

SUPPLEMENTARY INFORMATION

Dual-seq transcriptomics reveals the battle for iron during *Pseudomonas aeruginosa* acute murine pneumonia

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Table S1: Changes in bacterial gene expression in response to infection measured by RNA-seq.

Fold changes greater than 1 indicate that the gene was up-regulated during infection compared to *in vitro* growth conditions. Fold changes inferior to -1 indicate that the gene was down-regulated during infection compared to *in vitro* growth conditions.

Locus	Gene	Fold change	P-value
PA0694	<i>exbD2</i>	- inf	3.75E-29
PA0700	<i>PA0700</i>	- inf	1.95E-20
PA1355	<i>PA1355</i>	- inf	4.89E-21
PA1744	<i>PA1744</i>	- inf	4.26E-05
PA2140	<i>PA2140</i>	- inf	3.9E-20
PA2141	<i>PA2141</i>	- inf	2.45E-21
PA2142a	<i>PA2142a</i>	- inf	8.5E-107
PA2149	<i>PA2149</i>	- inf	3.57E-50
PA2161	<i>PA2161</i>	- inf	9.03E-45
PA2170	<i>PA2170</i>	- inf	4.49E-29
PA2183	<i>PA2183</i>	- inf	2.85E-46
PA4210	<i>phzA1</i>	- inf	3.62E-41
PA3407	<i>hasAp</i>	339.4891531	0
PA3406	<i>hasD</i>	293.6076547	1.1E-134
PA3405	<i>hasE</i>	214.3144174	9.2E-156
PA3408	<i>hasR</i>	78.77775938	6E-150
PA3432	<i>PA3432</i>	68.45287349	5E-113
PA0046	<i>PA0046</i>	66.84638796	2.5E-182
PA0045	<i>PA0045</i>	59.74432959	1.1E-118
PA1724	<i>pscK</i>	59.64410648	4.73E-64
PA1702	<i>PA1702</i>	58.71038873	2.3E-109
PA4219	<i>PA4219</i>	58.38546057	1.5E-140
PA1696	<i>pscO</i>	58.05630774	7.23E-70
PA4229	<i>pchC</i>	50.32981535	2.4E-169
PA4228	<i>pchD</i>	49.83010385	4.4E-179
PA4220	<i>PA4220</i>	48.71531486	7.5E-127
PA1701	<i>PA1701</i>	47.10390838	3.64E-52
PA1700	<i>PA1700</i>	45.14675909	6.9E-113
PA4218	<i>PA4218</i>	43.72936932	8.9E-167
PA4221	<i>fptA</i>	41.90985241	5.8E-204
PA4230	<i>pchB</i>	41.25121602	1.5E-229

PA1698	<i>popN</i>	40.3665478	1.2E-141
PA4231	<i>pchA</i>	40.04091029	7.08E-62
PA3901	<i>fecA</i>	40.01679069	4.7E-164
PA1721	<i>pscH</i>	38.72981228	2.6E-105
PA1722	<i>pscl</i>	37.94947723	8.4E-165
PA1720	<i>pscG</i>	34.72730905	4.3E-135
PA0047	<i>PA0047</i>	34.17466692	6.1E-134
PA1697	<i>PA1697</i>	33.93577148	2.6E-122
PA1717	<i>pscD</i>	33.87041724	4E-119
PA0781	<i>PA0781</i>	32.46185586	8.68E-81
PA1715	<i>pscB</i>	32.21254695	4.36E-88
PA1699	<i>PA1699</i>	32.14906382	7.3E-143
PA1723	<i>pscJ</i>	31.38739188	9.85E-94
PA4710	<i>phuR</i>	29.46457619	1.5E-131
PA1725	<i>pscl</i>	29.43609137	4.73E-91
PA0044	<i>exoT</i>	28.99746348	4.1E-198
PA3431	<i>PA3431</i>	28.18865328	8.33E-68
PA0252	<i>PA0252</i>	26.2462289	8.48E-76
PA1692	<i>PA1692</i>	25.89662161	3.42E-50
PA4222	<i>PA4222</i>	25.72795345	1.5E-125
PA1673	<i>PA1673</i>	25.55033365	1.2E-175
PA4223	<i>PA4223</i>	25.33171536	1.4E-152
PA1695	<i>pscP</i>	24.57378507	6.27E-80
PA1716	<i>pscC</i>	24.17878864	1.9E-142
PA4224	<i>pchG</i>	24.08912465	3.2E-142
PA4225	<i>pchF</i>	23.92644285	1.1E-171
PA1719	<i>pscF</i>	23.73656242	2.1E-141
PA3284	<i>PA3284</i>	23.72388031	1.4E-223
PA1708	<i>popB</i>	23.46316687	2.71E-64
PA1709	<i>popD</i>	22.99047857	5.87E-60
PA1556	<i>ccoO2</i>	22.05988275	4.4E-206
PA4616	<i>PA4616</i>	21.70948942	3.3E-120
PA4226	<i>pchE</i>	21.63037759	3.3E-153
PA1321	<i>cyoE</i>	21.58802996	2.03E-39
PA1694	<i>pscQ</i>	21.35266541	6.4E-68
PA4470	<i>fumC1</i>	20.73265425	6.7E-169
PA1913	<i>PA1913</i>	20.38996564	3.4E-79
PA1557	<i>ccoN2</i>	20.35559448	6.8E-210
PA5374	<i>betI</i>	19.96273641	2.1E-158
PA0170	<i>PA0170</i>	19.55395549	7.83E-20
PA4227	<i>pchR</i>	19.41122071	4.9E-108
PA3877	<i>narK1</i>	19.20335595	2.3E-142
PA1718	<i>pscE</i>	18.96015184	2.8E-151

PA4836	<i>PA4836</i>	18.88411805	9.67E-56
PA1555	<i>ccoP2</i>	18.85787323	3.1E-163
PA1691	<i>pscT</i>	18.83512065	9.35E-31
PA2203	<i>PA2203</i>	18.64286815	7.39E-11
PA3610	<i>potD</i>	18.57233132	2.89E-49
PA3283	<i>PA3283</i>	18.31026425	1.5E-156
PA1704	<i>pcrR</i>	18.16689231	1.95E-44
PA3409	<i>PA3409</i>	18.11019455	2.48E-22
PA4895	<i>PA4895</i>	17.8386417	1.93E-22
PA5440	<i>PA5440</i>	17.72112204	1.4E-136
PA0165	<i>PA0165</i>	17.13722144	3.5E-144
PA5373	<i>betB</i>	16.78697354	1E-143
PA5372	<i>betA</i>	16.54674367	5.9E-137
PA1703	<i>pcrD</i>	16.48331315	3.5E-128
PA4709	<i>PA4709</i>	16.12258907	3.8E-108
PA1713	<i>exsA</i>	15.77754998	1.4E-158
PA4896	<i>PA4896</i>	15.57229171	3.89E-25
PA3237	<i>PA3237</i>	15.2513981	5.34E-25
PA4599	<i>mexC</i>	15.06556594	3.52E-23
PA4837	<i>PA4837</i>	15.02333649	6.53E-55
PA1555.1	<i>ccoQ2</i>	14.95262457	1.2E-166
PA3841	<i>exoS</i>	14.50797821	9.5E-46
PA2463	<i>PA2463</i>	14.41908634	8.6E-25
PA3282	<i>PA3282</i>	14.38693082	3.56E-62
PA4771	<i>lldD</i>	14.30898075	2.31E-91
PA4252	<i>rplX</i>	14.10343814	8.31E-65
PA1791	<i>PA1791</i>	13.5345806	1.84E-64
PA1196	<i>PA1196</i>	13.50402262	7.05E-58
PA2451	<i>PA2451</i>	13.1633457	2.3E-115
PA4262	<i>rplD</i>	12.85051191	4.73E-76
PA4772	<i>PA4772</i>	12.8383315	2.09E-55
PA4386	<i>groES</i>	12.82660864	6.3E-175
PA1714	<i>exsD</i>	12.62609474	1E-157
PA3404	<i>PA3404</i>	12.59653504	7.02E-74
PA4855	<i>purD</i>	12.59182528	4.1E-168
PA4932	<i>rplI</i>	12.42599807	5.54E-83
PA4933	<i>PA4933</i>	12.41559284	1.92E-55
PA1319	<i>cyoC</i>	12.41258152	1.13E-40
PA4843	<i>PA4843</i>	12.31394549	2.2E-105
PA1228	<i>PA1228</i>	12.20183808	3.86E-25
PA1999	<i>dhcA</i>	12.19413013	3.7E-155
PA3900	<i>PA3900</i>	12.19011776	1.85E-11
PA2453	<i>PA2453</i>	11.91279036	1.62E-40

PA3278	<i>PA3278</i>	11.88009383	9.43E-64
PA1320	<i>cyoD</i>	11.86154614	1.15E-14
PA1277	<i>cobQ</i>	11.64908241	1.23E-30
PA4585	<i>rtcA</i>	11.61308503	3.58E-27
PA2126	<i>PA2126</i>	11.5188207	7.68E-26
PA4256	<i>rplP</i>	11.47208015	3.41E-65
PA4690.2	<i>PA4690.2</i>	11.40442872	6.57E-16
PA3880	<i>PA3880</i>	11.4025707	2.24E-38
PA5369.2	<i>PA5369.2</i>	11.2871496	2.4E-17
PA4271	<i>rplL</i>	11.19055005	4.18E-69
PA3641	<i>PA3641</i>	10.97069899	8.3E-175
PA4257	<i>rpsC</i>	10.94734428	1.43E-55
PA4761	<i>dnaK</i>	10.94321744	1.76E-47
PA4708	<i>phuT</i>	10.93383482	3.8E-103
PA3410	<i>PA3410</i>	10.89577291	1.54E-16
PA4613	<i>katB</i>	10.80761466	6.63E-82
PA1911	<i>femR</i>	10.78522021	1.13E-10
PA4348	<i>PA4348</i>	10.75261624	1.4E-176
PA4251	<i>rplE</i>	10.61098896	1.18E-74
PA1274	<i>PA1274</i>	10.52354887	1.5E-28
PA4280.2	<i>PA4280.2</i>	10.51680495	2.81E-29
PA3727	<i>PA3727</i>	10.46978605	6.01E-58
PA4254	<i>rpsQ</i>	10.42821426	2.54E-57
PA1279	<i>cobU</i>	10.38298414	1.26E-27
PA1596	<i>htpG</i>	10.3526677	1.9E-169
PA1706	<i>pcrV</i>	10.29492997	1.5E-151
PA3608	<i>potB</i>	10.26661471	8.78E-22
PA3337	<i>rfaD</i>	10.25584227	9.7E-128
PA0545	<i>PA0545</i>	10.18691807	1.99E-57
PA4571	<i>PA4571</i>	10.15595128	2.8E-131
PA3609	<i>potC</i>	10.12217696	5.57E-14
PA5555	<i>atpG</i>	10.02693492	8.07E-53
PA5375	<i>betT1</i>	9.8931015	3.11E-64
PA1705	<i>pcrG</i>	9.84705053	5.47E-95
PA4586	<i>PA4586</i>	9.840104501	1.61E-46
PA1276	<i>cobC</i>	9.818491108	2.32E-15
PA4155	<i>PA4155</i>	9.64812797	4.37E-11
PA4307	<i>pctC</i>	9.613404862	8.4E-111
PA4762	<i>grpE</i>	9.600370908	6.7E-152
PA4272	<i>rplJ</i>	9.514645785	8.32E-60
PA2004	<i>PA2004</i>	9.424067734	1.28E-28
PA1270	<i>PA1270</i>	9.388715906	2.42E-05
PA4385	<i>groEL</i>	9.380673848	9.66E-60

PA1707	<i>pcrH</i>	9.336339675	1.8E-152
PA4260	<i>rplB</i>	9.295453065	4.28E-61
PA2753	<i>PA2753</i>	9.282953395	4.5E-117
PA0171	<i>PA0171</i>	9.271731341	3.86E-18
PA4468	<i>sodM</i>	9.265359241	2.1E-145
PA4250	<i>rpsN</i>	9.206715199	1.2E-210
PA4760	<i>dnaJ</i>	9.199396224	7.9E-125
PA2034	<i>PA2034</i>	9.16381777	1.45E-55
PA4918	<i>PA4918</i>	9.153411051	5.99E-91
PA3742	<i>rplS</i>	9.138739083	1.5E-46
PA2000	<i>dhcB</i>	9.086790929	9E-141
PA5404	<i>PA5404</i>	8.978370376	1.26E-09
PA0277	<i>PA0277</i>	8.959335788	1.29E-58
PA4467	<i>PA4467</i>	8.829437722	8.5E-135
PA4469	<i>PA4469</i>	8.811967203	9.1E-140
PA3600	<i>PA3600</i>	8.80061797	1.52E-27
PA2500	<i>PA2500</i>	8.652225413	5.19E-30
PA0625	<i>PA0625</i>	8.631090875	9.7E-108
PA5139	<i>PA5139</i>	8.606228968	2.92E-82
PA2033	<i>PA2033</i>	8.579612772	4E-125
PA4261	<i>rplW</i>	8.542051598	1.75E-58
PA5553	<i>atpC</i>	8.514482906	3.1E-212
PA2459	<i>PA2459</i>	8.471031175	2.67E-12
PA4835	<i>PA4835</i>	8.377989004	8.89E-22
PA5558	<i>atpF</i>	8.342940247	1.07E-42
PA1278	<i>cobP</i>	8.330431594	1.57E-21
PA1690	<i>pscU</i>	8.187709232	2.29E-16
PA4759	<i>dapB</i>	8.12355718	1.2E-134
PA1912	<i>femI</i>	8.121715653	9.27E-12
PA4707	<i>PA4707</i>	8.112882244	8.04E-55
PA0141	<i>PA0141</i>	8.106446738	1.3E-170
PA1922	<i>PA1922</i>	8.079171085	0.000452
PA3601	<i>PA3601</i>	8.045520837	5.5E-108
PA4583	<i>PA4583</i>	8.03552245	2.6E-39
PA0435	<i>PA0435</i>	8.028317622	2.37E-14
PA3656	<i>rpsB</i>	7.956916088	3.87E-57
PA1317	<i>cyoA</i>	7.905414027	1.26E-68
PA1183	<i>dctA</i>	7.802709305	8.64E-28
PA2003	<i>bdhA</i>	7.771212121	3E-98
PA1546	<i>hemN</i>	7.730943922	1.24E-82
PA1275	<i>cobD</i>	7.667547436	2.07E-13
PA0639	<i>PA0639</i>	7.603263077	3.17E-38
PA3876	<i>narK2</i>	7.601207313	3.21E-29

PA5556	<i>atpA</i>	7.590522187	1.88E-46
PA4471	<i>PA4471</i>	7.549584578	7.2E-101
PA2653	<i>PA2653</i>	7.526931847	1.06E-32
PA1281	<i>cobV</i>	7.524686959	5.75E-10
PA4854	<i>purH</i>	7.521827114	2.3E-149
PA4238	<i>rpoA</i>	7.456125941	2.64E-50
PA4894	<i>PA4894</i>	7.436465606	0.00042
PA5469	<i>PA5469</i>	7.419294505	7.48E-26
PA2398	<i>fpvA</i>	7.406655617	4.19E-88
PA2127	<i>PA2127</i>	7.297889752	2.34E-77
PA1301	<i>PA1301</i>	7.121118861	2.02E-25
PA1280	<i>PA1280</i>	7.064889357	1.47E-12
PA3268	<i>PA3268</i>	6.999640049	1.26E-20
PA4675	<i>PA4675</i>	6.997000637	2.59E-58
PA1273	<i>cobB</i>	6.963448783	1.53E-20
PA1771	<i>estX</i>	6.947504924	2.11E-17
PA4240	<i>rpsK</i>	6.945353013	1.66E-49
PA3899	<i>PA3899</i>	6.930931168	3.51E-18
PA3662	<i>PA3662</i>	6.88858594	1.3E-22
PA5554	<i>atpD</i>	6.841290531	1.7E-44
PA0672	<i>hemO</i>	6.812340466	1.8E-136
PA3865a	<i>PA3865a</i>	6.811154957	7.06E-26
PA4258	<i>rplV</i>	6.800130804	2.48E-67
PA2913	<i>PA2913</i>	6.798132889	2.82E-10
PA3839	<i>PA3839</i>	6.728557515	5.62E-79
PA0638	<i>PA0638</i>	6.728312115	2.37E-31
PA1588	<i>sucC</i>	6.69422493	3.53E-49
PA0618	<i>PA0618</i>	6.686848486	7.28E-69
PA4577	<i>PA4577</i>	6.633283313	1.13E-33
PA1271	<i>PA1271</i>	6.613220969	1.84E-23
PA5016	<i>aceF</i>	6.602432648	2E-174
PA0465	<i>creD</i>	6.593765738	3.62E-16
PA0631	<i>PA0631</i>	6.577460027	1.26E-15
PA3840	<i>PA3840</i>	6.569000618	1.98E-78
PA4263	<i>rplC</i>	6.568728068	5.76E-46
PA3713	<i>spdH</i>	6.531298584	1.4E-81
PA4269	<i>rpoC</i>	6.462879984	3.01E-67
PA4584	<i>PA4584</i>	6.45875024	7.15E-10
PA3913	<i>PA3913</i>	6.452195623	6.23E-37
PA0169	<i>PA0169</i>	6.430738344	2.94E-14
PA0624	<i>PA0624</i>	6.398344181	5.24E-92
PA4239	<i>rpsD</i>	6.379406291	5.33E-47
PA5568	<i>PA5568</i>	6.374702899	3.5E-195

PA1302	<i>PA1302</i>	6.350180816	1.84E-19
PA0636	<i>PA0636</i>	6.342126191	4.07E-82
PA4610	<i>PA4610</i>	6.340276767	4.25E-48
PA4237	<i>rplQ</i>	6.33352945	1.95E-43
PA3728	<i>PA3728</i>	6.308840199	3.36E-43
PA3933	<i>PA3933</i>	6.269877447	5.64E-50
PA3082	<i>gbt</i>	6.246324571	2.11E-58
PA2912	<i>PA2912</i>	6.234191234	3.08E-06
PA2204	<i>PA2204</i>	6.212100137	7.09E-93
PA3729	<i>PA3729</i>	6.204202569	3.9E-124
PA3081	<i>PA3081</i>	6.198571782	1.29E-31
PA4273	<i>rplA</i>	6.191011462	1.27E-65
PA4744	<i>infB</i>	6.170099994	5.22E-34
PA4259	<i>rpsS</i>	6.145227289	1.6E-148
PA0637	<i>PA0637</i>	6.136651594	3.74E-27
PA4919	<i>pncB1</i>	6.105073739	3.5E-115
PA4244	<i>rplO</i>	6.094176534	1.07E-42
PA2630	<i>PA2630</i>	6.085209284	2.56E-98
PA5557	<i>atpH</i>	6.001216563	2.6E-192
PA4935	<i>rpsF</i>	5.991251164	2.81E-64
PA0162	<i>opdC</i>	5.976975326	1.93E-20
PA2905	<i>cobH</i>	5.961671677	1.41E-07
PA0626	<i>PA0626</i>	5.959943453	1.03E-33
PA3730	<i>PA3730</i>	5.934252513	1.1E-16
PA0628	<i>PA0628</i>	5.933946422	2.89E-28
PA3842	<i>PA3842</i>	5.907591173	2.1E-134
PA3887	<i>nhaP</i>	5.844574649	9.9E-79
PA0782	<i>putA</i>	5.83828777	3.1E-116
PA5539	<i>PA5539</i>	5.823474593	2.34E-06
PA4266	<i>fusA1</i>	5.761006003	8.07E-37
PA4706	<i>PA4706</i>	5.760073391	5.74E-24
PA4267	<i>rpsG</i>	5.711642152	1.98E-80
PA5535	<i>PA5535</i>	5.696920286	3.78E-24
PA0403	<i>pyrR</i>	5.677190353	7.57E-24
PA2001	<i>atoB</i>	5.658627379	2.9E-142
PA1148	<i>toxA</i>	5.6522242	8.9E-119
PA4770	<i>lldP</i>	5.650955391	5.08E-30
PA0640	<i>PA0640</i>	5.626850441	3.92E-26
PA3925	<i>PA3925</i>	5.615818917	2.33E-58
PA0434	<i>PA0434</i>	5.614495747	3.21E-13
PA4671	<i>PA4671</i>	5.595829497	2.48E-39
PA2739	<i>pheT</i>	5.595267953	2.4E-130
PA2202	<i>PA2202</i>	5.576010473	1.63E-10

PA0619	<i>PA0619</i>	5.551814536	2.8E-84
PA4246	<i>rpsE</i>	5.537195396	8.01E-35
PA1318	<i>cyoB</i>	5.534483751	4.13E-32
PA0783	<i>putP</i>	5.529541236	8.3E-100
PA3820	<i>secF</i>	5.512546988	7.3E-171
PA4743	<i>rbfA</i>	5.426137286	5.2E-122
PA0755	<i>opdH</i>	5.419109352	6.96E-15
PA3607	<i>potA</i>	5.396752379	6.58E-13
PA3769	<i>guaA</i>	5.381284627	1.9E-172
PA4243	<i>secY</i>	5.375350003	2.75E-33
PA1601	<i>PA1601</i>	5.368107273	1.18E-17
PA1300	<i>PA1300</i>	5.341660241	2.67E-15
PA0641	<i>PA0641</i>	5.333825922	1.34E-28
PA5054	<i>hslU</i>	5.325013597	1.4E-113
PA2903	<i>cobJ</i>	5.316945152	1.09E-09
PA4253	<i>rplN</i>	5.30883948	1.86E-64
PA2686	<i>pfeR</i>	5.305214443	1.74E-22
PA1693	<i>pscR</i>	5.297350302	3.31E-44
PA3281	<i>PA3281</i>	5.280275152	1.69E-26
PA5402	<i>PA5402</i>	5.276787363	4.37E-15
PA1589	<i>sucD</i>	5.273941106	1.24E-62
PA3000	<i>aroP1</i>	5.258722011	1.35E-84
PA0024	<i>hemF</i>	5.247525844	3.18E-96
PA4688	<i>hitB</i>	5.240544163	3.62E-24
PA2402	<i>PA2402</i>	5.231436442	4.2E-163
PA0985	<i>pyoS5</i>	5.207469632	9.19E-35
PA4168	<i>fpvB</i>	5.201317145	1.84E-22
PA5559	<i>atpE</i>	5.187200229	3.13E-47
PA5072	<i>PA5072</i>	5.179163578	4.01E-36
PA3631	<i>PA3631</i>	5.17032439	8.95E-80
PA1805	<i>ppiD</i>	5.16072948	3.8E-171
PA2063	<i>PA2063</i>	5.148076461	1.19E-11
PA4513	<i>PA4513</i>	5.143643813	2.6E-09
PA1115	<i>PA1115</i>	5.131756582	2.17E-10
PA0202	<i>PA0202</i>	5.127827923	1.82E-08
PA2462	<i>PA2462</i>	5.112950122	1.12E-15
PA4241	<i>rpsM</i>	5.110951948	2.2E-183
PA4247	<i>rplR</i>	5.082182342	4.5E-34
PA0751	<i>PA0751</i>	5.051718378	2.16E-08
PA3821	<i>secD</i>	5.046724676	1.8E-159
PA0622	<i>PA0622</i>	5.018471416	1.4E-115
PA5157	<i>PA5157</i>	5.00401407	2.37E-05
PA2850	<i>ohr</i>	5.001532846	1.06E-35

PA5235	<i>glpT</i>	4.987206322	1.26E-78
PA0634	<i>PA0634</i>	4.962193952	5.87E-63
PA4268	<i>rpsL</i>	4.960003402	9.82E-71
PA0633	<i>PA0633</i>	4.945419753	3.4E-89
PA2976	<i>rne</i>	4.945379234	4.4E-90
PA0416	<i>chpD</i>	4.925176424	1.38E-13
PA3651	<i>cdsA</i>	4.923212201	6.5E-106
PA4270	<i>rpoB</i>	4.914644724	1.24E-26
PA3018	<i>PA3018</i>	4.914166687	9.17E-31
PA2904	<i>cobI</i>	4.901978753	7.01E-24
PA3783	<i>PA3783</i>	4.890705837	1.63E-42
PA3912	<i>PA3912</i>	4.884626327	1.41E-35
PA4156	<i>PA4156</i>	4.884054371	2.21E-07
PA0563	<i>PA0563</i>	4.875431177	2.9E-157
PA5504	<i>PA5504</i>	4.855614294	9E-79
PA0527	<i>dnr</i>	4.854277973	3E-117
PA4673	<i>PA4673</i>	4.812600911	9E-130
PA5170	<i>arcD</i>	4.791881719	4.7E-50
PA4598	<i>mexD</i>	4.783628212	1.58E-06
PA0617	<i>PA0617</i>	4.752597893	1.44E-24
PA2392	<i>pvdP</i>	4.706795917	6.5E-143
PA4242	<i>rpmJ</i>	4.6934931	3.77E-53
PA1602	<i>PA1602</i>	4.618575145	4.1E-10
PA4280.5	<i>PA4280.5</i>	4.604193966	1.45E-05
PA5207	<i>PA5207</i>	4.603845284	1.61E-21
PA1429	<i>PA1429</i>	4.589995935	4.28E-30
PA1712	<i>exsB</i>	4.583089462	1.04E-74
PA2400	<i>pvdJ</i>	4.570848145	3.8E-150
PA4923	<i>PA4923</i>	4.55830534	9.63E-34
PA2740	<i>pheS</i>	4.54523313	3.5E-125
PA0140	<i>ahpF</i>	4.53054852	1.1E-102
PA3866	<i>PA3866</i>	4.523005441	2.2E-106
PA2952	<i>etfB</i>	4.518458473	1.57E-54
PA3561	<i>fruK</i>	4.512081931	2.26E-18
PA0623	<i>PA0623</i>	4.48603363	4.95E-30
PA3458	<i>PA3458</i>	4.478134158	1.99E-52
PA3562	<i>frul</i>	4.477296252	3.66E-14
PA2399	<i>pvdD</i>	4.465985006	4.92E-81
PA3802	<i>hisS</i>	4.418822004	1.4E-107
PA0413	<i>chpA</i>	4.411901366	9E-103
PA0578	<i>PA0578</i>	4.392560763	2.08E-51
PA3643	<i>lpxB</i>	4.379639114	5.31E-37
PA0025	<i>aroE</i>	4.377252228	1.77E-38

PA4934	<i>rpsR</i>	4.360791385	3.42E-84
PA0627	<i>PA0627</i>	4.3591729	3.9E-06
PA0126	<i>PA0126</i>	4.35873371	8.3E-23
PA0150	<i>PA0150</i>	4.357047668	0.000568
PA3124	<i>PA3124</i>	4.355577745	4.08E-10
PA1405	<i>PA1405</i>	4.353083948	6.7E-06
PA2191	<i>exoY</i>	4.352128372	1.03E-39
PA2396	<i>pvdF</i>	4.315465833	1.1E-103
PA2389	<i>pvdR</i>	4.312155934	3E-102
PA3716	<i>PA3716</i>	4.30335417	1.2E-108
PA4920	<i>nadE</i>	4.278826891	2.1E-110
PA0048	<i>PA0048</i>	4.278674899	3.65E-12
PA4249	<i>rpsH</i>	4.258134038	1.33E-83
PA1600	<i>PA1600</i>	4.243871794	2.79E-05
PA0073	<i>PA0073</i>	4.236758153	1.22E-07
PA2742	<i>rpmI</i>	4.23256	2.75E-76
PA0291	<i>oprE</i>	4.222107831	2.81E-84
PA3642	<i>rnhB</i>	4.218010644	4.01E-33
PA3441	<i>PA3441</i>	4.171339499	3.3E-09
PA4621	<i>PA4621</i>	4.162397312	7.48E-11
PA1597	<i>PA1597</i>	4.152516549	2.01E-42
PA0352	<i>PA0352</i>	4.150089939	2.67E-19
PA4248	<i>rplF</i>	4.138338677	3.34E-55
PA1161	<i>rrmA</i>	4.135961945	9.37E-33
PA3613	<i>PA3613</i>	4.124294188	1.6E-104
PA5053	<i>hslV</i>	4.106179633	3.23E-44
PA4438	<i>PA4438</i>	4.103866674	3.45E-90
PA4283	<i>recD</i>	4.082945626	3.08E-17
PA5508	<i>PA5508</i>	4.074212226	3.15E-10
PA4004	<i>PA4004</i>	4.070321068	2.31E-34
PA0941	<i>PA0941</i>	4.067699311	2.62E-08
PA0402	<i>pyrB</i>	4.048558077	1.63E-84
PA4720	<i>trmA</i>	4.038502571	2.01E-56
PA5002	<i>PA5002</i>	4.033440967	9.85E-33
PA0594	<i>surA</i>	4.032449658	1.2E-123
PA5208	<i>PA5208</i>	4.027257569	2.56E-40
PA4588	<i>gdhA</i>	4.024405644	4.27E-52
PA3165	<i>hisC2</i>	4.023507498	1E-104
PA4705	<i>PA4705</i>	4.005730888	4.63E-17
PA0149	<i>PA0149</i>	3.985250786	9.42E-06
PA2951	<i>etfA</i>	3.977434884	1.3E-99
PA4724	<i>PA4724</i>	3.976139171	1.45E-14
PA0412	<i>pilK</i>	3.975940258	4.95E-91

PA0414	<i>chpB</i>	3.959333842	2.68E-17
PA2390	<i>pvdT</i>	3.956634891	4.08E-92
PA1711	<i>exsE</i>	3.944982785	6.7E-39
PA3859	<i>PA3859</i>	3.913441439	8.36E-96
PA2687	<i>pfeS</i>	3.9084219	1.84E-06
PA1790	<i>PA1790</i>	3.905809662	2.07E-28
PA4628	<i>lysP</i>	3.895842463	2.76E-25
PA0411	<i>pilJ</i>	3.888123352	9.4E-135
PA2996	<i>nqrD</i>	3.878589752	8.78E-36
PA3114	<i>truA</i>	3.87712045	4E-23
speA_1	<i>speA_1</i>	3.85913043	1.01E-78
PA4484	<i>gatB</i>	3.848070844	1.1E-109
PA5403	<i>PA5403</i>	3.836088823	1.14E-08
PA2385	<i>pvdQ</i>	3.831627132	2.62E-94
PA3800	<i>PA3800</i>	3.830947231	7.9E-137
PA3879	<i>narL</i>	3.830813681	2.82E-32
PA1971	<i>braZ</i>	3.827481384	4.53E-06
PA0316	<i>serA</i>	3.824695024	4.2E-78
PA4664	<i>hemK</i>	3.817800675	1.2E-35
PA3741	<i>PA3741</i>	3.817425858	3.83E-17
PA5192	<i>pckA</i>	3.817364001	2.53E-93
	<i>lpdG</i>	3.816039031	3.7E-161
PA1959	<i>bacA</i>	3.808059922	3.58E-19
PA2840	<i>PA2840</i>	3.807325559	8.62E-80
PA2969	<i>plsX</i>	3.800113923	8.15E-70
PA3700	<i>lysS</i>	3.79071371	1.93E-87
PA5201	<i>PA5201</i>	3.789933692	1.31E-73
PA2391	<i>opmQ</i>	3.781249692	2.61E-57
PA4665	<i>prfA</i>	3.780936187	2.15E-40
PA2119	<i>PA2119</i>	3.780684828	1.73E-55
PA3768	<i>PA3768</i>	3.76507769	1.83E-56
PA4587	<i>ccpR</i>	3.757351522	3.52E-75
PA2413	<i>pvdH</i>	3.751503157	2.57E-74
PA3743	<i>trmD</i>	3.736041074	3.91E-70
PA0752	<i>PA0752</i>	3.734706551	1.88E-05
PA3823	<i>tgt</i>	3.726163804	4.69E-31
PA0401	<i>PA0401</i>	3.706806582	5.2E-76
PA5536	<i>PA5536</i>	3.701958286	1.54E-05
PA3655	<i>tsf</i>	3.700666481	2.22E-71
PA3810	<i>hscA</i>	3.690214897	3.04E-75
PA5202	<i>PA5202</i>	3.686773348	2.8E-11
PA2911	<i>PA2911</i>	3.67949699	0.000546
PA2468	<i>foxl</i>	3.676975843	2.73E-07

PA0914	<i>PA0914</i>	3.67465247	6.5E-06
PA2395	<i>pvdO</i>	3.671833705	1.92E-82
PA4428	<i>sspA</i>	3.665404471	3.96E-31
PA4432	<i>rpsI</i>	3.660972149	2.49E-72
PA0419	<i>PA0419</i>	3.652186415	6.24E-19
PA3722	<i>PA3722</i>	3.651717406	9.22E-20
PA0428	<i>PA0428</i>	3.634587936	1.9E-115
PA3801	<i>PA3801</i>	3.615627632	3E-124
PA0973	<i>oprL</i>	3.610150914	1.08E-51
PA2995	<i>nqrE</i>	3.60590445	9.19E-42
PA2386	<i>pvdA</i>	3.603860578	7E-107
PA4479	<i>mreD</i>	3.603630365	8.25E-14
PA0620	<i>PA0620</i>	3.593691546	1.7E-36
PA3809	<i>fdx2</i>	3.57947539	2.41E-36
PA4740	<i>pnp</i>	3.578544726	7.43E-90
PA2450	<i>PA2450</i>	3.577527801	4.49E-30
PA2229	<i>PA2229</i>	3.575610782	5.74E-09
PA4196	<i>bfiR</i>	3.574847811	0.000386
PA2446	<i>gcvH2</i>	3.572178391	1.1E-47
PA4480	<i>mreC</i>	3.571056407	3.37E-23
PA5011	<i>waaC</i>	3.565483666	7.2E-33
PA5113	<i>PA5113</i>	3.562887249	1.47E-16
PA3336	<i>PA3336</i>	3.551231777	3.5E-14
PA1084	<i>flgI</i>	3.550087513	1.75E-26
PA2741	<i>rplT</i>	3.531158195	1.01E-78
PA5015	<i>aceE</i>	3.530325165	7.83E-95
PA1654	<i>PA1654</i>	3.527452759	9.24E-16
PA3149	<i>wbpH</i>	3.525775741	3.83E-60
PA3147	<i>wbpJ</i>	3.518172192	6.69E-43
PA4277	<i>tufB</i>	3.517778193	2.01E-97
PA0295	<i>PA0295</i>	3.515853067	4.6E-25
PA5564	<i>gidB</i>	3.514716992	6.3E-52
PA4568	<i>rplU</i>	3.513988314	1.78E-87
PA0018	<i>fmt</i>	3.5086088	4.03E-24
PA2929	<i>PA2929</i>	3.50714927	4.43E-06
PA4834	<i>PA4834</i>	3.505788565	2.6E-06
PA0774	<i>PA0774</i>	3.503102569	4.54E-12
PA2973	<i>PA2973</i>	3.502192173	5.7E-60
PA4274	<i>rplK</i>	3.488836174	6.99E-68
PA0526	<i>PA0526</i>	3.481888554	0.000664
PA0201	<i>PA0201</i>	3.477382113	1.63E-38
PA4255	<i>rpmC</i>	3.474205653	1.34E-66
PA0970	<i>tolR</i>	3.470867942	1.44E-39

PA3151	<i>hisF2</i>	3.468726257	4.94E-24
PA0008	<i>glyS</i>	3.465469188	1.4E-60
PA5003	<i>PA5003</i>	3.464240061	2.34E-32
PA4280	<i>birA</i>	3.453057007	2.11E-26
PA2321	<i>PA2321</i>	3.450440518	5.32E-10
PA4582	<i>PA4582</i>	3.444395528	4.33E-16
PA5194	<i>PA5194</i>	3.442090961	2.91E-20
PA2002	<i>PA2002</i>	3.441781411	8.55E-11
PA5530	<i>PA5530</i>	3.434131443	1.17E-58
PA0929	<i>PA0929</i>	3.432104113	8.95E-07
PA2481	<i>PA2481</i>	3.431579083	1.67E-19
PA5309	<i>PA5309</i>	3.428104272	1.34E-10
PA0091	<i>vgrG1</i>	3.422872427	1.39E-11
PA1272	<i>cobO</i>	3.421674653	8.98E-17
PA5138	<i>PA5138</i>	3.420820698	1.91E-25
PA0280	<i>cysA</i>	3.418632289	6.97E-12
PA3652	<i>uppS</i>	3.414926879	4.76E-79
PA3452	<i>mqaA</i>	3.407644435	4.2E-76
PA0768	<i>lepB</i>	3.406949809	3.33E-36
PA2393	<i>PA2393</i>	3.396074128	1.28E-70
PA3308	<i>hepA</i>	3.39371384	2.62E-42
PA5562	<i>spoOJ</i>	3.392309444	1.97E-60
PA2611	<i>cysG</i>	3.390025405	3.7E-36
PA3148	<i>wbpl</i>	3.387961222	5.23E-45
PA2482	<i>PA2482</i>	3.385944554	1.3E-10
PA4612	<i>PA4612</i>	3.380374666	4.24E-07
PA2624	<i>idh</i>	3.379928162	3.71E-65
PA2997	<i>nqrC</i>	3.37213968	1.8E-23
PA0075	<i>pppA</i>	3.365812545	2.14E-13
PA1586	<i>sucB</i>	3.361372674	8.91E-76
PA3287	<i>PA3287</i>	3.336033611	2.26E-24
PA0542	<i>PA0542</i>	3.334627701	2.93E-65
PA3115	<i>fimV</i>	3.334185377	1.38E-90
PA4838	<i>PA4838</i>	3.329275436	9.4E-06
PA2567	<i>PA2567</i>	3.325616798	5.9E-23
PA4328	<i>PA4328</i>	3.31772054	8.37E-30
PA5495	<i>thrB</i>	3.317022464	1.19E-44
PA3019	<i>PA3019</i>	3.30943652	3.56E-40
PA4003	<i>pbpA</i>	3.308326075	1.2E-21
PA3152	<i>hisH2</i>	3.30738021	7.96E-13
PA3790	<i>oprC</i>	3.307283448	7.21E-45
PA0593	<i>pdxA</i>	3.292657694	2.51E-23
PA0836	<i>ackA</i>	3.291143474	1.11E-41

PA1240	<i>PA1240</i>	3.278402239	0.000731
PA5075	<i>PA5075</i>	3.266842122	2.08E-29
PA5560	<i>atpB</i>	3.260006141	1.71E-96
PA5049	<i>rpmE</i>	3.257712797	1.11E-68
PA4063	<i>PA4063</i>	3.250113021	1.62E-18
PA3911	<i>PA3911</i>	3.248535969	2.47E-16
PA3731	<i>PA3731</i>	3.242354047	1.45E-43
PA5342	<i>PA5342</i>	3.241650409	6.86E-10
PA3875	<i>narG</i>	3.237069816	1.44E-15
PA0787	<i>PA0787</i>	3.224305016	1.77E-06
PA1517	<i>PA1517</i>	3.222062855	2.88E-15
PA0086	<i>PA0086</i>	3.208344923	2.23E-13
PA3146	<i>wbpK</i>	3.198009614	1.96E-24
PA1585	<i>sucA</i>	3.195898672	1.11E-78
PA3446	<i>PA3446</i>	3.190191691	7.64E-08
PA4065	<i>PA4065</i>	3.189926324	3.89E-09
PA4404	<i>PA4404</i>	3.188369593	2.55E-16
PA3915	<i>moaB1</i>	3.182348218	7.7E-21
PA3824	<i>queA</i>	3.176948395	3.34E-22
PA2977	<i>murB</i>	3.17489671	3.33E-25
PA4921	<i>PA4921</i>	3.171397272	2.8E-10
PA1303	<i>PA1303</i>	3.165975131	8.78E-06
PA2994	<i>nqrF</i>	3.162531189	1.38E-35
PA5406	<i>PA5406</i>	3.159588992	8.42E-26
PA2993	<i>PA2993</i>	3.157528633	1.69E-22
PA1361	<i>PA1361</i>	3.157380784	2.66E-06
PA5298	<i>PA5298</i>	3.150362247	5.74E-37
PA4265	<i>tufA</i>	3.148501729	1.89E-88
PA3650	<i>dxr</i>	3.147898694	3.55E-39
PA0607	<i>rpe</i>	3.141184708	2.15E-27
PA3116	<i>PA3116</i>	3.139817799	4.17E-17
PA0931	<i>pirA</i>	3.136217545	1.45E-10
PA0310	<i>PA0310</i>	3.134746839	3.57E-16
PA0074	<i>ppkA</i>	3.12985893	3.25E-10
PA0356	<i>PA0356</i>	3.129277545	3.58E-15
PA0433	<i>PA0433</i>	3.124079862	2.34E-06
PA0621	<i>PA0621</i>	3.123798426	2.58E-14
PA0078	<i>PA0078</i>	3.122580037	5.85E-11
PA0615	<i>PA0615</i>	3.117283277	9.73E-26
PA0948	<i>PA0948</i>	3.109001519	3.6E-12
PA1104	<i>flil</i>	3.099533642	6.08E-19
PA0076	<i>PA0076</i>	3.098532884	1.39E-05
PA5425	<i>purK</i>	3.098269387	1.8E-36

PA1097	<i>fleQ</i>	3.09154578	4.39E-39
PA0616	<i>PA0616</i>	3.091391527	6.53E-11
PA4067	<i>oprG</i>	3.091349062	5.27E-78
PA3977	<i>hemL</i>	3.076696775	1.77E-34
PA1013	<i>purC</i>	3.074480806	3.24E-47
PA1746	<i>PA1746</i>	3.064949011	1.57E-38
PA5472	<i>PA5472</i>	3.060162839	1.47E-16
PA5051	<i>argS</i>	3.060086504	1.98E-34
PA4371	<i>PA4371</i>	3.049073093	1.14E-10
PA1483	<i>cycH</i>	3.047704813	9.44E-24
PA0608	<i>PA0608</i>	3.044928421	3.08E-26
PA2759	<i>PA2759</i>	3.044540595	2.83E-10
PA5009	<i>waaP</i>	3.040383788	3.05E-12
PA4064	<i>PA4064</i>	3.036563701	6.47E-06
PA3579	<i>PA3579</i>	3.035160621	1.07E-27
PA3129	<i>PA3129</i>	3.034069549	5.7E-10
PA1552	<i>ccoP1</i>	3.024925215	1.32E-48
PA2978	<i>ptpA</i>	3.017021957	2.57E-13
PA2906	<i>PA2906</i>	3.008716345	0.000147
PA5343	<i>PA5343</i>	2.995014698	5.36E-19
PA5486	<i>PA5486</i>	2.993898394	3.41E-10
PA5010	<i>waaG</i>	2.987110086	2.53E-28
PA3632	<i>PA3632</i>	2.985355504	4.03E-35
PA2735	<i>PA2735</i>	2.974409285	2.89E-38
PA1050	<i>PA1050</i>	2.973910125	9.76E-20
PA4356	<i>xenB</i>	2.971578149	4.21E-13
PA1647	<i>PA1647</i>	2.971029796	1.36E-06
PA5012	<i>waaF</i>	2.970373061	1.24E-27
PA2480	<i>PA2480</i>	2.967398866	8.09E-07
PA4694	<i>ilvC</i>	2.962049562	2.51E-51
PA4567	<i>rpmA</i>	2.961061578	1.52E-27
PA2394	<i>pvdN</i>	2.959307886	1.67E-43
PA5189	<i>PA5189</i>	2.958937057	7.54E-06
PA5478	<i>PA5478</i>	2.958198835	1.25E-14
PA4768	<i>smpB</i>	2.938095304	3.55E-29
PA1140	<i>PA1140</i>	2.937299773	1.29E-16
PA5296	<i>rep</i>	2.935002736	4.78E-25
PA2667	<i>PA2667</i>	2.932911262	7.95E-45
PA4323	<i>PA4323</i>	2.928493744	4.53E-12
PA2692	<i>PA2692</i>	2.926983225	3.57E-08
PA1056	<i>PA1056</i>	2.926767355	3.46E-10
PA0964	<i>pmpR</i>	2.924362428	1.37E-47
PA5035	<i>gltD</i>	2.917795177	1.71E-24

PA1288	<i>PA1288</i>	2.905942227	2.28E-44
PA4051	<i>thiL</i>	2.905638526	4.99E-14
PA4162	<i>PA4162</i>	2.901108003	0.000401
PA0754	<i>PA0754</i>	2.90095411	2.11E-08
PA5004	<i>PA5004</i>	2.898423557	1.13E-30
PA3745	<i>rpsP</i>	2.887278452	1.08E-27
PA4278	<i>PA4278</i>	2.883681905	1.05E-08
PA4322	<i>PA4322</i>	2.883003554	4.44E-20
PA0070	<i>PA0070</i>	2.880750495	7.84E-39
PA4284	<i>recB</i>	2.877023209	6.32E-12
PA4558	<i>PA4558</i>	2.875244662	9.06E-36
PA5232	<i>PA5232</i>	2.874899658	4.25E-42
PA0387	<i>PA0387</i>	2.873205846	1.61E-29
PA3612	<i>PA3612</i>	2.869494439	5.32E-10
PA4559	<i>lspA</i>	2.86864817	3.14E-29
PA3666	<i>dapD</i>	2.868107757	3.33E-35
PA5204	<i>argA</i>	2.865386008	2.52E-22
PA1800	<i>tig</i>	2.865140556	3.82E-77
PA0390	<i>metX</i>	2.85947655	4.57E-27
PA2998	<i>nqrB</i>	2.857677958	4.18E-35
PA4988	<i>waaA</i>	2.855386056	2.16E-08
PA0944	<i>purN</i>	2.843108719	2.74E-33
PA5118	<i>thiI</i>	2.843069951	2.45E-30
PA5048	<i>PA5048</i>	2.841356871	1.01E-19
PA0969	<i>tolQ</i>	2.841323725	8.39E-47
PA2411	<i>PA2411</i>	2.83785678	1.19E-50
PA4429	<i>PA4429</i>	2.832243654	3.53E-58
PA0410	<i>pill</i>	2.831662156	9.31E-30
PA4754	<i>PA4754</i>	2.829509883	3.51E-28
PA3654	<i>pyrH</i>	2.827091971	1.4E-31
PA1926	<i>PA1926</i>	2.824692972	2.65E-14
PA0409	<i>pilH</i>	2.8231592	1.81E-43
PA5315	<i>rpmG</i>	2.820337004	6.42E-21
PA4686	<i>PA4686</i>	2.814436287	5.78E-25
PA4279	<i>PA4279</i>	2.81294475	2.28E-12
PA4358	<i>PA4358</i>	2.811884412	3.83E-12
PA4052	<i>nusB</i>	2.807365367	1.12E-34
PA5243	<i>hemB</i>	2.804768437	7.74E-38
PA5479	<i>gltP</i>	2.804376404	1.42E-32
PA3653	<i>frr</i>	2.801580308	2.13E-37
PA3604	<i>erdR</i>	2.799208827	5.03E-22
PA4272.1	<i>PA4272.1</i>	2.797578839	9.11E-35
PA3984	<i>Int</i>	2.794677904	6.99E-14

PA2502	<i>PA2502</i>	2.783872998	0.000404
PA2975	<i>rluC</i>	2.782537974	3.95E-31
PA5485	<i>ampDh2</i>	2.778972313	4.58E-16
PA4292	<i>PA4292</i>	2.772183966	7.46E-32
PA0017	<i>PA0017</i>	2.771695105	1.33E-17
PA0582	<i>folB</i>	2.770283518	4.06E-05
PA4663	<i>moeB</i>	2.767053973	1.09E-17
PA4528	<i>pilD</i>	2.764945649	1.39E-16
PA5001	<i>PA5001</i>	2.758270942	5.42E-14
PA0128	<i>PA0128</i>	2.756535672	1.04E-23
PA3732	<i>PA3732</i>	2.754608869	4.07E-28
PA3560	<i>fruA</i>	2.746273301	0.000164
PA1441	<i>PA1441</i>	2.743933769	1.99E-31
PA5336	<i>gmk</i>	2.742739611	1.09E-25
PA0382	<i>micA</i>	2.740632345	1.84E-15
PA5503	<i>PA5503</i>	2.734027541	4.29E-22
PA5109	<i>PA5109</i>	2.728534679	1.62E-29
PA0519	<i>nirS</i>	2.728143614	4.34E-14
PA2251	<i>PA2251</i>	2.726235089	0.000989
PA0892	<i>aotP</i>	2.722982271	5.99E-17
PA0079	<i>PA0079</i>	2.722271221	2.06E-12
PA4370	<i>icmP</i>	2.721544285	4.08E-42
PA4640	<i>mqoB</i>	2.72144927	7.21E-26
PA1466	<i>PA1466</i>	2.71622711	0.000345
PA3744	<i>rimM</i>	2.715937726	7.87E-40
PA3106	<i>PA3106</i>	2.712436833	6.69E-27
PA3807	<i>ndk</i>	2.712185007	5E-64
PA2734	<i>PA2734</i>	2.711920462	9.22E-30
PA5127	<i>PA5127</i>	2.711797065	4.14E-17
PA4965	<i>PA4965</i>	2.711601031	2.13E-09
PA1132	<i>PA1132</i>	2.709811837	3.18E-07
PA0613	<i>PA0613</i>	2.709802237	2.43E-07
PA3048	<i>PA3048</i>	2.709708765	1.22E-13
PA0771	<i>era</i>	2.704712215	5.98E-33
PA5140	<i>hisF1</i>	2.70093643	7.76E-24
PA5129	<i>grx</i>	2.700527404	2.48E-14
PA0320	<i>PA0320</i>	2.697883105	3.05E-13
PA1795	<i>cysS</i>	2.697618182	3.23E-34
PA1934	<i>PA1934</i>	2.685530156	3.8E-20
PA0090	<i>clpV1</i>	2.679725724	6.1E-12
PA4698	<i>PA4698</i>	2.674854388	2.91E-08
PA3163	<i>cmk</i>	2.670343122	4.07E-32
PA4655	<i>hemH</i>	2.669767673	2.65E-20

PA0635	<i>PA0635</i>	2.665125848	7.56E-08
PA2964	<i>pabC</i>	2.663119082	1.29E-17
PA3228	<i>PA3228</i>	2.660797943	5.23E-09
PA2619	<i>infA</i>	2.658851523	1.23E-36
PA2885	<i>atuR</i>	2.657820172	0.000254
PA3878	<i>narX</i>	2.656721339	4.08E-11
PA4373	<i>PA4373</i>	2.654540349	5.62E-18
PA1792	<i>PA1792</i>	2.65095018	1.17E-15
PA4427	<i>sspB</i>	2.650055144	8.07E-25
PA3183	<i>zwf</i>	2.650017539	3.21E-32
PA2748	<i>PA2748</i>	2.644979451	5.84E-11
PA4569	<i>ispB</i>	2.641620485	2.25E-22
PA5236	<i>PA5236</i>	2.639404226	7.23E-15
PA3603	<i>dgkA</i>	2.635784742	7.01E-06
PA0947	<i>PA0947</i>	2.632706157	1.08E-22
PA3028	<i>moeA2</i>	2.632221353	4.63E-21
	<i>mdoH</i>	2.630291279	3.57E-31
PA2612	<i>serS</i>	2.626275391	4.19E-28
PA4458	<i>PA4458</i>	2.625072511	3.5E-28
PA4672	<i>PA4672</i>	2.621077372	2.22E-24
PA1549	<i>PA1549</i>	2.616406136	9.25E-14
PA1043	<i>PA1043</i>	2.605858797	8.84E-07
PA1710	<i>exsC</i>	2.605754707	3.55E-25
PA1085	<i>flgJ</i>	2.595657266	1.89E-18
PA1012	<i>PA1012</i>	2.592415083	1.23E-15
PA0077	<i>icmF1</i>	2.589175064	9.73E-09
PA3646	<i>lpxD</i>	2.588182039	1.91E-31
PA1460	<i>motC</i>	2.581475853	3.09E-17
PA3678	<i>PA3678</i>	2.581133389	1.03E-08
PA5052	<i>PA5052</i>	2.57515493	9.32E-18
PA0087	<i>PA0087</i>	2.574167194	0.000167
PA4372	<i>PA4372</i>	2.570590771	1.91E-23
PA4050	<i>pgpA</i>	2.569180206	1.36E-05
PA3169	<i>PA3169</i>	2.565586624	1.76E-22
PA0895	<i>aruC</i>	2.563509842	5.23E-28
PA2974	<i>PA2974</i>	2.554641776	2E-14
PA4054	<i>ribB</i>	2.55359775	9.36E-25
PA4560	<i>ileS</i>	2.552352478	1.44E-30
PA2199	<i>PA2199</i>	2.551486451	1.8E-15
PA0834	<i>PA0834</i>	2.548672745	1.26E-07
PA3793	<i>PA3793</i>	2.547672845	3.54E-09
PA1103	<i>PA1103</i>	2.547525937	9.86E-12
PA3951	<i>PA3951</i>	2.545216256	0.000394

PA1151	<i>imm2</i>	2.544020531	2.59E-16
PA2540	<i>PA2540</i>	2.543791929	7.3E-06
PA4745	<i>nusA</i>	2.543777033	3.44E-51
PA1687	<i>speE</i>	2.543016274	1.93E-14
PA3989	<i>holA</i>	2.540088703	4.02E-19
PA0549	<i>PA0549</i>	2.539396389	1.63E-18
PA1197	<i>PA1197</i>	2.537428857	2.56E-12
PA4390	<i>PA4390</i>	2.535051742	6.6E-16
PA3297	<i>PA3297</i>	2.534582992	1.39E-09
PA4321	<i>PA4321</i>	2.530580258	2.19E-06
PA0369	<i>PA0369</i>	2.530369664	4.85E-07
PA5136	<i>PA5136</i>	2.530181688	7.8E-07
PA4748	<i>tpiA</i>	2.528958493	1.78E-49
PA4996	<i>rfaE</i>	2.526803446	2.68E-26
PA5078	<i>PA5078</i>	2.526424905	7.35E-36
PA0955	<i>PA0955</i>	2.525659184	5.51E-20
PA4595	<i>PA4595</i>	2.52243578	1.17E-33
PA3006	<i>psrA</i>	2.522056163	5.56E-27
PA3002	<i>mfd</i>	2.520688971	5.99E-19
PA1804	<i>hupB</i>	2.517493017	2.08E-52
PA1757	<i>thrH</i>	2.514262909	3.55E-21
PA0408	<i>pilG</i>	2.513660741	1.7E-34
PA5316	<i>rpmB</i>	2.50183188	8.68E-28
PA4439	<i>trpS</i>	2.495126091	1.65E-24
PA3150	<i>wbpG</i>	2.493778252	5.12E-22
PA5335	<i>PA5335</i>	2.492535639	1.58E-16
PA5171	<i>arcA</i>	2.492376871	7.7E-46
PA4433	<i>rplM</i>	2.491883745	1.74E-62
PA4930	<i>alr</i>	2.489928663	6.35E-10
PA4730	<i>panC</i>	2.488357197	1.23E-20
PA4234	<i>uvrA</i>	2.488041107	1.23E-23
PA3861	<i>rhl</i>	2.483529145	1.56E-31
PA3735	<i>thrC</i>	2.480304561	6.81E-24
PA3162	<i>rpsA</i>	2.480218843	2.09E-56
PA1552.1	<i>ccoQ1</i>	2.476336414	2.69E-15
PA0085	<i>hcp1</i>	2.47387516	2.78E-24
PA0552	<i>pgk</i>	2.469921342	2.81E-22
PA3182	<i>pgl</i>	2.469912505	2.31E-11
PA4045	<i>PA4045</i>	2.468608014	1.25E-08
PA0961	<i>PA0961</i>	2.465853058	1.04E-09
PA4411	<i>murC</i>	2.465003179	1.74E-24
PA4053	<i>ribE</i>	2.464185632	1.32E-39
PA0799	<i>PA0799</i>	2.461102805	9.62E-07

PA3634	<i>PA3634</i>	2.458509292	7.65E-19
PA0281	<i>cysW</i>	2.455458412	0.000291
PA5043	<i>pilN</i>	2.454981991	8.22E-28
PA4408	<i>ftsA</i>	2.452246673	1.02E-26
PA5074	<i>PA5074</i>	2.443836024	9.43E-09
PA5135	<i>PA5135</i>	2.441598196	4.35E-06
PA5340	<i>PA5340</i>	2.437403712	2.67E-19
PA2454	<i>PA2454</i>	2.437234407	2.56E-07
PA1015	<i>PA1015</i>	2.436757444	6.65E-08
PA2733	<i>PA2733</i>	2.435332151	1.05E-14
PA5044	<i>pilM</i>	2.431243158	2.37E-24
PA3134	<i>gltX</i>	2.422744693	2.4E-24
PA2648	<i>nuoM</i>	2.420438527	8E-21
PA4068	<i>PA4068</i>	2.420309054	2.63E-14
PA1452	<i>flhA</i>	2.417218033	1.4E-11
PA2044	<i>PA2044</i>	2.41674078	5.93E-15
PA2019	<i>PA2019</i>	2.416255045	1.96E-05
PA5007	<i>PA5007</i>	2.412816186	3E-12
PA3644	<i>lpxA</i>	2.40142743	2.1E-28
PA4320	<i>PA4320</i>	2.399118486	5.58E-08
PA3822	<i>PA3822</i>	2.395456041	2.31E-41
PA5507	<i>PA5507</i>	2.394301288	1.58E-06
PA4840	<i>PA4840</i>	2.39268337	1.01E-07
PA3659	<i>PA3659</i>	2.392380428	1.87E-14
PA1057	<i>PA1057</i>	2.391554009	0.000113
PA3633	<i>ygbP</i>	2.391192003	3.39E-08
PA0945	<i>purM</i>	2.385383606	1.53E-24
PA0020	<i>PA0020</i>	2.383794794	3.38E-22
PA5357	<i>PA5357</i>	2.382850165	7.97E-09
PA4755	<i>greA</i>	2.381040694	3.64E-23
PA1846	<i>cti</i>	2.373381353	6.11E-10
PA1011	<i>PA1011</i>	2.370161032	2.28E-34
PA4489	<i>PA4489</i>	2.368193366	9.97E-10
PA5114	<i>PA5114</i>	2.367278652	0.000925
PA4285	<i>recC</i>	2.366681142	1.67E-08
PA5304	<i>dadA</i>	2.364729565	1.84E-18
PA5141	<i>hisA</i>	2.361566836	6.38E-11
PA3931	<i>PA3931</i>	2.357924639	4.22E-06
PA4202	<i>PA4202</i>	2.355735001	2.88E-07
PA0915	<i>PA0915</i>	2.347737165	8.09E-06
PA0400	<i>PA0400</i>	2.339742616	1.24E-27
PA4566	<i>obg</i>	2.336614717	5.49E-20
PA1105	<i>fliJ</i>	2.335752354	0.000161

PA5569	<i>rnpA</i>	2.331712638	1.12E-26
PA4264	<i>rpsJ</i>	2.32645166	1.72E-22
PA3003	<i>PA3003</i>	2.326101725	6.83E-17
PA0775	<i>PA0775</i>	2.325791211	4.14E-09
PA4413	<i>ftsW</i>	2.325084566	1.75E-14
PA4966	<i>PA4966</i>	2.32358502	9.26E-11
PA4415	<i>mraY</i>	2.321451381	1.85E-19
PA0767	<i>lepA</i>	2.320795858	9.3E-21
PA2770	<i>PA2770</i>	2.316600161	3.09E-14
PA0963	<i>aspS</i>	2.314346515	5E-27
PA0485	<i>PA0485</i>	2.313974353	1.63E-07
PA4565	<i>proB</i>	2.313243702	5.79E-21
PA3715	<i>PA3715</i>	2.309937334	0.000139
PA0357	<i>mutY</i>	2.309084662	2.03E-11
PA4579	<i>PA4579</i>	2.30684994	3.72E-07
PA0393	<i>proC</i>	2.306665211	1.19E-11
PA0341	<i>lgt</i>	2.301886126	1.44E-09
PA4750	<i>folP</i>	2.300396601	3.65E-17
PA0399	<i>PA0399</i>	2.300193188	2.91E-25
PA0013	<i>PA0013</i>	2.298997471	0.000271
PA2970	<i>rpmF</i>	2.297285351	4.48E-09
PA0427	<i>oprM</i>	2.290386279	4.64E-26
PA5128	<i>secB</i>	2.289914346	8.74E-31
PA0437	<i>codA</i>	2.283084571	1.5E-08
PA3159	<i>wbpA</i>	2.280010286	6.46E-33
PA5117	<i>typA</i>	2.272278569	1.49E-34
PA2425	<i>pvdG</i>	2.271864014	9.77E-18
PA4431	<i>PA4431</i>	2.271248973	6.9E-31
PA3179	<i>PA3179</i>	2.267619731	3.59E-19
PA3736	<i>hom</i>	2.2672868	6.5E-17
PA4488	<i>PA4488</i>	2.267182755	0.000806
PA0835	<i>pta</i>	2.263820479	2.41E-19
PA5131	<i>pgm</i>	2.253453546	2.48E-21
PA5426	<i>purE</i>	2.252308612	6.69E-17
PA3838	<i>PA3838</i>	2.252068811	0.000174
PA3014	<i>faoA</i>	2.250778795	9.11E-34
PA4066	<i>PA4066</i>	2.250292684	6.92E-05
PA1453	<i>flhF</i>	2.249812257	5.08E-18
PA2264	<i>PA2264</i>	2.248388346	2.06E-10
PA1553	<i>ccoO1</i>	2.247054366	1.64E-24
PA2987	<i>PA2987</i>	2.244423511	3.63E-15
PA4557	<i>lytB</i>	2.243283202	1.89E-17
PA0508	<i>PA0508</i>	2.241473663	5.58E-15

PA3046	<i>PA3046</i>	2.237332194	4.86E-12
PA3982	<i>PA3982</i>	2.236699277	1.12E-15
PA0770	<i>rnc</i>	2.236269575	5.23E-19
PA5244	<i>PA5244</i>	2.234832241	1.51E-15
PA4662	<i>murl</i>	2.233187868	4.4E-07
PA4749	<i>glmM</i>	2.232702824	7.87E-19
PA0518	<i>nirM</i>	2.230180148	7.09E-05
PA1098	<i>fleS</i>	2.226776176	4.96E-13
PA2616	<i>trxB1</i>	2.224027578	2.98E-18
PA1044	<i>PA1044</i>	2.215448531	9.99E-05
PA4848	<i>accC</i>	2.211974826	1.19E-26
PA4853	<i>fis</i>	2.211330747	4.18E-10
PA3799	<i>PA3799</i>	2.21084302	1.04E-19
PA4719	<i>PA4719</i>	2.207371163	8.02E-13
PA3770	<i>guaB</i>	2.204953897	6.97E-30
PA0723	<i>coaB</i>	2.204621799	2.57E-13
PA0331	<i>ilvA1</i>	2.202689245	1.04E-12
PA3172	<i>PA3172</i>	2.202508954	4.44E-10
PA4809	<i>fdhE</i>	2.202375749	3.5E-05
PA2384	<i>PA2384</i>	2.19900674	1.33E-17
PA5549	<i>glmS</i>	2.19670632	6.64E-13
PA0373	<i>ftsY</i>	2.195064318	3.4E-15
PA2613	<i>PA2613</i>	2.192512945	2.37E-11
PA3999	<i>dacC</i>	2.1920062	1.23E-22
PA0773	<i>pdxJ</i>	2.191131043	8.82E-14
PA3675	<i>PA3675</i>	2.180074799	1.07E-12
PA4670	<i>prs</i>	2.179971722	1.83E-34
PA3987	<i>leuS</i>	2.17731791	5.19E-24
PA4931	<i>dnaB</i>	2.172416169	4.25E-17
PA5173	<i>arcC</i>	2.170481676	1.87E-27
PA0663	<i>PA0663</i>	2.165334577	3.93E-13
PA4728	<i>folk</i>	2.16342194	2.26E-08
PA4527	<i>pilC</i>	2.163051639	5.01E-17
PA1101	<i>fliF</i>	2.159746183	9E-12
PA5130	<i>PA5130</i>	2.159674914	3.72E-18
PA4352	<i>PA4352</i>	2.158222851	2.38E-17
PA3227	<i>ppiA</i>	2.156114577	2.63E-10
PA1563	<i>PA1563</i>	2.155524805	5.87E-05
PA1518	<i>PA1518</i>	2.154779361	1.84E-09
PA2730	<i>PA2730</i>	2.150741958	3.7E-12
PA1099	<i>fleR</i>	2.149895094	4.84E-11
PA1584	<i>sdhB</i>	2.149445994	2.36E-30
PA0298	<i>spuB</i>	2.148538253	5.68E-13

PA3013	<i>foaB</i>	2.148084367	4.1E-32
PA1155	<i>nrdB</i>	2.145384878	1.95E-24
PA4430	<i>PA4430</i>	2.144226821	1.37E-22
PA3811	<i>hscB</i>	2.137843878	5.37E-19
PA4410	<i>ddlB</i>	2.130193994	2.76E-15
PA1675	<i>PA1675</i>	2.128663332	0.00043
PA2843	<i>PA2843</i>	2.126331504	7.63E-07
PA4967	<i>parE</i>	2.123855535	7.36E-16
PA4494	<i>roxS</i>	2.123024999	1.44E-15
PA5005	<i>PA5005</i>	2.122846116	1.22E-20
PA4483	<i>gatA</i>	2.120127296	4.66E-16
PA5414	<i>PA5414</i>	2.118457249	4.08E-10
PA4669	<i>ipk</i>	2.117938176	4.09E-15
PA0577	<i>dnaG</i>	2.116247716	6.02E-10
PA5146	<i>PA5146</i>	2.112366576	2.24E-14
PA2397	<i>pvdE</i>	2.10116292	1.98E-14
PA4487	<i>PA4487</i>	2.100893482	7.61E-06
PA4572	<i>flkB</i>	2.100035251	2.62E-22
PA0579	<i>rpsU</i>	2.097627344	1.14E-24
PA1964	<i>PA1964</i>	2.094874634	1.9E-15
PA3950	<i>PA3950</i>	2.09205362	1.75E-08
PA0789	<i>PA0789</i>	2.091435822	0.000487
PA4061	<i>PA4061</i>	2.091239955	6.78E-16
PA5025	<i>metY</i>	2.085037198	4.11E-08
PA1150	<i>pys2</i>	2.084701436	7.12E-11
PA5552	<i>glmU</i>	2.082430717	2.03E-16
PA2424	<i>pvdL</i>	2.081830637	2.25E-18
PA5231	<i>PA5231</i>	2.080759216	1.35E-14
PA1086	<i>flgK</i>	2.078793998	1.66E-12
PA4046	<i>PA4046</i>	2.075096556	1.58E-09
PA4644	<i>PA4644</i>	2.069189403	2.21E-05
PA0080	<i>PA0080</i>	2.068376888	0.00022
PA1459	<i>PA1459</i>	2.065108686	2.05E-14
PA0004	<i>gyrB</i>	2.061199546	1.58E-20
PA4006	<i>nadD</i>	2.06116776	1.16E-13
PA4992	<i>PA4992</i>	2.060634352	9.22E-06
PA0022	<i>PA0022</i>	2.056100757	5.23E-14
PA0943	<i>PA0943</i>	2.055714825	1.01E-16
PA1081	<i>flgF</i>	2.054826177	5.45E-11
PA0968	<i>PA0968</i>	2.053945143	3.85E-10
PA3635	<i>eno</i>	2.053810213	3.59E-28
PA2957	<i>PA2957</i>	2.053244213	2.29E-12
PA2961	<i>holB</i>	2.049273218	3.68E-07

PA3193	<i>glk</i>	2.045485049	0.000222
PA0583	<i>PA0583</i>	2.045243615	0.000916
PA0389	<i>PA0389</i>	2.045128235	1.1E-09
PA5064	<i>PA5064</i>	2.045044469	1.31E-07
PA1075	<i>PA1075</i>	2.042270579	3.95E-05
PA2754a	<i>PA2754a</i>	2.039290438	0.00036
PA5040	<i>pilQ</i>	2.038499519	9.32E-23
PA2615	<i>ftsK</i>	2.036909473	2.08E-14
PA4548	<i>PA4548</i>	2.03589045	9.61E-06
PA1045	<i>PA1045</i>	2.033305313	3.8E-06
PA5443	<i>uvrD</i>	2.029988558	1.3E-11
PA5428	<i>PA5428</i>	2.029911443	1.68E-05
PA3397	<i>fpr</i>	2.025198415	4.33E-23
PA0370	<i>PA0370</i>	2.023989954	1.06E-08
PA4943	<i>PA4943</i>	2.023603647	9.34E-21
PA3167	<i>serC</i>	2.021209486	8.96E-18
PA4314	<i>purU1</i>	2.02066588	5.11E-13
PA1830	<i>PA1830</i>	2.020341717	1.77E-21
PA5046	<i>PA5046</i>	2.019957126	5.45E-26
PA4700	<i>mrcB</i>	2.016803527	2.44E-07
PA4999	<i>waaL</i>	2.015446361	4.1E-06
PA2761	<i>PA2761</i>	2.015123467	1.66E-05
PA0415	<i>chpC</i>	2.009008339	1.14E-05
PA0971	<i>tolA</i>	2.003846179	9.81E-15
PA5223	<i>ubiH</i>	2.003700215	3.26E-13
PA3979	<i>PA3979</i>	2.003452424	5.29E-06
PA4329	<i>pykA</i>	2.002662432	1.51E-16
PA5441	<i>PA5441</i>	1.999567722	7.17E-10
PA4417	<i>murE</i>	1.995576044	1.92E-13
PA4687	<i>hitA</i>	1.992185804	2.76E-13
PA2647	<i>nuoL</i>	1.986874085	1.44E-12
PA4449	<i>hisG</i>	1.986764122	1.38E-12
PA1415	<i>PA1415</i>	1.985912484	4.12E-05
PA4407	<i>ftsZ</i>	1.984302213	8.96E-17
PA2642	<i>nuoG</i>	1.983673577	1.59E-13
PA0972	<i>tolB</i>	1.982623991	1.76E-15
PA4636	<i>PA4636</i>	1.981788419	0.000377
PA3763	<i>purL</i>	1.98114075	3.63E-14
PA4957	<i>psd</i>	1.980747073	4.17E-13
PA4693	<i>pssA</i>	1.977915679	1.92E-12
PA3834	<i>valS</i>	1.968439029	2.64E-14
PA4811	<i>fdnH</i>	1.966859529	1.19E-12
PA4493	<i>roxR</i>	1.96673262	2E-16

PA2760	<i>PA2760</i>	1.964601398	1.78E-21
PA2795	<i>PA2795</i>	1.963794492	0.000865
PA2627	<i>PA2627</i>	1.962324349	1.65E-09
PA1614	<i>gpsA</i>	1.961593617	3.61E-06
PA3975	<i>thiD</i>	1.961260138	6.29E-08
PA0904	<i>lysC</i>	1.958219087	2.74E-13
PA0392	<i>PA0392</i>	1.954749078	1.25E-06
PA4542	<i>clpB</i>	1.953144087	2.62E-13
PA4457	<i>PA4457</i>	1.951637022	2.17E-13
PA1534	<i>recR</i>	1.949822279	8E-09
PA1766	<i>PA1766</i>	1.949718482	1.37E-12
PA1299	<i>PA1299</i>	1.943138389	7.48E-05
PA3001	<i>PA3001</i>	1.943053687	3.74E-25
PA5034	<i>hemE</i>	1.94081099	1.32E-11
PA3435	<i>PA3435</i>	1.938597763	2.56E-07
PA4387	<i>PA4387</i>	1.938120659	6.82E-08
PA0426	<i>mexB</i>	1.93704799	9.76E-13
PA4030	<i>PA4030</i>	1.928707686	0.000504
PA3817	<i>PA3817</i>	1.928122399	2.29E-05
PA1461	<i>motD</i>	1.927559139	1.34E-05
PA3803	<i>gcpE</i>	1.925909962	9.76E-12
PA0913	<i>mgtE</i>	1.925788732	2.73E-06
PA4852	<i>PA4852</i>	1.919928482	1.35E-13
PA4245	<i>rpmD</i>	1.913366307	9.16E-21
PA4461	<i>PA4461</i>	1.90782083	1.54E-14
PA3164	<i>PA3164</i>	1.900137787	1.3E-13
PA4448	<i>hisD</i>	1.89984943	6.68E-07
PA2408	<i>PA2408</i>	1.895637833	2.25E-07
PA5531	<i>tonB1</i>	1.89259157	9.37E-06
PA2629	<i>purB</i>	1.892408718	1.43E-12
PA1794	<i>glnS</i>	1.886711646	5.87E-12
PA2645	<i>nuoJ</i>	1.884406032	9.87E-08
PA4005	<i>PA4005</i>	1.880000877	6.22E-10
PA0898	<i>aruD</i>	1.879660476	2.46E-06
PA5260	<i>hemC</i>	1.873598442	1.93E-10
PA5193	<i>yrfI</i>	1.869967604	2.53E-07
PA1193	<i>PA1193</i>	1.867397674	0.000128
PA3640	<i>dnaE</i>	1.866705148	8.2E-11
PA0580	<i>gcp</i>	1.865824178	5.1E-08
PA0779	<i>PA0779</i>	1.862809639	3.95E-08
PA0891	<i>PA0891</i>	1.862394704	3.94E-05
PA3309	<i>PA3309</i>	1.861245494	3.14E-20
PA3194	<i>edd</i>	1.860916632	2.58E-09

PA2641	<i>nuoF</i>	1.858294567	3.31E-09
PA2377	<i>PA2377</i>	1.858228384	0.000118
PA5494	<i>PA5494</i>	1.853153817	4.51E-10
PA3647	<i>PA3647</i>	1.851658435	2.66E-12
PA1796	<i>folD</i>	1.851462214	8.71E-09
PA0374	<i>ftsE</i>	1.851233145	8.6E-10
PA3804	<i>PA3804</i>	1.848460732	2.4E-08
PA0375	<i>ftsX</i>	1.848343758	2.87E-08
PA2436	<i>PA2436</i>	1.846424692	0.000323
PA0541	<i>PA0541</i>	1.845847905	2.59E-09
PA4695	<i>ilvH</i>	1.844692321	1.06E-08
PA4412	<i>murG</i>	1.8419205	1.57E-05
PA4275	<i>nusG</i>	1.841185233	1.27E-14
PA4960	<i>PA4960</i>	1.84070831	2.13E-09
PA4656	<i>PA4656</i>	1.839577614	4.84E-05
PA5036	<i>gltB</i>	1.835917744	5.98E-09
PA1080	<i>flgE</i>	1.833979477	3.06E-09
PA2412	<i>PA2412</i>	1.832982138	7.21E-17
PA4481	<i>mreB</i>	1.832123082	1.09E-10
PA3563	<i>fruR</i>	1.831487645	0.000171
PA0431	<i>PA0431</i>	1.829893679	1.01E-09
PA4414	<i>murD</i>	1.829460369	1.96E-09
PA3117	<i>asd</i>	1.828801895	5.12E-09
PA3453	<i>PA3453</i>	1.821149185	5.07E-06
PA4460	<i>PA4460</i>	1.819902324	4.33E-11
PA4810	<i>fdnI</i>	1.81884039	1.04E-05
PA2290	<i>gcd</i>	1.815778434	1.97E-09
PA2323	<i>PA2323</i>	1.814058542	6.86E-08
PA1480	<i>ccmF</i>	1.814007519	3.95E-07
PA2851	<i>efp</i>	1.811969793	4.06E-13
PA0658	<i>PA0658</i>	1.810250557	0.000111
PA5042	<i>pilO</i>	1.809460754	1.95E-08
PA5274	<i>rnk</i>	1.809271797	4.18E-10
PA5065	<i>ubiB</i>	1.807995131	0.000143
PA4741	<i>rpsO</i>	1.807673784	2.47E-15
PA1116	<i>PA1116</i>	1.80695187	3.3E-07
PA2983	<i>PA2983</i>	1.801119524	9.08E-08
PA1583	<i>sdhA</i>	1.801042035	2.71E-14
PA5334	<i>rph</i>	1.800953412	7.77E-09
PA3158	<i>wbpB</i>	1.798286513	1.7E-11
PA0896	<i>aruF</i>	1.7969827	8.21E-08
PA1767	<i>PA1767</i>	1.795911424	4.85E-09
PA4997	<i>msbA</i>	1.794668695	2.13E-08

PA3173	<i>PA3173</i>	1.793649684	3.47E-07
PA3154	<i>wzy</i>	1.793626151	0.000152
PA5041	<i>pilP</i>	1.789777958	1.07E-08
PA0705	<i>migA</i>	1.784594812	4.43E-08
PA3483	<i>PA3483</i>	1.784081126	6.49E-05
PA4729	<i>panB</i>	1.78106027	0.000701
PA3413	<i>PA3413</i>	1.780068036	0.000555
PA5345	<i>recG</i>	1.779966718	0.000977
PA3626	<i>PA3626</i>	1.778877421	9.68E-06
PA4647	<i>uraA</i>	1.778015658	1.44E-05
PA4491	<i>PA4491</i>	1.776717492	0.000278
PA0668	<i>tyrZ</i>	1.770816834	1.26E-09
PA0354	<i>PA0354</i>	1.764959325	1.54E-07
PA4756	<i>carB</i>	1.762353611	1.34E-09
PA3997	<i>lipB</i>	1.761510886	6.18E-07
PA1162	<i>dapE</i>	1.759635896	8.26E-07
PA4727	<i>pcnB</i>	1.758373995	1.61E-08
PA3440a	<i>PA3440a</i>	1.754727524	0.000394
PA5221	<i>PA5221</i>	1.752703846	0.000374
PA4964	<i>parC</i>	1.75249571	1.96E-07
PA0609	<i>trpE</i>	1.750763252	6.36E-07
PA3645	<i>fabZ</i>	1.749643381	1.12E-08
PA2409	<i>PA2409</i>	1.74314233	1.43E-06
PA4031	<i>ppa</i>	1.742929212	2.52E-13
PA4459	<i>PA4459</i>	1.739907322	7.09E-07
PA2407	<i>PA2407</i>	1.739869056	6.22E-07
PA1083	<i>flgH</i>	1.734846906	4.48E-05
PA0576	<i>rpoD</i>	1.733868972	7.39E-15
PA2979	<i>kdsB</i>	1.727602113	0.000454
PA1102	<i>fliG</i>	1.725254978	4.72E-07
PA5215	<i>gcvT1</i>	1.724452399	5.49E-07
PA4317	<i>PA4317</i>	1.723331014	2.28E-06
PA5110	<i>fbp</i>	1.722347718	2.16E-10
PA4001	<i>sltB1</i>	1.720623884	2.66E-05
PA0872	<i>phhA</i>	1.715911591	5.85E-07
PA5019	<i>PA5019</i>	1.714016794	2.85E-05
PA4602	<i>glyA3</i>	1.707825297	3.79E-10
PA2999	<i>nqrA</i>	1.707134182	1.8E-06
PA2732	<i>PA2732</i>	1.704701321	0.000128
PA3181	<i>PA3181</i>	1.704067118	0.000709
PA0449	<i>PA0449</i>	1.703485604	6.94E-07
PA0651	<i>trpC</i>	1.703372167	3.6E-06
PA4418	<i>ftsI</i>	1.699965409	5.51E-06

PA3827	<i>PA3827</i>	1.697800043	1.13E-05
PA5000	<i>wapR</i>	1.694200724	2.89E-06
PA3107	<i>metZ</i>	1.692270667	5.62E-06
PA3262	<i>PA3262</i>	1.690849816	8.25E-12
PA2649	<i>nuoN</i>	1.690199968	4.72E-05
PA1457	<i>cheZ</i>	1.688452385	2.85E-07
PA2614	<i>lolA</i>	1.687182256	7.86E-07
PA5142	<i>hisH1</i>	1.684877927	8.38E-06
PA4850	<i>prmA</i>	1.683014195	0.000192
PA0337	<i>ptsP</i>	1.683009371	1.59E-06
PA5331	<i>pyrE</i>	1.679588835	0.000154
PA3263	<i>PA3263</i>	1.676248359	1.47E-06
PA4333	<i>PA4333</i>	1.667091362	5.17E-07
PA1532	<i>dnaX</i>	1.662535755	5.62E-06
PA0432	<i>sahH</i>	1.659087295	2.14E-11
PA4952	<i>PA4952</i>	1.657179164	6.53E-05
PA1554	<i>ccoN1</i>	1.657148942	5.38E-10
PA3988	<i>PA3988</i>	1.644133582	1.18E-06
PA0758	<i>PA0758</i>	1.641106019	4.07E-05
PA5291	<i>PA5291</i>	1.638057634	0.000225
PA4544	<i>rluD</i>	1.634666584	0.000188
PA1082	<i>flgG</i>	1.626458297	0.000233
PA0778	<i>icp</i>	1.624584424	0.000805
PA1049	<i>pdxH</i>	1.621433399	6.1E-06
PA5563	<i>soj</i>	1.61395533	0.000335
PA3285	<i>PA3285</i>	1.604837285	0.000942
PA0660	<i>PA0660</i>	1.603839262	5.66E-05
PA5322	<i>algC</i>	1.597642438	0.00013
PA5172	<i>arcB</i>	1.597022342	3.59E-09
PA4416	<i>murF</i>	1.592914012	0.000191
PA1793	<i>ppiB</i>	1.588114166	3.49E-06
PA4409	<i>ftsQ</i>	1.580421018	0.000705
PA3940	<i>PA3940</i>	1.577879288	3.64E-06
PA4450	<i>murA</i>	1.573529751	4.16E-07
PA2743	<i>infC</i>	1.571783637	2.4E-11
PA0956	<i>proS</i>	1.56623625	5.55E-06
PA1580	<i>gltA</i>	1.562335281	5.76E-05
PA0903	<i>alaS</i>	1.561694568	0.000271
PA1787	<i>acnB</i>	1.560091021	3.79E-07
PA0009	<i>glyQ</i>	1.559707413	0.000155
PA3155	<i>wbpE</i>	1.557322881	0.000392
PA3168	<i>gyrA</i>	1.55556815	1.12E-05
PA1551	<i>PA1551</i>	1.554695671	0.000422

PA2626	<i>trmU</i>	1.541603395	0.000919
PA0425	<i>mexA</i>	1.539776548	0.00025
PA4938	<i>purA</i>	1.534006469	4.15E-07
PA4406	<i>lpxC</i>	1.527892611	3.26E-05
PA0002	<i>dnaN</i>	1.503995573	3.3E-05
PA0958	<i>oprD</i>	1.477949531	0.000152
PA4941	<i>hflC</i>	1.445458017	0.00016
PA1777	<i>oprF</i>	-1.26702446	3.16E-06
PA4764	<i>fur</i>	-1.33559422	2.74E-05
PA1801	<i>clpP</i>	-1.37125279	6.36E-08
PA2854	<i>PA2854</i>	-1.37442003	1.87E-05
PA4525	<i>pilA</i>	-1.39486324	1.77E-08
PA0769	<i>PA0769</i>	-1.41094659	0.000561
PA0547	<i>PA0547</i>	-1.41102286	4.89E-05
PA2023	<i>galU</i>	-1.4132511	8.22E-08
PA1609	<i>fabB</i>	-1.41513247	6.3E-07
PA4944	<i>hfq</i>	-1.41527849	4.38E-07
PA1681	<i>aroC</i>	-1.41530603	0.000389
PA5018	<i>msrA</i>	-1.41857425	4.12E-05
PA5013	<i>ilvE</i>	-1.4204145	2.2E-09
PA5489	<i>dsbA</i>	-1.42395223	1.03E-08
PA0838	<i>PA0838</i>	-1.42950248	0.00089
PA1821	<i>PA1821</i>	-1.43415074	5.47E-05
PA5371	<i>PA5371</i>	-1.4459322	0.000261
PA3257	<i>prc</i>	-1.44613299	9.54E-07
PA0653	<i>PA0653</i>	-1.45065772	1.83E-05
PA0068	<i>PA0068</i>	-1.45123163	0.000299
PA1754	<i>cysB</i>	-1.45182478	7.8E-07
PA5474	<i>PA5474</i>	-1.46720222	0.000145
PA4971	<i>aspP</i>	-1.48480492	8.14E-05
PA5174	<i>PA5174</i>	-1.48536685	3.87E-06
PA5067	<i>hisE</i>	-1.49203374	2.6E-06
PA4492	<i>PA4492</i>	-1.49998147	3.7E-06
PA5107	<i>blc</i>	-1.50327449	2.7E-05
PA0300	<i>spuD</i>	-1.50861222	7.52E-08
PA2531	<i>PA2531</i>	-1.51140622	7.8E-07
PA3199	<i>PA3199</i>	-1.51837314	1.09E-05
PA0265	<i>gabD</i>	-1.51884913	1.48E-07
PA5125	<i>ntrC</i>	-1.52112525	0.000567
PA5233	<i>PA5233</i>	-1.5280418	0.000513
PA5289	<i>PA5289</i>	-1.53108241	0.00016
PA5167	<i>PA5167</i>	-1.53318096	8.67E-05
PA4851	<i>PA4851</i>	-1.53459567	2.86E-06

PA0314	<i>PA0314</i>	-1.53570589	4.71E-07
PA1305	<i>PA1305</i>	-1.54224446	4.33E-07
PA3195	<i>gapA</i>	-1.55065314	3.93E-06
PA0962	<i>PA0962</i>	-1.55934108	0
PA0103a	<i>PA0103a</i>	-1.5663492	0.000437
PA1752	<i>PA1752</i>	-1.56863625	9.09E-06
PA0763	<i>mucA</i>	-1.57712286	0
PA0849	<i>trxB2</i>	-1.57793909	7.82E-08
PA2025	<i>gor</i>	-1.58109341	5E-09
PA2637	<i>nuoA</i>	-1.58192499	1.14E-08
PA3256	<i>PA3256</i>	-1.58592524	6.6E-05
PA4519	<i>speC</i>	-1.59180114	4.3E-09
PA4135	<i>PA4135</i>	-1.60187458	0.000249
PA3754	<i>PA3754</i>	-1.60265076	2.82E-05
PA3017	<i>PA3017</i>	-1.60383077	2.48E-09
PA4455	<i>PA4455</i>	-1.60389178	9.21E-10
PA0837	<i>slyD</i>	-1.60460855	0
PA4079	<i>PA4079</i>	-1.6106318	2.56E-08
PA2444	<i>glyA2</i>	-1.61128701	4.18E-08
PA4722	<i>PA4722</i>	-1.61139144	3.35E-06
PA0006	<i>PA0006</i>	-1.61536661	4.65E-05
PA4534	<i>PA4534</i>	-1.61929969	1.27E-06
PA0429	<i>PA0429</i>	-1.6206213	3.65E-12
PA5200	<i>amgR</i>	-1.62066058	4.97E-11
PA1829	<i>PA1829</i>	-1.62532453	0.000436
PA2707	<i>PA2707</i>	-1.626381	2.91E-08
PA4315	<i>mvaT</i>	-1.6325726	2.03E-08
PA3531	<i>bfrB</i>	-1.63380746	0
PA1775	<i>cmpX</i>	-1.63393146	4.45E-09
PA1769	<i>PA1769</i>	-1.63505142	3.87E-09
PA0667	<i>PA0667</i>	-1.64622719	1.34E-10
PA4537	<i>PA4537</i>	-1.65554339	6.24E-06
PA0655	<i>PA0655</i>	-1.65580741	6.05E-15
PA4922	<i>azu</i>	-1.65587858	0
PA2427	<i>PA2427</i>	-1.65799715	1.07E-13
PA2666	<i>PA2666</i>	-1.65905681	0.000447
PA5305	<i>PA5305</i>	-1.66223194	1.44E-08
PA4556	<i>pilE</i>	-1.66597618	3.66E-09
PA1249	<i>aprA</i>	-1.66872773	7.68E-11
PA0060	<i>PA0060</i>	-1.6715343	0.000674
PA5176	<i>PA5176</i>	-1.67396184	2.84E-10
PA5435	<i>PA5435</i>	-1.68368298	4.83E-08
PA2709	<i>cysK</i>	-1.6839406	1.86E-11

PA5447	<i>wbpZ</i>	-1.69088223	4.03E-05
PA4657	<i>PA4657</i>	-1.69100168	7.38E-10
PA5358	<i>ubiA</i>	-1.69364056	7.8E-11
PA2802	<i>PA2802</i>	-1.69600985	9.62E-08
PA5068	<i>tatA</i>	-1.69972869	8.73E-11
PA0376	<i>rpoH</i>	-1.70151624	0
PA3266	<i>capB</i>	-1.70890372	0
PA3784	<i>PA3784</i>	-1.70952276	1.46E-11
PA2754	<i>PA2754</i>	-1.71114631	5.29E-13
PA2860	<i>PA2860</i>	-1.7115361	4.15E-07
PA3201	<i>PA3201</i>	-1.7260436	2.82E-09
PA4523	<i>PA4523</i>	-1.72877198	1.05E-13
PA5347	<i>PA5347</i>	-1.73811043	7.86E-08
PA3697	<i>PA3697</i>	-1.73897786	7.03E-09
PA3170	<i>PA3170</i>	-1.74335471	1.19E-11
PA4180	<i>PA4180</i>	-1.74349676	1.63E-11
PA4798	<i>PA4798</i>	-1.74352259	5.9E-05
PA1029	<i>PA1029</i>	-1.74437271	0.000179
PA1933	<i>PA1933</i>	-1.74535882	6.86E-10
PA4787	<i>PA4787</i>	-1.75422607	1.41E-08
PA1812	<i>mltD</i>	-1.76067353	4.18E-13
PA5162	<i>rmID</i>	-1.76540688	2.75E-11
PA0158	<i>PA0158</i>	-1.77831067	6.38E-05
PA5363	<i>PA5363</i>	-1.78042743	1.68E-12
PA4511	<i>PA4511</i>	-1.78441557	0.000302
PA5436	<i>PA5436</i>	-1.78594194	2.44E-09
PA4970	<i>PA4970</i>	-1.78686928	1.1E-11
PA4401	<i>PA4401</i>	-1.78761399	3.22E-07
PA3122	<i>PA3122</i>	-1.79121732	0.000696
PA0071	<i>PA0071</i>	-1.79759493	1.67E-10
PA2403	<i>PA2403</i>	-1.79777218	2.05E-12
PA5198	<i>PA5198</i>	-1.79848494	1.65E-08
PA4434	<i>PA4434</i>	-1.79892501	1.66E-09
PA2582	<i>PA2582</i>	-1.8053896	0
PA3533	<i>PA3533</i>	-1.80582523	0
PA0661	<i>PA0661</i>	-1.8132247	1.72E-10
PA1679	<i>PA1679</i>	-1.81741018	4.24E-15
PA3972	<i>PA3972</i>	-1.81816424	0.000228
PA1579	<i>PA1579</i>	-1.82277211	7.63E-20
PA2318	<i>PA2318</i>	-1.83076451	6.77E-05
PA1838	<i>cysI</i>	-1.83087362	1.9E-12
PA0167	<i>PA0167</i>	-1.8323862	6.57E-08
PA4701	<i>PA4701</i>	-1.83457764	6.74E-14

PA2856	<i>tesA</i>	-1.83523161	2.11E-06
PA5150	<i>PA5150</i>	-1.85122925	4.52E-17
PA2009	<i>hmgA</i>	-1.85141647	1.17E-08
PA4236	<i>katA</i>	-1.85458092	0
PA0312	<i>PA0312</i>	-1.8561705	2.86E-13
PA3584	<i>glpD</i>	-1.85848772	0
PA1741	<i>PA1741</i>	-1.86704779	1.16E-11
PA1813	<i>PA1813</i>	-1.86906729	3.04E-10
PA5206	<i>argE</i>	-1.87407381	1.42E-11
PA2824	<i>PA2824</i>	-1.87480883	3.85E-05
PA1096	<i>PA1096</i>	-1.87655665	0
PA3052	<i>PA3052</i>	-1.87737845	1.1E-10
PA1203	<i>PA1203</i>	-1.88003052	0.000842
PA3349	<i>PA3349</i>	-1.88383126	0
PA5165	<i>PA5165</i>	-1.8838556	0.000102
PA4951	<i>orn</i>	-1.8860684	2.17E-15
PA1756	<i>cysH</i>	-1.89190447	1.71E-08
PA3437	<i>folM</i>	-1.89499655	6.28E-07
PA4521	<i>PA4521</i>	-1.9033609	9.36E-07
PA0715	<i>PA0715</i>	-1.9033807	1.74E-09
PA1946	<i>rbsB</i>	-1.90639429	1.74E-06
PA2797	<i>PA2797</i>	-1.90657646	6.4E-17
PA0745	<i>PA0745</i>	-1.91028637	1.58E-08
PA3043	<i>PA3043</i>	-1.91044266	2.57E-10
PA2443	<i>sdaA</i>	-1.9131974	5.94E-16
PA4175	<i>piv</i>	-1.91392065	8.96E-21
PA1065	<i>PA1065</i>	-1.91561704	7.57E-05
PA1005	<i>PA1005</i>	-1.91714157	1.4E-15
PA0053	<i>PA0053</i>	-1.91771465	2.14E-11
PA3582	<i>glpK</i>	-1.92893925	6.29E-23
PA2896	<i>PA2896</i>	-1.93144825	5.41E-05
PA0706	<i>cat</i>	-1.93762415	1.89E-09
PA3345	<i>PA3345</i>	-1.93845988	0.000321
PA5267	<i>hcpB</i>	-1.95808254	4.78E-08
PA0565	<i>PA0565</i>	-1.96328821	2.93E-09
PA2685	<i>PA2685</i>	-1.9638614	1.32E-08
PA2960	<i>pilZ</i>	-1.96834104	1.95E-13
PA3815	<i>iscR</i>	-1.97206175	2.9E-21
PA3022	<i>PA3022</i>	-1.97620706	4.31E-16
PA2586	<i>gacA</i>	-1.97923268	9.47E-22
PA1306	<i>PA1306</i>	-1.97987761	7.12E-14
PA2756	<i>PA2756</i>	-1.98150209	3.98E-15
PA2718	<i>PA2718</i>	-1.98300067	9.93E-06

PA5313	<i>PA5313</i>	-1.98648437	2.52E-12
PA1610	<i>fabA</i>	-1.98666039	8.18E-22
PA5240	<i>trxA</i>	-1.99399004	0
PA1474	<i>PA1474</i>	-1.99846993	2.44E-15
PA3053	<i>PA3053</i>	-2.0017382	3E-05
PA1039	<i>PA1039</i>	-2.00300356	0.000181
PA3229	<i>PA3229</i>	-2.00369995	0.000207
PA0157	<i>PA0157</i>	-2.00391002	0.000128
PA5450	<i>wzt</i>	-2.00516555	2.64E-06
PA4604	<i>PA4604</i>	-2.00519779	6.57E-08
PA1247	<i>aprE</i>	-2.0076475	1.34E-07
PA5288	<i>glnK</i>	-2.01307147	0
PA1034	<i>PA1034</i>	-2.02006374	3.11E-05
PA3010	<i>PA3010</i>	-2.03122201	3.77E-21
PA2231	<i>pslA</i>	-2.03157768	6.74E-12
PA1246	<i>aprD</i>	-2.03465552	9.06E-11
PA1199	<i>PA1199</i>	-2.04100309	2.41E-21
PA1366	<i>PA1366</i>	-2.04300581	1.82E-11
PA3399	<i>PA3399</i>	-2.04753406	5.39E-06
PA5111	<i>gloA3</i>	-2.0498315	4.02E-12
PA4611	<i>PA4611</i>	-2.05015144	0
PA2008	<i>fahA</i>	-2.0516979	1.4E-09
PA0500	<i>bioB</i>	-2.05200588	2.46E-15
PA4954	<i>motA</i>	-2.05667773	1.11E-22
PA4026	<i>PA4026</i>	-2.06580076	1.99E-15
PA1478	<i>PA1478</i>	-2.06686506	1.19E-06
PA5119	<i>glnA</i>	-2.07039406	0
PA1248	<i>aprF</i>	-2.07869326	6.15E-05
PA4419	<i>ftsL</i>	-2.07915478	6.05E-09
PA1129	<i>PA1129</i>	-2.08232067	5.25E-07
PA0195	<i>pntAA</i>	-2.08689856	6E-11
PA2606	<i>PA2606</i>	-2.08928722	9.68E-14
PA2559a	<i>PA2559a</i>	-2.09310152	0.000258
PA3313	<i>PA3313</i>	-2.09457196	5.5E-21
PA0862	<i>PA0862</i>	-2.09606509	3.94E-20
PA4940	<i>PA4940</i>	-2.09842701	4.31E-13
PA2805	<i>PA2805</i>	-2.10035205	0
PA0055	<i>PA0055</i>	-2.10779797	4.9E-17
PA5091	<i>hutG</i>	-2.10966281	0.000206
PA2045	<i>PA2045</i>	-2.10989145	6.15E-13
PA0338	<i>PA0338</i>	-2.11602041	3.24E-05
PA4451	<i>PA4451</i>	-2.12073652	1.85E-20
PA0385	<i>PA0385</i>	-2.1226252	1.81E-05

PA4614	<i>mscL</i>	-2.13267538	0
PA1432	<i>lasI</i>	-2.13447399	5.54E-24
PA2609	<i>PA2609</i>	-2.13488673	1.42E-15
PA1331	<i>PA1331</i>	-2.13495105	0.000208
PA5423	<i>PA5423</i>	-2.13500497	9.78E-16
PA0820	<i>PA0820</i>	-2.137419	2.52E-10
PA0821	<i>PA0821</i>	-2.13786853	1.88E-06
PA1244	<i>PA1244</i>	-2.13861361	1.3E-24
PA4291	<i>PA4291</i>	-2.13933455	8.21E-23
PA1998	<i>dhcR</i>	-2.14050561	0.000345
PA1245	<i>PA1245</i>	-2.14309228	6.37E-28
PA0148	<i>PA0148</i>	-2.15113746	2.62E-15
PA0603	<i>PA0603</i>	-2.15412428	1.45E-09
PA2942.1	<i>PA2942.1</i>	-2.16198261	1.09E-17
PA2049	<i>PA2049</i>	-2.1626731	1.41E-10
PA1066	<i>PA1066</i>	-2.16364389	4.44E-06
PA3340	<i>PA3340</i>	-2.16838833	1.34E-06
PA3898	<i>PA3898</i>	-2.18577737	5.78E-07
PA2062	<i>PA2062</i>	-2.18667506	2.19E-06
PA4697	<i>PA4697</i>	-2.19088664	1.92E-18
PA1463	<i>PA1463</i>	-2.19239654	6.54E-25
PA1134	<i>PA1134</i>	-2.21522627	6.98E-07
PA0953	<i>PA0953</i>	-2.21627129	1.16E-12
PA5017	<i>PA5017</i>	-2.21995057	4.63E-24
PA1040	<i>PA1040</i>	-2.22196559	1.73E-07
PA4735	<i>PA4735</i>	-2.22229318	4.72E-25
PA3306	<i>PA3306</i>	-2.23099948	1.59E-10
PA3733	<i>PA3733</i>	-2.2314525	4.02E-12
PA2568	<i>PA2568</i>	-2.23735166	1.17E-12
PA3739	<i>PA3739</i>	-2.23823836	1.14E-05
PA3338	<i>PA3338</i>	-2.23945211	1.68E-07
PA3475	<i>pheC</i>	-2.24126888	6.78E-11
PA2195	<i>hcnC</i>	-2.24150248	3.73E-08
PA3856	<i>PA3856</i>	-2.24206414	3.24E-14
PA3455	<i>PA3455</i>	-2.24428939	8.26E-26
PA5161	<i>rmIB</i>	-2.25076697	1.47E-38
PA0792	<i>prpD</i>	-2.25660177	2.83E-11
PA0446	<i>PA0446</i>	-2.25838791	6.34E-12
PA4466	<i>PA4466</i>	-2.26046909	3.52E-14
PA5356	<i>glcC</i>	-2.26314791	0.000121
PA3576	<i>PA3576</i>	-2.26687751	1.85E-08
PA4463	<i>PA4463</i>	-2.26841869	0
PA4111	<i>PA4111</i>	-2.27014766	3.22E-11

PA4027	<i>PA4027</i>	-2.27482042	1.11E-05
PA2841	<i>PA2841</i>	-2.28178393	2.24E-08
PA0397	<i>PA0397</i>	-2.28390132	3.5E-08
PA1376	<i>aceK</i>	-2.28496198	2.22E-12
PA4421.1	<i>rnpB</i>	-2.2851161	0
PA1269	<i>PA1269</i>	-2.29670558	2.08E-12
PA4181	<i>PA4181</i>	-2.29793784	1.53E-05
PA3330	<i>PA3330</i>	-2.30235485	0.000232
PA2857	<i>PA2857</i>	-2.30411361	1.06E-06
PA3785	<i>PA3785</i>	-2.30961351	1.78E-18
PA5446	<i>PA5446</i>	-2.31400588	0
PA3615	<i>PA3615</i>	-2.3147084	6.82E-30
PA1760	<i>PA1760</i>	-2.32783508	6.86E-07
PA1469	<i>PA1469</i>	-2.33001052	4.01E-05
PA1092	<i>fliC</i>	-2.34669116	0
PA4116	<i>bphO</i>	-2.34888056	1.58E-11
PA1544	<i>anr</i>	-2.3498956	0
PA3412	<i>PA3412</i>	-2.35079672	0.000384
PA5153	<i>PA5153</i>	-2.35527624	2.24E-25
PA2620	<i>clpA</i>	-2.37599988	0
PA2747a	<i>PA2747a</i>	-2.38193111	1.2E-05
PA3857	<i>pcs</i>	-2.39078965	2.62E-23
PA2007	<i>maiA</i>	-2.39182421	3.01E-20
PA5522	<i>PA5522</i>	-2.39394441	5.49E-06
PA4391	<i>PA4391</i>	-2.39399859	4.71E-06
PA3190	<i>PA3190</i>	-2.39418406	3.31E-25
PA1123	<i>PA1123</i>	-2.39906819	1.72E-18
PA2827	<i>PA2827</i>	-2.40060413	4.75E-29
PA3602	<i>PA3602</i>	-2.40397048	3.53E-27
PA3819	<i>PA3819</i>	-2.40577874	8.97E-38
PA3786	<i>PA3786</i>	-2.4139915	1.83E-21
PA4535	<i>PA4535</i>	-2.42779974	5.48E-20
PA4713	<i>PA4713</i>	-2.43424437	0.000113
PA3239	<i>PA3239</i>	-2.43544318	3.58E-22
PA1473	<i>PA1473</i>	-2.43950426	8.76E-07
PA0954	<i>PA0954</i>	-2.44158027	1.79E-19
PA4017	<i>PA4017</i>	-2.44381485	3.53E-30
PA3796	<i>PA3796</i>	-2.44396926	1.87E-12
PA2749	<i>endA</i>	-2.44690262	5.63E-09
PA1325	<i>PA1325</i>	-2.45612263	8.93E-06
PA3681	<i>PA3681</i>	-2.4581377	2.49E-05
PA2781	<i>PA2781</i>	-2.45934889	0.000772
PA5261	<i>algR</i>	-2.47274849	2.72E-40

PA0952	<i>PA0952</i>	-2.4731516	1.81E-31
PA5255	<i>algQ</i>	-2.47325121	0
PA3436	<i>PA3436</i>	-2.47770147	6.94E-06
PA3352	<i>PA3352</i>	-2.47870201	0
PA5449	<i>wbpX</i>	-2.48216964	1.72E-08
PA2694	<i>PA2694</i>	-2.48702709	6.96E-10
PA3973	<i>PA3973</i>	-2.4893909	6.78E-16
PA2193	<i>hcnA</i>	-2.5006741	2.42E-06
PA5526	<i>PA5526</i>	-2.50364553	8.41E-18
PA3788	<i>PA3788</i>	-2.50745051	2.51E-10
PA1120	<i>tpbB</i>	-2.50836825	1.67E-09
PA5378	<i>PA5378</i>	-2.50913633	4.64E-19
PA4884	<i>PA4884</i>	-2.51130666	1.19E-18
PA5445	<i>PA5445</i>	-2.51200305	7.89E-11
PA3851	<i>PA3851</i>	-2.51432147	1.04E-29
PA1736	<i>PA1736</i>	-2.51753594	4.85E-05
PA0827	<i>PA0827</i>	-2.52980616	0.000114
PA3295	<i>PA3295</i>	-2.53519547	6.09E-30
PA2279	<i>arsC</i>	-2.53879686	2E-07
PA5451	<i>wzm</i>	-2.54128394	3.13E-10
PA1124	<i>dgt</i>	-2.54701027	1.94E-17
PA0784	<i>PA0784</i>	-2.54911922	3.2E-29
PA1623	<i>PA1623</i>	-2.55103644	1.12E-33
PA3272	<i>PA3272</i>	-2.55314322	0.000472
PA3463	<i>PA3463</i>	-2.55964837	9.85E-06
PA1401	<i>PA1401</i>	-2.56214521	0.00073
PA1817	<i>PA1817</i>	-2.56595574	1.94E-22
PA1994	<i>PA1994</i>	-2.56674164	1.03E-07
PA2751	<i>PA2751</i>	-2.57021313	0.000547
PA3142	<i>PA3142</i>	-2.57033672	2.31E-15
PA2404	<i>PA2404</i>	-2.58043766	7.46E-36
PA4024	<i>eutB</i>	-2.58458066	0.000147
PA1995	<i>PA1995</i>	-2.58681559	1.35E-09
PA2491	<i>PA2491</i>	-2.5890104	1.39E-33
PA4498	<i>PA4498</i>	-2.58914653	1.88E-25
PA3844	<i>PA3844</i>	-2.5953217	3.49E-27
PA4536	<i>PA4536</i>	-2.60162475	5.64E-08
PA2623	<i>icd</i>	-2.60767674	0
PA5452	<i>wbpW</i>	-2.60961742	3.03E-15
PA4712	<i>PA4712</i>	-2.61038525	2.31E-06
PA5461	<i>PA5461</i>	-2.61184482	0
PA5105	<i>hutC</i>	-2.61338805	4.08E-22
PA4522	<i>ampD</i>	-2.62126135	1.49E-18

PA3753	<i>PA3753</i>	-2.62227088	1.47E-19
PA1603	<i>PA1603</i>	-2.62414531	5.39E-15
PA1850	<i>PA1850</i>	-2.62443048	2.95E-05
PA2773	<i>PA2773</i>	-2.62630148	0.000566
PA4793	<i>PA4793</i>	-2.63224024	1.42E-29
PA2026	<i>PA2026</i>	-2.63525508	2.06E-09
PA4205	<i>mexG</i>	-2.64014249	3.64E-07
PA5030	<i>PA5030</i>	-2.64316002	6.82E-39
PA0905	<i>rsmA</i>	-2.64497775	0
PA4366	<i>sodB</i>	-2.64750212	0
PA4392	<i>PA4392</i>	-2.64951091	4.01E-06
PA5163	<i>rmlA</i>	-2.65544355	0
PA0830	<i>PA0830</i>	-2.66658702	1.21E-06
PA5253	<i>algP</i>	-2.66659147	0
PA3687	<i>ppc</i>	-2.67368819	1.13E-21
PA0851	<i>PA0851</i>	-2.6880425	3.97E-15
PA3098	<i>xcpW</i>	-2.68866503	7.42E-22
PA5285	<i>PA5285</i>	-2.68869042	9.76E-55
PA4677	<i>PA4677</i>	-2.69195352	1.51E-08
PA2105	<i>PA2105</i>	-2.69552228	4.84E-10
PA1119	<i>yfiB</i>	-2.6957655	2.17E-25
PA4775	<i>PA4775</i>	-2.69745573	0.000337
PA1879	<i>PA1879</i>	-2.70426731	1.22E-09
PA0114	<i>senC</i>	-2.7133933	7.75E-27
PA2659	<i>PA2659</i>	-2.71534016	8.85E-19
PA2121	<i>PA2121</i>	-2.71652908	2.12E-05
PA4636a	<i>PA4636a</i>	-2.72072447	8.69E-06
PA0704	<i>PA0704</i>	-2.72089956	1.55E-11
PA0424	<i>mexR</i>	-2.72240032	6.31E-37
PA3300	<i>fadD2</i>	-2.72758137	9.36E-10
PA4335	<i>PA4335</i>	-2.73294015	3.25E-10
PA0604	<i>PA0604</i>	-2.73320225	7.55E-11
PA3855	<i>PA3855</i>	-2.77213414	7.84E-19
PA2831	<i>PA2831</i>	-2.78058719	9.45E-31
PA3966	<i>PA3966</i>	-2.788447	4.84E-26
PA5360	<i>phoB</i>	-2.79259356	1.99E-30
PA0345	<i>PA0345</i>	-2.7952586	0.000971
PA4773	<i>PA4773</i>	-2.7982977	5.2E-12
PA3329	<i>PA3329</i>	-2.80477214	2.66E-06
PA1852	<i>PA1852</i>	-2.80484313	0
PA0846	<i>PA0846</i>	-2.81314534	2.49E-27
PA0793	<i>PA0793</i>	-2.81340111	5.49E-15
PA0344	<i>PA0344</i>	-2.81378519	1.31E-09

PA4633	<i>PA4633</i>	-2.82166804	4.95E-43
PA0996	<i>pqsA</i>	-2.82957234	0.000827
PA5520	<i>PA5520</i>	-2.83125723	4.08E-17
PA5124	<i>ntrB</i>	-2.83751269	2.86E-28
PA1358	<i>PA1358</i>	-2.84152848	7.53E-24
PA3123	<i>PA3123</i>	-2.8427246	1.34E-21
PA4108	<i>PA4108</i>	-2.84302955	1.76E-20
PA1991	<i>PA1991</i>	-2.84366064	0.000482
PA2280	<i>PA2280</i>	-2.846625	2.82E-08
PA4183	<i>PA4183</i>	-2.84996466	6.16E-11
PA2864	<i>PA2864</i>	-2.85464851	3.57E-37
PA0741	<i>PA0741</i>	-2.85785343	0.000426
PA2301	<i>PA2301</i>	-2.8672172	4.03E-11
PA1181	<i>PA1181</i>	-2.87684354	2.36E-08
PA1776	<i>sigX</i>	-2.88060055	8.01E-75
PA3333	<i>fabH2</i>	-2.88400508	1.23E-08
PA4147	<i>acoR</i>	-2.88843315	7.76E-07
PA0737	<i>PA0737</i>	-2.89429026	4.85E-07
PA4025	<i>PA4025</i>	-2.89646155	0.000731
PA2723	<i>PA2723</i>	-2.90023606	5.75E-10
PA5329	<i>PA5329</i>	-2.9014183	1.81E-27
PA4041	<i>PA4041</i>	-2.90226556	4.87E-06
PA1127	<i>PA1127</i>	-2.90808781	5.36E-14
PA4309	<i>pctA</i>	-2.91005614	2.05E-44
PA5020	<i>PA5020</i>	-2.91084594	4.02E-08
PA2430	<i>PA2430</i>	-2.92380187	6.32E-05
PA3238	<i>PA3238</i>	-2.92749991	3.08E-30
PA0095	<i>PA0095</i>	-2.92891167	9.11E-15
PA4641	<i>PA4641</i>	-2.93039935	6.38E-30
PA3331	<i>PA3331</i>	-2.93166182	6.85E-13
PA4827	<i>PA4827</i>	-2.93602068	1.23E-09
PA3957	<i>PA3957</i>	-2.93634962	4.19E-11
PA0436	<i>PA0436</i>	-2.93915136	3.35E-38
PA1095	<i>PA1095</i>	-2.94333256	0
PA1112.1	<i>PA1112.1</i>	-2.94390053	0
PA1523	<i>xdhB</i>	-2.95759769	4.65E-05
PA0543	<i>PA0543</i>	-2.95795811	1.78E-05
PA1402	<i>PA1402</i>	-2.95873696	0.000543
<i>algZ</i>	<i>algZ</i>	-2.9601252	7.29E-30
PA2927	<i>PA2927</i>	-2.96812863	1.7E-09
PA1672	<i>PA1672</i>	-2.97274459	1.24E-08
PA0132	<i>PA0132</i>	-2.97370243	2.17E-08
PA2633	<i>PA2633</i>	-2.97768339	2.63E-18

PA4033	<i>PA4033</i>	-2.99363545	6.1E-05
PA0460	<i>PA0460</i>	-2.99764259	7.43E-40
PA2276	<i>PA2276</i>	-3.01085581	0.000762
PA3186	<i>oprB</i>	-3.02524282	3.85E-17
PA1943	<i>PA1943</i>	-3.02851586	4.54E-12
PA3787	<i>PA3787</i>	-3.03369268	9.81E-25
PA0490	<i>PA0490</i>	-3.03531415	9.94E-11
PA2682	<i>PA2682</i>	-3.03838491	7.55E-06
PA3906	<i>PA3906</i>	-3.04292601	3.18E-14
PA4774	<i>PA4774</i>	-3.05033317	0.000109
PA5527	<i>PA5527</i>	-3.05433381	1.54E-65
PA1033	<i>PA1033</i>	-3.0552618	5.31E-41
PA0731	<i>PA0731</i>	-3.05526761	9.25E-25
PA2668	<i>PA2668</i>	-3.0570864	4.63E-24
PA4040	<i>PA4040</i>	-3.0642453	2.43E-05
PA0871	<i>phhB</i>	-3.06617286	5.58E-85
PA2949	<i>PA2949</i>	-3.06972887	2.25E-16
PA0794	<i>PA0794</i>	-3.07537043	1.81E-17
PA4914	<i>PA4914</i>	-3.08363219	0.000289
PA4382	<i>PA4382</i>	-3.09447152	1.21E-06
PA2608	<i>PA2608</i>	-3.09479322	1.92E-22
PA2549	<i>PA2549</i>	-3.09899923	1.1E-13
PA1437	<i>PA1437</i>	-3.11046047	1.1E-06
PA3430	<i>PA3430</i>	-3.11171078	4.38E-22
PA2605	<i>PA2605</i>	-3.11353721	6.62E-39
PA5249	<i>PA5249</i>	-3.11602605	1.26E-20
PA5454	<i>rmd</i>	-3.11791671	4.1E-36
PA4182	<i>PA4182</i>	-3.11925944	8.36E-29
PA0380	<i>PA0380</i>	-3.12297397	3.09E-19
PA1814	<i>PA1814</i>	-3.12632502	1.54E-41
PA4495	<i>PA4495</i>	-3.1266775	2.11E-65
PA0959	<i>PA0959</i>	-3.13320422	3.57E-37
PA4955	<i>PA4955</i>	-3.13427975	5.82E-21
PA3096	<i>xcpY</i>	-3.13768583	2.53E-31
PA4345	<i>PA4345</i>	-3.15188331	2.08E-31
PA4927	<i>PA4927</i>	-3.16422133	2.11E-08
PA3217	<i>cyaB</i>	-3.16455071	1.44E-27
PA3097	<i>xcpX</i>	-3.16865095	3.6E-25
PA2344	<i>mtlZ</i>	-3.18982692	1.38E-09
PA0540	<i>PA0540</i>	-3.1907363	6.73E-10
PA5164	<i>rmlC</i>	-3.20126229	4.93E-66
PA4994	<i>PA4994</i>	-3.21711667	8.49E-05
PA0364	<i>PA0364</i>	-3.22325209	4.56E-05

PA5104	<i>PA5104</i>	-3.24409846	1.17E-14
PA0099	<i>PA0099</i>	-3.24536312	1.01E-06
PA4717	<i>PA4717</i>	-3.25062637	2.19E-56
PA1121	<i>yfiR</i>	-3.26942803	1.22E-15
PA3908	<i>PA3908</i>	-3.27425694	1.87E-40
PA3867	<i>PA3867</i>	-3.27698037	1.33E-07
PA2764	<i>PA2764</i>	-3.27989434	7.16E-45
PA2244	<i>pslN</i>	-3.290501	6.5E-06
PA3079	<i>PA3079</i>	-3.29057194	3.32E-20
PA2814	<i>PA2814</i>	-3.29336373	4.6E-09
PA3919	<i>PA3919</i>	-3.29925379	2.32E-55
PA5060	<i>phaF</i>	-3.30345954	0
PA0810	<i>PA0810</i>	-3.31879613	6.54E-12
PA2358	<i>PA2358</i>	-3.31999977	0.000453
PA2883	<i>PA2883</i>	-3.32907248	1.51E-21
PA3327	<i>PA3327</i>	-3.33801042	3.91E-10
PA3351	<i>flgM</i>	-3.34497805	0
PA5108	<i>PA5108</i>	-3.34612988	2.72E-61
PA1342	<i>PA1342</i>	-3.35047498	0
PA4346	<i>PA4346</i>	-3.35486611	0.000145
PA3221	<i>csaA</i>	-3.35670776	1.57E-30
PA3373	<i>PA3373</i>	-3.36235051	3.88E-30
PA3779	<i>PA3779</i>	-3.37945769	1.54E-07
PA2893	<i>atuH</i>	-3.38652338	0.000769
PA5028	<i>PA5028</i>	-3.39021499	5.42E-63
PA1472	<i>PA1472</i>	-3.39037747	1.3E-07
PA1753	<i>PA1753</i>	-3.39226288	5.34E-38
PA0960	<i>PA0960</i>	-3.39385129	8.07E-17
PA1189	<i>PA1189</i>	-3.39969168	1.98E-09
PA4378	<i>inaA</i>	-3.40907918	6.95E-50
PA2897	<i>PA2897</i>	-3.40979011	2.7E-109
PA1545	<i>PA1545</i>	-3.42722312	1.71E-50
PA1430	<i>lasR</i>	-3.43688184	9.5E-74
PA3254	<i>PA3254</i>	-3.44403419	2.66E-10
PA4889	<i>PA4889</i>	-3.44671088	0.000306
PA1328	<i>PA1328</i>	-3.45137385	1.81E-24
PA1737	<i>PA1737</i>	-3.4557708	2.98E-13
PA2830	<i>htpX</i>	-3.45657229	8.36E-90
PA0505	<i>PA0505</i>	-3.45840278	1.1E-127
PA3682	<i>PA3682</i>	-3.46195373	3.99E-16
PA1945	<i>PA1945</i>	-3.46384965	7.39E-07
PA4364	<i>PA4364</i>	-3.46450954	3.02E-16
PA4456	<i>PA4456</i>	-3.48119836	1.21E-97

PA5213	<i>gcvP1</i>	-3.48196231	4.51E-14
PA2489	<i>PA2489</i>	-3.49579345	7.49E-10
PA3459	<i>PA3459</i>	-3.51885442	3.5E-78
PA4926	<i>PA4926</i>	-3.5283189	9.01E-08
PA4326	<i>PA4326</i>	-3.53045572	5.69E-41
PA3080	<i>PA3080</i>	-3.53689779	5.66E-63
PA2989	<i>PA2989</i>	-3.53758501	3.23E-22
PA3825	<i>PA3825</i>	-3.54175978	1.52E-12
PA1951	<i>PA1951</i>	-3.54901906	2.08E-13
PA0572	<i>PA0572</i>	-3.56748882	4.4E-103
PA1198	<i>PA1198</i>	-3.59676285	1.5E-154
PA2750	<i>PA2750</i>	-3.61848657	1.07E-43
PA0853	<i>PA0853</i>	-3.6264027	2.58E-17
PA5521	<i>PA5521</i>	-3.62768913	1.83E-77
PA0422	<i>PA0422</i>	-3.62814473	5.44E-72
PA1423	<i>bdIA</i>	-3.62950043	3.08E-22
PA5073	<i>PA5073</i>	-3.63178994	1.79E-68
PA1592	<i>PA1592</i>	-3.6417129	0
PA1191	<i>PA1191</i>	-3.64200191	1.09E-16
PA4605	<i>PA4605</i>	-3.65384341	2.87E-45
PA0804	<i>PA0804</i>	-3.66162836	9.43E-52
PA0734	<i>PA0734</i>	-3.66952237	6.69E-12
PA4875	<i>PA4875</i>	-3.67831663	4.95E-27
PA0462	<i>PA0462</i>	-3.68068532	6.55E-60
PA5453	<i>gmd</i>	-3.69672877	1E-69
PA5528	<i>PA5528</i>	-3.70090178	0
PA4635	<i>PA4635</i>	-3.70404304	2.33E-06
PA0839	<i>PA0839</i>	-3.71643086	7.03E-20
PA0777	<i>PA0777</i>	-3.71751654	1.78E-16
PA0988	<i>PA0988</i>	-3.719233	1.51E-56
PA3089	<i>PA3089</i>	-3.72646465	3.67E-10
PA4034	<i>aqpZ</i>	-3.7335744	5.21E-11
PA2373	<i>PA2373</i>	-3.73625729	5.21E-11
PA1887	<i>PA1887</i>	-3.74895132	1.8E-05
PA4384	<i>PA4384</i>	-3.76434967	6.08E-28
PA0689	<i>PA0689</i>	-3.77771868	5.18E-33
PA3756	<i>PA3756</i>	-3.78514569	8.4E-104
PA3846	<i>PA3846</i>	-3.79827878	1.83E-76
PA3426	<i>PA3426</i>	-3.80170234	3.83E-26
PA2716	<i>PA2716</i>	-3.80369497	4.17E-09
PA4444	<i>mltB1</i>	-3.80755345	1.97E-47
PA1408	<i>PA1408</i>	-3.8122352	1.11E-08
PA5276	<i>lppL</i>	-3.8231069	4.62E-26

PA0557	<i>PA0557</i>	-3.82317962	3.54E-14
PA3581	<i>glpF</i>	-3.83636123	1.23E-92
PA2511	<i>PA2511</i>	-3.83751746	7.06E-09
PA0315	<i>PA0315</i>	-3.83950215	0
PA0452	<i>PA0452</i>	-3.85392404	6.7E-06
PA1939	<i>PA1939</i>	-3.86890129	2.79E-88
PA4591	<i>PA4591</i>	-3.88872078	2.2E-07
PA3740	<i>PA3740</i>	-3.91257947	1.03E-62
PA0507	<i>PA0507</i>	-3.92155292	9.55E-07
PA3095	<i>xcpZ</i>	-3.9220883	1.5E-26
PA2915	<i>PA2915</i>	-3.92596982	1.39E-44
PA5361	<i>phoR</i>	-3.93497275	2.89E-16
PA0029	<i>PA0029</i>	-3.94731077	0.000969
PA5462	<i>PA5462</i>	-3.95198066	3.66E-36
PA3711	<i>PA3711</i>	-3.95529666	5.26E-25
PA3572	<i>PA3572</i>	-3.95545052	4.76E-27
PA1895	<i>PA1895</i>	-3.95841797	4.15E-06
PA1749	<i>PA1749</i>	-3.9604792	4.1E-122
PA3103	<i>xcpR</i>	-3.97712863	6.9E-109
PA3684	<i>PA3684</i>	-3.98823061	5.95E-25
PA5106	<i>PA5106</i>	-3.98849776	1.11E-20
PA3332	<i>PA3332</i>	-3.98940351	1.16E-27
PA1202	<i>PA1202</i>	-3.99968377	3E-152
PA4606	<i>PA4606</i>	-4.00038824	4E-111
PA0269	<i>PA0269</i>	-4.00561001	1.53E-06
PA2788	<i>PA2788</i>	-4.01706352	2.2E-119
PA3907	<i>PA3907</i>	-4.02326525	2.1E-23
PA4327	<i>PA4327</i>	-4.04158055	2E-15
PA4681	<i>PA4681</i>	-4.04576366	8.17E-05
PA2780	<i>PA2780</i>	-4.04776793	1.2E-11
PA5234	<i>PA5234</i>	-4.07450143	2.6E-47
PA3102	<i>xcpS</i>	-4.07938218	8.87E-69
PA4782	<i>PA4782</i>	-4.08480848	3.09E-35
PA2796	<i>tal</i>	-4.10803228	4.8E-154
PA3905	<i>PA3905</i>	-4.11354711	6.49E-13
PA2378	<i>PA2378</i>	-4.11622158	8.87E-32
PA0854	<i>fumC2</i>	-4.11729443	2.09E-63
PA4190	<i>pqsL</i>	-4.11979588	9.35E-65
PA3100	<i>xcpU</i>	-4.13139908	3.7E-106
PA3140	<i>PA3140</i>	-4.13321105	1.5E-09
PA4397	<i>panE</i>	-4.15324057	4.72E-12
PA2376	<i>PA2376</i>	-4.155419	0.000591
PA3236	<i>PA3236</i>	-4.17308381	3.04E-05

PA3105	<i>xcpQ</i>	-4.18057142	2.3E-114
PA1872	<i>PA1872</i>	-4.2178736	1.24E-60
PA0855	<i>PA0855</i>	-4.23730181	5.03E-19
PA2879	<i>PA2879</i>	-4.23779859	1.29E-40
PA2702	<i>PA2702</i>	-4.24433899	1.09E-23
PA2755a	<i>PA2755a</i>	-4.25033087	5.4E-99
PA5380	<i>gbdR</i>	-4.2576463	3.44E-22
PA3690	<i>PA3690</i>	-4.25901663	6.58E-41
PA3120	<i>leuD</i>	-4.27035635	4.1E-108
PA3526	<i>PA3526</i>	-4.27162731	1.18E-66
PA3965	<i>PA3965</i>	-4.27559053	1.22E-94
PA0788	<i>PA0788</i>	-4.27797009	2.18E-07
PA3031	<i>PA3031</i>	-4.27837971	0
PA2114	<i>PA2114</i>	-4.28408586	0.000963
PA0012	<i>PA0012</i>	-4.29843557	5.59E-24
PA2189	<i>PA2189</i>	-4.30152643	4.1E-06
PA2678	<i>PA2678</i>	-4.30477034	1.85E-05
PA5421	<i>fdhA</i>	-4.31452984	1.85E-05
PA0982	<i>PA0982</i>	-4.34759556	2.08E-33
PA1122	<i>PA1122</i>	-4.35188523	1.4E-51
PA1159	<i>PA1159</i>	-4.35567328	1.66E-97
PA4379	<i>PA4379</i>	-4.3620076	3.6E-100
PA2786	<i>PA2786</i>	-4.36884333	6E-17
PA4206	<i>mexH</i>	-4.39249366	6.29E-13
PA0732	<i>PA0732</i>	-4.39802416	4.92E-35
PA0473	<i>PA0473</i>	-4.41569501	1.04E-31
PA0447	<i>gcdH</i>	-4.42323287	7.73E-54
PA0366	<i>PA0366</i>	-4.42721895	4.24E-32
PA0524	<i>norB</i>	-4.43144239	0.000358
PA4010	<i>PA4010</i>	-4.4389084	7.3E-115
PA2047	<i>PA2047</i>	-4.44430422	3.9E-17
PA3261	<i>PA3261</i>	-4.44447795	6.73E-70
PA3039	<i>PA3039</i>	-4.45504308	3.5E-07
PA4499	<i>PA4499</i>	-4.47299112	2.83E-48
PA1345	<i>PA1345</i>	-4.47720115	3.37E-07
PA3496	<i>PA3496</i>	-4.47857549	2.28E-14
PA4176	<i>ppiC2</i>	-4.49060424	1.9E-113
PA3551	<i>algA</i>	-4.50242523	4.4E-30
PA0805	<i>PA0805</i>	-4.50535824	3.7E-157
PA3969	<i>PA3969</i>	-4.50621288	2.55E-86
PA2708	<i>PA2708</i>	-4.51040289	1.21E-07
PA3104	<i>xcpP</i>	-4.51398003	1.12E-85
PA2878	<i>PA2878</i>	-4.5314847	1.05E-18

PA1617	<i>PA1617</i>	-4.54060999	5.48E-40
PA5103	<i>PA5103</i>	-4.56511209	1.23E-24
PA3392	<i>nosZ</i>	-4.57126352	7.23E-08
PA1641	<i>PA1641</i>	-4.58683579	4.82E-09
PA3689	<i>PA3689</i>	-4.60023336	5.82E-87
PA0575	<i>PA0575</i>	-4.62583759	8.79E-20
PA3945	<i>PA3945</i>	-4.62826932	9.12E-67
PA4362	<i>PA4362</i>	-4.65797451	2E-29
PA1250	<i>aprI</i>	-4.69605011	5.65E-52
PA2621	<i>PA2621</i>	-4.69645167	9.73E-85
PA2787	<i>cpg2</i>	-4.69794947	6.49E-35
PA0365	<i>PA0365</i>	-4.70375427	8.3E-16
PA2555	<i>PA2555</i>	-4.71087488	1.33E-09
PA0861	<i>PA0861</i>	-4.71921394	3.07E-59
PA2477	<i>PA2477</i>	-4.74154717	2.58E-05
PA0049	<i>PA0049</i>	-4.753193	1.07E-10
PA1106	<i>PA1106</i>	-4.7551554	9.4E-103
PA2327	<i>PA2327</i>	-4.76674746	2.84E-67
PA1944	<i>PA1944</i>	-4.76817107	5.49E-47
PA1136	<i>PA1136</i>	-4.77098161	1.4E-12
PA2076	<i>PA2076</i>	-4.7743402	1.74E-20
PA5191	<i>PA5191</i>	-4.78576237	2.99E-36
PA5306	<i>PA5306</i>	-4.79102543	0.000513
PA2329	<i>PA2329</i>	-4.799753	6.65E-88
PA2985	<i>PA2985</i>	-4.80155686	8.73E-83
PA5180	<i>PA5180</i>	-4.82057284	9.91E-72
PA4117	<i>bphP</i>	-4.84268881	5.6E-122
PA4207	<i>mexI</i>	-4.85126152	8.64E-12
PA4336	<i>PA4336</i>	-4.8654287	5.09E-41
PA4733	<i>acsB</i>	-4.86878988	3.11E-26
PA0270	<i>PA0270</i>	-4.87117247	6.68E-14
PA1118	<i>PA1118</i>	-4.90407603	1.67E-65
PA3041	<i>PA3041</i>	-4.92337243	2E-87
PA3929	<i>cioB</i>	-4.92400384	6.5E-109
PA3307	<i>PA3307</i>	-4.93533913	5.2E-70
PA2799	<i>PA2799</i>	-4.94428281	2.52E-44
PA2938	<i>PA2938</i>	-4.98099612	3.98E-05
PA4365	<i>PA4365</i>	-5.01793506	4.51E-19
PA3852	<i>PA3852</i>	-5.05325783	4.2E-129
PA3534	<i>PA3534</i>	-5.06006833	1.39E-08
PA0840	<i>PA0840</i>	-5.06217399	3.03E-59
PA1774	<i>crfX</i>	-5.08079154	1.2E-114
PA1761	<i>PA1761</i>	-5.08703125	1.28E-59

PA1167	<i>PA1167</i>	-5.14783146	2.27E-39
PA0459	<i>PA0459</i>	-5.1484268	4.77E-91
PA4993	<i>PA4993</i>	-5.18481744	2.04E-88
PA3858	<i>PA3858</i>	-5.19086085	9.36E-86
PA3795	<i>PA3795</i>	-5.19695575	5.7E-117
PA2306	<i>ambA</i>	-5.20602843	1.03E-92
PA4714	<i>PA4714</i>	-5.20639362	1.8E-179
PA2679	<i>PA2679</i>	-5.22390226	4.96E-28
PA2504	<i>PA2504</i>	-5.22891033	1.49E-35
PA3427	<i>PA3427</i>	-5.24651087	9.54E-35
PA3180	<i>PA3180</i>	-5.31779587	4.9E-101
PA4830	<i>PA4830</i>	-5.33190585	3.19E-57
PA0951a	<i>PA0951a</i>	-5.33265428	3.2E-126
PA0795	<i>prpC</i>	-5.33781602	8.9E-124
PA3253	<i>PA3253</i>	-5.33800114	2.22E-10
PA3094	<i>PA3094</i>	-5.3488219	8.1E-143
PA5182	<i>PA5182</i>	-5.38518335	3.5E-100
PA2887	<i>atuB</i>	-5.39908859	2.69E-06
PA3252	<i>PA3252</i>	-5.39923538	2.22E-10
PA4325	<i>PA4325</i>	-5.42670469	8.3E-135
PA2791	<i>PA2791</i>	-5.44183756	7.74E-16
PA3833	<i>PA3833</i>	-5.47719778	5.96E-84
PA2328	<i>PA2328</i>	-5.47732481	1.49E-85
PA3188	<i>PA3188</i>	-5.53032533	2.11E-09
PA2374	<i>PA2374</i>	-5.53364097	3.78E-11
PA1190	<i>PA1190</i>	-5.53399544	9.28E-42
PA1149	<i>PA1149</i>	-5.5469989	2.65E-05
PA2111	<i>PA2111</i>	-5.55429854	9.14E-09
PA1762	<i>PA1762</i>	-5.55566174	1.79E-14
PA3099	<i>xcpV</i>	-5.55713615	1.23E-36
PA3963a	<i>PA3963a</i>	-5.55762577	5.21E-05
PA5297	<i>poxB</i>	-5.5748815	2.93E-40
PA1112	<i>PA1112</i>	-5.6070434	3.1E-117
PA2415	<i>PA2415</i>	-5.66546091	4.86E-10
PA4312	<i>PA4312</i>	-5.67597535	5.9E-103
PA2816	<i>PA2816</i>	-5.69295969	9.92E-68
PA5546	<i>PA5546</i>	-5.69697982	2E-186
PA5061	<i>PA5061</i>	-5.70009284	2.1E-187
PA0558	<i>PA0558</i>	-5.70098766	9.5E-102
PA2330	<i>PA2330</i>	-5.7064636	5.1E-108
PA3372	<i>PA3372</i>	-5.72129091	3.73E-60
PA2779	<i>PA2779</i>	-5.72151411	7.77E-54
PA4828	<i>PA4828</i>	-5.72781975	2.63E-20

PA3273	<i>PA3273</i>	-5.73503304	8.37E-10
PA0180	<i>cttP</i>	-5.75874064	4.87E-80
PA0173	<i>PA0173</i>	-5.78638969	0.000401
PA0676	<i>vreR</i>	-5.79702374	2.52E-42
PA3568	<i>PA3568</i>	-5.88730761	1.55E-16
PA1575	<i>PA1575</i>	-5.88742864	2.58E-76
PA1894	<i>PA1894</i>	-5.93616385	9.86E-06
PA1003	<i>mvfR</i>	-5.9372887	1.3E-139
PA4829	<i>lpd3</i>	-5.94781736	9.94E-22
PA4289	<i>PA4289</i>	-5.95839158	2.67E-30
PA4915	<i>PA4915</i>	-5.9649764	3.72E-44
PA0690	<i>PA0690</i>	-5.97874217	1.77E-20
PA0039	<i>PA0039</i>	-5.98218376	3.5E-199
PA5098	<i>hutH</i>	-6.05923596	5.64E-08
PA1111	<i>PA1111</i>	-6.08213194	4.29E-05
PA4786	<i>PA4786</i>	-6.10255313	2.28E-30
PA5437	<i>PA5437</i>	-6.11200301	2.2E-157
PA4112	<i>PA4112</i>	-6.12079428	4.04E-43
PA3570	<i>mmsA</i>	-6.15067	1.48E-77
PA3920	<i>PA3920</i>	-6.18311997	4.29E-27
PA4497	<i>PA4497</i>	-6.19037782	5.76E-72
PA1048	<i>PA1048</i>	-6.19645931	3.7E-175
PA1989	<i>pqqE</i>	-6.21044132	1.32E-18
PA5545	<i>PA5545</i>	-6.22896856	1.04E-97
PA0743	<i>PA0743</i>	-6.22925357	1.69E-30
PA2345	<i>PA2345</i>	-6.23010709	2.97E-74
PA2277	<i>arsR</i>	-6.23775508	4.81E-28
PA3928	<i>PA3928</i>	-6.27277224	2.2E-134
PA4624	<i>PA4624</i>	-6.28624761	1.04E-19
PA1471	<i>PA1471</i>	-6.34340326	6.9E-130
PA2338	<i>PA2338</i>	-6.35071763	4.25E-07
PA2550	<i>PA2550</i>	-6.35299305	2.54E-26
PA0050	<i>PA0050</i>	-6.35705443	1.7E-110
PA4785	<i>PA4785</i>	-6.36488672	1.39E-25
PA0788a	<i>PA0788a</i>	-6.36762756	6.14E-42
PA0306a	<i>PA0306a</i>	-6.37030868	5.95E-36
PA0143	<i>nuh</i>	-6.38210691	1E-144
PA2580	<i>PA2580</i>	-6.42923736	1.11E-20
PA1107	<i>PA1107</i>	-6.47859077	1.81E-18
PA2475	<i>PA2475</i>	-6.50163763	2.23E-29
PA3346	<i>PA3346</i>	-6.51756123	2.1E-129
PA2490	<i>PA2490</i>	-6.54046033	1.62E-22
PA3930	<i>cioA</i>	-6.54651106	8.5E-146

PA0797	<i>PA0797</i>	-6.55660627	4.64E-81
PA0742	<i>PA0742</i>	-6.62580455	1.3E-16
PA0847	<i>PA0847</i>	-6.63189318	3.14E-17
PA0035	<i>trpA</i>	-6.63887394	1.1E-113
PA1990	<i>pqqH</i>	-6.64487912	7.84E-08
PA2771	<i>PA2771</i>	-6.65712679	1.52E-93
PA2593	<i>qteE</i>	-6.66010176	7.93E-19
PA5227.1	<i>ssrS</i>	-6.66235688	5.7E-227
PA0806	<i>PA0806</i>	-6.72014009	1.38E-05
PA3101	<i>xcpT</i>	-6.73243729	4.31E-31
PA2790	<i>PA2790</i>	-6.73578539	6.6E-104
PA5395	<i>PA5395</i>	-6.76694464	1.61E-14
PA2339	<i>PA2339</i>	-6.78993253	0.000105
PA4654	<i>PA4654</i>	-6.83693312	0.000806
PA5424	<i>PA5424</i>	-6.83863302	4.8E-177
PA1348	<i>PA1348</i>	-6.87092618	2.55E-09
PA1643a	<i>PA1643a</i>	-6.87648946	7.2E-102
PA0701	<i>PA0701</i>	-6.8803249	4.45E-08
PA1650	<i>PA1650</i>	-6.9060892	1.15E-41
PA4496	<i>PA4496</i>	-6.91799175	3.6E-135
PA4338	<i>PA4338</i>	-6.91981907	1.6E-27
PA0983	<i>PA0983</i>	-6.92937396	2.48E-36
PA2379	<i>PA2379</i>	-6.94069289	7.79E-79
PA2360	<i>PA2360</i>	-6.95539907	5.76E-18
PA4608	<i>PA4608</i>	-6.98558978	6.3E-165
PA4874	<i>PA4874</i>	-6.98714365	2.5E-160
PA2560	<i>PA2560</i>	-6.99582954	8.6E-134
PA3462	<i>PA3462</i>	-7.01059806	1.1E-10
PA3040	<i>PA3040</i>	-7.08535752	6.1E-165
PA1988	<i>pqqD</i>	-7.1097789	7.34E-25
PA0007	<i>PA0007</i>	-7.13457323	1.05E-49
PA1287	<i>PA1287</i>	-7.17249151	8.1E-162
PA4650	<i>PA4650</i>	-7.18448341	7.16E-29
PA0256	<i>PA0256</i>	-7.18465107	3.5E-52
PA2177	<i>PA2177</i>	-7.18674962	2.42E-19
PA1333	<i>PA1333</i>	-7.18788306	3.35E-19
PA3023	<i>PA3023</i>	-7.20898817	1.83E-59
PA3042	<i>PA3042</i>	-7.23026493	5.9E-109
PA1648	<i>PA1648</i>	-7.23344795	2.95E-24
PA5181.1	<i>PA5181.1</i>	-7.25827509	5.59E-53
PA5181	<i>PA5181</i>	-7.2679939	1.73E-82
PA0656	<i>PA0656</i>	-7.31280325	9.3E-139
PA2562	<i>PA2562</i>	-7.3156872	1.2E-145

PA3216	<i>PA3216</i>	-7.31682227	7.63E-20
PA3311	<i>PA3311</i>	-7.33307372	7.4E-26
PA2364	<i>PA2364</i>	-7.34131057	1.3E-27
PA0179	<i>PA0179</i>	-7.37461341	1.6E-136
PA0286	<i>desA</i>	-7.43518067	2.3E-63
PA2361	<i>PA2361</i>	-7.43575515	1.16E-13
PA2553	<i>PA2553</i>	-7.44596499	2.08E-80
PA2618	<i>PA2618</i>	-7.4600081	1.6E-114
PA4300	<i>tadC</i>	-7.47622387	8.77E-17
PA0803	<i>PA0803</i>	-7.51898991	3.36E-97
PA0213	<i>PA0213</i>	-7.52739318	9.5E-15
PA0796	<i>prpB</i>	-7.52918825	1.3E-146
PA3472	<i>PA3472</i>	-7.52946722	2.7E-142
PA0216	<i>PA0216</i>	-7.5347629	1.89E-12
PA1731	<i>PA1731</i>	-7.59724655	3.14E-55
PA2807	<i>PA2807</i>	-7.60067016	7.86E-05
PA5271	<i>PA5271</i>	-7.60750892	6.5E-120
PA2920	<i>PA2920</i>	-7.62150129	2.3E-112
PA2414	<i>PA2414</i>	-7.65843919	1.24E-37
PA1878	<i>PA1878</i>	-7.6771429	8.4E-101
PA1882	<i>PA1882</i>	-7.68806415	2.43E-11
PA4351	<i>PA4351</i>	-7.69315376	1.12E-89
PA4293	<i>pprA</i>	-7.78407816	6.7E-19
PA0329	<i>PA0329</i>	-7.7853917	3E-185
PA3121	<i>leuC</i>	-7.79650592	1.6E-158
PA5099	<i>PA5099</i>	-7.80635747	1.41E-10
PA4212	<i>phzC1</i>	-7.80981468	7.29E-36
PA1963	<i>PA1963</i>	-7.86416575	1.16E-25
PA3540	<i>algD</i>	-7.8707083	1.7E-128
PA2869	<i>PA2869</i>	-7.88376769	1.18E-36
PA4127	<i>hpcG</i>	-7.89104225	4.28E-08
PA0798	<i>pmtA</i>	-7.89711123	1.01E-45
PA0918	<i>PA0918</i>	-7.90389385	3.41E-73
PA2302	<i>ambE</i>	-7.95650915	7.7E-62
PA4301	<i>tadB</i>	-8.0857842	4.58E-14
PA0208	<i>mdcA</i>	-8.12566064	2.01E-29
PA3009	<i>PA3009</i>	-8.12671105	6E-122
PA1258	<i>PA1258</i>	-8.2773451	1.82E-06
PA2746a	<i>PA2746a</i>	-8.28003205	5.4E-111
PA1873	<i>PA1873</i>	-8.32407718	2.18E-20
PA2919	<i>PA2919</i>	-8.33300477	2.92E-21
PA0215	<i>PA0215</i>	-8.34473633	1.35E-34
PA2862	<i>lipA</i>	-8.38604734	2.47E-19

PA4084	<i>cupB3</i>	-8.49541491	5.36E-05
PA2340	<i>PA2340</i>	-8.54506505	2.7E-12
PA2815	<i>PA2815</i>	-8.59280065	5.3E-129
PA2569	<i>PA2569</i>	-8.62879786	6.92E-43
PA2701	<i>PA2701</i>	-8.63589104	8.66E-09
PA4888	<i>desB</i>	-8.63693826	4.04E-09
PA3629	<i>adhC</i>	-8.73432735	7.4E-154
PA0288	<i>gpuA</i>	-8.79108147	2.7E-12
PA4653	<i>PA4653</i>	-8.80689338	3.63E-29
PA3289	<i>PA3289</i>	-8.81303837	4.07E-98
PA4500	<i>PA4500</i>	-8.81800598	9.2E-150
PA4015	<i>PA4015</i>	-8.84877004	2.9E-178
PA0028	<i>PA0028</i>	-8.85137688	1.1E-89
PA4132	<i>PA4132</i>	-8.85926858	2.4E-131
PA2506	<i>PA2506</i>	-8.88570154	0.000255
PA2070	<i>PA2070</i>	-8.91594906	1.23E-06
PA4682	<i>PA4682</i>	-8.9181512	1.11E-31
PA1166	<i>PA1166</i>	-8.95530163	2.1E-81
PA0484	<i>PA0484</i>	-8.99941972	2.5E-159
PA2024	<i>PA2024</i>	-9.02313523	1.04E-64
PA2604	<i>PA2604</i>	-9.03206941	0
PA3691	<i>PA3691</i>	-9.07728004	4.71E-48
PA5366	<i>pstB</i>	-9.13687797	5.7E-151
PA0451	<i>PA0451</i>	-9.14851703	1.8E-27
PA5101	<i>PA5101</i>	-9.22514771	3.2E-19
PA2416	<i>treA</i>	-9.30164387	7.09E-22
PA0826.2	<i>ssrA</i>	-9.31676448	0
PA5219	<i>PA5219</i>	-9.32999045	3.7E-59
PA0674	<i>vreA</i>	-9.33522668	9.84E-85
PA2331	<i>PA2331</i>	-9.39105966	1.8E-174
PA2175	<i>PA2175</i>	-9.4428462	3.24E-15
PA4208	<i>opmD</i>	-9.45472766	3.62E-26
PA2108	<i>PA2108</i>	-9.46209483	1.77E-15
PA4108a	<i>PA4108a</i>	-9.50165709	9.17E-11
PA2448	<i>PA2448</i>	-9.50340709	5.47E-37
PA3460	<i>PA3460</i>	-9.5320032	3.8E-126
PA4144	<i>PA4144</i>	-9.54086965	2.02E-07
PA0290	<i>PA0290</i>	-9.57151176	7.3E-103
PA1837a	<i>PA1837a</i>	-9.59827941	7.71E-88
PA2305	<i>ambB</i>	-9.59984555	1.79E-60
PA2563	<i>PA2563</i>	-9.67098261	7.01E-66
PA3038	<i>PA3038</i>	-9.67617782	3.36E-72
PA0274	<i>PA0274</i>	-9.68319346	4.07E-07

PA1987	<i>pqqC</i>	-9.69844648	3.44E-19
PA1562	<i>acnA</i>	-9.70278044	3.7E-160
PA0027	<i>PA0027</i>	-9.72150402	3.5E-123
PA1901	<i>phzC2</i>	-9.74049486	1.64E-45
PA2485	<i>PA2485</i>	-9.75260616	1.5E-50
PA3205	<i>PA3205</i>	-9.78954564	4.6E-160
PA0178	<i>PA0178</i>	-9.81718602	3.67E-70
PA2370	<i>PA2370</i>	-9.9079727	1.05E-27
PA0036	<i>trpB</i>	-9.91114005	1.3E-119
PA4778	<i>cueR</i>	-9.96399174	3.4E-116
PA0687	<i>PA0687</i>	-10.0796242	1.42E-09
PA2544	<i>PA2544</i>	-10.1207897	2.7E-159
PA2071	<i>fusA2</i>	-10.1304087	3E-144
PA0112	<i>PA0112</i>	-10.1550904	1.25E-10
PA3554	<i>arnA</i>	-10.214782	8.1E-70
PA0523	<i>norC</i>	-10.2376522	4.69E-17
PA3921	<i>PA3921</i>	-10.2380959	1.32E-84
PA3628	<i>PA3628</i>	-10.2468301	2.5E-133
PA3712	<i>PA3712</i>	-10.2763167	6.7E-149
PA1431	<i>rsaL</i>	-10.2772645	4.75E-67
PA2168	<i>PA2168</i>	-10.329473	7.54E-18
PA4652	<i>PA4652</i>	-10.3452452	5.61E-16
PA1254	<i>PA1254</i>	-10.346892	6.51E-23
PA2188	<i>PA2188</i>	-10.3882908	6.63E-15
PA2571	<i>PA2571</i>	-10.3933542	2.36E-72
PA2552	<i>PA2552</i>	-10.4284142	1.79E-77
PA0108	<i>collI</i>	-10.4460881	5.55E-88
PA3904	<i>PA3904</i>	-10.5176681	4.9E-129
PA3792	<i>leuA</i>	-10.5364868	0
PA2363	<i>PA2363</i>	-10.5943831	9.2E-54
PA5359	<i>PA5359</i>	-10.806456	3.3E-191
PA4022	<i>PA4022</i>	-10.8199862	2.31E-68
PA0673	<i>PA0673</i>	-10.8307507	1.3E-176
PA2721	<i>PA2721</i>	-10.8378287	2.62E-76
PA2065	<i>pcoA</i>	-10.8684606	5.84E-12
PA4607	<i>PA4607</i>	-10.958344	1.4E-184
PA5212	<i>PA5212</i>	-11.0741061	3.2E-171
PA3415	<i>PA3415</i>	-11.1079725	5.26E-41
PA0483	<i>PA0483</i>	-11.1883323	8.2E-118
PA1135	<i>PA1135</i>	-11.2220698	1.8E-112
PA3535	<i>PA3535</i>	-11.2450445	4.05E-50
PA4134	<i>PA4134</i>	-11.2828704	2.7E-139
PA1728	<i>PA1728</i>	-11.3620416	4.8E-164

PA3251	<i>PA3251</i>	-11.4004044	2.61E-17
PA3692	<i>lptF</i>	-11.4205517	1.22E-47
PA0585	<i>PA0585</i>	-11.5845575	2.08E-32
PA0866	<i>aroP2</i>	-11.5850649	1.49E-80
PA4788	<i>PA4788</i>	-11.6026387	2.47E-35
PA1732	<i>PA1732</i>	-11.6074936	7E-111
PA2156	<i>PA2156</i>	-11.6569285	4.14E-14
PA5365	<i>phoU</i>	-11.7848118	3.2E-139
PA2808	<i>ptrA</i>	-11.8124263	3.65E-25
PA2918	<i>PA2918</i>	-11.8522977	9.1E-125
PA2381	<i>PA2381</i>	-11.8638539	1.9E-136
PA0776	<i>PA0776</i>	-11.9837596	3.49E-39
PA0921	<i>PA0921</i>	-12.0184925	7.7E-121
PA1932	<i>PA1932</i>	-12.0477752	7.12E-33
PA0038	<i>PA0038</i>	-12.0740715	2.6E-180
PA2486	<i>PA2486</i>	-12.1051987	5.32E-42
PA4877	<i>PA4877</i>	-12.146174	6E-110
PA3733a	<i>PA3733a</i>	-12.1960644	6.7E-158
PA1730	<i>PA1730</i>	-12.2260329	5.17E-76
PA2573	<i>PA2573</i>	-12.236445	6.2E-153
PA2303	<i>ambD</i>	-12.2438238	1.82E-92
PA5057	<i>phaD</i>	-12.2700487	3E-121
PA3325	<i>PA3325</i>	-12.3023817	1.11E-52
PA2722	<i>PA2722</i>	-12.4142613	2.08E-50
PA1745	<i>PA1745</i>	-12.4620908	4.16E-85
PA5348	<i>PA5348</i>	-12.5545322	2.9E-230
PA4635a	<i>PA4635a</i>	-12.5711715	5.93E-34
PA0176	<i>aer2</i>	-12.6123797	2.2E-113
PA1860	<i>PA1860</i>	-12.6292913	1.41E-78
PA1252	<i>PA1252</i>	-12.634626	2.17E-56
PA1931	<i>PA1931</i>	-12.6544402	4.37E-59
PA5368	<i>pstC</i>	-12.7049381	1.6E-122
PA0841	<i>PA0841</i>	-12.7105565	5.21E-93
PA3477	<i>rhIR</i>	-12.7215296	0
PA2419	<i>PA2419</i>	-12.7306659	4.71E-64
PA2176	<i>PA2176</i>	-12.8813195	3.62E-22
PA3362	<i>PA3362</i>	-12.9567828	1.2E-106
PA2304	<i>ambC</i>	-13.0023776	2.43E-93
PA2750a	<i>PA2750a</i>	-13.0695746	1.7E-162
PA4214	<i>phzE1</i>	-13.0979427	5.55E-42
PA1733	<i>PA1733</i>	-13.2397625	3.6E-123
PA1255	<i>PA1255</i>	-13.2571455	2.05E-21
PA4303	<i>tadZ</i>	-13.2891524	1.01E-25

PA2554	<i>PA2554</i>	-13.3692523	2.05E-52
PA0355	<i>pfpl</i>	-13.4086854	2.8E-122
PA3417	<i>PA3417</i>	-13.4579711	2.66E-40
PA4781	<i>PA4781</i>	-13.6755632	1.79E-75
PA4171	<i>PA4171</i>	-13.6908949	3.5E-118
PA1986	<i>pqqB</i>	-13.7340081	2.15E-60
PA3461	<i>PA3461</i>	-13.8289746	1.6E-107
PA2574	<i>alkB1</i>	-13.8600439	3.38E-18
PA4305	<i>rcpC</i>	-13.8799262	1.97E-81
PA2423	<i>PA2423</i>	-13.9685861	2.5E-139
PA0211	<i>mdcD</i>	-14.0592582	4.32E-72
PA0212	<i>mdcE</i>	-14.062925	2.97E-61
PA1172	<i>napC</i>	-14.1927461	1.3E-129
PA3374	<i>PA3374</i>	-14.2664706	7.6E-140
PA1881	<i>PA1881</i>	-14.2778255	3.5E-111
PA5367	<i>pstA</i>	-14.3607485	7.8E-160
PA2587	<i>pqsH</i>	-14.3927422	3.3E-157
PA3347	<i>PA3347</i>	-14.4185759	6.4E-236
PA3585	<i>glpM</i>	-14.4531637	3.6E-134
PA0685	<i>PA0685</i>	-14.4603329	3.23E-34
PA4573	<i>PA4573</i>	-14.521291	2.8E-139
PA1351	<i>PA1351</i>	-14.6141505	2.99E-15
PA2017	<i>PA2017</i>	-14.6436179	1.5E-110
PA2591	<i>PA2591</i>	-14.6453388	8.9E-109
PA3368	<i>PA3368</i>	-14.6983192	1.44E-67
PA2341	<i>PA2341</i>	-14.7876498	6.59E-17
PA0567	<i>PA0567</i>	-14.7951887	9.6E-118
PA1256	<i>PA1256</i>	-14.8051988	2.98E-26
PA2622	<i>cspD</i>	-14.8734118	2.8E-236
PA2145	<i>PA2145</i>	-14.9363743	1.27E-22
PA0026	<i>plcB</i>	-14.9834194	9.8E-163
PA2747	<i>PA2747</i>	-14.985193	5.62E-36
PA2072	<i>PA2072</i>	-14.9916028	1.01E-34
PA4304	<i>rcpA</i>	-15.0462089	3.48E-42
PA4172	<i>PA4172</i>	-15.1768274	9.8E-33
PA2179	<i>PA2179</i>	-15.2886764	1.08E-25
PA2592	<i>PA2592</i>	-15.5036673	4.2E-158
PA5178	<i>PA5178</i>	-15.5300013	0
PA4625	<i>PA4625</i>	-15.6572623	7.6E-80
PA4726.11	<i>crcZ</i>	-15.6606857	0
PA0175	<i>PA0175</i>	-15.7219559	1.88E-38
PA4702	<i>PA4702</i>	-15.7804428	4.7E-145
PA4311	<i>PA4311</i>	-15.9043343	3.9E-107

PA0174	<i>PA0174</i>	-15.9489108	1E-10
PA1041	<i>PA1041</i>	-15.9500478	4.6E-167
PA5220	<i>PA5220</i>	-16.0945382	3.6E-165
PA2162	<i>PA2162</i>	-16.1459484	2.71E-52
PA0587	<i>PA0587</i>	-16.1964815	2.1E-146
PA4590	<i>pra</i>	-16.2831212	4.31E-83
PA4143	<i>PA4143</i>	-16.2966275	1.58E-20
PA2144	<i>glgP</i>	-16.3378362	1.8E-100
PA4880	<i>PA4880</i>	-16.4969696	1.1E-131
PA0696	<i>PA0696</i>	-16.5991508	1.33E-31
PA2572	<i>PA2572</i>	-16.6269832	5E-110
PA0586	<i>PA0586</i>	-16.6409357	6.8E-132
PA2250	<i>lpdV</i>	-16.6755698	2.1E-126
PA1905	<i>phzG2</i>	-16.7153536	7.44E-91
PA1880	<i>PA1880</i>	-16.8301022	2.9E-123
PA4876	<i>osmE</i>	-16.9421136	2.4E-213
PA0675	<i>vrel</i>	-16.9650968	5.64E-50
PA1356	<i>PA1356</i>	-16.990994	5.94E-40
PA0698	<i>PA0698</i>	-17.0500326	5.29E-41
PA2371	<i>PA2371</i>	-17.3217254	5.29E-52
PA2699	<i>PA2699</i>	-17.334406	1.18E-27
PA1323	<i>PA1323</i>	-17.3516632	9.9E-176
PA0981	<i>PA0981</i>	-17.3820443	4.1E-120
PA2362	<i>PA2362</i>	-17.3939694	2.1E-13
PA1354	<i>PA1354</i>	-17.443464	2.9E-70
PA2109	<i>PA2109</i>	-17.4943844	1.42E-18
PA2185	<i>katN</i>	-17.5037151	3.17E-67
PA1898	<i>qscR</i>	-17.5062669	2.54E-37
PA1259	<i>PA1259</i>	-17.5719614	8.57E-39
PA3326	<i>PA3326</i>	-17.7069854	0
PA4925	<i>PA4925</i>	-17.7084149	5.95E-91
PA5059	<i>PA5059</i>	-17.7101016	3.4E-121
PA0684	<i>PA0684</i>	-17.9943221	8.97E-23
PA3416	<i>PA3416</i>	-18.0139902	6.73E-52
PA1176	<i>napF</i>	-18.0888952	4.36E-70
PA3623	<i>PA3623</i>	-18.212054	4.8E-295
PA2048	<i>PA2048</i>	-18.2351931	5.7E-105
PA4142	<i>PA4142</i>	-18.2487205	3.71E-73
PA0677	<i>PA0677</i>	-18.4813492	1.78E-87
PA0865	<i>hpd</i>	-18.5099094	1.6E-141
PA3369	<i>PA3369</i>	-18.7566228	7.2E-156
PA3688	<i>PA3688</i>	-18.8400553	1.7E-168
PA2107	<i>PA2107</i>	-18.8859974	3.62E-10

PA3049	<i>rmf</i>	-18.933321	0
PA0588	<i>PA0588</i>	-19.0312298	1.53E-68
PA4215	<i>phzF1</i>	-19.1521057	2.07E-46
PA1903	<i>phzE2</i>	-19.1598249	8.46E-48
PA0681	<i>PA0681</i>	-19.2411436	9.61E-73
PA0103	<i>PA0103</i>	-19.2930087	1.6E-132
PA3363	<i>amiR</i>	-19.3727672	6.2E-141
PA1904	<i>phzF2</i>	-19.4380781	1.38E-51
PA0105	<i>coxB</i>	-19.444576	6.7E-133
PA4913	<i>PA4913</i>	-19.4552893	1.88E-72
PA0110	<i>PA0110</i>	-19.4878463	6.25E-22
PA0109	<i>PA0109</i>	-19.4920091	7.2E-111
PA1899	<i>phzA2</i>	-19.5365415	2.74E-35
PA4294	<i>PA4294</i>	-19.6394019	5.57E-81
PA0102	<i>PA0102</i>	-19.6488115	0
PA2636	<i>PA2636</i>	-19.9084082	1.2E-38
PA2247	<i>bkdA1</i>	-20.2916817	1.6E-143
PA0683	<i>PA0683</i>	-20.4129288	6.5E-44
PA3274	<i>PA3274</i>	-20.578773	5.2E-143
PA2369	<i>PA2369</i>	-20.7181329	8.56E-65
PA2135	<i>PA2135</i>	-20.7520381	5.25E-11
PA1350	<i>PA1350</i>	-20.7862793	1.96E-58
PA0209	<i>PA0209</i>	-20.7936112	5.45E-21
PA3418	<i>ldh</i>	-21.0234751	3.6E-150
PA4297	<i>tadG</i>	-21.7523019	1.01E-86
PA4290	<i>PA4290</i>	-21.7886588	2.45E-63
PA4377	<i>PA4377</i>	-21.9284293	1.6E-190
PA0699	<i>PA0699</i>	-21.9403239	8.79E-31
PA0679	<i>PA0679</i>	-21.9694756	3.8E-106
PA2167	<i>PA2167</i>	-22.247947	6.77E-49
PA2248	<i>bkdA2</i>	-22.3645609	2.5E-122
PA2249	<i>bkdB</i>	-22.5656746	1.5E-110
PA2157	<i>PA2157</i>	-22.6009697	2.83E-41
PA2181	<i>PA2181</i>	-22.6666779	7.67E-22
PA3371	<i>PA3371</i>	-23.0115969	4.9E-194
PA3569	<i>mmsB</i>	-23.0614761	2.15E-79
PA0107	<i>PA0107</i>	-23.0911182	4.15E-62
PA4295	<i>fppA</i>	-23.2526031	1.84E-11
PA3364	<i>amiC</i>	-23.5235165	1.51E-88
PA1053	<i>PA1053</i>	-23.6970109	0
PA5100	<i>hutU</i>	-23.8809004	2E-119
PA4302	<i>tadA</i>	-24.0024601	4.49E-40
PA4296	<i>pprB</i>	-24.0135136	7.1E-170

PA2746	<i>PA2746</i>	-24.086409	1E-173
PA2588	<i>PA2588</i>	-24.1845013	2.5E-129
PA4649	<i>PA4649</i>	-24.3090248	1.19E-60
PA0177	<i>PA0177</i>	-24.723513	1.1E-79
PA2142	<i>PA2142</i>	-24.8034586	5.79E-46
PA1902	<i>phzD2</i>	-24.8073082	7.26E-64
PA5056	<i>phaC1</i>	-24.8901972	1.7E-145
PA0059	<i>osmC</i>	-25.0593529	3.4E-159
PA3234	<i>PA3234</i>	-25.1585727	3.4E-128
PA0692	<i>PA0692</i>	-25.2626294	5.21E-33
PA4299	<i>tadD</i>	-25.6786854	6.52E-29
PA1173	<i>napB</i>	-25.9985633	2.33E-77
PA0887	<i>acsA</i>	-26.0632234	2.2E-146
PA3734	<i>PA3734</i>	-26.4438848	4.6E-120
PA0106	<i>coxA</i>	-26.4631844	1.43E-92
PA0214	<i>PA0214</i>	-26.6865191	7.59E-30
PA3622	<i>rpoS</i>	-26.7863477	0
PA2139	<i>PA2139</i>	-26.8228417	1.05E-34
PA4128	<i>PA4128</i>	-26.8646157	1.54E-36
PA2138	<i>PA2138</i>	-27.0472455	5.29E-58
PA2022	<i>PA2022</i>	-27.0589835	5.3E-119
PA0347	<i>glpQ</i>	-27.0623997	1.9E-70
PA1130	<i>rhIC</i>	-27.4854415	6.4E-171
PA2418	<i>PA2418</i>	-27.517184	6.64E-44
PA3476	<i>rhII</i>	-27.8460691	3.4E-186
PA4078	<i>PA4078</i>	-27.8522836	1.79E-81
PA0680	<i>PA0680</i>	-28.3327616	5.86E-41
PA2160	<i>PA2160</i>	-28.974149	7.4E-152
PA0695	<i>PA0695</i>	-29.0393261	1E-32
PA2763a	<i>PA2763a</i>	-29.1734499	1.8E-99
PA3986	<i>PA3986</i>	-29.2494231	9.6E-155
PA0978	<i>PA0978</i>	-29.3896848	2E-117
PA3723	<i>PA3723</i>	-29.7410781	2.2E-169
PA2173a	<i>PA2173a</i>	-29.8294721	1.8E-120
PA3032	<i>snr1</i>	-29.8687377	7.15E-92
PA5481	<i>PA5481</i>	-29.8897119	3.4E-191
PA4131	<i>PA4131</i>	-29.9355487	1.3E-153
PA2192	<i>PA2192</i>	-30.1041251	8.13E-22
PA2152	<i>PA2152</i>	-30.707606	1.57E-83
PA2190	<i>PA2190</i>	-30.8671131	7.1E-194
PA0691	<i>PA0691</i>	-30.8717647	1.95E-32
PA1870	<i>PA1870</i>	-31.3410611	3.9E-104
PA2187	<i>PA2187</i>	-31.4589572	8E-39

PA2565	<i>PA2565</i>	-31.6309138	1.64E-89
PA1175	<i>napD</i>	-32.4638659	1.1E-125
PA2564	<i>PA2564</i>	-32.6890862	2.4E-205
PA1930	<i>PA1930</i>	-33.2320423	1.5E-102
PA3370	<i>PA3370</i>	-33.4437209	8.85E-63
PA1606	<i>PA1606</i>	-33.6633883	2.2E-152
PA2375	<i>PA2375</i>	-33.7410652	4.06E-95
PA2112	<i>PA2112</i>	-34.6501333	1.12E-07
PA1324	<i>PA1324</i>	-34.790315	1.3E-259
PA1869	<i>PA1869</i>	-35.3842207	7.1E-206
PA0686	<i>PA0686</i>	-35.6496455	5.06E-36
PA1180	<i>phoQ</i>	-35.9455442	1.3E-175
PA3519	<i>PA3519</i>	-37.1221101	2.33E-16
PA2880	<i>PA2880</i>	-37.2350436	3.1E-130
PA0852	<i>cbpD</i>	-37.303509	0
PA2153	<i>glgB</i>	-37.4472328	5.43E-79
PA2164	<i>PA2164</i>	-38.1501311	8.9E-104
PA2137	<i>PA2137</i>	-38.481675	6.02E-70
PA1344	<i>PA1344</i>	-38.5038716	1.4E-214
PA2178	<i>PA2178</i>	-38.8655341	2.34E-38
PA2165	<i>PA2165</i>	-39.2057588	2.6E-133
PA5058	<i>phaC2</i>	-39.3118334	1.3E-148
PA1404	<i>PA1404</i>	-39.6732444	5.9E-144
PA3924	<i>PA3924</i>	-39.9894817	3.2E-113
PA2882	<i>PA2882</i>	-40.0601282	4.3E-125
PA0730	<i>PA0730</i>	-40.151262	3E-226
PA5482	<i>PA5482</i>	-40.4463082	1.97E-14
PA4350	<i>PA4350</i>	-41.0595002	4.3E-306
PA3366	<i>amiE</i>	-41.4965995	2.98E-65
PA4209	<i>phzM</i>	-41.5791151	1.8E-163
PA0111	<i>PA0111</i>	-41.9751957	7.81E-32
PA0682	<i>PA0682</i>	-42.4936184	1.07E-38
PA2433	<i>PA2433</i>	-42.7536171	4.8E-213
PA1177	<i>napE</i>	-42.9173196	3.5E-124
PA2154	<i>PA2154</i>	-43.0474149	3.75E-24
PA3586	<i>PA3586</i>	-43.4237726	3E-138
PA4130	<i>PA4130</i>	-43.8943332	7.4E-112
PA0844	<i>plcH</i>	-44.3303444	5.65E-94
PA1784	<i>PA1784</i>	-44.4090911	2.9E-123
PA2367	<i>PA2367</i>	-45.2044556	6.8E-122
PA1327	<i>PA1327</i>	-45.387794	1E-193
PA2155	<i>PA2155</i>	-45.438941	1.34E-28
PA0843	<i>plcR</i>	-45.5669513	1.4E-139

PA1914	<i>PA1914</i>	-47.1491713	3.04E-96
PA3553	<i>arnC</i>	-47.4112859	8.1E-182
PA2173	<i>PA2173</i>	-47.6364385	5.7E-131
PA5369	<i>pstS</i>	-47.9848386	0
PA2589	<i>PA2589</i>	-48.4113275	9.87E-47
PA0688	<i>PA0688</i>	-49.1220283	2.2E-197
PA2158	<i>PA2158</i>	-49.7796336	1.2E-80
PA0740	<i>sdsA1</i>	-49.8569551	2.2E-119
PA4133	<i>PA4133</i>	-50.1455121	3.1E-155
PA0188	<i>PA0188</i>	-50.880821	1.13E-69
PA1876	<i>PA1876</i>	-51.3318484	4.5E-140
PA2066	<i>PA2066</i>	-51.6874152	1.7E-127
PA2366	<i>PA2366</i>	-52.2226147	1.7E-155
PA2030	<i>PA2030</i>	-52.2853764	7.5E-186
PA1174	<i>napA</i>	-52.5699512	1.6E-106
PA3250	<i>PA3250</i>	-52.6729066	3E-150
PA2151	<i>PA2151</i>	-52.8127554	6.1E-116
PA0842	<i>PA0842</i>	-52.8469284	4.1E-120
PA3375	<i>PA3375</i>	-52.8811372	2.22E-84
PA4703	<i>PA4703</i>	-54.2486353	2E-117
PA2150	<i>PA2150</i>	-54.8183664	9.89E-61
PA0697	<i>PA0697</i>	-55.351953	2.51E-47
PA3231	<i>PA3231</i>	-56.014864	5.2E-103
PA4213	<i>phzD1</i>	-56.0463037	1.38E-67
PA3235	<i>PA3235</i>	-56.6053945	6.4E-200
PA4651	<i>PA4651</i>	-56.6060098	7.3E-114
PA4739	<i>PA4739</i>	-56.9056109	0
PA1900	<i>phzB2</i>	-56.9809444	4.7E-127
PA3377	<i>PA3377</i>	-57.0583958	1.9E-141
PA0210	<i>mdcC</i>	-58.4370082	4.55E-44
PA2163	<i>PA2163</i>	-59.6136875	3.6E-62
PA3451	<i>PA3451</i>	-59.8637367	5.6E-182
PA2803	<i>PA2803</i>	-60.3225468	4.6E-117
PA1871	<i>lasA</i>	-61.2806563	1.4E-220
PA2696	<i>PA2696</i>	-61.3306899	8.6E-112
PA2937	<i>PA2937</i>	-61.6413619	3.2E-133
PA1875	<i>PA1875</i>	-62.0698499	1.5E-168
PA2717	<i>cpo</i>	-62.8892151	8.9E-167
PA2881	<i>PA2881</i>	-64.2268583	4E-159
PA3384	<i>phnC</i>	-64.686766	1.4E-112
PA4141	<i>PA4141</i>	-64.82751	0
PA2172	<i>PA2172</i>	-65.2111507	5.2E-134
PA2428	<i>PA2428</i>	-65.8301087	7.7E-148

PA2182	<i>PA2182</i>	-66.3216189	3.53E-77
PA0693	<i>exbB2</i>	-67.318961	2.87E-42
PA3365	<i>PA3365</i>	-67.7834537	7.2E-131
PA2365	<i>PA2365</i>	-68.7371383	2.3E-157
PA2148	<i>PA2148</i>	-69.7054898	2.17E-52
PA3923	<i>PA3923</i>	-69.7761702	9.5E-182
PA0051	<i>phzH</i>	-71.1812334	2.6E-176
PA1179	<i>phoP</i>	-71.9870493	0
PA1349	<i>PA1349</i>	-72.373771	1.04E-49
PA1353	<i>PA1353</i>	-72.6642204	7.5E-140
PA4129	<i>PA4129</i>	-72.9614707	2.8E-130
PA0122	<i>PA0122</i>	-73.7455422	0
PA5440a	<i>PA5440a</i>	-73.914279	0
PA2184	<i>PA2184</i>	-74.5303975	1.7E-149
PA2804	<i>PA2804</i>	-75.1577208	1.9E-194
PA2566	<i>PA2566</i>	-75.3125662	2.6E-181
PA3378	<i>PA3378</i>	-77.3946661	7.9E-161
PA3296	<i>phoA</i>	-80.3374925	2.3E-174
PA1874	<i>PA1874</i>	-80.9894933	5.3E-235
PA3376	<i>PA3376</i>	-88.3015717	1.2E-114
PA4738	<i>PA4738</i>	-88.8019403	1.8E-210
PA3382	<i>phnE</i>	-89.6099322	5.6E-173
PA0052	<i>PA0052</i>	-91.2248618	3E-165
PA3922	<i>PA3922</i>	-92.4233749	6.5E-73
PA1877	<i>PA1877</i>	-96.8617272	5.9E-118
PA2368	<i>PA2368</i>	-97.2321239	2.56E-37
PA2159	<i>PA2159</i>	-100.10995	6E-144
PA3381	<i>PA3381</i>	-101.437707	2.3E-122
PA3380	<i>PA3380</i>	-101.762421	4.4E-157
PA2174	<i>PA2174</i>	-102.053478	1.7E-212
PA4211	<i>phzB1</i>	-107.969811	1.9E-111
PA2300	<i>chiC</i>	-109.430884	1.2E-225
PA3478	<i>rhlB</i>	-110.288241	0
PA2147	<i>katE</i>	-110.68223	1.1E-147
PA5460	<i>PA5460</i>	-116.384764	9.7E-227
PA2939	<i>PA2939</i>	-120.000803	0
PA2166	<i>PA2166</i>	-120.695742	0
PA3319	<i>plcN</i>	-124.635885	4.4E-216
PA1131	<i>PA1131</i>	-127.938569	2E-113
PA0678	<i>PA0678</i>	-129.410347	2.86E-73
PA2067	<i>PA2067</i>	-133.53102	2.4E-175
PA2027	<i>PA2027</i>	-134.134205	0
PA3361	<i>lecB</i>	-136.085973	1.33E-81

PA0187	<i>PA0187</i>	-141.73338	6.7E-120
PA2134	<i>PA2134</i>	-144.547219	5.5E-172
PA3520	<i>PA3520</i>	-146.627754	4.5E-271
PA4648	<i>PA4648</i>	-146.735832	1.5E-167
PA3552	<i>arnB</i>	-147.440079	0
PA1571	<i>PA1571</i>	-151.107834	0
PA3724	<i>lasB</i>	-154.297024	0
PA2031	<i>PA2031</i>	-163.224616	4.1E-127
PA3280	<i>oprO</i>	-163.967998	0
PA2635	<i>PA2635</i>	-165.754942	1.5E-291
PA2068	<i>PA2068</i>	-170.057393	4.2E-185
PA0979	<i>PA0979</i>	-177.993265	1.7E-184
PA1178	<i>oprH</i>	-178.614928	0
PA4306	<i>flp</i>	-183.668609	3.3E-280
PA1343	<i>PA1343</i>	-205.189047	2.1E-139
PA3219	<i>PA3219</i>	-206.537471	2.7E-172
PA3383	<i>PA3383</i>	-206.887194	3.03E-77
PA3910	<i>eddA</i>	-208.653961	3.47E-80
PA1260	<i>PA1260</i>	-220.212167	2.4E-169
PA2069	<i>PA2069</i>	-225.929314	1.2E-267
PA3909	<i>eddB</i>	-227.185866	0
PA2171	<i>PA2171</i>	-253.423828	3.7E-211
PA2146	<i>PA2146</i>	-257.92613	0
PA3479	<i>rhIA</i>	-258.133699	0
PA2143	<i>PA2143</i>	-277.058589	7.4E-118
PA2180	<i>PA2180</i>	-292.746255	3.69E-83
PA4637a	<i>PA4637a</i>	-345.842164	0
PA3379	<i>PA3379</i>	-400.722857	7.8E-154
PA2169	<i>PA2169</i>	-413.182363	1.1E-138
PA2570	<i>lecA</i>	-513.51683	0

Table S2: Changes in bacterial gene expression associated with outer membrane vesicle localization in response to infection measured by RNA-seq. Fold changes greater than 1 indicate that the gene was up-regulated in *P. aeruginosa* infected mice compared to non-infected mice. Fold changes inferior to -1 indicate that the gene was down-regulated in *P. aeruginosa* infected mice compared to non-infected mice. This table includes genes which products were predicted or experimentally shown to be associated with outer membrane vesicles.

Locus	Gene	Fold change	P-value
PA4489	PA4489	2.37	9.97E-10
PA4491	PA4491	1.78	0.000278
PA3821	secD	5.05	1.8E-159
PA5560	atpB	3.26	1.71E-96
PA0768	lepB	3.41	3.33E-36
PA5479	gltP	2.80	1.42E-32
PA3984	Int	2.79	6.99E-14
PA4997	msbA	1.79	2.13E-08
PA4700	mrcB	2.02	2.44E-07
PA5291	PA5291	1.64	0.000225
PA4461	PA4461	1.91	1.54E-14
PA5568	PA5568	6.37	3.5E-195
PA3641	PA3641	10.97	8.3E-175
PA1805	ppiD	5.16	3.8E-171
PA3729	PA3729	6.20	3.9E-124
PA2973	PA2973	3.50	5.7E-60
PA3147	wbpJ	3.52	6.69E-43
PA5558	atpF	8.34	1.07E-42
PA5232	PA5232	2.87	4.25E-42
PA3822	PA3822	2.40	2.31E-41
PA4292	PA4292	2.77	7.46E-32
PA4431	PA4431	2.27	6.9E-31
PA1584	sdhB	2.15	2.36E-30
PA4430	PA4430	2.14	1.37E-22
PA4003	pbpA	3.31	1.2E-21
PA5304	dadA	2.36	1.84E-18
PA5052	PA5052	2.58	9.32E-18
PA3875	narG	3.24	1.44E-15
PA1583	sdhA	1.80	2.71E-14
PA4957	psd	1.98	4.17E-13
PA3878	narX	2.66	4.08E-11
PA0074	ppkA	3.13	3.25E-10
PA2290	gcd	1.82	1.97E-09
PA1767	PA1767	1.80	4.85E-09
PA0077	tssM1	2.59	9.73E-09

PA0375	ftsX	1.85	2.87E-08
PA2983	PA2983	1.80	9.08E-08
PA0913	mgtE	1.93	2.73E-06
PA5065	ubiB	1.81	0.000143
PA3838	PA3838	2.25	0.000174
PA0080	tssJ1	2.07	0.00022
PA4385	groEL	9.38	9.66E-60
PA4266	fusA1	5.76	8.07E-37
PA0963	aspS	2.31	5E-27
PA3001	PA3001	1.94	3.74E-25
PA0411	pilJ	3.89	9.4E-135
PA5553	atpC	8.51	3.1E-212
PA1556	ccoO2	22.06	4.4E-206
PA5016	aceF	6.60	2E-174
PA0141	PA0141	8.11	1.3E-170
PA1596	htpG	10.35	1.9E-169
PA0782	putA	5.84	3.1E-116
PA5015	aceE	3.53	7.83E-95
PA4771	lldD	14.31	2.31E-91
PA2976	rne	4.95	4.4E-90
PA4568	rplU	3.51	1.78E-87
PA4267	rpsG	5.71	1.98E-80
PA2840	PA2840	3.81	8.62E-80
PA2741	rplT	3.53	1.01E-78
PA1585	sucA	3.20	1.11E-78
PA1800	tig	2.87	3.82E-77
PA3452	mqaA	3.41	4.2E-76
PA4262	rplD	12.85	4.73E-76
PA1586	sucB	3.36	8.91E-76
PA4251	rplE	10.61	1.18E-74
PA4432	rpsI	3.66	2.49E-72
PA0618	PA0618	6.69	7.28E-69
PA4274	rplK	3.49	6.99E-68
PA4269	rpoC	6.46	3.01E-67
PA4273	rplA	6.19	1.27E-65
PA4253	rplN	5.31	1.86E-64
PA1589	sucD	5.27	1.24E-62
PA3656	rpsB	7.96	3.87E-57
PA4257	rpsC	10.95	1.43E-55
PA5555	atpG	10.03	8.07E-53
PA4745	nusA	2.54	3.44E-51
PA4238	rpoA	7.46	2.64E-50
PA4240	rpsK	6.95	1.66E-49

PA4761	dnaK	10.94	1.76E-47
PA4239	rpsD	6.38	5.33E-47
PA5556	atpA	7.59	1.88E-46
PA5554	atpD	6.84	1.7E-44
PA4237	rplQ	6.33	1.95E-43
PA4671	PA4671	5.60	2.48E-39
PA1746	PA1746	3.06	1.57E-38
PA4670	prs	2.18	1.83E-34
PA3014	faoA	2.25	9.11E-34
PA3159	wbpA	2.28	6.46E-33
PA5128	secB	2.29	8.74E-31
PA4270	rpoB	4.91	1.24E-26
PA1553	ccoO1	2.25	1.64E-24
PA3150	wbpG	2.49	5.12E-22
PA5005	PA5005	2.12	1.22E-20
PA3309	PA3309	1.86	3.14E-20
PA4352	PA4352	2.16	2.38E-17
PA4582	PA4582	3.44	4.33E-16
PA0576	rpoD	1.73	7.39E-15
PA4481	mreB	1.83	1.09E-10
PA4756	carB	1.76	1.34E-09
PA1787	acnB	1.56	3.79E-07
PA4333	PA4333	1.67	5.17E-07
PA2999	nqrA	1.71	1.8E-06
PA2540	PA2540	2.54	7.3E-06
PA4941	hflC	1.45	0.00016
PA2994	nqrF	3.16	1.38E-35
PA0620	PA0620	3.59	1.7E-36
PA0985	pyoS5	5.21	9.19E-35
PA1150	pys2	2.08	7.12E-11
PA1080	flgE	1.83	3.06E-09
PA1086	flgK	2.08	1.66E-12
PA3262	PA3262	1.69	8.25E-12
PA3901	fecA	40.02	4.7E-164
PA0165	PA0165	17.14	3.5E-144
PA4675	PA4675	7.00	2.59E-58
PA1288	PA1288	2.91	2.28E-44
PA1271	PA1271	6.61	1.84E-23
PA3268	PA3268	7.00	1.26E-20
PA0162	opdC	5.98	1.93E-20
PA2462	PA2462	5.11	1.12E-15
PA3800	PA3800	3.83	7.9E-137
PA0625	PA0625	8.63	9.7E-108

PA3082	gbt	6.25	2.11E-58
PA1011	PA1011	2.37	2.28E-34
PA0641	PA0641	5.33	1.34E-28
PA2463	PA2463	14.42	8.6E-25
PA5441	PA5441	2.00	7.17E-10
PA4277	tufB	3.52	2.01E-97
PA3999	dacC	2.19	1.23E-22
PA0594	surA	4.03	1.2E-123
PA0972	tolB	1.98	1.76E-15
PA0636	PA0636	6.34	4.07E-82
PA2624	idh	3.38	3.71E-65
PA0955	PA0955	2.53	5.51E-20
PA5113	PA5113	3.56	1.47E-16
PA2642	nuoG	1.98	1.59E-13
PA3483	PA3483	1.78	6.49E-05
PA1555	ccoP2	18.86	3.1E-163
PA3801	PA3801	3.62	3E-124
PA0045	PA0045	59.74	1.1E-118
PA0622	PA0622	5.02	1.4E-115
PA3716	PA3716	4.30	1.2E-108
PA3115	fimV	3.33	1.38E-90
PA0633	PA0633	4.95	3.4E-89
PA1791	PA1791	13.53	1.84E-64
PA0277	PA0277	8.96	1.29E-58
PA4429	PA4429	2.83	3.53E-58
PA2952	etfB	4.52	1.57E-54
PA1552	ccoP1	3.02	1.32E-48
PA2453	PA2453	11.91	1.62E-40
PA0070	tagQ1	2.88	7.84E-39
PA0623	PA0623	4.49	4.95E-30
PA2997	nqrC	3.37	1.8E-23
PA4372	PA4372	2.57	1.91E-23
PA4480	mreC	3.57	3.37E-23
PA0126	PA0126	4.36	8.3E-23
PA5130	PA5130	2.16	3.72E-18
PA4390	PA4390	2.54	6.6E-16
PA5146	PA5146	2.11	2.24E-14
PA2264	PA2264	2.25	2.06E-10
PA5414	PA5414	2.12	4.08E-10
PA5136	PA5136	2.53	7.8E-07
PA1483	cycH	3.05	9.44E-24
PA3804	PA3804	1.85	2.4E-08
PA4614	mscL	-2.13	0

PA0114	senC	-2.71	7.75E-27
PA1180	phoQ	-35.95	1.3E-175
PA1775	cmpX	-1.63	4.45E-09
PA2815	PA2815	-8.59	5.3E-129
PA2830	htpX	-3.46	8.36E-90
PA3553	arnC	-47.41	8.1E-182
PA4455	PA4455	-1.60	9.21E-10
PA2623	icd	-2.61	0
PA5119	glnA	-2.07	0
PA0588	PA0588	-19.03	1.53E-68
PA2023	galU	-1.41	8.22E-08
PA3531	bfrB	-1.63	0
PA3554	arnA	-10.21	8.1E-70
PA3602	PA3602	-2.40	3.53E-27
PA4022	PA4022	-10.82	2.31E-68
PA4775	PA4775	-2.70	0.000337
PA4525	pilA	-1.39	1.77E-08
PA1053	PA1053	-23.70	0
PA3623	PA3623	-18.21	4.8E-295
PA4735	PA4735	-2.22	4.72E-25
PA2065	pcoA	-10.87	5.84E-12
PA3031	PA3031	-4.28	0
PA3040	PA3040	-7.09	6.1E-165
PA3691	PA3691	-9.08	4.71E-48
PA4495	PA4495	-3.13	2.11E-65
PA4773	PA4773	-2.80	5.2E-12
PA4876	osmE	-16.94	2.4E-213
PA5253	algP	-2.67	0

Table S3: Changes in murine gene expression in response to infection measured by RNA-seq. Fold changes greater than 1 indicate that the gene was up-regulated in *P. aeruginosa* infected mice compared to non-infected mice. Fold changes inferior to -1 indicate that the gene was down-regulated in *P. aeruginosa* infected mice compared to non-infected mice.

Gene	Fold change	p-value
Csf3	706.23	8.93E-104
Cxcl2	487.41	5.38E-159
Mt2	311.95	1.45E-203
Cxcl1	251.63	2.80E-118
Irg1	223.92	1.71E-44
Ngp	215.56	2.88E-126
Il6	195.34	7.34E-35
Cxcl3	180.12	6.70E-59
Cxcl10	128.13	1.19E-20
Saa3	108.39	7.40E-39
Adamts4	101.25	2.78E-14
Ccl3	100.25	1.79E-119
Ccl4	93.16	1.22E-33
Rsad2	90.82	2.13E-44
Ccl2	89.77	2.76E-28
Cxcl5	87.22	1.08E-21
Cxcl9	86.44	2.26E-11
Tnfaip3	85.2	1.05E-132
Mt1	73.22	2.38E-136
Ccl20	66.12	1.18E-15
Ptx3	65.64	9.86E-09
Ifitm6	65.59	4.32E-23
Gpr84	61.14	1.93E-08
Ccl7	56.16	1.33E-09
Cd14	55.26	2.16E-100
Il1f9	53.72	5.40E-14
Il1r2	53.37	2.51E-09
Slfn4	50.39	1.42E-14
Serpina3f	50.37	2.37E-20
Camp	48.42	1.76E-10
Gm29408	47.15	6.15E-30
Apol8	45.17	8.55E-06
Trem1	43.32	2.06E-13
Oasl1	42.25	1.45E-07
Lilrb4	42.13	2.28E-97
Gm17268	41.49	1.71E-05
S100a9	40.92	1.20E-158

Mx2	39.28	5.88E-12
Socs3	37.97	7.34E-97
Tnf	37.2	3.26E-23
Mmp8	34.28	2.86E-07
Il1rn	34.05	3.73E-15
Gm15287	34	6.61E-05
Retnlg	31.76	4.49E-76
Selp	31.47	6.61E-05
Ccrn4l	30.94	3.10E-20
Lcn2	30.85	7.39E-104
Tmem252	30.62	2.45E-30
Asprv1	30.58	6.53E-10
Gm26809	30.29	1.91E-174
Ifit1	30.28	1.12E-26
AA467197	29.87	5.14E-04
Nlrp3	29.35	8.64E-11
Clec4d	29.34	9.69E-09
Rnd1	28.7	1.82E-13
Gm12840	28.62	5.75E-111
S100a8	28.38	4.61E-134
Gm4951	28.28	2.51E-09
Mrgpra2a	28.07	2.59E-04
Gdf15	26.57	3.49E-13
Prss22	26.52	2.59E-04
Clec4e	26.43	3.33E-10
Gm13086	25.62	1.20E-10
Osm	25.04	1.01E-15
Csf2	24.98	4.44E-11
Gm16242	24.89	1.69E-05
Rab36	24.54	3.32E-10
Nfkbia	24.54	5.95E-101
Adam8	24.01	7.01E-15
Sele	23.9	1.11E-06
Stfa2l1	23.63	1.69E-05
Gm10872	23.21	3.37E-05
Zc3h12a	23.01	1.18E-23
Apold1	23	4.07E-17
Mx1	22.98	3.75E-08
Isg15	22.9	2.13E-21
Plaur	22.37	6.99E-26
Ch25h	21.9	1.37E-34
Irak3	21.72	2.86E-07
Ifit2	21.5	3.80E-18

Irgm1	21.32	3.86E-30
Inhbb	21.24	4.12E-24
E230013L22Rik	21.16	5.82E-09
Gm5483	21.08	5.14E-04
Cdkn1a	21.08	2.25E-30
Art3	20.89	1.31E-04
Gm26545	20.74	5.14E-04
Steap4	20.64	8.80E-12
Cd33	20.58	8.44E-20
Gpr31b	20.55	8.68E-06
Akap12	20.48	3.43E-32
Ptgs2	20.41	2.83E-23
Sphk1	20.05	1.50E-22
Smox	19.9	7.49E-08
Cd80	19.86	2.59E-04
Gm16685	19.81	1.31E-04
Socs1	19.4	4.47E-21
Iigp1	19.29	4.05E-31
Lif	19.26	2.19E-06
Gm13889	19.19	3.40E-138
Slfn1	19.01	8.84E-12
Fut2	18.88	6.61E-05
RP23-354D10.2	18.59	8.81E-40
Gbp5	18.58	1.42E-07
Sfn	18.45	1.08E-28
Il18rap	18.35	2.06E-08
Cldn4	18.31	3.02E-20
Ccl11	18.06	2.19E-06
Gm14023	17.97	1.31E-04
Slc39a14	17.85	9.78E-07
Ccl2	17.7	1.07E-104
1200007C13Rik	17.58	2.99E-09
Il1b	17.54	2.32E-65
Serpina3i	17.33	6.46E-13
Nfil3	17.32	6.12E-11
Gm20645	17.32	4.63E-32
Rnf125	17.24	1.86E-06
Dll1	17.23	2.72E-14
Sema4c	17.18	9.29E-23
Fam26f	17.17	6.63E-05
Dio2	17.15	3.93E-08
Orm1	17.03	1.31E-04
Gm26667	16.83	5.14E-04

Slfn2	16.79	2.47E-47
Rnf149	16.62	9.76E-14
Cmpk2	16.33	1.21E-12
Tnip1	16.32	1.20E-12
Gm28863	16.23	4.28E-10
Hk2	16.07	2.38E-05
Ptafr	15.93	1.26E-05
Basp1	15.86	1.31E-04
Map3k6	15.65	6.61E-05
Mamstr	15.43	7.49E-08
Thbs1	15.16	5.55E-125
Fosl2	15.09	5.76E-28
Malt1	15	7.99E-12
Gbp2	15	1.20E-14
Birc3	15	8.87E-26
Myc	14.89	4.32E-12
Ccr1	14.88	2.78E-14
Serpina3n	14.72	6.71E-24
Pim1	14.67	2.76E-68
Rasd1	14.6	2.07E-08
Slc7a15	14.48	2.06E-08
Bcl3	14.48	1.56E-09
Hcar2	14.45	1.20E-26
Ltf	14.34	2.38E-05
Itpkc	14.34	2.71E-07
Gm5530	14.31	1.89E-13
Wfdc17	14.27	3.34E-05
Pfkfb3	14.21	1.49E-11
Mmp9	13.82	6.67E-06
Tlr2	13.82	3.84E-35
Sod2	13.81	5.53E-35
Gem	13.62	1.20E-14
Abi1	13.57	3.12E-23
Mefv	13.47	1.31E-04
Rab20	13.42	4.49E-05
Fpr1	13.41	1.20E-09
Ifit3	13.34	1.47E-35
Mxd1	13.33	1.00E-15
Vcan	13.32	2.59E-04
Gm15832	13.32	7.54E-08
Cebpd	13.24	1.86E-120
Ifih1	13.22	2.06E-08
Kcne4	13.05	5.07E-08

Lrrc25	12.88	9.80E-07
Dusp2	12.87	9.96E-11
Il1a	12.83	5.20E-07
Ccl17	12.77	2.60E-04
Txnrd1	12.74	1.94E-11
Casp4	12.69	4.49E-05
Gm20400	12.66	2.71E-07
Gm12248	12.63	5.56E-04
Tnfaip2	12.52	3.18E-20
Serpina3h	12.49	1.95E-11
Rbbp8	12.44	3.44E-10
Cd274	12.44	2.19E-16
Marcksl1	12.42	7.63E-40
Cish	12.37	3.60E-19
Smim3	12.26	1.26E-05
Slc15a3	12.2	9.29E-08
Dbn1	12.03	6.66E-06
Nfkbiz	11.94	4.20E-18
Arid5a	11.72	2.23E-10
Csrnp1	11.63	5.59E-04
Srgn	11.61	8.63E-15
Rnf19b	11.57	9.30E-08
Chd9	11.46	4.18E-09
F3	11.43	1.56E-14
Icam1	11.41	1.43E-119
Gm9115	11.3	9.43E-08
Trib1	11.19	2.42E-22
Spry4	11.17	2.49E-17
Sp140	11.16	2.38E-05
Ddit4	11.08	1.25E-14
Parp14	11.05	1.49E-16
Cxcr2	10.9	8.43E-09
P2ry2	10.86	1.85E-06
Dennd4a	10.86	7.79E-09
Daxx	10.75	1.06E-11
Plscr1	10.72	2.52E-09
Prr7	10.66	1.26E-05
Irgm2	10.59	2.52E-09
Themis2	10.56	8.41E-09
Odc1	10.55	4.13E-10
Sgms2	10.38	4.48E-05
Abtb2	10.37	2.97E-04
Sbno2	10.34	3.57E-11

Lmnb1	10.32	2.97E-04
Hif1a	10.28	5.03E-08
Pik3ap1	10.17	6.75E-06
Ackr3	9.97	6.45E-12
Csf1	9.9	4.17E-10
Hdc	9.84	5.85E-14
Rel	9.82	1.26E-05
Egr1	9.75	1.53E-78
Klhl6	9.74	2.38E-05
Sdc4	9.72	1.42E-32
Ampd3	9.62	1.59E-04
Osmr	9.6	4.60E-09
Map3k8	9.55	9.25E-08
Tiparp	9.49	4.62E-09
Maff	9.26	2.52E-09
Kdm6b	9.14	9.36E-19
Zfp46	9.06	5.32E-17
Litaf	9.02	1.59E-04
Glrx	9.02	1.36E-09
Tubb6	8.99	2.00E-06
C5ar1	8.86	1.36E-04
Ntng2	8.84	2.97E-04
Plk3	8.81	2.00E-06
Il10ra	8.77	1.68E-07
Ppp1r15a	8.76	7.75E-32
Fmnl2	8.68	4.48E-05
Tbce	8.59	6.24E-12
9030624G23Rik	8.58	8.44E-05
Arg2	8.54	1.35E-04
I830012O16Rik	8.44	1.37E-09
Gm20689	8.43	1.56E-10
Irf1	8.4	8.89E-25
Plat	8.36	8.44E-05
Serpine1	8.36	8.50E-20
Adamts9	8.35	6.74E-06
Dhx40	8.34	4.11E-05
Nfkb2	8.34	1.36E-09
Tap1	8.33	6.76E-11
Pgs1	8.3	1.36E-09
RP23-27C10.1	8.23	1.59E-04
Plek	8.23	5.47E-07
Ifitm5	8.2	7.56E-05
Neat1	8.2	3.65E-109

Nampt	8.14	1.78E-06
Gm14928	8.09	2.92E-09
Cd53	8.07	6.76E-06
Fas	8	7.48E-05
Oasl2	8	5.72E-06
Mapk6	7.97	9.88E-07
N4bp1	7.96	4.53E-08
Irf7	7.91	1.02E-05
Pdlim7	7.9	3.19E-06
Fcer1g	7.85	3.04E-07
Hck	7.84	2.45E-04
Ccl5	7.8	6.77E-06
Rtp4	7.77	1.43E-08
Tuba1c	7.74	5.50E-07
Parp9	7.67	4.11E-05
Nfkbie	7.66	6.74E-06
Il4ra	7.6	8.18E-15
Dgat1	7.56	8.05E-07
Rnf213	7.5	1.21E-09
Ehd1	7.42	4.56E-15
Ier3	7.38	2.53E-151
Serpina3g	7.33	2.51E-06
Gm12250	7.31	2.19E-09
Gvin1	7.27	4.41E-04
Gadd45b	7.25	2.08E-31
Pmaip1	7.23	3.19E-06
Tnfrsf12a	7.16	1.26E-08
Phlda1	7.01	4.65E-25
Rps3a3	6.98	3.97E-10
Syk	6.96	1.02E-05
Stx11	6.93	3.19E-06
Gadd45g	6.91	1.38E-11
Helz2	6.91	4.71E-20
Bhlhe40	6.89	3.25E-18
Tnfrsf1b	6.87	5.71E-06
Dusp16	6.73	1.01E-04
Junb	6.71	7.42E-82
Bcl2l11	6.66	1.01E-04
Myd88	6.65	5.82E-05
Tpd52	6.64	4.40E-04
Nelfe	6.63	3.10E-04
Retsat	6.6	7.69E-06
Gm17709	6.54	2.45E-04

Nfkb1	6.54	7.68E-06
Slc6a14	6.49	2.45E-04
Rnd3	6.43	2.34E-05
Errfi1	6.42	6.85E-24
Cebpb	6.41	3.34E-38
Furin	6.38	9.19E-13
Rab8b	6.32	1.02E-05
Ogfr	6.32	4.16E-09
Gbp8	6.29	2.45E-04
Btg1	6.29	3.92E-40
Anxa1	6.28	9.54E-09
Tbk1	6.27	1.01E-04
Rabgef1	6.27	4.04E-05
Fth1	6.27	9.35E-56
Ptpn1	6.24	1.83E-06
Slc25a25	6.22	7.88E-04
Slc16a13	6.2	1.34E-05
Rhoc	6.18	5.71E-15
Mapkapk2	6.15	3.66E-08
Vcam1	6.12	5.47E-06
Gadd45a	6.12	1.66E-08
Chmp4b	6.08	1.01E-04
Sntb2	6.06	7.88E-04
Xdh	6.06	4.05E-05
Slc27a4	5.96	7.88E-04
Trafd1	5.94	3.17E-06
Snord17	5.87	1.24E-26
Hbegf	5.86	1.20E-04
Map2k3	5.85	5.71E-05
Robo4	5.84	1.49E-07
Xaf1	5.82	1.77E-04
Gramd1a	5.77	1.77E-04
Birc2	5.77	4.40E-07
Clic4	5.75	4.61E-21
Zc3hav1	5.73	9.38E-06
Fbxl5	5.72	4.40E-04
Gm12854	5.71	3.32E-06
Pvr	5.7	7.88E-04
Gm26982	5.68	1.78E-04
Lipg	5.67	3.10E-04
Mob3c	5.65	1.77E-04
Gm27019	5.65	2.75E-05
Dtx3l	5.61	1.83E-06

Ets2	5.57	4.69E-13
Tgif1	5.56	5.39E-04
Gm6485	5.56	1.75E-13
Zfp36	5.53	1.63E-125
Gm20603	5.49	5.59E-11
Cd63-ps	5.47	1.97E-08
Sema7a	5.45	9.35E-04
Gm6977	5.45	1.64E-121
Etv3	5.41	4.41E-07
Tgm2	5.4	2.31E-10
Gm23444	5.36	3.95E-08
Stk19	5.35	9.35E-04
Cd44	5.34	1.25E-07
Hsp25-ps1	5.28	1.73E-56
Tet2	5.2	3.10E-04
Il17ra	5.17	7.88E-05
Aff1	5.16	6.98E-05
Gm22486	5.1	5.50E-04
Plekho2	5.06	5.95E-04
Ncf1	4.97	5.39E-04
Rnasel	4.97	3.51E-04
Cfb	4.97	1.80E-05
Pim3	4.96	1.19E-11
Stat3	4.94	1.16E-05
Ier2	4.93	1.43E-61
Ralgds	4.9	9.35E-04
Rac2	4.88	2.06E-04
Rnf19a	4.87	2.23E-04
Bach1	4.85	4.65E-05
Cp	4.82	3.02E-05
Snx18	4.81	6.99E-06
Trim25	4.81	1.65E-06
Egln2	4.81	9.37E-08
Skil	4.8	1.65E-06
H2-Q4	4.8	2.41E-18
H3f3b	4.79	2.39E-41
Gm4070	4.76	9.35E-04
RP24-252K15.3	4.75	4.61E-10
F630028O10Rik	4.7	4.66E-05
Rgcc	4.69	5.04E-05
Taf7	4.69	3.19E-05
Gm8995	4.69	3.47E-14
Ankrd12	4.67	5.96E-04

Ccl9	4.64	3.51E-04
Enc1	4.61	2.06E-04
Dennd3	4.61	6.16E-04
Ccnl1	4.6	1.01E-07
Ppp1r18	4.57	4.19E-06
Klf6	4.55	1.65E-29
Igfbp3	4.44	1.59E-11
4933426M11Rik	4.43	1.99E-05
Gm23971	4.43	2.56E-07
Per1	4.37	3.25E-05
Sik1	4.37	3.83E-10
42068	4.35	6.17E-04
Il31ra	4.34	2.47E-04
Rhob	4.23	1.67E-82
Dusp1	4.23	1.74E-78
Prss23	4.18	2.27E-04
Rrs1	4.15	3.28E-05
H2-Q6	4.14	7.71E-06
Riok3	4.13	1.40E-04
Ier5	4.09	1.27E-14
Etf1	4.02	3.75E-04
Irf9	4.02	3.75E-04
Pxdc1	4.02	2.00E-05
Bcl2l1	4	2.28E-04
Gna13	4	1.24E-05
Gja1	3.99	1.83E-06
Glul	3.98	1.90E-13
Edn1	3.97	7.65E-06
Grina	3.95	7.33E-13
Gm23472	3.89	8.59E-05
Lyve1	3.88	2.71E-11
Nabp1	3.86	9.90E-04
Gclc	3.85	1.40E-04
S1pr1	3.84	5.39E-29
Zfp281	3.83	4.38E-07
Znfx1	3.82	2.26E-04
Srxn1	3.81	6.11E-04
Lrg1	3.81	4.28E-28
Mcl1	3.77	8.89E-38
Efhd2	3.76	6.11E-04
Rela	3.76	2.99E-05
Picalm	3.74	1.23E-05
Ppp1r15b	3.72	1.84E-10

Rab7	3.71	2.26E-04
Sav1	3.68	8.50E-05
Prdx5	3.64	1.80E-05
2810474O19Rik	3.62	2.69E-06
Carhsp1	3.58	7.83E-05
Rasip1	3.57	2.52E-07
Rab11fip1	3.55	4.42E-06
Gm26316	3.54	3.06E-05
Adamts1	3.51	3.93E-13
Gm12966	3.51	8.89E-26
Csf2ra	3.5	5.52E-04
Stk17b	3.47	9.37E-04
St3gal1	3.47	1.00E-06
Eif1	3.47	2.89E-28
Tnks1bp1	3.45	4.38E-05
Mir6236	3.45	1.97E-04
Eif5	3.43	1.39E-07
Sspn	3.43	3.75E-13
Id2	3.39	5.26E-12
Rnu3b2	3.37	1.81E-05
Rnu3a	3.32	7.67E-06
Gm10020	3.29	2.09E-11
Gm15801	3.27	8.00E-04
Cflar	3.27	5.09E-04
Bcl6b	3.25	4.64E-04
Marcks	3.25	7.63E-16
Mafk	3.2	4.64E-04
Tacstd2	3.19	1.75E-10
Rnu3b3	3.16	5.48E-05
Cxcl16	3.14	6.24E-05
Rnu3b4	3.12	4.07E-04
Tpm3	3.09	1.61E-04
Arhgap21	3.09	4.17E-18
Ppp1r2-ps2	3.03	4.30E-05
Sqstm1	3.03	1.56E-08
Lox	3.02	7.21E-06
Slfn5	3.01	2.01E-05
Ptp4a1	2.99	1.53E-05
Gm9835	2.99	2.63E-07
Ifitm3	2.98	5.87E-24
Hba-a2	2.96	3.63E-13
Rap1b	2.91	5.03E-04
Rnu3b1	2.91	1.10E-05

Tpm3-rs7	2.9	1.18E-29
Jarid2	2.89	9.53E-05
Cd47	2.88	9.71E-04
H2-K1	2.88	3.96E-18
Spry2	2.87	5.05E-04
Ddx3x	2.83	3.02E-10
Slc38a2	2.8	1.03E-04
Ctla2a	2.78	3.30E-06
Gm24950	2.77	7.86E-06
Myh9	2.72	3.85E-04
Rpl14-ps1	2.72	5.19E-12
Midn	2.71	1.99E-04
Zfp703	2.71	2.21E-05
Gm10232	2.68	5.63E-05
Ppp1r2-ps4	2.67	7.83E-14
Gm23849	2.65	3.01E-07
Hspb1	2.64	4.69E-15
Cdk8	2.64	2.08E-14
Gm10156	2.58	3.75E-05
Gm8822	2.56	8.18E-08
Gm23119	2.55	5.68E-04
Eif3s6-ps2	2.54	5.05E-04
Hbb-bt	2.54	1.08E-16
Eif1-ps1	2.52	1.10E-05
Atf4	2.49	1.61E-12
Yam1	2.48	2.51E-04
Gm15453	2.46	5.36E-06
Gm9791	2.45	4.13E-04
Tapbp	2.41	1.11E-05
1810049J17Rik	2.41	2.23E-09
Esam	2.39	6.83E-04
Gm8203	2.39	1.49E-04
Kctd12	2.36	1.87E-04
Gm7809	2.36	3.40E-07
Xbp1	2.35	3.20E-05
Ifitm2	2.33	9.74E-15
Eif4a1	2.28	8.21E-04
Gm9855	2.28	5.06E-04
Erdr1	2.28	3.58E-04
AY036118	2.27	7.06E-07
Gm9845	2.26	4.64E-05
Cmss1	2.26	4.87E-15
Gm10254	2.25	2.38E-05

Srsf5	2.24	5.50E-07
Gm15487	2.24	2.05E-05
Gm7334	2.23	5.87E-09
Sat1	2.2	2.23E-06
Gm1821	2.18	3.02E-13
Rnu2-10	2.17	1.52E-04
Jund	2.17	2.76E-13
Slc39a1	2.16	8.04E-04
Hba-a1	2.11	5.87E-09
Rps27a-ps2	2.09	4.50E-07
Hbb-bs	2.07	4.82E-19
Gm12895	2.02	5.26E-04
n-R5-8s1	2.02	1.17E-20
Prdx6	1.96	3.38E-05
Gm13394	1.95	9.10E-04
Ubc	1.89	4.60E-19
Gm9762	1.88	3.99E-05
Ctgf	1.85	4.41E-06
H2-D1	1.84	1.49E-15
Gm13370	1.81	5.90E-04
Gm12715	1.81	3.80E-26
Tgoln1	1.79	1.22E-04
Gm12183	1.78	9.36E-10
Gm15441	1.77	1.88E-04
Rps13-ps2	1.76	7.88E-05
Gm8430	1.74	2.54E-08
Hspa5	1.7	3.79E-05
Clec2d	1.7	9.72E-04
Gm26825	1.68	1.29E-20
Eif4a-ps4	1.63	9.93E-09
Actg1	1.63	6.80E-12
Scgb1a1	1.63	1.90E-19
Gm26917	1.61	7.71E-46
Jun	1.6	5.42E-07
Rps23-ps	1.6	3.89E-04
Zfp36l1	1.6	9.94E-04
Gm4202	1.51	1.41E-08
Gm10116	1.5	4.20E-10
Scarna10	1.5	2.22E-04
Rps27rt	1.48	7.24E-09
Tpt1-ps3	1.46	1.14E-08
1700020I14Rik	-4.4	4.20E-04
Actb	-1.02	4.86E-11

Acvr1l1	-4.52	1.33E-05
Adrb1	-7.43	1.10E-06
Ager	-2.25	1.51E-10
Akap5	-3.9	1.73E-10
Aplnr	-11.92	1.44E-09
Calcr1	-14.56	2.15E-08
Calr	-3.1	3.59E-06
Cbr2	-3.35	1.49E-34
Ccl21a	-4.25	4.86E-05
Cldn3	-2.47	7.35E-05
Clec14a	-6.05	3.69E-20
Clec1a	-23.52	2.98E-04
Cnn2	-3.2	8.24E-04
Crip2	-3.99	1.36E-04
Cxcl12	-9.67	5.29E-07
Cxcl15	-7.77	1.20E-28
Cxx1a	-6.22	1.79E-07
Cxx1b	-8.5	9.34E-10
Cyp2f2	-4.34	5.27E-08
Dynll1	-8.19	6.41E-06
Dynlt1-ps1	-5.22	8.25E-19
Ear-ps2	-10.23	1.14E-09
Ear2	-4.53	4.29E-11
Egfl7	-10.14	6.36E-08
Eid1	-4.02	4.61E-04
Elovl1	-4.94	3.99E-06
Fzd2	-20.73	5.57E-04
Gm10080	-2.06	2.44E-04
Gm10123	-2.3	1.80E-15
Gm10175	-3.68	5.37E-10
Gm10179	-5.09	3.05E-04
Gm10193	-3.84	1.26E-04
Gm10243	-3.48	3.52E-04
Gm10263	-2.57	5.67E-13
Gm10275	-1.86	9.40E-07
Gm10288	-1.82	4.53E-06
Gm10800	-16.28	1.67E-25
Gm11223	-6.48	1.10E-07
Gm11808	-1.9	1.05E-09
Gm12184	-3.29	8.33E-04
Gm13443	-2.93	1.79E-05
Gm13502	-6.55	1.19E-06
Gm13597	-3.22	2.44E-04

Gm15501	-1.88	1.90E-05
Gm15772	-1.93	4.52E-09
Gm15920	-14.01	1.05E-05
Gm22179	-2.33	5.81E-08
Gm2423	-2.37	1.24E-04
Gm24265	-5.72	6.39E-10
Gm26191	-1.94	6.45E-07
Gm4294	-3.6	6.70E-07
Gm5525	-3.34	3.41E-04
Gm5644	-2.81	7.97E-06
Gm6166	-3.53	2.88E-04
Gm6969	-2.18	6.55E-04
Gm6984	-2.57	1.89E-04
Gm7536	-1.73	1.35E-05
Gm8186	-3.44	4.63E-04
Gm8894	-2.76	3.86E-06
Gm9770	-2.86	9.90E-07
Gm9824	-8.25	7.92E-05
Gm9840	-3.49	7.92E-04
Gm9844_1	-4.73	2.01E-04
H1f0	-4.66	1.56E-08
Hist1h1a	-5.29	3.56E-04
Hist1h1d	-3.05	1.46E-04
Hist1h1e	-3.02	9.34E-15
Hist1h2ac	-7.89	2.26E-04
Hist1h2ai	-5.32	3.34E-05
Hist1h2ak	-4.71	2.83E-04
Hist1h2al	-2.72	1.91E-06
Hist1h2ap	-3.18	2.78E-05
Hist1h2bg	-2.56	3.66E-04
Hist1h2bk	-4.14	1.20E-06
Hist1h2bl	-6.01	8.41E-10
Hist1h2bm	-10.92	3.26E-06
Hist1h3b	-3.87	4.63E-04
Hist1h3d	-6.85	1.11E-09
Hist1h4c	-3.1	3.53E-07
Hist1h4d	-2.59	1.95E-11
Hist1h4h	-4.91	1.63E-21
Hist1h4i	-4.2	5.75E-04
Hist1h4n	-5.62	8.51E-16
Hist2h2ac	-5.41	3.03E-06
Hist2h3c2	-5.4	4.97E-04
Hist2h4	-4.78	1.62E-04

Hpgd	-15.86	2.27E-05
Hspa1a	-42.43	4.49E-12
Hspa1b	-12.06	8.83E-17
Igkc	-2.42	8.31E-07
Inmt	-4.49	3.36E-27
Lbh	-22.94	9.36E-08
Lgi3	-5.9	5.31E-05
Lyz2	-2.62	1.16E-27
Malat1	-1.19	4.60E-04
Mfap4	-2.15	4.15E-04
Mrfap1	-2.31	7.88E-05
Mrpl34	-9.54	3.53E-04
mt-Atp6	-2	2.22E-05
mt-Co1	-1.83	1.62E-10
mt-Co2	-2.04	0
mt-Nd4	-1.67	5.81E-06
Nkx2-1	-6.68	1.66E-07
Nr1d1	-8.88	1.33E-04
Nrarp	-13.36	1.78E-04
Nutf2-ps1	-3.6	4.66E-04
Pdpf	-5.86	1.38E-04
Retnla	-6.91	1.94E-05
Rgs2	-5.25	1.16E-05
Rmrp	-1.72	3.91E-07
Rn7sk	-1.2	6.78E-04
Rnf181	-4.94	4.41E-05
Rnu11_1	-19.81	4.42E-04
RP23-187F18.1	-4	3.91E-05
Rpl10-ps3	-2.61	3.04E-06
Rpl10a-ps1	-1.83	3.94E-06
Rpl15	-4.43	2.26E-04
Rpl17-ps9	-4.19	5.78E-17
Rpl19-ps11	-1.64	8.91E-04
Rpl23a-ps3	-1.71	2.83E-04
Rpl31-ps8	-2.15	9.18E-10
Rpl34-ps1	-1.63	3.54E-04
Rpl39-ps	-2.33	4.83E-05
Rps13-ps1	-1.85	3.87E-04
Rps15a-ps7	-2.25	3.77E-05
Rps24-ps3	-2.51	1.53E-10
Rps26-ps1	-2.66	2.35E-04
Rps6-ps4	-1.83	2.70E-06
Rsrp1	-3.87	1.66E-07

Scd1	-2.62	2.34E-11
Scd2	-2.5	1.61E-04
Scgb3a2	-4.95	3.59E-08
Scp2-ps2	-3.42	1.92E-09
Sema3g	-8.31	9.36E-04
Serpinh1	-4.38	3.95E-06
Sftpa1	-1.8	1.67E-06
Sftpb	-2.97	1.22E-09
Sftpc	-2.9	1.94E-22
Slc34a2	-4.32	1.06E-10
Slc9a3r2	-7.63	1.82E-05
Sox17	-17.44	4.41E-04
Sox18	-37.73	1.13E-17
Tbx2	-4.98	1.70E-05
Thbd	-2.15	4.46E-07
Tmsb4x	-1.79	1.11E-05
Tppp3	-4.4	7.77E-05
Tuba1a	-2.22	6.76E-04
Tuba1b	-2.97	7.95E-06
Tubb5	-3.06	3.65E-07