-0.049	1.3424281913758e-20	0.741399563602539
PA4018	PA4018	0.107	0.382	0.553270782708529	0.064508409621564
PA4019	PA4019	0.197	0.153	0.0204731763621821	0.144590895187281
PA4020	mpl	0.028	-0.095	0.728544021208377	0.341384884554234
PA4021	PA4021	1.27	0.139	1.3499006773462e-27	0.390111390844737
PA4022	hdhA	5.234	0.066		0.775597590585943
PA4023	PA4023	2.113	-0.008	4.60037084001178e-36	0.979526104733136
PA4024	eutB	1.205	-0.142	1.19610367687204e-45	0.209155944696605
PA4025	PA4025	1.347	0.133	1.4494985962614e-33	0.397136238993626

PA4026	PA4026	0.264	-0.129	0.00395484389822558	0.278870363349664
PA4027	PA4027	0.815	0.179	3.88898627351198e-12	0.246433025192794
PA4028	PA4028	2.245	0.137	4.54476146551389e-12	0.822476290732462
PA4029	PA4029	-1.963	-0.189	3.64706008803518e-65	0.176536358572481
PA4030	PA4030	-1.153	0.06	2.25736742778726e-17	0.765199070006346
PA4031	ppa	-1.707	-0.368	1.56610812878108e-68	0.000783659011700835
PA4032	PA4032	-0.289	0.057	2.47678073647927e-05	0.551307035562457
PA4033	mucE	-2.336	-0.864	1.24134308491533e-25	0.000135157088122716
PA4034	aqpZ	-1.627	-0.943	4.63695751876188e-14	6.32738636485181e-05
PA4035	PA4035	-0.813	-0.323	7.42771961772565e-08	0.0785442049500714
PA4036	PA4036	-0.81	-0.094	3.95756859801582e-17	0.463791352433295
PA4037	PA4037	0.934	0.038	3.15113168597344e-06	0.912557498735196
PA4038	PA4038	0.684	0.149	0.0696266319623942	0.806538915837408
PA4039	PA4039	0.26	0.1	0.211558466092711	0.74577441886058
PA4040	PA4040	0.663	0.288	2.4054793461311e-13	0.00656338791438642
PA4041	PA4041	1.303	0.225	5.31491189839562e-35	0.0928394053060722
PA4042	xseB	-1.683	-0.139	1.40152723532549e-31	0.454331367907468
PA4043	ispA	-1.354	0.038	8.22411265904715e-14	0.89547432597274
PA4044	dxs	0.357	0.303	3.24231061125935e-05	0.00178304568126611
PA4045	PA4045	-1.341	0.187	1.31121210357634e-17	0.356447728642504
PA4046	PA4046	-1.917	-0.076	1.18678899868343e-63	0.610859117818715
PA4047	ribA	-1.06	-0.092	1.34168022781852e-48	0.333110539897513
PA4048	PA4048	0.867	0.231	3.43767155420594e-14	0.109490651281719
PA4049	PA4049	0.301	0.284	0.000109393480938571	0.00109354488120216
PA4050	pgpA	-0.833	0.381	7.20292892804533e-12	0.00452468421399884
PA4051	thiL	-0.807	0.585	0.000417213761670541	0.0281821844268604
PA4052	nusB	-0.779	-0.039	5.20582705333953e-11	0.836652591710901
PA4053	ribE	-1.062	0.023	4.76922647024656e-19	0.903373068638848
PA4054	ribB	-0.379	0.355	0.094806523981021	0.210328327852559
PA4055	ribC	-0.371	0.185	0.0350816937478911	0.434194940529946
PA4056	ribD	-1.04	0.352	1.13211627159388e-08	0.119747906115545
PA4057	nrdR	-1.83	0.01	7.63288547009971e-106	0.936066285108918
PA4058	PA4058	0.34	0.09	0.003067658915076	0.587048017956589
PA4059	PA4059	0.17	0.387	0.420394436469792	0.122240161382883
PA4060	PA4060	0.725	-0.126	0.00025310610604915	0.672471271960017
PA4061	PA4061	-0.386	-0.233	3.90204437590124e-06	0.016631809865644
PA4062	PA4062	0.207	0.311	0.494977213394306	0.432256266804734
PA4063	PA4063	4.757	-0.327	4.40041889400698e-104	0.277387514684957
PA4064	PA4064	1.745	-0.23	6.50911266949229e-19	0.402161863190754
PA4065	PA4065	2.195	0.139	9.25346818218373e-36	0.594975255812985
PA4066	PA4066	1.693	0.081	6.19171289263712e-21	0.779203416978607
PA4067	oprG	0.984	-0.117	1.11818074452825e-09	0.622753593009948
PA4068	PA4068	-0.552	-0.127	2.76258681329489e-17	0.113788160960245
PA4069	PA4069	-0.779	-0.045	1.30771886482795e-18	0.735627023370574
PA4070	PA4070	1.759	0.082	3.20891208581079e-29	0.736747364249055
PA4071	PA4071	1.072	0.042	1.7943468537356e-06	0.91582091391408
PA4072	PA4072	1.097	0.384	3.01269263674191e-13	0.0421596595103561
PA4073	PA4073	0.296	-0.152	0.0295280550780616	0.418974612345991
PA4074	PA4074	0.656	0.019	3.30409804559283e-07	0.927010670017663
PA4075	PA4075	-0.628	0.131	2.68249883198485e-07	0.422582568690934

PA4076	PA4076	-1.085	-0.122	4.60035168442791e-15	0.497340110103118
PA4077	PA4077	-0.607	-0.254	1.85615989397879e-06	0.0901105277261408
PA4078	PA4078	2.125	-0.744	7.10370422207291e-61	1.56378653203044e-07
PA4079	PA4079	-0.209	-0.071	0.00615177731510457	0.497729082838581
PA4080	PA4080	2.615	0.449	1.07092297902852e-79	0.0109190124698793
PA4081	cupB6	0.431	0.284	0.00471047552636537	0.136060276873781
PA4082	cupB5	0.196	0.087	0.201899555754072	0.697798320184266
PA4083	cupB4	0.289	0.25	0.463752660127569	0.652835687785649
PA4084	cupB3	0.718	0.399	1.70918782384908e-08	0.00766523061904866
PA4085	cupB2	0.047	0.252	0.824355668539231	0.327776475717711
PA4086	cupB1	0.006	0.165	0.976249039491565	0.495563699022603
PA4087	PA4087	1.344	-0.015	1.07771979420926e-05	0.979571034272843
PA4088	PA4088	0.882	0.136	0.000800123320444616	0.749561073283848
PA4089	PA4089	0.831	0.752	0.0652100175589004	0.180640257403052
PA4090	PA4090	-4.993	0.495		0.000199867054111688
PA4091	hpaA	-0.851	0.21	2.92489789546238e-07	0.335261339141539
PA4092	hpaC	0.233	0.25	0.252904229672983	0.33852190414923
PA4093	PA4093	3.532	-0.065	1.48179249676894e-126	0.825871599509213
PA4094	PA4094	1.587	0.256	1.36114572505073e-58	0.0354422343897449
PA4095	PA4095	1.191	0.487	0.00322442694442869	0.39705770860577
PA4096	PA4096	0.121	0.718	0.711259677418523	0.0362415146353686
PA4097	PA4097	1.065	0.719	0.0829142312486261	0.388648543598066
PA4098	PA4098	0.92	0.268	0.102996154272218	0.764268691167159
PA4099	PA4099	-0.186	-0.211	0.518672021661723	0.593792750493127
PA4100	PA4100	0.228	-0.235	0.242008833716436	0.375330225162724
PA4101	bfmR	1.229	-0.348	7.77243883580015e-32	0.00623304398780331
PA4102	bfmS	1.005	-0.16	2.05688069110031e-17	0.327321519244147
PA4103	PA4103	0.523	-0.179	0.115192432364821	0.728674847095263
PA4104	PA4104	-1.51	0.406	3.15971255998769e-17	0.0121961123265871
PA4105	PA4105	0.581	0.149	0.00231412523572887	0.596928466584304
PA4106	PA4106	0.292	0.254	0.153916211201015	0.337903554574856
PA4107	efhP	0.241	-0.055	0.223236447027639	0.859887466800775
PA4108	PA4108	1.002	0.219	5.36703903906352e-29	0.0450952671489473
PA4109	ampR	0.308	-0.11	0.000423931456389502	0.353438384270691
PA4110	ampC	-0.84	-0.291	8.51291733290052e-09	0.0973022724121086
PA4111	PA4111	0.467	0.104	0.000693690311422114	0.60067781869472
PA4112	PA4112	0.874	0.317	3.8005469551676e-16	0.0117651350727331
PA4113	PA4113	-2.59	0.386	1.02392379488822e-158	3.14229531348194e-06
PA4114	PA4114	0.343	0.078	3.16295320700965e-05	0.498297470199241
PA4115	PA4115	0.612	-0.437	4.61026353569776e-06	0.00440881562599719
PA4116	bphO	0.17	0.599	0.114538837114001	4.94235331180134e-08
PA4117	bphP	0.701	0.199	4.74488797747306e-20	0.0299796206171411
PA4118	PA4118	-0.388	0.156	5.78440762463674e-06	0.134696087936397
PA4119	aph	-0.739	0.046	4.42055360137249e-09	0.805767624602317
PA4120	PA4120	0.122	0.096	0.355249085990865	0.598468637019046
PA4121	PA4121	2.292	-0.203	6.03605440691484e-29	0.560341327096212
PA4122	PA4122	2.35	-0.053	4.90671086197388e-38	0.875922399909499
PA4123	hpcC	1.929	0.153	4.85331865253748e-46	0.447343090685876
PA4124	hpcB	1.794	-0.236	3.05336530243447e-31	0.282058192047567
PA4125	hpcD	2.266	-0.033	5.94161296808799e-42	0.916114907499967

PA4126	PA4126	1.726	0.125	6.17384125555734e-24	0.65173320132179
PA4127	hpcG	2.468	0.241	3.48982728708036e-28	0.495563699022603
PA4128	PA4128	3.67	0.661	5.49415570538417e-49	0.0608861783554366
PA4129	PA4129	5.506	-0.058	7.5705871832035e-255	0.832690749481981
PA4130	PA4130	5.616	-1.053		0 3.10746879234198e-14
PA4131	PA4131	6.514	-0.443		0 0.034403136407896
PA4132	PA4132	4.248	-0.199	8.45636559645007e-216	0.279200350683869
PA4133	PA4133	5.692	-0.037		0 0.87566242097491
PA4134	PA4134	5.563	0.56	2.91525984034387e-250	0.00664849509808764
PA4135	PA4135	-2.363	-0.424	2.02341086328405e-41	0.0307825646477264
PA4136	PA4136	-1.048	0.197	8.27624017678403e-07	0.50023671872193
PA4137	PA4137	1.51	0.142	1.00470187729075e-14	0.657520334118526
PA4138	tyrS	-0.416	0.308	0.00302772460161231	0.0542680688334373
PA4139	PA4139	-0.073	0.118	0.875748967920117	0.865865073171806
PA4140	PA4140	-0.902	-0.215	0.0571564554900241	0.761442735514413
PA4141	PA4141	-3.857	-1.769	1.58284440453538e-61	4.31999225994391e-13
PA4142	PA4142	-3.638	-2.226	1.33062694545677e-296	9.36563697673798e-122
PA4143	PA4143	-3.215	-1.941	2.38676761342148e-136	1.09455814152166e-55
PA4144	PA4144	-3.38	-1.554	2.93660743897638e-81	1.52550921829205e-22
PA4145	PA4145	-0.807	-0.536	1.35920689108402e-17	7.07748308460987e-08
PA4146	PA4146	0.68	-0.287	0.000405985836836293	0.287518962417579
PA4147	acoR	2.083	0.438	5.49040379485984e-140	2.56460849330365e-06
PA4148	PA4148	1.098	0.002	0.00429721243410467	0.99736135557104
PA4149	PA4149	2.452	0.998	9.24092284182825e-08	0.109602231402767
PA4150	PA4150	1.122	0.066	3.54350944141878e-10	0.826932798008344
PA4151	acoB	1.988	0.264	9.69586409810755e-25	0.368462537027964
PA4152	PA4152	1.711	-0.078	9.55006125347659e-22	0.809643577148241
PA4153	PA4153	1.492	-0.027	2.17034148064801e-30	0.91128688508597
PA4154	PA4154	0.531	-0.529	5.64143489590622e-05	0.00084645362366111
PA4155	PA4155	-4.706	-1.741	1.2453341053713e-298	4.19088681514637e-72
PA4156	fvbA	-5.008	-1.929		0 9.45757020629499e-120
PA4157	PA4157	-0.434	0.055	1.97422449515978e-07	0.644837868070098
PA4158	fepC	-5.026	-0.973	7.02613797772205e-138	2.21003602061096e-11
PA4159	fepB	-4.86	-1.195	6.1108248630006e-165	3.22941666819187e-18
PA4160	fepD	-5.149	-0.808	5.58565558561351e-73	0.000379118358233775
PA4161	fepG	-4.877	-0.619	3.32599191996155e-61	0.0296017390437931
PA4162	PA4162	0.384	0.103	0.051234810744767	0.722783760660443
PA4163	PA4163	0.253	0.04	0.128219369928005	0.876479035093386
PA4164	PA4164	0.177	-0.102	0.2693901490233	0.657471545845536
PA4165	PA4165	0.177	-0.078	0.114673537914887	0.63042127217435
PA4166	PA4166	0.058	-0.21	0.735739394214775	0.342165122751589
PA4167	PA4167	-2.827	-1.097	2.25601961617039e-99	1.81846807805023e-24
PA4168	fpvB	-4.719	-1.162		0 1.23555374229801e-31
PA4169	PA4169	-0.351	0.518	0.0377783006991531	0.00311088889182361
PA4170	PA4170	0.884	-0.129	9.47078583250325e-11	0.530710141431802
PA4171	PA4171	1.067	-0.477	8.67559310200122e-05	0.178568784903926
PA4172	PA4172	0.017	-0.387	0.951611743185823	0.277544828024309
PA4173	PA4173	0.322	-0.432	0.1750863425776	0.172147075980519
PA4174	PA4174	-0.146	-0.169	0.302958061390531	0.351894331963215
PA4175	piv	-3.666	-1.795	3.11134587752121e-47	1.91307785108655e-11

PA4176	ppiC2	-0.038	0.614	0.814873230293841	0.00021896102514967
PA4177	PA4177	-3.733	-1.603	2.77982896723336e-105	3.59478065947446e-41
PA4178	PA4178	-0.633	0.214	0.00118600046095238	0.369092004243304
PA4179	PA4179	-0.228	0.096	0.407935375139444	0.811933103064747
PA4180	PA4180	0.113	-0.29	0.223566436010822	0.00501232395302109
PA4181	PA4181	2.638	0.14	9.97042268568769e-11	0.831129403812671
PA4182	PA4182	2.815	-0.159	1.86876441723857e-21	0.726913407615747
PA4183	PA4183	-0.469	-0.214	2.71382367778076e-05	0.118602964921009
PA4184	PA4184	0.271	0.013	0.000711707354501352	0.917438045254244
PA4185	PA4185	-0.435	-0.148	5.78210145811285e-06	0.217631004146377
PA4186	PA4186	0.774	0.049	9.79796954433252e-12	0.789916639002366
PA4187	PA4187	1.54	0.631	6.63733175565898e-21	0.00146664000071748
PA4188	PA4188	1.35	0.066	6.93557547530216e-15	0.829710540879662
PA4189	PA4189	0.942	0.049	7.21680960623341e-08	0.869946537702493
PA4190	pqsL	-0.743	-0.387	7.23056001793646e-09	0.00935780294643097
PA4191	PA4191	-3.446	-3.816	1.0949855759336e-85	5.15711396433913e-93
PA4192	PA4192	-3.742	-3.319	2.99272873987806e-45	9.29648049577805e-40
PA4193	PA4193	-3.373	-3.229	1.10127461405605e-52	6.59723359424299e-51
PA4194	PA4194	-2.126	-1.43	1.21509367318725e-46	3.02290061445823e-23
PA4195	PA4195	-3.925	-4.136	1.3558020000909e-119	3.21970787994257e-129
PA4196	bfiR	0.235	0.034	0.105987758505984	0.88325729002606
PA4197	bfiS	-0.128	0.174	0.343618100724337	0.307575011645862
PA4198	PA4198	1.071	0.174	3.91660841987031e-23	0.230028797570624
PA4199	PA4199	0.466	-0.229	0.000164144664782749	0.139333915747088
PA4200	PA4200	0.155	-0.187	0.150348391928462	0.163275498633755
PA4201	ddlA	0.052	-0.254	0.566523577209443	0.0104418576335598
PA4202	PA4202	0.136	0.084	0.391310772786318	0.71526283989237
PA4203	PA4203	0.136	0.019	0.434438993950262	0.942114855249586
PA4204	ppgL	2.791	-0.508	7.23627785596521e-90	0.00253609757286301
PA4205	mexG	-2.307	-0.305	2.6928345008024e-50	0.0912329637778332
PA4206	mexH	-2.376	-0.207	7.20022802450846e-43	0.353951007790949
PA4207	mexI	-2.402	-0.057	2.46714759977089e-95	0.728640101234755
PA4208	opmD	-2.145	0.549	1.14846998392201e-22	0.0272206625049521
PA4209	phzM	2.369	-0.692	3.68755134966829e-90	1.66388531706481e-07
PA4210	phzA1	-2.187	-3.154	2.38558285200647e-15	3.37564166653458e-28
PA4211	phzB1	0.08	-2.653	0.787810753041183	2.39791444675691e-19
PA4212	phzC1	-0.201	-0.438	0.363514681922651	0.0920685742568673
PA4213	phzD1	-0.56	-2.464	0.143656133517338	3.40120699161179e-10
PA4214	phzE1	-0.638	-2.227	0.0341797263786917	3.73154778764147e-13
PA4215	phzF1	-0.815	-2.23	0.00431695443500506	2.7658609759398e-14
PA4216	phzG1	-0.757	-2.079	0.00748128853502414	8.9425535430071e-13
PA4217	phzS	0.206	-1.028	0.384005490322416	4.47980041359175e-05
PA4218	ampP	-7.508	-3.747		0 2.31892356993709e-297
PA4219	ampO	-8.039	-3.684		0 2.96476335864388e-106
PA4220	PA4220	-6.693	-3.827		0 3.63554389761968e-168
PA4221	fptA	-7.875	-4.206		0
PA4222	PA4222	-7.512	-4.122		0 2.78119103645162e-114
PA4223	PA4223	-7.288	-4.3		0 1.17717648709648e-254
PA4224	pchG	-7.34	-4.382		0 4.47382159022382e-233
PA4225	pchF	-7.414	-4.406		0 4.71165901693689e-279

PA4226	pchE	-7.461	-4.404		0	7.11935261464206e-192	
PA4227	pchR	-5.369	0.17		0	0.253550035927985	
PA4228	pchD	-6.124	-3.397		0		0
PA4229	pchC	-6.373	-3.172	3.49647631030879e-306		1.68215797717033e-85	
PA4230	pchB	-6.597	-3.946		0		0
PA4231	pchA	-6.575	-3.818		0	5.17401462292196e-268	
PA4232	ssb	-0.516	0.476	1.27935472716698e-15		5.04678777930823e-13	
PA4233	PA4233	-1.145	0.407	1.50826354129695e-40		9.89974986379257e-06	
PA4234	uvrA	-1.585	0.055	3.51032240807466e-62		0.698847113819869	
PA4235	ftnA	0.145	0.025	0.196646592532827		0.886762349268522	
PA4236	katA	3.621	0.306	4.0522409736812e-193		0.0401003224129989	
PA4237	rplQ	-2.137	-0.133	7.00343001003179e-87		0.364330499089745	
PA4238	rpoA	-1.753	-0.197	1.71074782746626e-53		0.178032257119204	
PA4239	rpsD	-2.054	-0.224	4.00835023926205e-53		0.192941717068376	
PA4240	rpsK	-2.338	-0.413	7.46052814061907e-72		0.00651705402856018	
PA4241	rpsM	-2.599	-0.307	1.31041237389822e-93		0.0450836670365028	
PA4242	rpmJ	-2.054	0.149	4.26156698612245e-72		0.325677748561098	
PA4243	secY	-2.453	-0.173	7.3414579131329e-124		0.19702938759267	
PA4244	rplO	-2.061	-0.42	1.14532057912497e-51		0.00838691181797628	
PA4245	rpmD	-2.191	-0.518	1.93761625248656e-43		0.00459231112461517	
PA4246	rpsE	-2.105	-0.323	3.98596217113784e-73		0.019190109363924	
PA4247	rplR	-2.294	-0.338	7.42547220676014e-84		0.0150277521112775	
PA4248	rplF	-2.392	-0.284	4.79731714815732e-128		0.0151798569321762	
PA4249	rpsH	-2.074	-0.147	1.72456130674089e-61		0.392208655230601	
PA4250	rpsN	-2.149	0.046	1.11396118558782e-113		0.749748375530161	
PA4251	rplE	-2.233	-0.142	3.0480314147872e-94		0.332056588923299	
PA4252	rplX	-2.041	-0.3	2.26655171506179e-53		0.0653525128946909	
PA4253	rplN	-1.742	-0.289	1.32333293346971e-34		0.103098312297826	
PA4254	rpsQ	-2.029	-0.351	1.20010139442124e-37		0.0705457861126965	
PA4255	rpmC	-1.972	-0.263	2.30864750678253e-34		0.198218414517077	
PA4256	rplP	-1.899	-0.282	4.17752027155274e-42		0.107136772602316	
PA4257	rpsC	-2.101	-0.302	4.74567557224389e-53		0.0740783294517586	
PA4258	rplV	-2.229	-0.465	6.0067828712551e-54		0.00523707410681026	
PA4259	rpsS	-2.134	-0.522	2.75284502168142e-34		0.0106861986095761	
PA4260	rplB	-2.057	-0.312	4.61259534364878e-47		0.0763415924668721	
PA4261	rplW	-2.14	-0.454	4.66463016581532e-36		0.025694305843271	
PA4262	rplD	-2.061	-0.393	9.59777802351265e-47		0.0214201793398974	
PA4263	rplC	-2.154	-0.218	2.81807159138746e-85		0.115867283487889	
PA4264	rpsJ	-1.916	0.034	2.55962834961503e-77		0.836774400842945	
PA4265	tufA	-1.112	0.004	2.40646778338896e-37		0.979571034272843	
PA4266	fusA1	-2.145	-0.286	1.7925219123601e-36		0.191667489294021	
PA4267	rpsG	-2.438	-0.255	5.94988491207872e-89		0.0917391585860851	
PA4268	rpsL	-2.418	-0.177	2.09570617371072e-85		0.279160094579145	
PA4269	rpoC	-1.206	-0.167	5.9328685170813e-19		0.363236411646105	
PA4270	rpoB	-0.867	-0.037	1.44927632709456e-23		0.787227093323352	
PA4270.1	P26	-2.05	0.206	2.26810269073796e-60		0.16027973773866	
PA4271	rplL	-1.923	-0.069	1.11460422789909e-44		0.744228128520997	
PA4272	rplJ	-1.78	-0.133	6.65294879996569e-52		0.411864259360428	
PA4272.1	P27	-0.494	0.514	9.38498206115392e-05		6.68658615857448e-05	
PA4273	rplA	-1.352	-0.204	8.02118763807506e-21		0.286931435404204	

PA4274	rplK	-1.488	-0.117	3.56076288411582e-19	0.634358998176168
PA4275	nusG	-1.901	0.381	6.31014209006928e-63	0.00339041235743168
PA4276	secE	-2.727	0.187	6.0347412953311e-85	0.311245373228296
PA4276.1	PA4276.1	-2.139	0.234	3.31189820743559e-34	0.311194150280745
PA4277	tufB	-1.075	0.009	8.17111286646882e-34	0.953013734081168
PA4277.1	PA4277.1	-2.899	0.413	1.75687913381199e-68	0.0308957324416917
PA4277.2	PA4277.2	-2.971	0.682	4.06949500253761e-51	0.00149142095290743
PA4277.3	PA4277.3	-2.769	0.419	1.33323116056604e-37	0.120344413906668
PA4278	PA4278	-0.186	-0.082	0.22545259845959	0.713116614106503
PA4279	PA4279	0.205	-0.036	0.176685284649045	0.879177455116906
PA4280	birA	-0.236	0.108	0.123682236196751	0.61737617007052
PA4280.1	PA4280.1	0.646	1.051	0.0221465691954348	0.000688513636234001
PA4280.2	PA4280.2	0.764	-0.516	NA	NA
PA4280.3	PA4280.3	-1.99	0.488	1.04130976875774e-34	0.00922305035778761
PA4280.4	PA4280.4	-1.38	0.646	4.70926771860526e-10	0.0118106157145743
PA4280.5	PA4280.5	0.594	-0.627	0.405605149935201	0.512825145201378
PA4281	sbcD	-0.15	-0.184	0.324234313426294	0.34563673969718
PA4282	PA4282	-0.246	-0.218	2.99778264085836e-05	0.000950871171142459
PA4283	recD	0.472	0.321	0.00342457755330507	0.10480797793146
PA4284	recB	0.47	0.192	3.615097158936e-05	0.185216777718296
PA4285	recC	0.272	0.172	0.00221821633366027	0.116948838920919
PA4286	PA4286	-0.066	0.462	0.685601641548074	0.0087128066371296
PA4287	PA4287	0.717	0.076	0.114737561183384	0.91582091391408
PA4288	PA4288	0.047	-0.424	0.757265927167826	0.0133065312388842
PA4289	PA4289	0.151	0.154	0.226065141387261	0.335781163159842
PA4290	PA4290	0.789	0.48	4.54190782280694e-05	0.0375686990281228
PA4291	PA4291	-1.553	0.339	5.40341401188404e-52	0.00299048649239015
PA4292	PA4292	-1.993	0.091	2.27163561104875e-52	0.61867713216675
PA4293	pprA	3.475	0.886	7.74968222735925e-132	7.01424696469595e-09
PA4294	PA4294	2.687	0.979	2.19510700346351e-80	8.96754380193121e-11
PA4295	fppA	0.371	0.338	0.0806103165149984	0.203486949828454
PA4296	pprB	1.585	0.207	2.12061055501915e-31	0.247492480144156
PA4297	tadG	3.568	0.49	1.56881245248615e-88	0.0229881303822652
PA4298	PA4298	3.534	0.85	3.86125186375233e-63	0.000449189056397643
PA4299	tadD	3.392	0.685	6.30277889246115e-85	0.000571197044358824
PA4300	tadC	2.8	0.737	1.34954044734801e-49	0.000620954835599991
PA4301	tadB	2.455	0.787	3.55494370870859e-57	3.40393133139203e-06
PA4302	tadA	2.928	0.719	1.50214892337454e-61	0.000330332215295648
PA4303	tadZ	2.839	0.81	2.16994922278148e-64	1.23000775429693e-05
PA4304	rcpA	2.773	0.8	3.499618111115393e-67	5.5558632168519e-06
PA4305	rcpC	2.627	0.911	1.72670845328093e-77	1.39167673946764e-09
PA4306	flp	3.74	0.934	5.6525159383684e-72	5.784029206635e-05
PA4307	pctC	0.59	-0.015	1.23230762696555e-09	0.9219771212644
PA4308	PA4308	-0.444	-0.495	6.90470841895813e-06	3.1914750307968e-06
PA4309	pctA	1.369	0.171	2.10213563424e-24	0.34563673969718
PA4310	pctB	0.785	-0.039	6.61933737623359e-10	0.849444927191994
PA4311	PA4311	2.225	-0.003	1.93537349599397e-75	0.988829907509972
PA4312	PA4312	1.602	0.442	6.14179628512899e-32	0.00538850708711887
PA4313	PA4313	0.982	0.573	2.14637531417022e-16	1.32277995568892e-05
PA4314	purU1	-0.662	-0.154	1.50912058166118e-15	0.136256684949899

PA4315	mvaT	1.093	-0.122	3.65537297521666e-18	0.492908823842797
PA4316	sbcB	-0.638	-0.032	1.32009191791574e-33	0.680923693367964
PA4317	PA4317	-1.718	-0.322	1.34365510477774e-17	0.21422005197788
PA4318	PA4318	-1.619	-0.069	4.45834094480833e-32	0.735559539466944
PA4319	PA4319	-1.488	-0.029	1.58306499782159e-39	0.866650873627049
PA4320	PA4320	-1.152	0.055	2.5208253194011e-35	0.686646676470046
PA4321	PA4321	-1.422	-0.117	7.5434927726539e-26	0.526531753771708
PA4322	PA4322	-1.213	-0.319	3.83541138489172e-20	0.0406014516620469
PA4323	PA4323	-1.345	0.02	5.87770929315227e-25	0.922375780555513
PA4324	PA4324	-0.916	0.089	7.28703627794517e-11	0.672077745652453
PA4325	PA4325	-0.243	0.6	0.0531029428432884	5.20508581717226e-06
PA4326	PA4326	1.802	0.378	1.70571809464235e-41	0.0182349206708844
PA4327	PA4327	-0.184	-0.192	0.0152230436404001	0.0303427553203548
PA4328	PA4328	1.32	0.256	4.05622705098113e-66	0.00495207923145581
PA4329	pykA	-0.1	-0.212	0.206293989361659	0.0186706446256307
PA4330	PA4330	0.504	-0.156	2.74070732569674e-06	0.27337022188185
PA4331	PA4331	0.758	0.38	6.42291956701679e-07	0.0367300149102169
PA4332	sadC	0.271	0.042	0.0173135138614173	0.813647021473642
PA4333	PA4333	0.11	0.117	0.335877134944605	0.43503705331025
PA4334	PA4334	-0.37	0.098	1.65600621062712e-05	0.383113011620502
PA4335	PA4335	-0.514	-0.533	0.00141010076501913	0.00347400375671464
PA4336	PA4336	-0.175	-0.322	0.229682291818084	0.0583129424590147
PA4337	PA4337	1.539	0.144	2.13980612320789e-43	0.367887023637656
PA4338	PA4338	1.131	0.073	5.90692237762524e-23	0.677698995795013
PA4339	PA4339	1.028	0.412	3.425130998842e-11	0.026540430262561
PA4340	PA4340	0.113	0.035	0.138803406184066	0.758071417438136
PA4341	PA4341	2.595	0.092	1.71541645161099e-65	0.715322790767632
PA4342	PA4342	0.714	0.017	8.48965239716302e-08	0.938642603978266
PA4343	PA4343	0.874	-0.019	8.72455709437694e-09	0.940507384024878
PA4344	PA4344	1.413	0.19	2.34680407669352e-17	0.414516712562546
PA4345	PA4345	0.471	0.067	0.00470904991946007	0.793432393079988
PA4346	PA4346	0.373	0.321	0.0766358981337113	0.22642059707864
PA4347	PA4347	-0.965	0.056	6.4192645766137e-16	0.755871971837834
PA4348	PA4348	3.027	-0.071	3.87556433064756e-160	0.708359038260582
PA4349	PA4349	0.528	0.152	0.000378830966226682	0.456542120251136
PA4350	olsB	0.528	0.296	7.44293682793879e-05	0.0731058701845536
PA4351	olsA	1.429	0.662	5.58962966047573e-07	0.0747964297815165
PA4352	PA4352	4.059	0.029	3.9021897248504e-97	0.92899162158052
PA4353	PA4353	0.129	0.195	0.343356399348777	0.249947565931798
PA4354	PA4354		-1 -1.46	1.06537960266842e-13	3.50789602333437e-24
PA4355	pyeM	-1.718	-1.473	8.86233916878657e-19	2.54566111430656e-14
PA4356	xenB	-2.307	-2.245	1.31995663508934e-89	2.31226523107751e-85
PA4357	PA4357	0.861	0.29	0.000509960039293415	0.40600407052112
PA4358	PA4358	0.259	0.208	0.00579090887364067	0.0650892687629456
PA4359	PA4359	0.994	0.282	0.0134122813087822	0.644837868070098
PA4360	PA4360	-0.703	-0.097	8.54542089270964e-13	0.472753634007638
PA4361	PA4361	0.551	-0.094	1.59748459450218e-13	0.364838565010296
PA4362	PA4362	1.107	0.204	4.36346545647907e-11	0.369258805829798
PA4363	iciA	0.221	0.107	0.108063827947266	0.579128498912052
PA4364	PA4364	1.239	-0.364	0.0123120205127357	0.610732268045118

PA4365	PA4365	4.007	0.367	9.99860758996852e-14	0.65231272185417
PA4366	sodB	0.65	0.136	1.98102523038157e-08	0.387397865817105
PA4367	bifA	0.219	-0.071	0.0183651743277666	0.591458115376159
PA4368	PA4368	0.616	0.214	6.12687570911408e-09	0.10588255082022
PA4369	PA4369	0.134	0.196	0.409148701303759	0.34374476811863
PA4370	icmP	-3.948	-0.268	1.04454456452014e-292	0.0373249562671164
PA4371	PA4371	-4.165	0.45	2.13749995213242e-288	8.95277062849677e-07
PA4372	PA4372	-2.212	0.082	4.30898654819727e-103	0.569408221488586
PA4373	PA4373	-2.007	0.112	7.73745542714294e-85	0.415926466814832
PA4374	mexV	-1.642	0.018	9.98174113071938e-77	0.895102047566898
PA4375	mexW	-1.267	-0.065	2.77424908052505e-43	0.625531589685544
PA4376	pncB2	-0.323	-0.095	0.000126083922658927	0.405485553765554
PA4377	PA4377	2.383	1.407	1.33350729651404e-50	1.64362490930484e-17
PA4378	inaA	0.199	0.209	0.0440137129432733	0.0765117876118892
PA4379	PA4379	-0.122	0.374	0.257209761987127	0.00134302629730277
PA4380	colS	0.311	0.054	0.00972472494016667	0.768481296416319
PA4381	colR	0.615	0.027	3.11193423341993e-07	0.888751941692462
PA4382	PA4382	0.542	0.315	0.0472983756687714	0.391976614058407
PA4383	PA4383	0.063	0.392	0.703110112399699	0.0330729933063707
PA4384	PA4384	0.53	-0.528	2.87371846383635e-08	5.06566958213206e-07
PA4385	groEL	-1.832	-0.315	6.94982691682559e-53	0.0286914998406194
PA4386	groES	-2.267	-0.312	3.50511976430509e-65	0.0521594783680036
PA4387	PA4387	-0.601	-0.141	7.55004571505942e-10	0.261819172380339
PA4388	PA4388	-0.842	-0.252	1.21417882357579e-20	0.0165234322491988
PA4389	PA4389	-1.863	-0.231	6.43788269393518e-99	0.0255982880746691
PA4390	PA4390	-3.903	-0.848	1.34529425681406e-227	2.39705298325659e-12
PA4391	PA4391	-1.33	-0.081	2.00144334085392e-16	0.718031379699503
PA4392	PA4392	-0.176	-0.28	0.0631216216397021	0.00922305035778761
PA4393	ampG	-0.764	0.094	2.00570678131624e-27	0.305602449951417
PA4394	PA4394	0.41	-0.342	0.0122245960735055	0.0862284191805767
PA4395	PA4395	-0.061	0.173	0.583062006270895	0.193292087051401
PA4396	PA4396	-2.178	-0.157	3.5381315607034e-74	0.280927924035797
PA4397	panE	0.824	0.231	2.34815220450119e-11	0.139792878170431
PA4398	PA4398	-0.443	-0.075	3.35774238892456e-07	0.536531590732046
PA4399	PA4399	-0.046	-0.306	0.667871578870128	0.00870941875461218
PA4400	mutT	0.355	-0.313	3.6921921228931e-09	2.49505833673356e-06
PA4401	PA4401	0.458	-0.156	3.92543523965967e-09	0.111262766598392
PA4402	argJ	-0.663	0.05	0.00063727965543414	0.872538257204222
PA4403	secA	-1.295	0.04	3.9786171303623e-52	0.764414034896807
PA4404	PA4404	-2.366	-0.183	6.39680794533192e-86	0.206330252570886
PA4405	PA4405	-0.588	0.474	5.7293375677872e-09	1.15124769958631e-05
PA4406	lpxC	-0.806	0.122	1.93630886740162e-14	0.39705770860577
PA4406.1	PA4406.1	0.888	-0.017	1.01256083912699e-08	0.947692607749849
PA4407	ftsZ	1.502	-0.047	1.88235476701186e-27	0.831129403812671
PA4408	ftsA	0.374	0.053	4.57836471579214e-07	0.629274590251565
PA4409	ftsQ	0.417	-0.011	3.4520349670846e-06	0.938642603978266
PA4410	ddlB	0.575	0.115	1.29015414150236e-14	0.237339014789442
PA4411	murC	0.343	0.172	6.9178642717395e-05	0.106900797017902
PA4412	murG	0.532	0.432	7.6418175505174e-07	0.000307203345313859
PA4413	ftsW	0.321	0.382	2.33614464097723e-05	2.89620830955069e-06

PA4414	murD	0.223	0.152	0.00866790110354755	0.151899258786424
PA4415	mraY	0.311	0.197	0.000355126113377158	0.0613091807027567
PA4416	murF	0.704	0.259	3.13452442449795e-12	0.0328046004730014
PA4417	murE	0.37	0.278	0.000164800454182688	0.014906531223726
PA4418	ftsI	0.179	0.238	0.0193132762962676	0.0060876588856765
PA4419	ftsL	0.552	0.284	4.57196038060954e-09	0.00973674869407726
PA4420	PA4420	0.368	0.203	1.25181529536858e-05	0.04357552600207
PA4421	PA4421	0.364	0.369	0.0148093979729452	0.0353346816132703
PA4421.1	rnpB	1.514	-0.436	0.0018581929309655	0.520337603312303
PA4422	PA4422	-1.029	-0.009	6.89082172067147e-32	0.950077947644819
PA4423	PA4423	-0.902	-0.107	3.5810635038245e-19	0.443277756619251
PA4424	PA4424	-0.6	0.297	2.31960229994645e-07	0.0282078001390874
PA4425	PA4425	-0.537	-0.287	3.72774703789042e-20	5.53296353988598e-06
PA4426	PA4426	-0.023	-0.19	0.822323234927839	0.101259761443973
PA4427	sspB	-0.434	-0.14	1.55094473975838e-05	0.283566935558615
PA4428	sspA	0.516	0.41	0.000123592329290139	0.00838691181797628
PA4429	PA4429	2.748	-0.257	4.3332136082154e-110	0.103098312297826
PA4430	PA4430	2.933	-0.34	1.71946768699499e-110	0.034228235051342
PA4431	PA4431	1.778	-0.497	2.71201346627767e-45	0.000572531515398353
PA4432	rpsI	-1.962	0.102	8.25246082613534e-95	0.438124872617184
PA4433	rplM	-1.565	-0.169	4.72327119914342e-48	0.225003100906082
PA4434	PA4434	-0.564	-0.461	1.04122930522041e-12	4.33940803231659e-08
PA4435	PA4435	0.101	-0.316	0.326955435286359	0.00578997760719556
PA4436	PA4436	0.155	0.12	0.167575312239498	0.419600073957099
PA4437	PA4437	1.918	0.353	3.7561036174099e-50	0.0384464852146789
PA4438	PA4438	-3.144	0.283	7.9143856810103e-203	0.00212437701507398
PA4439	trpS	-1.253	-0.129	5.79747454211412e-20	0.501043746812814
PA4440	PA4440	-1.294	0.002	3.15652107479847e-64	0.985565965654516
PA4441	PA4441	-1.563	0.341	1.63284152756825e-68	0.000672151161526818
PA4442	cysN	-3.348	-2.723	1.02757278324043e-231	1.46158937183421e-156
PA4443	cysD	-4.644	-3.346	7.25538714029884e-186	1.00832378572231e-99
PA4444	mltB1	-0.001	-0.274	0.986690321182921	0.00206757278068717
PA4445	PA4445	-0.572	-0.25	9.61073890349539e-10	0.02122235424794
PA4446	algW	-0.537	0.215	2.03767347533546e-14	0.00791603445062469
PA4447	hisC1	0.069	-0.166	0.565890450752171	0.267706951236875
PA4448	hisD	-0.474	-0.094	0.000266203523094823	0.61606795109166
PA4449	hisG	-1.888	-0.159	6.92193824585937e-64	0.27228480128085
PA4450	murA	-1.554	-0.198	5.71663646774522e-87	0.0349960436246432
PA4451	PA4451	-2.266	-0.066	5.61420138056111e-83	0.699670306516588
PA4451.1	P35	-0.588	1.278	0.277979528457754	0.00783997833254746
PA4452	PA4452	0.239	0.555	0.102659446044892	0.000469170551210529
PA4453	PA4453	0.339	-0.198	0.00588153021037858	0.203486949828454
PA4454	PA4454	-0.655	0.046	5.39385957677323e-12	0.749561073283848
PA4455	PA4455	-0.712	0.287	1.79536863501903e-13	0.00886096446729434
PA4456	PA4456	-0.866	0.355	1.06388222688697e-23	0.000165441981060746
PA4457	PA4457	-1.042	-0.014	7.5173226392725e-39	0.912557498735196
PA4458	PA4458	-0.78	0.111	5.22804736008211e-33	0.169946559882724
PA4459	lptC	-0.853	-0.142	6.72465937782554e-15	0.330701162679865
PA4460	lptH	-0.568	-0.121	1.4339770831551e-10	0.304119147136714
PA4461	lptB	-0.567	-0.048	9.98043427107041e-11	0.718692886648746

PA4462	rpoN	0.413	-0.151	0.000271801694085058	0.315793817133636
PA4463	PA4463	1.49	-0.042	7.53986489886255e-20	0.875344297836418
PA4464	ptsN	-0.22	-0.149	0.0121238632848697	0.174961716602699
PA4465	PA4465	-0.477	-0.308	1.68954447329912e-05	0.0174598945068163
PA4466	PA4466	-1.163	-0.003	3.96695464757744e-42	0.98434178340702
PA4467	PA4467	-7.558	-0.156		0 0.0842079988249402
PA4468	sodM	-8.209	-0.35		0 0.00195459488586075
PA4469	PA4469	-8.645	-0.145		0 0.158045808783116
PA4470	fumC1	-8.523	-0.253		0 0.0107057456261903
PA4471	PA4471	-9.481	-0.051		0 0.691839255828792
PA4472	pmbA	0.894	0.121	1.06901185118194e-29	0.245315187205581
PA4473	PA4473	-0.92	0.033	8.77859410019553e-13	0.873870369639498
PA4474	PA4474	0.793	0.01	1.8457698017303e-34	0.926142399134448
PA4475	PA4475	0.989	0.33	1.31083718909902e-17	0.0158515942253552
PA4476	PA4476	0.177	0.011	0.002990771945673	0.906083553974784
PA4477	cafA	0.688	-0.118	1.3808744772622e-13	0.346601317178856
PA4478	PA4478	0.552	0.085	1.99846893571146e-09	0.515017157675974
PA4479	mreD	-1.746	0.231	2.10456448616193e-18	0.328593654990291
PA4480	mreC	-1.166	0.13	2.54474307746302e-16	0.501043746812814
PA4481	mreB	-1.787	0.129	9.67935942976726e-47	0.449579282140703
PA4482	gatC	-2.492	-0.028	2.9969151724583e-112	0.866650873627049
PA4483	gatA	-2.232	0.091	2.3071432499386e-62	0.644561937077388
PA4484	gatB	-2.211	-0.09	1.29187940336518e-42	0.711858309459934
PA4485	PA4485	-1.817	-0.04	1.33144100167667e-38	0.832813886663509
PA4486	PA4486	-0.2	-0.266	0.0613988492747272	0.0328046004730014
PA4487	magF	-0.72	-0.446	5.05215232571389e-07	0.00679367574652129
PA4488	magE	-0.853	0.03	4.22487080293855e-14	0.867610660601695
PA4489	magD	-0.777	-0.234	1.43956479959258e-22	0.0121401942379189
PA4490	magC	-1.059	-0.418	3.62775600879708e-24	0.000301050278431473
PA4491	magB	-0.761	-0.204	3.90742718491725e-17	0.0646057794482508
PA4492	magA	-0.993	0.22	1.76606492838707e-20	0.0955762381578858
PA4493	roxR	0.592	0.052	2.16139907318815e-17	0.61078570977437
PA4494	roxS	-0.203	0.311	0.0546594291600052	0.00923526017781934
PA4495	PA4495	0.803	-0.092	2.43707114890167e-08	0.66742489123664
PA4496	PA4496	2.084	-0.213	7.9283045685279e-34	0.365383261125811
PA4497	PA4497	2.016	-0.14	1.96059212882071e-17	0.701160613514248
PA4498	mdpA	1.37	0.632	1.08068704778514e-38	3.00502688301202e-08
PA4499	psdR	0.48	0.123	0.000230802533474863	0.505013651160439
PA4500	PA4500	1.296	0.586	1.38118090145047e-31	1.15571778633405e-06
PA4501	opdD	2.625	0.262	3.26968005184574e-57	0.253151266056229
PA4502	PA4502	1.206	-0.05	7.98950620225522e-18	0.826192917928414
PA4503	PA4503	2.075	0.153	1.76445604947276e-180	0.119747906115545
PA4504	PA4504	2.902	0.021	7.51911400568504e-103	0.92899162158052
PA4505	PA4505	2.826	0.143	3.12569266093068e-81	0.510344297768625
PA4506	PA4506	2.773	0.096	5.90357179983348e-66	0.706510423914987
PA4507	PA4507	3.397	0.295	NA	NA
PA4508	PA4508	0.3	-0.105	0.109681386434637	0.706179855624291
PA4509	PA4509	0.395	0.093	0.000490278311656669	0.56955604030483
PA4510	PA4510	-0.171	-0.236	0.0755773556527696	0.0354444172490047
PA4511	PA4511	-0.326	-0.075	0.000132878259561403	0.52752670022972

PA4512	lpxO1	-2.357	0.03	4.65633386741698e-126	0.836618702472155
PA4513	PA4513	-3.055	-0.619	2.26852909840693e-234	1.9670804678804e-13
PA4514	PA4514	-1.797	-0.302	6.24130142040484e-42	0.0536554623835209
PA4515	PA4515	-5.14	0.332	2.25998779428141e-205	0.0332475296520926
PA4516	PA4516	-3.419	0.433	2.16578540863393e-194	0.000131425661673951
PA4517	PA4517	-2.448	0.301	7.09619829569336e-36	0.171210275902903
PA4518	PA4518	-0.249	-0.23	0.0607562388386927	0.161095805706231
PA4519	speC	0.93	-0.407	2.77631815388443e-19	0.000532284423780503
PA4520	PA4520	2.837	0.339	3.56767760767258e-113	0.0258376316825318
PA4521	ampE	-0.56	0.169	4.26115841164654e-06	0.286193495935523
PA4522	ampD	-0.538	-0.108	6.77058089265816e-07	0.463760294283001
PA4523	PA4523	0.04	0.412	0.776265767633862	0.00612188626326161
PA4524	nadC	0.233	0.065	0.000422048168889695	0.4827955973733
PA4524.1	PA4524.1	0.639	0.546	0.000252462787459837	0.00632513109495175
PA4525	pilA	0.748	0.256	0.000185746673745424	0.335261339141539
PA4526	pilB	0.387	-0.157	0.000225684652777068	0.248032111000833
PA4527	pilC	-0.26	-0.081	0.0327090695259346	0.644837868070098
PA4528	pilD	-1.332	0.108	3.03693812879642e-37	0.43503705331025
PA4529	coaE	-0.358	0.081	0.0024990280396039	0.634358998176168
PA4530	PA4530	-0.154	-0.182	0.154542731951169	0.171475941372969
PA4531	PA4531	0.318	0.313	0.0126218029527064	0.0370219399285813
PA4532	PA4532	-0.6	0.214	4.09366985610412e-07	0.144681858223293
PA4533	PA4533	-0.137	0.069	0.277303265561014	0.704680726646628
PA4534	PA4534	-0.64	0.141	6.68066785833365e-08	0.370888278419118
PA4535	PA4535	0.617	0.136	2.88810464280973e-08	0.367599912620826
PA4536	PA4536	1.096	-0.111	1.25427911423629e-20	0.512825145201378
PA4537	PA4537	-0.754	0.247	4.41366698300026e-16	0.0192276269086472
PA4538	ndh	-0.091	-0.016	0.220098389031923	0.886983976297238
PA4539	PA4539	-0.656	0.295	2.19389928640892e-14	0.00219990859713821
PA4540	PA4540	0.183	0.176	0.415577772286092	0.568779117885671
PA4541	lepA	0.221	0.194	0.00782114467095909	0.0491113137388498
PA4541.1	PA4541.1	-3.243	0.103	3.23845885236863e-60	0.703410792176504
PA4541.2	PA4541.2	-3.441	0.605	4.08584003478296e-36	0.0499567580533453
PA4541.3	PA4541.3	-1.978	0.807	1.50808300476697e-24	5.25390230495523e-05
PA4542	clpB	-0.548	-0.178	3.99588979472272e-13	0.0500918531206233
PA4543	PA4543	-1.237	0.519	7.08142503020639e-11	0.0178370004798558
PA4544	rluD	-1.596	0.059	7.90682868418711e-107	0.55664729917571
PA4545	comL	-1.906	0.165	3.37621211425638e-33	0.451421606572143
PA4546	pilS	-1.007	0.012	1.02552333882244e-36	0.920462276574913
PA4547	pilR	0.086	-0.183	0.314481676100755	0.0683581722089366
PA4548	PA4548	-0.089	0.039	0.556135336386862	0.865865073171806
PA4549	fimT	0.269	-0.111	0.241260514260105	0.747272670944546
PA4550	fimU	-1.018	0.231	7.39027908161751e-14	0.178908977499365
PA4551	pilV	-0.642	0.028	1.70818079278278e-07	0.884378874733094
PA4552	pilW	-0.342	0.045	0.00564562816367838	0.813677771027381
PA4553	pilX	-0.333	-0.012	0.00738680615875173	0.950602892334624
PA4554	pilY1	-0.418	0.072	3.17561123563339e-06	0.577706649937418
PA4555	pilY2	-0.292	-0.05	0.0303766896534523	0.809921222202466
PA4556	pilE	0.067	-0.021	0.539830819468208	0.902078946828986
PA4557	lytB	-0.711	-0.044	2.80914994824896e-14	0.757451465279189

PA4558	PA4558	-0.561	0.031	2.02469226962943e-06	0.87057639478587
PA4559	lspA	-0.991	-0.044	1.01001708044364e-25	0.755443244786612
PA4560	ileS	-0.536	0.003	4.3207262800513e-11	0.983449904406688
PA4561	ribF	-1.323	-0.005	7.89601888837258e-58	0.973127854218758
PA4562	PA4562	-0.949	0.067	3.25485183433209e-25	0.601822922872013
PA4563	rpsT	-2.12	-0.188	1.3031554273828e-45	0.348986658163812
PA4564	PA4564	0.223	-0.03	0.0329053905528112	0.858487162293809
PA4565	proB	-0.103	0.097	0.242487076250429	0.39705770860577
PA4566	obg	-0.272	-0.097	6.60145294590854e-05	0.275734890856588
PA4567	rpmA	-0.01	-0.132	0.944924662858614	0.463143199345374
PA4568	rplU	-1.405	-0.059	6.10823760597926e-32	0.745689396802828
PA4569	ispB	-0.82	-0.013	1.01356186325928e-15	0.938642603978266
PA4570	PA4570	-9.36	-0.655		0 1.6298494202917e-08
PA4571	PA4571	0.734	-1.188	3.77772511354576e-07	3.27293066382109e-14
PA4572	fkfB	2.13	0.342	1.06675650965289e-83	0.00877009950463675
PA4573	PA4573	2.409	0.427	4.99009960149578e-72	0.00685415257964872
PA4574	PA4574	-0.821	0.046	2.84024575398034e-06	0.867408862012556
PA4575	PA4575	2.264	0.575	3.0466224188778e-38	0.00518957967165744
PA4576	PA4576	-0.437	-0.163	2.05423197524869e-09	0.0678120756928201
PA4577	PA4577	2.471	0.314	1.4276676407147e-76	0.0647826226413441
PA4578	PA4578	0.359	-0.308	0.000606892438455792	0.0111278494467393
PA4579	PA4579	-0.816	-0.472	1.73164130499397e-11	0.000494923675979735
PA4580	PA4580	-0.497	-0.056	3.24983530593536e-05	0.75612394728057
PA4581	rtcR	0.43	0.065	3.60502998630739e-07	0.60254392051347
PA4581.1	PA4581.1	0.253	-0.911	0.15589687247953	9.43537405108721e-07
PA4582	PA4582	-0.23	-0.482	0.0417653894062327	9.20269583642786e-05
PA4583	PA4583	-0.268	-0.626	0.0130184505387249	4.60072209985289e-08
PA4584	PA4584	-0.317	-0.439	0.000721294923386697	1.69294075322285e-05
PA4585	rtcA	-0.293	-0.187	0.0905253606439897	0.413432117314071
PA4586	PA4586	-0.814	-0.462	0.00691579641190623	0.196758534961298
PA4587	ccpR	5.335	0.101	2.10227679603594e-194	0.761316787725311
PA4588	gdhA	0.251	-0.255	0.0657596302155013	0.127552988858089
PA4589	PA4589	0.497	0.011	2.40557531762055e-05	0.955735247421397
PA4590	pra	4.907	-0.528		0 1.22750767201062e-06
PA4591	PA4591	1.589	-0.091	6.05433481710713e-34	0.657886138007396
PA4592	PA4592	1.588	-0.314	5.81246989484187e-34	0.0673168722925704
PA4593	PA4593	1.281	-0.128	6.07058925121338e-28	0.475781355567916
PA4594	PA4594	0.472	0.171	3.38709740475588e-08	0.110560400605588
PA4595	PA4595	-0.157	-0.393	0.056411819878501	6.99883331281058e-06
PA4596	esrC	2.053	0.22	1.3160191673638e-18	0.554507477244542
PA4597	oprJ	0.328	0.291	0.0362146430864536	0.128365207720703
PA4598	mexD	0.081	0.473	0.459348156965309	1.73288974285682e-05
PA4599	mexC	0.321	-0.044	0.145270927580662	0.900919698108037
PA4600	nfxB	-0.195	-0.333	0.0936845386972987	0.0119362276436005
PA4601	morA	-1.103	0.419	2.69675393961418e-54	2.53270556019237e-08
PA4602	glyA3	-0.684	-0.089	1.17411893669892e-10	0.555961958056861
PA4603	PA4603	1.675	0.76	1.7293447613448e-51	2.24343649244646e-10
PA4604	PA4604	1.139	0.2	8.15242365892992e-37	0.0756962080144229
PA4605	PA4605	2.192	0.366	6.86114883935679e-94	0.00341921479946652
PA4606	PA4606	2.515	0.286	7.8606854273332e-178	0.00589977751294952

PA4607	PA4607	2.31	0.05	4.6329605928262e-63	0.822852561343249
PA4608	PA4608	1.757	-0.02	1.31229200106289e-78	0.897807642982476
PA4609	radA	-1.028	-0.009	1.76994615827832e-23	0.955417148842163
PA4610	PA4610	2.726	0.138	1.03033225782765e-23	0.761442735514413
PA4611	PA4611	2.753	0.261	3.09144975786587e-57	0.25240487936368
PA4612	PA4612	0.488	-0.053	7.77864875811575e-05	0.787227093323352
PA4613	katB	-0.483	-0.401	0.000130604300696341	0.00518957967165744
PA4614	mscL	0.957	-0.671	1.72958967389956e-11	1.68739667934817e-05
PA4615	fprB	-2.816	0.699	2.50768274099327e-183	1.91165339220592e-12
PA4616	PA4616	-2.09	-0.373	2.1277903868259e-39	0.0268224991904313
PA4617	PA4617	-0.607	0.232	2.44592169971239e-08	0.0747964297815165
PA4618	PA4618	-0.049	0.147	0.73089391220824	0.416445909364157
PA4619	PA4619	0.146	0.161	0.285869703792457	0.36264330882285
PA4620	PA4620	1.601	-0.123	6.78568171095362e-17	0.705563620529437
PA4621	PA4621	1.532	0.328	5.17760588710271e-35	0.0330683866019833
PA4622	PA4622	-2.184	0.202	2.27244298316314e-38	0.179192667291944
PA4623	PA4623	-0.574	0.012	9.10354063447219e-05	0.955000729639505
PA4624	cdrB	1.428	-0.241	6.50309387274809e-27	0.159057499710848
PA4625	cdrA	0.982	-0.537	5.23001958578926e-05	0.0686717239787167
PA4626	hprA	-0.506	0.075	3.66852002327312e-06	0.632146310673322
PA4627	PA4627	-1.196	0.553	4.32277020758154e-17	0.000139459381460159
PA4628	lysP	-1.379	0.255	1.3376980598979e-20	0.131750207730068
PA4629	PA4629	-1.344	-0.003	4.09991132851314e-17	0.990663198184721
PA4630	PA4630	0.153	0.344	0.142275104514571	0.00279991274007747
PA4631	PA4631	-1.103	0.116	3.32020393324036e-13	0.596928466584304
PA4632	PA4632	-0.254	-0.383	0.0577685814526078	0.0119324176572623
PA4633	PA4633	2.078	0.107	1.47310239566219e-58	0.569728017413642
PA4634	PA4634	-0.148	0.345	0.164202829693538	0.00238724334035333
PA4635	PA4635	1.993	-0.33	2.43127509598278e-35	0.135251735359406
PA4636	PA4636	-1.918	-0.08	3.7395810201195e-66	0.613163145144381
PA4637	PA4637	-1.717	0.906	5.0113561917899e-27	3.87741560185533e-08
PA4638	PA4638	1.473	0.088	8.91115879412806e-06	0.87142867065229
PA4639	PA4639	0.013	-0.36	0.924586894514072	0.0200804353453494
PA4640	mqqB	-1.005	-0.208	2.29202190085385e-10	0.327321519244147
PA4642	PA4642	-0.886	0.401	7.50267473817253e-22	1.72841009185333e-05
PA4643	PA4643	-0.426	0.147	1.15040141402858e-05	0.233467259727899
PA4644	PA4644	0.113	0.08	0.486746443408682	0.731860970066386
PA4645	PA4645	-0.146	-0.167	0.280902033493322	0.335291994030161
PA4646	upp	1.644	-0.116	3.39559559918649e-82	0.328360419037879
PA4647	uraA	1.121	0.21	3.32683277276655e-43	0.0348194737733657
PA4648	cupE1	3.536	0.414	1.67826911087618e-61	0.126999282303695
PA4649	cupE2	3.377	0.344	2.0473498886103e-62	0.194702261311757
PA4650	cupE3	2.838	0.284	1.75992800568574e-28	0.433267848265356
PA4651	cupE4	3.594	0.414	4.95995017652977e-71	0.105655847573105
PA4652	cupE5	3.097	0.171	5.90042237562991e-37	0.64071048733099
PA4653	cupE6	3.215	0.057	6.83325905655351e-72	0.848295330469232
PA4654	PA4654	1.87	0.229	4.34682624341442e-28	0.356649299698897
PA4655	hemH	-0.353	-0.378	1.10752020174274e-08	6.87940055967712e-09
PA4656	PA4656	0.196	-0.519	0.00168705853524394	1.68572341843126e-15
PA4657	PA4657	-0.41	0.118	3.40213792217472e-05	0.371284612823787

PA4658	PA4658	1.128	0.273	4.94931801046062e-32	0.0190902332285005
PA4659	PA4659	0.795	0.204	2.11882180545681e-18	0.0805531552540008
PA4660	phr	0.504	0.351	1.08225001437122e-07	0.00105494817035872
PA4661	pagL	0.257	-0.289	0.0119288518352063	0.0141815015599503
PA4662	murl	0.228	0.09	0.0480951015597619	0.58022479998906
PA4663	moeB	0.452	0.302	9.45199974204875e-06	0.0109682435417875
PA4664	prmC	-1.137	0.174	4.8623478991112e-19	0.28048193721086
PA4665	prfA	-1.598	-0.081	1.02414003779319e-19	0.761860205589629
PA4666	hemA	-1.996	0.155	6.95536497812579e-102	0.162616540958013
PA4667	PA4667	-0.807	0.071	2.78096264629591e-47	0.341967278026734
PA4668	PA4668	-1.127	0.05	4.04314652322696e-31	0.726427894009252
PA4669	ipk	-1.601	0.29	1.02463006585723e-28	0.105655847573105
PA4669.1	PA4669.1	-2.247	0.137	1.42469696088346e-26	0.66274810628629
PA4670	prs	-3.028	0.07	3.03952116447094e-125	0.713707475879797
PA4671	PA4671	-2.622	-0.209	4.73262844043957e-61	0.330407782749697
PA4672	PA4672	-2.769	0.022	5.26421708225922e-65	0.929262350069173
PA4673	PA4673	-2.173	0.132	5.10766885717058e-75	0.39376511422734
PA4673.1	PA4673.1	-2.659	0.523	4.6569811630464e-07	0.209823607371604
PA4674	PA4674	1.329	-0.169	5.20421103298139e-09	0.610978123998828
PA4675	chtA	-2.917	-0.428	9.86034180926648e-94	0.0042858846980888
PA4676	PA4676	1.14	0.147	2.97643535521501e-58	0.106640656710793
PA4677	PA4677	0.701	0.193	2.6683182823661e-12	0.12689353939569
PA4678	rimI	-0.955	0.109	1.508879513748e-16	0.464129881648071
PA4679	PA4679	-0.774	0.456	0.000206756722945573	0.0686717239787167
PA4680	PA4680	4.909	0.4	2.58771235886179e-286	0.0385725756352371
PA4681	PA4681	4.204	0.125	1.64846573263739e-206	0.561087796123156
PA4682	PA4682	3.421	0.164	1.24459552062186e-162	0.355653664748976
PA4683	PA4683	0.039	0.488	0.845227971093563	0.0260819630482576
PA4684	PA4684	-1.799	-0.023	6.46620721487121e-49	0.900919698108037
PA4685	PA4685	-2.34	-0.314	9.19676610161905e-42	0.0931912606896099
PA4686	PA4686	-1.526	-0.198	3.499477485828e-31	0.243409784023121
PA4687	hitA	-2.236	0.041	8.42784435288712e-140	0.761860205589629
PA4688	hitB	-3.077	0.305	5.8956174361125e-166	0.00792927347097185
PA4689	PA4689	0.704	0.17	2.91502739507771e-19	0.0805881874383159
PA4690.1	PA4690.1	0.646	1.051	0.0221465691954348	0.000688513636234001
PA4690.2	PA4690.2	0.755	-0.541	NA	NA
PA4690.3	PA4690.3	-1.99	0.488	1.04130976875774e-34	0.00922305035778761
PA4690.4	PA4690.4	-1.38	0.646	4.70926771860526e-10	0.0118106157145743
PA4690.5	PA4690.5	0.595	-0.627	0.405319658292292	0.512757268509979
PA4691	PA4691	0.723	-0.117	5.82740936213766e-11	0.454331367907468
PA4692	PA4692	0.865	-0.239	1.31522076281237e-27	0.0132109851479886
PA4693	pssA	-1.388	-0.256	5.80064802137436e-45	0.0291643251001722
PA4694	ilvC	0.593	-0.316	0.00387124722232819	0.227487558816645
PA4695	ilvH	0.35	-0.525	0.171828426297388	0.0853721307953523
PA4696	ilvI	0.774	-0.426	0.00457499209955012	0.220838656819576
PA4697	PA4697	0.8	-0.137	0.00014471413639516	0.659267271726566
PA4698	PA4698	-0.53	0.172	3.99278944940527e-09	0.115170127192553
PA4699	PA4699	0.119	-0.004	0.263205681265458	0.983504315042226
PA4700	mrcB	-0.292	0.327	4.77454032092738e-05	2.09738044965674e-05
PA4701	PA4701	-0.198	-0.017	0.0855811094608154	0.925555169594246

PA4702	PA4702	2.811	0.744	9.58376706272197e-66	5.32489707686001e-05
PA4703	PA4703	1.039	0.455	1.70283587517485e-24	6.05312267697636e-05
PA4704	cbpA	0.905	-0.34	2.29183359619346e-15	0.0123246405170335
PA4704.1	prfF1	NA	NA	NA	NA
PA4704.2	prfF2	NA	NA	NA	NA
PA4704.3	NA	-8.706	0.036	3.90751428470443e-88	0.919805300523169
PA4705	phuW	-0.796	-0.46	3.69363624182028e-17	6.01703659759792e-06
PA4706	phuV	-1.98	-0.307	3.03289814037451e-51	0.0429906503331258
PA4707	phuU	-2.788	-0.681	1.65043346712451e-156	2.18262287690427e-11
PA4708	phuT	-3.526	-0.866		0 3.21884826288249e-45
PA4709	phuS	-6.035	-0.927		0 1.61479933042849e-17
PA4710	phuR	-4.506	-1.46	5.23949950561884e-232	9.73726520052391e-27
PA4711	PA4711	-0.325	-0.129	0.0151585039317611	0.475064950460983
PA4712	PA4712	0.733	0.24	5.45414637214798e-11	0.0882885653637833
PA4713	PA4713	0.975	0.227	8.8367825960208e-24	0.0629423267417771
PA4714	PA4714	0.965	-0.15	9.29741583296161e-32	0.159256383075039
PA4715	PA4715	-1.027	-0.425	1.69899162701913e-21	0.000418921547266759
PA4716	PA4716	0.066	0.021	0.4605283630527	0.875922399909499
PA4717	PA4717	1.222	0.031	2.87923947339735e-103	0.723223357711133
PA4718	PA4718	-0.804	0.412	1.84849490183503e-10	0.00333114541825271
PA4719	PA4719	0.861	-0.007	3.07845958438404e-18	0.964639406813457
PA4720	trmA	0.665	0.081	5.94605037417028e-13	0.546724103554198
PA4721	PA4721	-0.855	0.023	1.33016082704563e-19	0.875479421608024
PA4722	PA4722	-1.016	0.018	8.10090414617288e-32	0.894443964519037
PA4723	dkSA	0.107	-0.068	0.367216956665963	0.693818145476999
PA4724	PA4724	-0.19	0.017	0.155789984467692	0.933889784861649
PA4724.1	PA4724.1	0.46	0.697	0.013191888831517	0.000565301260891768
PA4725	cbrA	-0.02	0.06	0.835272760163643	0.655065214515935
PA4726	cbrB	0.117	0.225	0.325620550323275	0.110063169431502
PA4726.1	P36	-1.887	-0.147	0.00186734392491859	0.841930618276176
PA4726.11	crcZ	3.786	-0.026	1.93733269069069e-63	0.942114855249586
PA4726.2	P30	4.512	-0.252	6.15560612314514e-23	0.71958277919452
PA4727	pcnB	-1.018	-0.421	1.05394245269245e-42	1.03589667979361e-07
PA4728	folK	-0.525	-0.218	0.00230157992293011	0.333110539897513
PA4729	panB	-0.847	-0.166	9.23830947585928e-11	0.339266533189367
PA4730	panC	-0.679	-0.038	1.09718673131795e-05	0.877422388811374
PA4731	panD	0.624	-0.127	5.81953911692189e-05	0.576205081727566
PA4732	pgi	0.516	-0.135	1.10342727325055e-09	0.218056751415765
PA4733	acsB	3.474	0.125		0 0.167465581251267
PA4734	PA4734	-0.306	0.05	1.38629109516695e-05	0.618660950408734
PA4735	PA4735	1.003	-0.024	3.27728343313967e-17	0.900273456741145
PA4736	PA4736	0.667	0.177	5.28205702171529e-11	0.174961716602699
PA4737	PA4737	0.008	0.162	0.93109666638091	0.114414805672614
PA4738	PA4738	-3.115	0.235	2.46118452087222e-45	0.442323074142451
PA4739	PA4739	-2.929	0.372	2.12753468682791e-40	0.186797374362771
PA4740	pnp	-1.49	-0.197	9.12648378763683e-21	0.361191029274908
PA4741	rpsO	-1.968	-0.021	5.91865432849903e-66	0.911302755469389
PA4742	truB	-1.766	0.302	2.69037107863318e-132	0.000120032403023415
PA4743	rbfA	-1.199	-0.209	6.95729308615812e-13	0.337903554574856
PA4744	infB	-1.186	-0.103	6.27211159683607e-16	0.634358998176168

PA4745	nusA	-1.063	-0.072	7.41186873801642e-17	0.70916375299817
PA4746	PA4746	-1.852	0.214	7.7340768640764e-46	0.186797374362771
PA4746.1	PA4746.1	-1.474	0.694	4.1202591518782e-19	0.000135954592115725
PA4746.2	PA4746.2	-0.512	0.464	0.00650234356693171	0.0356292997387597
PA4747	secG	-0.662	0.325	0.000153287953356184	0.135112259861918
PA4748	tpiA	-1.156	0.177	1.12017431581171e-38	0.109311105941338
PA4749	glmM	0.244	-0.391	0.0570429865120784	0.00709653688840531
PA4750	folP	-0.62	-0.075	2.14705320956274e-12	0.550823291325007
PA4751	ftsH	-0.189	-0.213	0.019390671850249	0.0237584333704607
PA4752	ftsJ	-0.841	0.049	1.40811429801284e-21	0.714694397757143
PA4753	PA4753	-1.407	0.404	6.66053947069788e-46	8.42193098233807e-05
PA4754	PA4754	-0.781	0.119	5.65564549482241e-17	0.331589169794789
PA4755	greA	-0.728	0.142	2.60767799438629e-13	0.277771339713769
PA4756	carB	-0.099	0.196	0.384542465296458	0.153569335725562
PA4757	PA4757	-0.243	0.361	0.0575173124575072	0.0126281874858824
PA4758	carA	-0.052	0.265	0.637344693203146	0.0322576599069746
PA4758.1	P32	-1.887	-0.038	5.8765792980866e-24	0.877718218582361
PA4759	dapB	-1.213	0.015	7.97218018175728e-30	0.93230523104482
PA4760	dnaJ	-1.777	-0.206	5.52558454954079e-45	0.199147886558508
PA4761	dnaK	-1.34	-0.314	9.33220065218468e-31	0.0234786942293051
PA4762	grpE	-1.438	-0.183	1.51307701119015e-38	0.183900509566097
PA4763	recN	1.011	-0.284	2.91871798151989e-13	0.101532604541022
PA4764	fur	-1.4	0.274	3.36761818868295e-39	0.0324659507355521
PA4765	omlA	-1.697	0.228	3.78577075109576e-90	0.0194415505196071
PA4766	PA4766	-0.333	0.265	0.00144879143998223	0.0286118922853514
PA4767	PA4767	0.156	0.217	0.00909787157564588	0.00107299410917348
PA4768	smpB	-1.347	0.221	1.51977586364332e-31	0.11431320988576
PA4769	PA4769	-0.05	-0.014	0.633813041237254	0.929289978921554
PA4770	ltdP	-0.362	-0.185	0.00517831840807206	0.26070359021807
PA4771	ltdD	0.147	0.075	0.137815423653158	0.588592921170828
PA4772	PA4772	1.551	0.201	1.19118963995273e-58	0.117873978133998
PA4773	PA4773	1.139	-0.6	2.22647147582099e-07	0.0348194737733657
PA4774	PA4774	1.018	-0.742	1.95054288398574e-05	0.0111985874936332
PA4775	PA4775	1.246	0.405	1.57051253850716e-41	0.000127627384247764
PA4776	pmrA	1.159	0.074	1.25382201125876e-20	0.701043561681694
PA4777	pmrB	0.922	0.149	1.08820748094907e-20	0.264610260836267
PA4778	cueR	0.032	0.124	0.796391191651055	0.441222511264739
PA4779	PA4779	1.054	0.132	4.01862882468074e-25	0.357933609403248
PA4780	PA4780	1.653	0.133	5.86184976295396e-111	0.172147075980519
PA4781	PA4781	1.646	0.383	1.44543309382153e-59	0.000916420144106921
PA4782	PA4782	0.266	0.616	0.136924785960022	0.00133412725086106
PA4783	PA4783	-0.756	0.669	7.34528342766747e-07	1.27357498072988e-05
PA4784	PA4784	0.342	0.081	0.00485408079496071	0.654453362119399
PA4785	PA4785	1.174	-0.075	2.22016548179576e-19	0.706457790595559
PA4786	PA4786	0.77	0.033	5.5962757171254e-08	0.885016438651702
PA4787	PA4787	2.351	0.318	4.63032045080402e-213	0.000278016345801502
PA4788	PA4788	0.95	0.104	1.86722048055581e-11	0.618988731714465
PA4789	PA4789	-0.765	0.035	5.90759797363514e-08	0.87057639478587
PA4790	PA4790	-1.117	0.075	4.43702123201965e-15	0.70916375299817
PA4791	PA4791	0.819	0.151	1.0058103608e-06	0.52324158580797

PA4792	PA4792	-2.247	-0.301	8.61504254803475e-67	0.0555267961460536
PA4793	PA4793	-0.47	-0.616	1.12594189399587e-11	4.40452282829727e-18
PA4794	PA4794	-0.801	-0.452	3.34597700815255e-26	1.20746125181068e-08
PA4795	PA4795	-1.696	-0.35	7.79444395630761e-29	0.0371908202629217
PA4796	PA4796	-0.354	-0.17	0.00316463219877521	0.270642237026286
PA4797	PA4797	0.286	0.907	4.21276196327967e-06	4.72611725170825e-50
PA4798	PA4798	0.97	0.279	1.19672262583079e-13	0.0887380489354697
PA4799	PA4799	0.281	0.294	0.176017050780715	0.261502439086106
PA4800	PA4800	-0.117	-0.089	0.475501565837546	0.703597684796799
PA4801	PA4801	-0.7	0.546	1.42100453493451e-05	0.00149893636808572
PA4802	PA4802	-1.7	-0.189	1.53530970742246e-19	0.372204019705487
PA4802.1	PA4802.1	-0.107	1.175	0.682886178439757	3.65533334646613e-06
PA4803	PA4803	1.039	0.048	3.12623103258944e-15	0.822476290732462
PA4804	PA4804	0.256	0.509	0.110402229243978	0.00429732414608107
PA4805	PA4805	1.43	0.131	9.07684266942219e-21	0.58022479998906
PA4806	PA4806	0.709	0.395	3.94728613648767e-09	0.00495207923145581
PA4807	selB	0.194	0.102	0.170701721150864	0.608622412203233
PA4808	selA	0.037	-0.067	0.78092465028005	0.718618886180309
PA4809	fdhE	3.392	0.125	9.90289396642854e-111	0.601822922872013
PA4810	fdnI	6.636	0.199		0.355036262410515
PA4811	fdnH	7.672	-0.082		0.787538545595792
PA4812	fdnG	4.915	0.325		0.00808351788460539
PA4813	lipC	8.495	0.411		0.121817692907943
PA4814	fadH2	1.506	0.081	3.57296160159442e-12	0.836579893768353
PA4815	PA4815	-1.194	0.44	5.09397167851909e-19	0.000531754077358442
PA4816	PA4816	-0.447	0.277	4.43002751822073e-07	0.00456907338765676
PA4817	PA4817	-0.249	0.151	0.448250622653187	0.74039211851942
PA4818	PA4818	0.377	0.412	0.0916793173901148	0.128610930175613
PA4819	PA4819	0.285	-0.008	0.301878311608797	0.987837803100364
PA4820	PA4820	0.219	-0.502	0.573872389522908	0.349962754583946
PA4821	PA4821	0.067	0.277	0.691430968096949	0.157295274989348
PA4822	PA4822	0.531	0.125	0.00836157056143439	0.684090124297007
PA4823	PA4823	-0.668	0.445	0.360127684835371	0.620694812089347
PA4824	PA4824	0.286	0.652	0.312458013567818	0.0377730404705806
PA4825	mgtA	2.31	0.255	1.04227373798269e-34	0.336107536792741
PA4826	PA4826	2.534	-0.139	2.99979665896288e-31	0.677698995795013
PA4827	PA4827	-0.026	0.193	0.802517077094597	0.101351877671564
PA4828	PA4828	0.896	0.438	3.70204376464633e-08	0.0244354258523812
PA4829	lpd3	1.226	-0.147	1.2028012824465e-19	0.435797265734443
PA4830	PA4830	0.715	0.451	1.17634868243902e-09	0.000753042478979294
PA4831	PA4831	0.594	0.014	9.94022353091073e-06	0.948444668524496
PA4832	PA4832	0.593	-0.155	1.30376623772681e-05	0.434353183564339
PA4833	PA4833	-2.553	-1.293	3.35330996224517e-105	2.38019927867845e-27
PA4834	PA4834	1.954	-0.082	2.01568622265324e-29	0.786191262769207
PA4835	PA4835	1.435	0.214	1.81795796567636e-30	0.213968859154925
PA4836	PA4836	2.113	0.02	7.29373186313915e-47	0.938790928152356
PA4837	PA4837	3.276	-0.26	5.44297563565194e-70	0.328001862128932
PA4838	PA4838	-0.811	-0.105	7.63628855510075e-09	0.592307016515003
PA4839	speA	1.271	-0.281	2.25727457249395e-23	0.0764984227624827
PA4840	PA4840	-0.681	-0.051	1.66614430159405e-09	0.761316787725311

PA4841	PA4841	0.315	0.165	0.000164770960965008	0.111791723402196
PA4842	PA4842	0.614	-0.033	2.54494928535081e-14	0.795610053644878
PA4843	gcbA	-0.062	0.098	0.58694573479356	0.515337310269568
PA4844	ctpL	0.126	0.586	0.336264428644179	1.34341801462735e-05
PA4845	dipZ	-1.112	0.448	7.71072606649755e-23	0.00025950703826058
PA4846	aroQ1	-2.943	0.422	7.9185945885093e-104	0.00625941106079343
PA4847	accB	-2.302	0.462	3.83572212049273e-42	0.0213357805757726
PA4848	accC	-2.316	0.307	1.60810358865184e-71	0.0520036128651869
PA4849	PA4849	-1.971	0.206	8.59778669751936e-41	0.139295209317354
PA4850	prmA	-0.214	0.033	0.0689338267291334	0.854761441298919
PA4851	PA4851	-1.032	-0.028	9.60755274480184e-26	0.857274770511163
PA4852	PA4852	-1.051	0.058	6.16410579735876e-33	0.655252748317738
PA4853	fis	-1.239	-0.317	8.36011929299399e-20	0.0505202272447967
PA4854	purH	-1.337	0.016	8.90024432325127e-21	0.943227332387352
PA4855	purD	-1.186	0.106	2.14372927924997e-17	0.593792750493127
PA4856	retS	0.102	0.041	0.405893388610377	0.824153329790439
PA4857	PA4857	0.568	0.26	1.10462944896518e-09	0.0199180839308563
PA4858	PA4858	1.459	0.208	4.93542788520303e-16	0.450448804777435
PA4859	PA4859	0.904	0.284	0.00863311863724555	0.57855306693021
PA4860	PA4860	1.248	0.672	0.000204197081200687	0.12326769480687
PA4861	PA4861	0.819	0.258	0.000406249363031601	0.435592004346275
PA4862	PA4862	1.006	0.2	3.13625760684783e-11	0.357534780158393
PA4863	PA4863	-0.512	0.37	0.000278909103791104	0.0214691958118463
PA4864	ureD	-0.942	0.52	0.000179621903779585	0.0804530452677284
PA4865	ureA	0.101	0.092	0.67726774845472	0.796301007604722
PA4866	PA4866	-0.711	-0.192	0.00225670262163419	0.558527633995579
PA4867	ureB	-0.245	0.03	0.343333687850539	0.939084404082602
PA4868	ureC	0.212	-0.001	0.395673611038041	0.998031284880537
PA4869	PA4869	0.499	0.251	2.06904062673403e-08	0.0169913988015816
PA4870	PA4870	1.194	0.254	6.4094348468273e-07	0.443277756619251
PA4871	PA4871	-0.335	0.437	0.0774223725325749	0.0395550208580979
PA4872	PA4872	-0.834	0.009	7.34828951596476e-16	0.957185689904928
PA4873	PA4873	0.548	0.088	0.000447795821810487	0.71526283989237
PA4874	PA4874	1.807	0.283	1.66336677239412e-28	0.178568784903926
PA4875	PA4875	-0.03	0.121	0.83517645975265	0.510324673992654
PA4876	osmE	1.348	-0.121	6.83988585558205e-13	0.667168647278054
PA4877	PA4877	1.241	0.006	4.08714568493964e-14	0.983097783311626
PA4878	brlR	0.369	-0.022	3.66097012941799e-05	0.877422388811374
PA4879	PA4879	1.186	0.014	2.90717125849746e-34	0.92899162158052
PA4880	PA4880	4.645	0.395	2.419987761988e-94	0.180315782187909
PA4881	PA4881	-1.116	-0.991	0.00222806184918934	0.0163528395518698
PA4882	PA4882	0.173	0.275	0.259623402681108	0.133538521149724
PA4883	PA4883	0.42	-0.087	0.160818701863844	0.858628805531717
PA4884	PA4884	0.921	-0.218	2.08705830478817e-05	0.509114840894665
PA4885	irlR	0.319	-0.243	0.0120450705984532	0.136549375342979
PA4886	PA4886	-0.384	0.247	0.0075178318035846	0.157295274989348
PA4887	PA4887	-1.259	0.461	7.41217300462047e-37	2.50097008196113e-06
PA4888	desB	-0.077	0.328	0.705978477582836	0.155124672667081
PA4889	PA4889	0.343	0.597	0.113077471916191	0.0138342712006777
PA4890	desT	-0.901	0.233	1.23300985842079e-10	0.161770009364379

PA4891	ureE	-1.077	1.002	4.06201486010519e-08	3.6140091120494e-07
PA4892	ureF	-1.094	0.882	5.91742213611472e-05	0.00259343708144373
PA4893	ureG	0.106	0.428	0.558822143908165	0.0355360702904814
PA4894	PA4894	-0.673	0.904	0.0318745489126506	0.00919565343109573
PA4895	PA4895	-5.952	-0.019	8.46717292599275e-143	0.948150739030896
PA4896	PA4896	-6.493	-0.623		0 2.10063667305941e-18
PA4897	PA4897	-2.401	-0.369	2.2713330893348e-113	0.000870680465761039
PA4898	opdK	0.643	0.465	9.37196174565547e-05	0.0164696692076023
PA4899	PA4899	1.324	-0.124	1.54468183857796e-29	0.468311590499684
PA4900	PA4900	0.294	0.22	0.0869584344040748	0.325677748561098
PA4901	mdlC	-0.281	0.064	0.169569057230428	0.833034485785261
PA4902	PA4902	0.023	-0.371	0.885401469470086	0.040022496811675
PA4903	PA4903	0.122	0.296	0.523896562190304	0.198972534556214
PA4904	vanA	1.758	0.35	1.28140476079505e-17	0.222802643003829
PA4905	vanB	0.706	0.191	0.00227327625468432	0.569752843646262
PA4906	PA4906	-0.681	0.299	2.1052877194287e-10	0.0154611134757166
PA4907	PA4907	0.172	-0.104	0.0660073964269215	0.404647903511387
PA4908	PA4908	4.345	0.244		0 0.11612834863413
PA4909	PA4909	3.761	-0.146	8.7833429832856e-293	0.346998704125333
PA4910	PA4910	4.411	-0.234	6.92147048065242e-290	0.192168589924713
PA4911	PA4911	4.688	-0.083	2.27034067357546e-217	0.745262839572195
PA4912	PA4912	4.906	-0.209	1.32955661823103e-220	0.369210643625548
PA4913	PA4913	4.504	-0.345		0 0.0184572638007483
PA4914	PA4914	1.027	-0.162	2.52769898085261e-20	0.297359988054937
PA4915	PA4915	1.458	0.18	1.09902763979707e-31	0.277771339713769
PA4916	PA4916	-0.545	-0.343	8.11668141541442e-07	0.00688701003402026
PA4917	PA4917	-0.316	-0.103	0.0292992489497777	0.618988731714465
PA4918	PA4918	0.731	0.059	3.68246003192368e-08	0.777152399337511
PA4919	pncB1	0.582	-0.18	6.33315759438365e-05	0.356130206941056
PA4920	nadE	0.012	-0.271	0.920540222582524	0.0350985765768438
PA4921	choE	1.598	-0.158	9.42442420285372e-46	0.319222105884118
PA4922	azu	1.534	0.443	6.35281504746591e-61	1.6799556072901e-05
PA4923	PA4923	0.062	-0.131	0.601001534354532	0.397136238993626
PA4924	PA4924	0.703	0.242	5.00624044809525e-15	0.0253862637495941
PA4925	PA4925	2.667	-0.213	1.01317423555386e-198	0.05158787435125
PA4926	PA4926	0.502	0.321	5.39410970542635e-07	0.0054876135261259
PA4927	PA4927	0.605	0.11	2.41374530448798e-09	0.433790729332571
PA4928	PA4928	-0.715	-0.044	1.6426771687793e-14	0.757451465279189
PA4929	PA4929	0.219	0.293	0.00747712596606905	0.0013312325257225
PA4930	alr	-0.593	0.043	2.87196475494041e-08	0.790945140803804
PA4931	dnaB	-0.562	-0.178	5.61625301873129e-08	0.17480090178152
PA4932	rplI	-0.313	-0.168	0.0021943896763601	0.194072868589262
PA4933	PA4933	-0.406	-0.149	2.5119478055835e-05	0.228741951931878
PA4934	rpsR	-0.623	-0.346	1.191129849595e-08	0.00606056503994908
PA4935	rpsF	-0.755	-0.322	1.21523789115093e-10	0.0199492960941138
PA4936	PA4936	1.005	-0.101	1.0611999449447e-57	0.226249864092725
PA4937	rnr	0.596	-0.064	1.90221899089239e-27	0.399413164022011
PA4937.1	PA4937.1	-0.969	0.749	2.76094625574674e-06	0.00125600978916733
PA4937.2	PA4937.2	-1.358	0.473	9.11369880090501e-15	0.0223218249817197
PA4938	purA	-0.469	-0.228	1.16620601130878e-08	0.0181217515421703

PA4939	PA4939	-0.538	0.109	1.1363156514916e-14	0.224853467760242
PA4940	PA4940	-0.956	0.159	1.88890827270197e-12	0.375118292458129
PA4941	hflC	0.136	-0.238	0.233505803861458	0.0776234658496496
PA4942	hflK	0.089	-0.341	0.443799699434732	0.00786115618340956
PA4943	PA4943	-0.045	0.213	0.551192652277999	0.0100880150030001
PA4944	hfq	-0.572	0.164	5.84945583803299e-06	0.330407782749697
PA4945	miaA	-0.354	0.452	0.000717331994054542	7.17329651042464e-05
PA4946	mutL	0.401	0.256	2.31073768887636e-11	0.000120207784605196
PA4947	amiB	0.059	0.13	0.516751897216513	0.248389633979461
PA4948	PA4948	0.442	0.115	0.000235470582716184	0.495412307989572
PA4949	PA4949	0.017	0.46	0.919508869101744	0.00960161099912292
PA4950	PA4950	-1.061	0.289	3.20499219742329e-27	0.00755947947012623
PA4951	orn	0.904	0.06	9.54772617013166e-19	0.699670306516588
PA4952	PA4952	-0.872	0.123	3.16247292782736e-32	0.175867447560685
PA4953	motB	-0.195	0.02	0.0624415266599192	0.903373068638848
PA4954	motA	-0.571	0.013	6.75006671159593e-06	0.950255546193446
PA4955	PA4955	0.384	0.339	0.000515728610096572	0.00755947947012623
PA4956	rhda	-0.294	-0.264	0.00126250425757455	0.0119362276436005
PA4957	psd	-0.479	-0.268	7.05029480104163e-05	0.0655710222981077
PA4958	PA4958	0.27	-0.068	0.0010386397246602	0.5657197859419
PA4959	fimX	-0.676	0.024	4.58259701072639e-12	0.876191129190249
PA4960	PA4960	-0.929	0.391	2.25139880178259e-37	1.86331992511238e-07
PA4961	PA4961	-0.843	0.118	3.56584348525483e-18	0.362536646114978
PA4962	PA4962	-0.759	0.652	8.78987131251271e-06	0.000124622694066597
PA4963	PA4963	-1.13	0.109	4.66486112016587e-42	0.325200621873055
PA4964	parC	-0.312	0.015	0.00696974960882562	0.937101512548672
PA4965	PA4965	-0.815	0.276	7.37283999627504e-09	0.104931197659819
PA4966	PA4966	-0.984	0.163	1.74320422270291e-13	0.3563090592912
PA4967	parE	-0.952	-0.177	6.00322727245342e-12	0.339304071165257
PA4968	PA4968	-1.9	0.004	1.32367739764052e-68	0.982278593283696
PA4969	cpdA	-2.721	0.077	4.58025210391388e-103	0.67102717156255
PA4970	PA4970	0.397	0.061	0.00017612700474139	0.701495691775437
PA4971	aspP	0.321	0.059	0.00340842659507117	0.718618886180309
PA4972	PA4972	-0.106	0.14	0.423720631141776	0.415926466814832
PA4973	thiC	-3.74	-0.015		0.911302755469389
PA4974	PA4974	-0.917	-0.324	3.78065066182718e-07	0.154335216191402
PA4975	PA4975	0.152	-0.052	0.308385836186776	0.822231943769052
PA4976	aruH	0.667	0.17	2.97209523921609e-11	0.192298133182507
PA4977	arul	0.601	0.564	1.44864020091405e-07	4.97332223633287e-06
PA4978	PA4978	1.477	0.256	1.60984682640207e-24	0.19584824819225
PA4979	PA4979	2.265	-0.015	5.09611376369307e-45	0.961534101649433
PA4980	PA4980	2.323	0.577	1.06407179102366e-16	0.15276908089926
PA4981	PA4981	1.059	0.469	1.53622459202701e-20	0.000379929637286235
PA4982	PA4982	2.041	0.348	4.43074031289087e-63	0.0260248421036967
PA4983	PA4983	0.971	-0.054	1.01592001196582e-24	0.726542992349316
PA4984	PA4984	0.161	0.099	0.2312783955251	0.599014443949225
PA4985	PA4985	2.945	0.162	4.06516352543832e-47	0.640943432598719
PA4986	PA4986	2.804	-0.047	1.49911070827935e-75	0.873025021498073
PA4987	PA4987	-0.265	0.204	0.0408552739918114	0.196718086915592
PA4988	waaA	-0.49	0.397	0.000504470649282519	0.0135483181383867

PA4989	PA4989	0.392	0.226	0.0214764603512602	0.311680201940126
PA4990	PA4990	1.199	-0.448	4.71092298419464e-06	0.254092430851781
PA4991	PA4991	-1.06	0.241	6.10728380999007e-22	0.0662995753938504
PA4992	PA4992	-0.823	0.024	1.22110729391955e-17	0.874647225579034
PA4993	PA4993	-0.326	0.01	0.00157121406272171	0.948960960931959
PA4994	PA4994	1.356	0.053	1.01146057999423e-45	0.736644351692497
PA4995	PA4995	0.488	0.162	1.0229321879769e-06	0.214466039108611
PA4996	rfaE	-0.603	0.301	5.36028279426287e-09	0.0120317328153524
PA4997	msbA	-1.866	0.072	7.04735976714771e-99	0.564753972812439
PA4998	PA4998	-0.999	0.225	1.67237739159571e-31	0.016951998482143
PA4999	waaL	-0.293	0.31	0.00772947508538671	0.0124932677671272
PA5000	wapR	0.724	-0.076	3.71071061388907e-09	0.683324301506801
PA5001	ssg	0.019	0.024	0.899345514137237	0.915461429995724
PA5002	dnpA	-0.613	0.03	4.83277746285396e-07	0.876878182401235
PA5003	PA5003	-0.445	0.309	0.0002504564614123	0.0296356752337057
PA5004	wapH	-0.721	0.229	7.63938088263905e-22	0.00763479934364127
PA5005	PA5005	-0.58	0.033	1.87979379833494e-07	0.852251394811427
PA5006	PA5006	-0.364	0.334	6.83410309289842e-05	0.000960053844448573
PA5007	wapG	-0.269	-0.006	0.0124726531246758	0.969900478455718
PA5008	wapP	-0.095	0.059	0.275403706941442	0.626886036942346
PA5009	waaP	0.306	0.035	0.0308925851252624	0.875922399909499
PA5010	waaG	0.003	-0.114	0.982015243108072	0.510344297768625
PA5011	waaC	0.396	0.301	0.000466800687488987	0.024017888536059
PA5012	waaF	-0.097	0.109	0.197587792578151	0.241579862110107
PA5013	ilvE	-0.004	-0.002	0.978678699772826	0.992469204693873
PA5014	glnE	-0.043	0.15	0.461665256254264	0.0200701310724604
PA5015	aceE	-2.365	-0.169	1.64531743883001e-123	0.191919203631738
PA5016	aceF	-2.347	-0.037	3.72971678128415e-118	0.822852561343249
PA5017	dipA	-0.106	0.035	0.155694339221991	0.74908870867106
PA5018	msrA	0.545	-0.125	5.73505444612064e-18	0.117873978133998
PA5019	PA5019	1.273	0.084	2.44930008814263e-70	0.408702106617126
PA5020	PA5020	0.514	-0.043	0.000199337865579953	0.84673274453246
PA5021	PA5021	-1.808	0.202	8.16708635944863e-37	0.273121345532641
PA5022	PA5022	-0.491	-0.042	6.73767298923819e-05	0.826932798008344
PA5023	PA5023	-1.477	-0.018	6.54461132156123e-149	0.830968200446284
PA5024	PA5024	-3.824	-2.778	1.72837454051981e-95	4.01140360187837e-59
PA5025	metY	-3.13	-2.909	1.55655941030321e-117	1.80663574887088e-102
PA5026	PA5026	-0.904	-1.663	2.30299631397087e-17	7.98297971633364e-49
PA5027	PA5027	4.735	-0.427	4.57963505049629e-125	0.140127414043709
PA5028	PA5028	-0.138	0.151	0.296655249428323	0.377463957542554
PA5029	PA5029	-0.331	0.097	0.0141569377677779	0.606722607415666
PA5030	PA5030	-6.05	0.943	7.69566534739294e-265	6.52410317306614e-08
PA5031	PA5031	0.881	-0.204	8.16138035791644e-08	0.414259486767858
PA5032	PA5032	0.718	0.388	0.000138666302059258	0.101121274069779
PA5033	PA5033	-2.589	-0.722	3.54659739332064e-107	4.36613940192361e-11
PA5034	hemE	-0.916	0.173	1.72747918212404e-23	0.121659954052663
PA5035	gltD	1.323	-0.312	2.4169549882065e-29	0.0303427553203548
PA5036	gltB	0.064	-0.343	0.663550107651423	0.0373910514338539
PA5037	PA5037	0.052	0.154	0.623221619657186	0.227486097501773
PA5038	aroB	0.21	0.168	0.0567407527744508	0.225460279444276

PA5039	aroK	-0.534	0.373	4.64097979911222e-08	0.000614550912338289
PA5040	pilQ	-0.39	-0.17	2.00217435308753e-06	0.0916229288350278
PA5041	pilP	-0.432	-0.17	2.76658264331091e-05	0.192468094577877
PA5042	pilO	-0.567	-0.013	9.87453606029956e-08	0.938642603978266
PA5043	pilN	-0.411	-0.004	3.08053450779139e-09	0.969808741091937
PA5044	pilM	-0.408	0.096	0.000282276083256496	0.546724103554198
PA5045	ponA	-1.588	0.014	7.24700558945057e-62	0.928732059337884
PA5046	PA5046	0.111	-0.142	0.148756559811786	0.127103281151164
PA5047	PA5047	0.967	0.058	1.56410404375967e-30	0.648018334234306
PA5048	PA5048	1.126	0.093	4.1531625744485e-14	0.683324301506801
PA5049	rpmE	0.664	-0.129	0.000188193922741354	0.616810059507547
PA5050	priA	-1.229	0.166	3.14381744785115e-36	0.148284272579718
PA5051	argS	-0.818	-0.079	3.53719771998824e-16	0.587423284950926
PA5052	PA5052	-0.975	0.183	5.51164667457874e-11	0.340545055120879
PA5053	hslV	-1.499	-0.048	1.08211541932699e-37	0.776596887622979
PA5054	hslU	-1.27	-0.235	4.47043003479646e-25	0.124322577192062
PA5055	PA5055	-0.054	0.2	0.631461209559744	0.130091544377441
PA5056	phaC1	2.114	-0.227	5.00035826430547e-96	0.0731539945272786
PA5057	phaD	1.409	0.063	1.61884904886281e-38	0.706510423914987
PA5058	phaC2	1.011	-0.204	8.51771503657126e-08	0.433267848265356
PA5059	PA5059	0.525	-0.138	0.00161756040681149	0.561190721074776
PA5060	phaF	1.059	-0.448	3.82305801711443e-10	0.0259142572787948
PA5061	PA5061	-0.086	-0.683	0.618400411774546	0.000148593559456396
PA5062	PA5062	-0.33	0.279	0.00278853045012104	0.0276647382370097
PA5063	ubiE	-0.149	0.117	0.0434687701619698	0.20664881192016
PA5064	PA5064	0.073	0.399	0.520996266057036	0.000975580093511014
PA5065	ubiB	-0.158	0.377	0.0338684033564679	1.09415640535351e-06
PA5066	hisl	-0.328	0.209	0.00733119149723973	0.171283283324883
PA5067	hisE	-0.862	-0.105	5.56404621717837e-16	0.47440159264091
PA5068	tatA	0.239	-0.118	0.00637279993912067	0.309024636315641
PA5069	tatB	-0.708	-0.085	9.60151778466073e-29	0.306211230255973
PA5070	tatC	-1.401	0.02	3.57153036930618e-58	0.881587592507267
PA5071	PA5071	-0.531	0.241	0.00346893356133694	0.298533461302271
PA5072	PA5072	-0.393	0.265	0.0065655919666254	0.134428244656661
PA5073	PA5073	0.01	0.098	0.923756078379164	0.471857861203389
PA5074	PA5074	-0.604	0.059	2.28895626887866e-05	0.787290543819526
PA5075	PA5075	-1.135	-0.143	7.86537443515216e-10	0.588903911321877
PA5076	PA5076	-0.411	-0.357	0.00975902091845409	0.0600347801683524
PA5077	opgH	-0.223	-0.021	0.00063727965543414	0.833797063160135
PA5078	opgG	-0.168	-0.115	0.0367914463862324	0.265311731240716
PA5079	PA5079	-0.215	-0.113	0.00602167577018911	0.262595593051801
PA5080	PA5080	-0.396	-0.167	2.80012587848283e-07	0.0752187761604804
PA5081	PA5081	-0.223	-0.155	0.0730410439206166	0.336555284377268
PA5082	dguC	0.906	0.001	3.31526747333186e-12	0.996408933480398
PA5083	dguB	0.27	0.091	0.251764550915074	0.79866907494314
PA5084	dguA	0.794	0.582	1.15268103078987e-06	0.0018285380580535
PA5085	dguR	0.222	0.153	0.166833137188753	0.478356874238592
PA5086	PA5086	-0.322	-0.29	0.140870620144842	0.301005640375933
PA5087	PA5087	-1.518	-0.506	3.36860333545198e-12	0.0514733517214217
PA5088	PA5088	-1.228	-0.578	1.686165172952e-07	0.0379271794756927

PA5089	pIdB	-1.021	-0.553	1.99962405676755e-09	0.00448494931934474
PA5090	vgrG5	-1.522	-0.564	4.42938417883089e-18	0.0050994839919089
PA5091	hutG	1.493	-0.051	2.09305530943558e-32	0.799963447019652
PA5092	hutI	1.309	0.029	6.75453783217297e-31	0.875780830277193
PA5093	PA5093	1.3	-0.002	2.17244094421447e-33	0.992819788091883
PA5094	PA5094	1.287	-0.214	2.28205219741566e-30	0.147609915761325
PA5095	PA5095	1.339	-0.261	2.616738079111e-28	0.097786178217128
PA5096	PA5096	1.477	-0.069	1.04130976875774e-34	0.714904168309293
PA5097	PA5097	0.927	-0.721	1.28833750474359e-11	7.22112931623927e-06
PA5098	hutH	0.625	-1.388	4.69422214005196e-06	1.59227564141172e-20
PA5099	PA5099	-1.177	-1.55	5.04952171132108e-16	3.14657992181614e-25
PA5100	hutU	-1.213	-1.767	1.19843321631939e-20	5.91163522114219e-41
PA5101	PA5101	1.522	-0.047	1.97704672926299e-31	0.823659076128342
PA5102	PA5102	0.172	-0.815	0.194560158227474	7.90376486096802e-09
PA5103	puuR	-0.163	-0.867	0.130092285450843	1.0671485360174e-15
PA5104	PA5104	-2.425	-0.52	1.73606207053365e-53	0.00344303875495465
PA5105	hutC	-2.502	-0.758	6.10894645871377e-87	1.32896387695714e-08
PA5106	PA5106	-4.107	-1.133	1.89864049236606e-82	5.9062024577672e-07
PA5107	blc	0.609	0.078	3.25161235493305e-09	0.601606959494737
PA5108	PA5108	1.22	0.151	1.22767102680467e-46	0.175429205031165
PA5109	PA5109	-0.436	0.171	3.95253815984691e-05	0.199900785499309
PA5110	fbp	-0.339	-0.201	3.52828200200948e-05	0.0396174668787931
PA5111	gloA3	1.69	-0.431	3.33300730806709e-50	0.00114848419704901
PA5112	estA	2.578	-0.134	6.90056425237064e-124	0.370888278419118
PA5113	PA5113	-0.47	-0.252	4.5716572761441e-05	0.0715624719833871
PA5114	PA5114	-0.606	0.069	3.04467769182692e-09	0.648432516808504
PA5115	PA5115	2.671	0.189	1.94522619686368e-48	0.481768052650215
PA5116	PA5116	0.743	0.34	0.0012161294571559	0.254111631021892
PA5117	typA	-0.938	-0.141	1.1180402470028e-12	0.434704484281787
PA5118	thil	-1.922	0.119	5.75160991114841e-85	0.323958668867626
PA5119	glnA	0.423	-0.271	4.32316679082999e-06	0.0114483036015687
PA5120	PA5120	-1.503	0.088	1.55505121945833e-13	0.754451675284807
PA5121	PA5121	-1.844	0.727	8.25029716389842e-68	2.30320948478654e-11
PA5122	PA5122	-0.39	-0.037	1.15682941520603e-05	0.78629513848868
PA5123	PA5123	-0.115	0.111	0.332867984798952	0.477219367383506
PA5124	ntrB	-0.562	-0.105	1.15385969586324e-07	0.46669175204822
PA5125	ntrC	0.305	0.279	0.00990132519650288	0.0460427938497655
PA5125.1	nrsZ	-1.074	0.037	0.000644702557491226	0.932657792915042
PA5126	PA5126	0.149	0.036	0.229259493273551	0.848623261622259
PA5127	PA5127	-0.642	0.04	3.74924587428932e-08	0.822852561343249
PA5128	secB	-2.761	-0.422	8.01312070820243e-73	0.0200142636187657
PA5129	grxC	-3.001	-0.518	1.52178372815679e-95	0.000606722524359396
PA5130	PA5130	-3.673	-0.588		0.247604880813431e-14
PA5131	pgm	-1.162	-0.468	4.01977929511081e-45	1.08647052685264e-07
PA5132	PA5132	-0.889	0.038	4.9929170216194e-07	0.890099736075451
PA5133	PA5133	-0.967	0.011	8.6238845733657e-41	0.925587031389571
PA5134	ctpA	-0.186	-0.169	0.00072796055861172	0.00755947947012623
PA5135	PA5135	-0.408	0.01	0.000870492796444481	0.956892435147525
PA5136	PA5136	-2.367	-0.362	2.85060999633369e-62	0.0253830421386706
PA5137	PA5137	1.546	-0.164	1.93828542333854e-20	0.496542743889128

PA5138	PA5138	-0.57	-0.2	8.31314811084677e-06	0.221132720136836
PA5139	PA5139	-2.414	-0.24	3.33693829341931e-45	0.198218414517077
PA5140	hisF1	0.168	0.014	0.173057205869535	0.939084404082602
PA5141	hisA	0.236	0.093	0.0652100175589004	0.609590808053593
PA5142	hisH1	-0.226	-0.004	0.0104277135842717	0.975092037098485
PA5143	hisB	-0.625	-0.026	2.27377603490947e-17	0.821281796362002
PA5144	PA5144	-1.044	0.549	5.49142321023464e-05	0.0470077489092629
PA5145	PA5145	-0.111	0.098	0.43417527527983	0.616810059507547
PA5146	PA5146	-0.215	-0.172	0.00569630455366255	0.0660453895874958
PA5147	mutM	-0.324	-0.135	9.8742465532516e-07	0.0945699877878699
PA5148	PA5148	-0.002	-0.206	0.982015243108072	0.0840179836647576
PA5149	PA5149	-0.04	-0.005	0.715752222856691	0.977067422066581
PA5149.1	PA5149.1	-1.61	0.586	2.25284171351588e-08	0.0549103830807406
PA5150	PA5150	-3.581	-0.957		0.266321821460688e-25
PA5151	PA5151	-1.058	0.275	6.9441390969938e-20	0.0321116448538065
PA5152	PA5152	0.193	-0.454	0.184696592461202	0.0053829252237634
PA5153	PA5153	2.062	-0.465	1.06825929021357e-67	0.00065320071939317
PA5154	PA5154	1.837	-0.053	1.3160191673638e-18	0.878259249822544
PA5155	PA5155	2.816	0.221	6.71211633079599e-65	0.404853115338847
PA5156	PA5156	-1.188	0.189	1.7109158829893e-08	0.429602896009991
PA5157	PA5157	-1.143	0.091	1.6665626693996e-10	0.714809063444948
PA5158	PA5158	-0.643	0.13	1.80215703084514e-05	0.52324158580797
PA5159	PA5159	-0.966	-0.319	2.03264526284475e-11	0.0608861783554366
PA5160	PA5160	-1.235	-0.172	1.71357246966502e-26	0.207495440678574
PA5160.1	PA5160.1	-1.453	0.529	0.00110459305708582	0.248385623077969
PA5161	rmIB	-1.386	-0.355	1.22877821484112e-27	0.0185559380858101
PA5162	rmID	-1.675	-0.208	2.02957499832574e-21	0.388262210606764
PA5163	rmIA	-0.905	-0.461	1.65288618011329e-15	0.000281410658675544
PA5164	rmIC	-1.045	-0.377	4.49374005659272e-14	0.0214423849113913
PA5165	dctB	-0.523	0.027	2.08708550686475e-11	0.826932798008344
PA5166	dctD	-0.226	0.127	0.0150574475386378	0.291111518858932
PA5167	dctP	1.71	0.183	2.3092286431768e-54	0.202349799462625
PA5168	dctQ	3.558	0.19	2.62880950188861e-177	0.323111291705195
PA5169	dctM	4.278	-0.025	2.80007881688425e-206	0.920462276574913
PA5170	arcD	2.353	1.071	1.04246680718172e-75	9.12200771071826e-16
PA5171	arcA	1.617	1.038	4.66829783993534e-19	8.94463496796529e-08
PA5172	arcB	1.57	0.959	7.43929132001924e-15	1.44383588298806e-05
PA5173	arcC	1.386	1.151	4.5710490364595e-11	3.44015188682943e-07
PA5174	PA5174	-1.868	0.793	7.71530381455683e-80	1.07730980665828e-14
PA5175	cysQ	-0.313	0.14	0.0120343949617173	0.403231377096496
PA5176	PA5176	-0.68	0.109	2.42538074822255e-14	0.359500518195879
PA5177	PA5177	-0.865	0.255	3.63211644233292e-22	0.00952292718571734
PA5178	PA5178	2.055	-0.109	2.59978724014858e-81	0.474425101482791
PA5179	PA5179	-0.1	0.298	0.249450025099767	0.00117514002443732
PA5180	PA5180	0.103	0.316	0.411345096465477	0.0238289613303804
PA5181	PA5181	0.317	-0.044	0.00564562816367838	0.80882878582189
PA5181.1	P34	0.31	-0.156	0.220848557550578	0.684090124297007
PA5182	PA5182	2.049	-0.19	4.85906845071712e-25	0.500417881816099
PA5183	PA5183	2.17	-0.428	1.07628153214072e-29	0.0844578483060621
PA5183.01	NA	-0.709	0.974	0.513052447749192	0.476124135744537

PA5183.1	rsmN	0.119	0.202	0.441805675893559	0.299125884783912
PA5184	PA5184	-1.15	-0.165	8.0233595265545e-53	0.0597964652990467
PA5185	PA5185	0.239	0.171	0.0277252395124475	0.211590715921388
PA5186	PA5186	1.087	-0.028	1.57450055174733e-15	0.904030614211696
PA5187	PA5187	1.366	-0.306	1.63735690863016e-23	0.0830465537324103
PA5188	PA5188	1.495	0.115	2.20047682482956e-28	0.577466727306361
PA5189	PA5189	-0.022	0.164	0.854919988985752	0.237244698266035
PA5190	PA5190	-0.698	-0.314	1.81309216286871e-14	0.00218548625290491
PA5191	PA5191	1.408	-0.081	4.41207411569411e-32	0.653843718384526
PA5192	pckA	-0.16	-0.013	0.496776480799781	0.972611863712757
PA5193	yrfl	-1.688	-0.116	4.87604629003231e-49	0.447999257168723
PA5194	PA5194	-0.577	-0.239	1.27307435730155e-07	0.0644045973443782
PA5195	PA5195	0.656	-0.183	0.00427518094557028	0.58022479998906
PA5196	PA5196	0.791	-0.016	5.4039178846401e-26	0.898142606097448
PA5197	rimK	1.051	-0.061	5.31027051044992e-20	0.72952377476324
PA5198	PA5198	-0.246	-0.058	0.0288135006705707	0.727434698591903
PA5199	amgS	-0.441	0.156	3.95276743559842e-06	0.193159572954133
PA5200	amgR	-0.11	-0.176	0.152628918555383	0.0482550974103998
PA5201	PA5201	-1.542	-0.121	1.20841035124328e-30	0.514354927253536
PA5202	PA5202	-1.117	0.353	6.17045180475571e-08	0.121817692907943
PA5203	gshA	0.421	-0.311	8.09374336616862e-11	1.43298182219398e-05
PA5204	argA	-3.467	-1.018	5.26631530662496e-173	1.43790225498e-15
PA5204.1	NA	0.066	-0.505	0.815640202552254	0.153265139246634
PA5205	PA5205	-1.403	-0.276	2.71880974146756e-37	0.0234786942293051
PA5206	argE	0.271	-0.009	0.00240011305615819	0.950077947644819
PA5207	PA5207	1.006	0.528	2.62950785080299e-20	1.32351153209079e-05
PA5208	PA5208	1.587	0.259	3.71562050035565e-47	0.058938003290904
PA5209	PA5209	-0.604	0.252	7.45394976735263e-07	0.0881055995896155
PA5210	PA5210	1.477	0.288	1.05367851293857e-53	0.0108339542991474
PA5211	PA5211	1.172	0.823	2.01183510935733e-06	0.00354350814870174
PA5212	PA5212	2.044	-0.177	1.43223598601006e-26	0.515834532141565
PA5213	gcvP1	1.965	-0.03	1.04489474506076e-120	0.824153329790439
PA5214	gcvH1	1.046	-0.161	9.69739504793009e-38	0.119700740512193
PA5215	gcvT1	-0.043	-0.134	0.507179751917049	0.0749095972511199
PA5216	PA5216	-2.243	-0.3	5.44479781145757e-47	0.110560400605588
PA5217	PA5217	-3.364	-0.882	1.10506248362017e-111	2.263204129022e-08
PA5218	PA5218	0.522	-0.107	1.36457022788617e-05	0.533647248908793
PA5219	PA5219	-1.572	-0.067	6.41996484969233e-32	0.740735953443206
PA5220	PA5220	2.074	-0.372	3.9189423688493e-44	0.0397476560463257
PA5221	PA5221	0.132	0.283	0.437099363735602	0.167980151082389
PA5222	PA5222	-0.743	0.101	2.69565594328159e-17	0.366204584536602
PA5223	ubiH	-0.298	0.176	0.00489406733731607	0.183900509566097
PA5224	pepP	-0.175	0.041	0.0166569475608401	0.706457790595559
PA5225	PA5225	-0.331	0.416	0.0190515078773935	0.00943529509029368
PA5226	PA5226	-0.378	0.16	0.020489036625566	0.46814810289045
PA5227	PA5227	0.145	-0.081	0.0544830861307162	0.421531572959489
PA5227.1	ssrS	0.652	1.17	5.57135401051562e-05	2.39140468677246e-12
PA5228	PA5228	0.718	0.32	2.50020859089027e-08	0.0391781902161224
PA5229	PA5229	0.481	-0.174	5.06916778011651e-09	0.0994221365381038
PA5230	PA5230	-0.162	0.127	0.302993621133329	0.552372247138596

PA5231	PA5231	-0.208	0.032	0.215209783293372	0.902099116482416
PA5232	PA5232	0.493	-0.013	0.00526394584319276	0.963930208288887
PA5233	PA5233	0.776	0.097	1.75772163062258e-12	0.543047280828695
PA5234	PA5234	0.432	-0.092	0.000233308406491977	0.5914721919393
PA5235	glpT	-0.418	-0.986	0.00617531535556268	7.66583174528251e-10
PA5236	PA5236	-1.237	0.049	3.63145883042137e-48	0.688431794166447
PA5237	PA5237	-1.349	-0.021	3.17471194617898e-90	0.844001819262079
PA5238	PA5238	-0.222	0.442	0.0136094519102745	1.45475314291479e-06
PA5239	rho	-2.626	-0.019	1.64883537368836e-82	0.931266062755784
PA5240	trxA	-0.489	0.147	1.45847494510153e-07	0.220214801478019
PA5241	ppx	-0.776	-0.262	4.82699598193094e-23	0.00360085332118799
PA5242	ppk	0.606	0.033	5.77332043204663e-16	0.78199386959644
PA5243	hemB	0.285	0.144	4.7536222082075e-05	0.0942486460354764
PA5244	PA5244	-1.447	0.347	2.17527194001106e-51	0.000572531515398353
PA5245	PA5245	1.27	-0.247	3.27471254513727e-164	2.61335408823811e-06
PA5246	PA5246	0.088	-0.086	0.570657826622926	0.698743773988573
PA5247	PA5247	0.314	0.268	0.00556940829800993	0.0456510281994086
PA5248	PA5248	-2.329	0.715	6.82687256644964e-135	4.13098805962767e-15
PA5249	PA5249	-0.281	0.217	0.00088156119978982	0.0267520500637363
PA5250	PA5250	0.113	-0.057	0.230680871042948	0.672471271960017
PA5251	PA5251	-0.05	0.018	0.622524003599619	0.908347397354863
PA5252	PA5252	-0.764	-0.033	2.17717701680732e-15	0.829710540879662
PA5253	algP	1.294	-0.053	2.43511243396492e-44	0.707046256883477
PA5254	PA5254	-0.214	-0.291	0.0295840789179212	0.00940372840365585
PA5255	algQ	0.21	0.088	0.0540446805580359	0.5657197859419
PA5256	dsbH	-0.713	0.325	3.23626087914422e-11	0.00607695614551337
PA5257	PA5257	0.786	-0.017	3.20867618472579e-29	0.882000713451905
PA5258	PA5258	0.455	0.03	8.74106830528353e-18	0.713746718281884
PA5259	hemD	0.464	0.293	0.000571313250900104	0.0737166183857695
PA5260	hemC	0.554	0.131	6.69459754026168e-11	0.235930250440459
PA5261	algR	1.465	-0.058	4.29875837892694e-158	0.454331367907468
PA5262	fimS	1.221	0.034	2.70101812192707e-36	0.825516106476597
PA5263	argH	-0.539	0.131	4.91437057057464e-10	0.244276618917523
PA5264	PA5264	-0.174	-0.485	0.376318474392519	0.0299796206171411
PA5265	PA5265	-0.318	-0.406	0.0265732662905286	0.0136369226817996
PA5266	vgrG6	-1.897	-1.394	1.43714730648507e-15	3.04208736528552e-08
PA5267	hcpB	-2.388	-1.737	9.22182003933045e-11	1.61820250418455e-05
PA5268	corA	-0.826	-0.068	1.10633820322924e-12	0.69812341929633
PA5269	PA5269	0.621	0.031	8.46880113034838e-10	0.848295330469232
PA5270	PA5270	-0.287	-0.11	0.000624578985321196	0.318146763764081
PA5271	PA5271	1.431	0.189	2.10437898414841e-56	0.0976951335916098
PA5272	cyaA	1.061	0.106	9.9754385948707e-38	0.345281502277186
PA5273	PA5273	-1.455	-0.274	4.22608754470139e-55	0.00712047871695897
PA5274	rnk	0.626	-0.649	1.41979938248424e-08	6.32377824116329e-08
PA5275	PA5275	-0.357	0.121	0.000285230804186278	0.350604059137439
PA5276	lppL	-0.317	0.184	0.0771614574302944	0.445134503238882
PA5277	lysA	-0.206	0.086	0.000128440118649703	0.20664881192016
PA5278	dapF	-0.45	0.018	1.0873655482143e-07	0.897807642982476
PA5279	PA5279	-0.099	0.051	0.213081730901237	0.654453362119399
PA5280	sss	-0.381	0.086	0.000101189710136819	0.529409106088766

PA5281	PA5281	0.316	0.14	0.00172187198662878	0.291053548888605
PA5282	PA5282	-0.223	0.194	0.295148095816033	0.484704672393887
PA5283	PA5283	-0.308	-0.052	0.000131005831870828	0.657471545845536
PA5284	PA5284	-1.369	0.185	5.59528882087268e-11	0.459351345943841
PA5285	PA5285	-0.902	-0.17	2.52485833205213e-16	0.235609552406986
PA5286	PA5286	-0.302	-0.395	0.00248347530788877	0.000332893665818638
PA5287	amtB	0.679	0.142	4.30749546339963e-15	0.203136229364808
PA5288	glnK	1.103	0.116	1.2385905623194e-35	0.331493669649805
PA5289	PA5289	-0.875	0.19	3.16576931014526e-13	0.203154477568419
PA5290	PA5290	-0.757	0.332	2.38164730885498e-17	0.000500265805937599
PA5291	betT2	0.332	-0.281	0.0254665385998083	0.12326769480687
PA5292	pchP	0.115	-0.14	0.399422091124667	0.436379883685963
PA5293	PA5293	0.711	0.091	7.06426843070972e-11	0.581034987713303
PA5294	PA5294	0.965	0.585	2.32374395928834e-09	0.00174729592540957
PA5295	PA5295	0.349	0.209	7.18083004345638e-08	0.00511489758649428
PA5296	rep	-1.959	-0.044	2.85545779058687e-71	0.789916639002366
PA5297	poxB	-2.148	0.54	3.87377088975665e-19	0.0629048616615896
PA5298	PA5298	-1.687	-0.053	7.50448394944502e-66	0.698850475664026
PA5299	PA5299	1.277	-0.147	2.17669230337256e-25	0.383597337848678
PA5300	cycB	-0.06	0.468	0.562974501045229	1.06392371593903e-05
PA5301	pauR	0.012	0.089	0.915447672465834	0.532972360573015
PA5302	dadX	0.634	-0.316	1.71246101297489e-06	0.0473825820195329
PA5303	PA5303	-0.072	-0.365	0.527860949138302	0.00318939865890418
PA5304	dadA	0.388	-0.452	0.0237239885298426	0.0232822139197368
PA5305	PA5305	0.964	-0.057	2.81835621563549e-25	0.689447528101429
PA5306	PA5306	0.543	-0.375	1.9855856032191e-05	0.0120317328153524
PA5307	PA5307	0.127	-0.031	0.202451845937168	0.838692992037674
PA5308	lrp	0.15	-0.121	0.341838689973412	0.58022479998906
PA5309	pauB4	-1.103	-0.616	2.81639060247592e-24	7.52874155742528e-08
PA5310	PA5310	-0.406	-0.053	0.000331159769498538	0.75712656612466
PA5311	PA5311	-1.372	-0.117	4.48064864338921e-26	0.500404829795903
PA5312	pauC	-1.311	-0.472	1.13072282817421e-35	5.22510653506576e-05
PA5313	gabT2	-1.692	-0.587	6.60332919252103e-69	1.19601407261619e-08
PA5314	PA5314	-1.924	-0.677	8.70277980402352e-81	1.86081033653728e-10
PA5315	rpmG	0.672	-0.172	0.000460155664580704	0.520381906777565
PA5316	rpmB	0.655	-0.096	0.000929579539674603	0.749561073283848
PA5316.1	PA5316.1	0.101	0.552	0.810055457267419	0.247874904833724
PA5317	PA5317	-0.244	-0.546	0.001194276169403	2.27131416737444e-12
PA5318	PA5318	-0.057	-0.244	0.633332428734464	0.0785629909210658
PA5319	radC	0.073	0.238	0.382150982550643	0.0103015945759697
PA5320	coaC	-1.689	0.317	2.57668631238469e-55	0.0103611188966437
PA5321	dut	-1.868	-0.046	3.525207197282e-49	0.813677771027381
PA5322	algC	-0.092	-0.055	0.525399859055393	0.797891334640894
PA5323	argB	-0.019	-0.073	0.906621961964125	0.75102134756397
PA5324	sphR	1.388	-0.077	4.28286178104313e-71	0.510418806091652
PA5325	sphA	0.586	0.266	0.000570937810614116	0.232218779922551
PA5326	sphD	0.589	-0.216	0.000110406084239992	0.314372574284466
PA5327	sphC	0.781	0.125	2.60173340211947e-05	0.667168647278054
PA5328	sphB	0.977	-0.022	0.00400624508630523	0.971540759856839
PA5329	PA5329	-0.308	-0.079	0.0011144903578086	0.554805498378832

PA5330	PA5330	0.049	0.234	0.474918363474828	0.0014182406937889
PA5331	pyrE	-1.412	0.06	1.87849031996796e-59	0.634358998176168
PA5332	crc	-0.436	0.151	1.5927654136223e-05	0.246862649580822
PA5333	PA5333	0.195	0.218	0.110718861059879	0.144601723144634
PA5334	rph	-0.37	-0.043	5.10482812984518e-11	0.597786900784446
PA5335	PA5335	-0.596	0.38	6.84622536664385e-09	0.00079916743806678
PA5336	gmk	-1.329	0.135	3.18410836187065e-45	0.239809318692281
PA5337	rpoZ	-0.881	0.179	4.79803502697949e-27	0.0740548295485523
PA5338	spoT	-1.43	-0.164	3.1321310044901e-54	0.16246583076736
PA5339	PA5339	-2.437	-0.295	3.66967222095564e-63	0.103562588827588
PA5340	PA5340	-2.5	-0.102	7.12396420587573e-32	0.755987517050185
PA5341	PA5341	-0.011	1.498	0.960935645147603	1.43027672826647e-13
PA5342	PA5342	-0.574	-0.001	2.42946318319437e-05	0.995919413653092
PA5343	PA5343	-0.434	0.138	0.000559678182439632	0.412056883869122
PA5344	oxyR	-0.346	-0.025	4.26291969156142e-07	0.81771782514917
PA5345	recG	-0.274	-0.063	0.00228532343983449	0.627676582217417
PA5346	sadB	0.315	-0.002	0.00015675586556808	0.987889954201782
PA5347	PA5347	1.199	0.281	4.22166619508653e-20	0.0853721307953523
PA5348	PA5348	4.203	0.44	6.23198821697435e-247	0.00252265627940375
PA5349	rubB	0.943	-0.05	8.15403194071527e-35	0.667958148328664
PA5350	rubA2	1.215	0.041	4.36401625928633e-33	0.804514489908001
PA5351	rubA1	0.008	0.32	0.955665989549174	0.0558866687025328
PA5352	PA5352	2.547	-0.248	4.35272577380819e-18	0.657886138007396
PA5353	glcF	2.611	0.216	2.033802272886e-50	0.442323074142451
PA5354	glcE	2.38	0.12	6.61449436020541e-30	0.745977332611033
PA5355	glcD	1.531	0.269	1.8716874926345e-45	0.0549292832580121
PA5356	glcC	0.19	-0.299	0.190583289049062	0.0846081779345888
PA5357	PA5357	-0.443	0.835	0.00225271583401954	1.08066518122529e-08
PA5358	ubiA	-0.332	0.136	2.32166974857825e-05	0.16189325751343
PA5359	PA5359	1.115	0.16	4.43949342190054e-22	0.301746921166291
PA5360	phoB	0.353	-0.185	0.000733175595071339	0.166447417711189
PA5361	phoR	-0.395	0.222	1.85068609493774e-05	0.0366040111040756
PA5362	PA5362	-1.375	-0.467	1.08460126403608e-32	0.000221850371161643
PA5363	PA5363	-0.793	-0.058	1.11662916221383e-12	0.731860970066386
PA5364	PA5364	0.246	-0.037	5.28810536207379e-05	0.688431794166447
PA5365	phoU	0.247	-0.226	0.0848171066878019	0.20927553754381
PA5366	pstB	0.517	-0.254	0.000561276305929796	0.187136777185563
PA5367	pstA	0.067	-0.005	0.728243354072201	0.987527960244537
PA5368	pstC	-0.035	-0.24	0.863931928617571	0.335291994030161
PA5369	pstS	0.378	-0.512	0.0516484508208937	0.0229881303822652
PA5369.1	PA5369.1	0.646	1.051	0.0221465691954348	0.000688513636234001
PA5369.2	PA5369.2	0.755	-0.541	NA	NA
PA5369.3	PA5369.3	-1.99	0.488	1.04130976875774e-34	0.00922305035778761
PA5369.4	PA5369.4	-1.38	0.646	4.70926771860526e-10	0.0118106157145743
PA5369.5	PA5369.5	0.595	-0.627	0.405319658292292	0.512757268509979
PA5370	PA5370	-0.989	-0.178	1.59569872319964e-15	0.261048041850306
PA5371	PA5371	0.305	0.278	2.03304184039622e-07	1.29533005282706e-05
PA5372	betA	0.352	0.144	0.00297803382694589	0.364330499089745
PA5373	betB	0.204	-0.094	0.0406142809008379	0.494581546210781
PA5374	betI	-0.387	-0.007	6.63048924044783e-05	0.964639406813457

PA5375	betT1	-1.183	-0.246	2.58294202059186e-29	0.0367300149102169
PA5376	cbcV	1.749	-0.153	2.81735957403273e-53	0.32667439823316
PA5377	cbcW	1.241	-0.252	4.11730536452794e-25	0.0980860314641833
PA5378	cbcX	1.43	-0.217	6.84938610668544e-38	0.126129331376074
PA5379	sdaB	1.163	0.637	5.64532267499036e-10	0.00323542028347313
PA5380	gbdR	3.99	0.239	1.0585809868671e-229	0.135112259861918
PA5381	PA5381	2.295	0.28	9.64091844047054e-28	0.334265145627024
PA5382	PA5382	-0.094	-0.159	0.527479776396921	0.411080906487244
PA5383	PA5383	-4.701	-4.083	9.53320843079868e-113	5.34455171494122e-118
PA5384	hocS	1.005	0.144	0.00524900137988788	0.811933103064747
PA5385	cdhB	0.256	-0.087	0.422868878616324	0.863528131849727
PA5386	cdhA	1.093	0.091	0.000164446515404681	0.85532061065907
PA5387	cdhC	1.214	0.418	1.69841805869089e-05	0.29315049811349
PA5388	caiX	1.734	0.406	2.11197862410587e-22	0.0822613503886457
PA5389	cdhR	1.175	-0.224	1.38277206377609e-25	0.13060252893655
PA5390	PA5390	-0.016	0.111	0.912095961177686	0.565505562502061
PA5391	PA5391	0.828	-0.188	6.28986539464537e-05	0.561538389569421
PA5392	PA5392	0.921	-0.926	5.41304778253092e-05	0.00308129672108158
PA5393	PA5393	0.769	-0.023	3.5591247283273e-09	0.918176224209309
PA5394	cls	0.223	0.091	0.0210929526646305	0.496542743889128
PA5395	PA5395	1.182	0.079	9.02178488015534e-16	0.729512394831169
PA5396	PA5396	3.46	0.23	2.44776759455348e-124	0.267502480726817
PA5397	PA5397	4.276	-0.243	3.44125313004351e-58	0.605008982703623
PA5398	dgcA	2.926	0.167	4.6643589872744e-92	0.421381582995403
PA5399	dgcB	2.662	0.109	2.53461258652726e-45	0.719384842964942
PA5400	PA5400	3.096	0.187	3.16571299173351e-52	0.599415143920004
PA5401	PA5401	2.399	0.007	3.64641179943918e-21	0.988504443120905
PA5402	PA5402	-1.562	-0.437	1.04812076206214e-22	0.0131302733173041
PA5403	PA5403	-1.609	0.344	6.98041098246871e-15	0.11935984232498
PA5404	PA5404	-1.102	-0.298	0.0278002497905255	0.64891246960908
PA5405	PA5405	-1.291	-0.741	0.00744931503545124	0.189199569867865
PA5406	PA5406	0.106	0.166	0.745098486259868	0.716153173868006
PA5407	PA5407	0.435	0.419	0.285869703792457	0.434852912028933
PA5408	PA5408	0.81	0.331	1.85713247295317e-10	0.0307240252403139
PA5409	PA5409	0.516	0.174	7.20154380377385e-07	0.192261885839846
PA5410	gbcA	3.852	0.165	2.16528491805135e-82	0.586664361711589
PA5411	gbcB	4.012	0.096	5.4711882793939e-84	0.791215991186956
PA5412	PA5412	-0.385	-0.01	0.000594151055413342	0.957090979225992
PA5413	ltaA	-0.831	-0.316	9.82172554960201e-07	0.136002518891356
PA5414	PA5414	-0.876	-0.305	6.37407883282597e-13	0.0338760676492106
PA5415	glyA1	-1.702	-0.811	2.14392319256779e-16	0.000491876021738374
PA5416	soxB	3.267	-0.141	9.82922513206407e-56	0.677698995795013
PA5417	soxD	3.187	-0.035	8.93387292882285e-34	0.942951367203495
PA5418	soxA	3.092	-0.039	1.04333833045901e-53	0.909079358061744
PA5419	soxG	2.821	-0.109	4.36339229140535e-39	0.762961666935031
PA5420	purU2	2.656	-0.256	9.16365592840688e-34	0.429602896009991
PA5421	fdhA	3.75	0.373	1.1857928284821e-74	0.165697663453405
PA5422	PA5422	1.288	-0.284	8.97707725295063e-35	0.0257524019771392
PA5423	PA5423	0.562	-0.053	6.53182795846518e-11	0.689447528101429
PA5424	PA5424	2.243	0.108	7.11774494205543e-27	0.735559539466944

PA5425	purK	-0.888	-0.185	4.92041627949607e-12	0.268462530082558
PA5426	purE	-1.18	-0.196	9.67702267351299e-23	0.194069202199516
PA5427	adhA	2.762	0.084	8.48516448269746e-206	0.536504354703857
PA5428	PA5428	0.227	-0.133	0.00803558532186096	0.226308879663593
PA5429	aspA	-1.365	-0.072	3.7490487868685e-26	0.715391909565879
PA5430	PA5430	-0.36	-0.039	0.000186118673499104	0.795347800816731
PA5431	PA5431	-0.061	0.348	0.725168610666936	0.072955848234022
PA5432	PA5432	-0.667	-0.2	2.08528666822235e-07	0.20400852477342
PA5433	PA5433	-0.62	-0.2	3.82508027190383e-07	0.180706737099715
PA5434	mtr	-1.185	0.242	8.71418016674912e-33	0.0177499674718388
PA5435	PA5435	0.617	-0.535	8.88537017501059e-10	8.6461477457346e-07
PA5436	PA5436	0.515	-0.508	4.34893499017559e-09	6.67213813387616e-08
PA5437	PA5437	-1.236	0.247	1.10239497103311e-13	0.201530491104451
PA5438	PA5438	0.17	0.186	0.0473218039734858	0.0688256861267385
PA5439	PA5439	0.917	0.06	8.51553595449645e-34	0.596634177726375
PA5440	PA5440	1.04	0.116	2.03864983905043e-16	0.546314466221578
PA5441	PA5441	-1.215	-0.133	1.6341783807654e-53	0.186378956194175
PA5442	PA5442	0.562	0.353	1.47628926606908e-06	0.00941486435212004
PA5443	uvrD	-0.508	-0.001	9.44766813017147e-19	0.988788363440197
PA5444	PA5444	1.586	0.457	1.67463340862469e-37	0.00147157449863861
PA5445	PA5445	-0.485	0.093	0.00127441025360217	0.67352303429849
PA5446	PA5446	-3.392	-0.225	7.28819877875593e-44	0.516626921709608
PA5447	wbpZ	0.63	-0.017	3.49412401659238e-12	0.908347397354863
PA5448	wbpY	1.85	0.128	1.97117419880289e-35	0.560260916667116
PA5449	wbpX	2.43	-0.121	7.23086474070366e-53	0.610859117818715
PA5450	wzt	2.112	-0.158	6.60683228618146e-76	0.323083581365798
PA5451	wzm	1.459	-0.188	2.46539180121355e-43	0.188041789211355
PA5452	wbpW	2.275	-0.156	5.42277967177927e-99	0.29096469309846
PA5453	gmd	2.207	-0.319	1.60890967180011e-152	0.00124955987069159
PA5454	rmd	1.012	-0.092	5.29226994629075e-30	0.463352678484182
PA5455	PA5455	-0.177	-0.041	0.0348118364255868	0.745165497315887
PA5456	PA5456	0.492	-0.188	9.77015581910061e-06	0.188141027207798
PA5457	PA5457	0.118	-0.158	0.439164280556581	0.43503705331025
PA5458	PA5458	0.168	-0.024	0.261618771390691	0.917438045254244
PA5459	PA5459	0.859	-0.226	5.6301783898635e-06	0.383597337848678
PA5460	PA5460	-0.507	-0.501	0.0290122004160331	0.0714815845918448
PA5461	PA5461	0.231	0.535	0.0772009266472935	0.000146560705133945
PA5462	PA5462	-1.317	0.438	5.6353664133549e-37	3.74769235247762e-05
PA5463	PA5463	0.343	0.038	0.00244258329180896	0.832813886663509
PA5464	PA5464	0.084	0.261	0.462309596772433	0.0442770834747294
PA5465	PA5465	0.527	0.243	1.67820565680916e-11	0.00838663597782795
PA5466	PA5466	-0.126	0.294	0.424445372888391	0.110527726751342
PA5467	PA5467	-0.76	0.211	4.88014659076144e-08	0.215068667736375
PA5468	PA5468	0.811	0.419	1.05931490605848e-09	0.00778239002526488
PA5469	PA5469	-0.395	0.297	0.0751841974918687	0.251324376885864
PA5470	PA5470	1.128	0.013	5.59301473888821e-14	0.957267807207431
PA5471	armZ	2.188	-0.275	6.99381591011231e-61	0.107796225491916
PA5471.1	PA5471.1	-0.042	0.248	0.859200691140463	0.404004804763532
PA5472	PA5472	-1.01	-0.142	6.84355259748169e-37	0.133868959741096
PA5473	PA5473	0.944	0.109	2.7077050510044e-14	0.540819621416753

PA5474	PA5474	-0.212	0.227	0.000128972929382298	0.000157210565522245
PA5475	PA5475	5.558	0.35	7.36511705148467e-180	0.192468094577877
PA5476	citA	0.041	0.536	0.793563680574717	0.000993538430028564
PA5477	PA5477	-0.091	0.163	0.379331850241563	0.191919203631738
PA5478	PA5478	-0.324	0.051	4.21297484717237e-05	0.653313749576219
PA5479	glpP	-0.998	0.167	5.75064433828351e-16	0.283566935558615
PA5480	PA5480	-1.163	-0.55	7.60627277578719e-10	0.00747947778967105
PA5481	PA5481	-4.117	0.364	9.58841200663879e-65	0.244007157811421
PA5482	PA5482	-3.537	0.676	1.73260615455395e-43	0.0221361697777076
PA5483	algB	0.598	-0.302	1.12522704674833e-08	0.0146939979913882
PA5484	kinB	0.398	-0.242	1.95491634652521e-06	0.0143540036321478
PA5485	ampDh2	-0.64	-0.114	5.11450466337208e-11	0.377988553183792
PA5486	PA5486	-1.334	0.04	9.19134943877959e-21	0.858822893547192
PA5487	PA5487	0.115	0.061	0.0833997433434574	0.499622361135486
PA5488	PA5488	-0.309	-0.136	1.27646700373934e-05	0.120693667760849
PA5489	dsbA	-0.185	-0.138	0.0516218837289722	0.256500462547202
PA5490	cc4	0.87	-0.168	2.02578452049163e-17	0.206991925416997
PA5491	PA5491	-1.019	-0.033	1.74451249541666e-43	0.767706446523565
PA5492	PA5492	0.069	-0.292	0.469048922460703	0.00550905752004988
PA5492.1	NA	2.244	2.178	3.24987225700516e-05	0.000273235561655469
PA5493	polA	-0.739	0.155	7.26219142643946e-13	0.247320548625688
PA5494	PA5494	1.214	0.16	4.61717949506895e-19	0.391999019541588
PA5495	thrB	0.351	0.268	0.0019954327793878	0.0470077489092629
PA5496	nrdJb	0.726	0.161	2.08710736907494e-10	0.289364428351414
PA5497	nrdJa	0.526	0.184	1.05794561070375e-06	0.179142726206849
PA5498	znuA	1.715	-0.006	1.78498481394576e-64	0.972892821594188
PA5499	zur	2.532	0.251	1.91716004426559e-159	0.0320640744015149
PA5500	znuC	2.322	0.166	1.89322387538581e-150	0.164094212237259
PA5501	znuB	1.676	0.142	5.85744786434719e-84	0.234956208341637
PA5502	PA5502	-0.926	-0.004	4.12185061706859e-19	0.98434178340702
PA5503	PA5503	-1.851	-0.417	5.73139304366136e-35	0.0130696786744287
PA5504	PA5504	-1.483	-0.171	1.28880223568618e-26	0.330408002823512
PA5505	PA5505	-0.601	-0.282	4.96271142681508e-06	0.0798112435889345
PA5506	PA5506	1.175	-0.291	3.57128162377236e-06	0.428987804910561
PA5507	PA5507	1.911	-0.203	4.21830783341259e-17	0.564946118997735
PA5508	pauA7	2.004	-0.393	6.80923751892226e-15	0.28316260152865
PA5509	PA5509	1.614	0.081	1.03177257436231e-13	0.830968200446284
PA5510	PA5510	1.674	-0.052	8.37490177816127e-25	0.850669260559471
PA5511	mifR	-1.189	0.217	9.67129633365425e-34	0.0580539996561417
PA5512	mifS	-2.317	0.314	4.59336966216769e-70	0.0217803372486876
PA5513	poxA	-0.69	0.073	2.09278682966825e-14	0.545544528264654
PA5514	PA5514	0.925	-0.047	2.54846423890836e-14	0.818585555145163
PA5515	PA5515	-0.848	0.494	5.70148179519291e-21	1.29435566840466e-07
PA5516	pdxY	-1.256	-0.08	1.27333305012523e-25	0.648371436065503
PA5517	PA5517	-0.944	0.385	1.34367381809969e-12	0.00599254481309806
PA5518	PA5518	-0.739	0.32	2.23602009888764e-18	0.00047959178196945
PA5519	PA5519	0.09	0.353	0.295007552099675	9.47456530970818e-05
PA5520	PA5520	-0.746	0.029	1.08744173853811e-21	0.812932974839116
PA5521	PA5521	0.734	-0.262	5.72832423935553e-16	0.0144918679101616
PA5522	pauA6	0.585	-0.385	9.94885864056542e-09	0.00090842491018656

PA5523	PA5523	0.28	-0.26	0.00297803382694589	0.0183145908695084
PA5524	PA5524	0.972	0.117	1.61344785208603e-13	0.536208544881406
PA5525	PA5525	1.027	-0.231	8.93840780955366e-37	0.0233239837159804
PA5526	PA5526	1.822	-0.061	3.00111888815525e-47	0.760205785941554
PA5527	PA5527	1.455	0.353	9.26839138509757e-52	0.00142700905833321
PA5528	PA5528	-0.036	-0.234	0.773793439077373	0.10603357858415
PA5529	PA5529	-0.13	-0.056	0.399135078654184	0.809897660068608
PA5530	PA5530	-3.659	0.615	6.2710247240081e-60	0.0144693185051432
PA5531	tonB1	-4.139	-0.254	8.49777294515115e-178	0.166766372932745
PA5532	PA5532	0.289	-0.073	0.0219418612075332	0.699562934133393
PA5533	PA5533	-1.414	-0.082	1.75350817568661e-40	0.547224385921538
PA5534	PA5534	4.546	0.182	4.41738290751474e-74	0.638313311139219
PA5535	PA5535	4.278	0.251	3.06251799462194e-107	0.355383149912635
PA5536	dkA2	6.153	-0.089	8.48025448507501e-83	0.897807642982476
PA5537	PA5537	1.068	0.198	3.93593668741024e-13	0.322689673557135
PA5538	amiA	4.809	0.106	7.992057763228e-112	0.767429815596448
PA5539	PA5539	5.435	0.62	7.23057355520727e-79	0.127644357009456
PA5540	PA5540	4.603	0.119	1.47416986830252e-96	0.763625032494313
PA5541	pyrQ	4.408	-0.165	2.88612419694417e-85	0.662569483457921
PA5542	PA5542	3.566	0.087	8.97723787725319e-297	0.594892464794722
PA5543	PA5543	4.517	0.478	2.93403803510266e-123	0.101115623785408
PA5544	PA5544	4.399	0.437	3.0515227879017e-217	0.0132896818761872
PA5545	PA5545	2.614	0.161	1.3884675625297e-126	0.27281837182808
PA5546	PA5546	0.46	-0.034	3.79261487322213e-06	0.826671291003959
PA5547	PA5547	-0.49	-0.117	3.3833756391551e-06	0.411940967030182
PA5548	PA5548	0.035	0.233	0.75545732140042	0.0630543865473789
PA5549	glmS	0.746	-0.134	0.000309949794115272	0.662303231731819
PA5550	glmR	-0.741	-0.031	0.000304370832908604	0.923684341587075
PA5551	PA5551	-0.161	0.231	0.0951800700014023	0.0350944281415125
PA5552	glmU	-0.647	-0.135	5.6655497967669e-29	0.0522389805198177
PA5553	atpC	-1.052	0.078	1.38721901301757e-08	0.787227093323352
PA5554	atpD	-0.87	-0.042	1.41514584223921e-05	0.898142606097448
PA5555	atpG	-1.357	-0.114	6.8936399484818e-11	0.717162542282504
PA5556	atpA	-0.998	-0.115	1.40941404297745e-07	0.688431794166447
PA5557	atpH	-1.238	-0.18	1.02634758458048e-08	0.56284730033146
PA5558	atpF	-1.026	-0.07	1.1481420207007e-07	0.821281796362002
PA5559	atpE	-0.907	0.141	4.59998214772686e-08	0.553234893411668
PA5560	atpB	-0.83	0.067	1.26397502641539e-07	0.783998630898638
PA5561	atpI	-1.733	0.337	2.68861299578172e-48	0.0138342712006777
PA5562	spoOJ	-0.204	-0.22	0.0292992489497777	0.0463464793817224
PA5563	soj	-0.446	-0.42	3.97724991371733e-06	7.73298196684816e-05
PA5564	gidB	-0.857	-0.113	4.54147578485866e-21	0.342165122751589
PA5565	gidA	-0.305	-0.026	5.53484198384807e-05	0.82544155436988
PA5566	PA5566	1.318	-0.937	3.32552096313894e-12	0.000531531175862746
PA5567	PA5567	-0.344	0.018	0.000251666540871742	0.905461939643756
PA5568	PA5568	-1.81	-0.232	7.64538928235398e-31	0.257161876948954
PA5569	rnxA	-2.267	-0.049	5.50861509417193e-152	0.707046256883477
PA5570	rpmH	-1.491	0.055	2.42023864850298e-56	0.696465314879823