

Table S1. List of differentially expressed genes of (p) ppGpp⁰_{PsTDC3000} versus PsTDC3000 with |log₂FC| value ≥1 and an adjusted p-value <0.05.

Locus tag	Gene description	(p)ppGpp ⁰ _{PsTDC3000} /PsTDC3000
Type III secretion system		
PSPTO_4594	type III effector HopO1-2	-1.01
PSPTO_4592	type III effector HopO1-3	-1.13
PSPTO_3292	type III effector HopAH2-1	-1.14
PSPTO_0906	type III effector HopAI1	-1.18
PSPTO_4593	type III effector HopT1-2	-1.36
PSPTO_0474	type III effector HopAS1, partial	-1.41
PSPTO_0905	<i>hopAH1</i> , type III effector HopAH1	-1.5
PSPTO_1568	<i>hopAF1</i> , type III effector HopAF1	-2.25
PSPTO_4724	type III effector HopD	-2.33
PSPTO_4001	<i>avrPto1</i> , type III effector protein AvrPto1	-2.36
PSPTO_0901	<i>hopAG1</i> , type III effector HopAG1	-2.53
PSPTO_1404	<i>hrpL</i> , RNA polymerase sigma factor HrpL	-2.82
PSPTO_4703	type III effector HopAQ1	-2.98
PSPTO_0501	type III effector HopU1	-3.09
PSPTO_1376	<i>shcE</i> , type III chaperone ShcE	-3.2
PSPTO_1372	hopAA1-1, type III effector HopAA1-1	-3.37
PSPTO_1402	<i>hrcV</i> , type III secretion protein HrcV	-3.45
PSPTO_1403	<i>hrpJ</i> , type III secretion protein HrpJ	-3.46
PSPTO_1387	type III secretion protein HrpF	-3.5
PSPTO_1397	<i>hrcQa</i> , type III secretion protein HrcQa	-3.54
PSPTO_1388	<i>hrpG</i> , type III secretion protein HrpG	-3.55
PSPTO_1393	<i>hrcT</i> , type III secretion protein HrcT	-3.58
PSPTO_0852	type III helper protein HopAJ1	-3.58
PSPTO_0883	type III effector HopR1	-3.6
PSPTO_1392	<i>hrcU</i> , type III secretion protein HrcU	-3.73
PSPTO_1396	<i>hrcQb</i> , type III secretion protein HrcQb	-3.82
PSPTO_0503	type III chaperone protein ShcF	-3.82
PSPTO_0061	type III effector HopY1	-3.85
PSPTO_4599	type III chaperone ShcS1	-3.87
PSPTO_4718	type III effector HopAA1-2	-3.87
PSPTO_0877	type III effector HopQ1-1	-3.87
PSPTO_1394	<i>hrcS</i> , type III secretion protein HrcS	-3.98
PSPTO_4691	type III effector HopAD1	-3.99
PSPTO_1391	<i>hrpV</i> , negative regulator of hrp expression HrpV	-4.04
PSPTO_1395	<i>hrcR</i> , type III secretion protein HrcR	-4.05
PSPTO_0589	type III effector HopC1	-4.07
PSPTO_5353	type III chaperone protein ShcA	-4.07
PSPTO_1378	<i>hrpH</i> , membrane-bound lytic murein transglycosylase D	-4.11
PSPTO_1377	<i>avrE1</i> , type III effector protein AvrE1	-4.13
PSPTO_3087	<i>hopAB2</i> , type III effector HopAB2	-4.14
PSPTO_1401	<i>hrpQ</i> , type III secretion protein HrpQ	-4.15
PSPTO_1398	<i>hrpP</i> , type III secretion protein HrpP	-4.17
PSPTO_4722	type III effector HopAO1	-4.17
PSPTO_0502	type III effector HopF2	-4.19
PSPTO_1389	<i>hrcC</i> , outer-membrane type III secretion protein HrcC	-4.22

<i>PSPTO_4589</i>	type III chaperone ShcS2	-4.31
<i>PSPTO_1405</i>	<i>hrpK1</i> , type III helper protein HrpK1	-4.36
<i>PSPTO_4776</i>	<i>hopI1</i> , type III effector HopI1	-4.36
<i>PSPTO_1369</i>	type III chaperone protein ShcN	-4.38
<i>PSPTO_4597</i>	type III effector HopS1	-4.38
<i>PSPTO_1386</i>	<i>hrpE</i> , type III secretion protein HrpE	-4.43
<i>PSPTO_1390</i>	<i>hrpT</i> , type III secretion protein	-4.47
<i>PSPTO_1374</i>	<i>shcM</i> , type III chaperone ShcM	-4.49
<i>PSPTO_1400</i>	<i>hrcN</i> , type III secretion cytoplasmic ATPase HrcN	-4.51
<i>PSPTO_1022</i>	type III effector HopAM1-1	-4.51
<i>PSPTO_2678</i>	type III helper protein HopP1	-4.52
<i>PSPTO_4101</i>	<i>hopAK1</i> , type III helper protein HopAK1	-4.59
<i>PSPTO_4720</i>	type III effector HopV1	-4.62
<i>PSPTO_4588</i>	type III effector HopS2	-4.63
<i>PSPTO_1375</i>	<i>hopM1</i> , type III effector HopM1	-4.64
<i>PSPTO_1381</i>	type III helper protein HrpA1	-4.67
<i>PSPTO_1399</i>	<i>hrpO</i> , type III secretion protein HrpO	-4.72
<i>PSPTO_5354</i>	type III effector HopA1	-4.73
<i>PSPTO_1385</i>	<i>hrpD</i> , type III secretion protein HrpD	-4.76
<i>PSPTO_1370</i>	type III effector HopN1	-4.82
<i>PSPTO_0588</i>	<i>hopH1</i> , type III effector HopH1	-4.94
<i>PSPTO_1406</i>	type III effector HopB1	-4.96
<i>PSPTO_1384</i>	<i>hrcJ</i> , type III secretion protein HrcJ	-5.11
<i>PSPTO_0876</i>	type III effector HopD1	-5.11
<i>PSPTO_4721</i>	type III chaperone ShcV	-5.11
<i>PSPTO_1383</i>	<i>hrpB</i> , type III secretion protein HrpB	-5.17
<i>PSPTO_1382</i>	<i>hrpZ1</i> , type III restriction system endonuclease	-5.22
<i>PSPTO_4331</i>	type III effector HopE1	-5.68
<i>PSPTO_4727</i>	type III effector HopG1	-5.73
<i>PSPTO_1373</i>	<i>hrpW1</i> , type III helper protein HrpW1	-6.12
Translation, ribosomal structure and biogenesis		
<i>PSPTO_3352</i>	<i>infA</i> , translation initiation factor IF-1	4.2
<i>PSPTO_5136</i>	<i>rpmE-2</i> , 50S ribosomal protein L31	3.27
<i>PSPTO_0090</i>	<i>rpmG</i> , 50S ribosomal protein L33	2.71
<i>PSPTO_3750</i>	hypothetical protein PSPTO_3750	2.63
<i>PSPTO_5615</i>	<i>rpmH</i> , 50S ribosomal protein L34	2.56
<i>PSPTO_0802</i>	<i>rpsT</i> , 30S ribosomal protein S20	2.47
<i>PSPTO_0089</i>	<i>rpmB</i> , 50S ribosomal protein L28	2.44
<i>PSPTO_5138</i>	<i>argS</i> , arginyl-tRNA synthetase	2.43
<i>PSPTO_1420</i>	RNA methyltransferase, TrmH family, group 1	2.37
<i>PSPTO_4425</i>	<i>rpsI</i> , 30S ribosomal protein S9	2.31
<i>PSPTO_1146</i>	<i>rsmC</i> , ribosomal RNA small subunit methyltransferase C	2.3
<i>PSPTO_4019</i>	ribosomal protein S12 methylthiotransferase	2.25
<i>PSPTO_0072</i>	endoribonuclease L-PSP	2.19
<i>PSPTO_4645</i>	methyltransferase	2.19
<i>PSPTO_3835</i>	<i>rpmF</i> , 50S ribosomal protein L32	2.14
<i>PSPTO_4862</i>	<i>prmA</i> , ribosomal protein L11 methyltransferase	2.14
<i>PSPTO_4426</i>	<i>rplM</i> , 50S ribosomal protein L13	2.14
<i>PSPTO_0184</i>	<i>glyQ</i> , glycyl-tRNA synthetase subunit alpha	2.14

<i>PSPTO_0177</i>	<i>def-1</i> , polypeptide deformylase	2.12
<i>PSPTO_1476</i>	<i>rplS</i> , 50S ribosomal protein L19	1.97
<i>PSPTO_4930</i>	<i>rplI</i> , 50S ribosomal protein L9	1.94
<i>PSPTO_1744</i>	initiation factor 2 subunit family	1.94
<i>PSPTO_1501</i>	<i>lysS</i> , lysyl-tRNA synthetase	1.93
<i>PSPTO_0963</i>	<i>pcnB</i> , poly(A) polymerase	1.92
<i>PSPTO_0827</i>	<i>rluD</i> , ribosomal large subunit pseudouridine synthase D	1.91
<i>PSPTO_4183</i>	<i>rpmE-1</i> , 50S ribosomal protein L31 type B	1.9
<i>PSPTO_0539</i>	<i>rpsU</i> , 30S ribosomal protein S21	1.87
<i>PSPTO_1818</i>	hypothetical protein PSPTO_1818	1.87
<i>PSPTO_0618</i>	<i>rplL</i> , 50S ribosomal protein L7/L12	1.84
<i>PSPTO_1412</i>	<i>queA</i> , S-adenosylmethionine--tRNA ribosyltransferase-isomerase	1.83
<i>PSPTO_1561</i>	hypothetical protein PSPTO_1561	1.82
<i>PSPTO_3922</i>	<i>rnd</i> , ribonuclease D	1.79
<i>PSPTO_4021</i>	S4 domain-containing protein	1.78
<i>PSPTO_1473</i>	<i>rpsP</i> , 30S ribosomal protein S16	1.76
<i>PSPTO_0077</i>	<i>rph</i> , ribonuclease PH	1.76
<i>PSPTO_1413</i>	<i>tgt</i> , queuine tRNA-ribosyltransferase	1.73
<i>PSPTO_0625</i>	<i>rpsJ</i> , 30S ribosomal protein S10	1.73
<i>PSPTO_3358</i>	<i>trmU</i> , tRNA (5-methyl aminomethyl-2-thiouridylate)-methyltransferase	1.72
<i>PSPTO_1103</i>	ribosomal 5S rRNA E-loop binding protein Ctc/L25/TL5	1.7
<i>PSPTO_1534</i>	<i>rpsB</i> , 30S ribosomal protein S2	1.68
<i>PSPTO_0616</i>	<i>rplA</i> , 50S ribosomal protein L1	1.66
<i>PSPTO_3817</i>	<i>truA</i> , tRNA pseudouridine synthase A	1.65
<i>PSPTO_0640</i>	<i>rpsH</i> , 30S ribosomal protein S8	1.62
<i>PSPTO_4932</i>	<i>rpsR</i> , 30S ribosomal protein S18	1.61
<i>PSPTO_1431</i>	radical SAM enzyme, Cfr family	1.61
<i>PSPTO_0185</i>	<i>glyS</i> , glycyl-tRNA synthetase subunit beta	1.59
<i>PSPTO_4812</i>	<i>leuS</i> , leucyl-tRNA synthetase	1.59
<i>PSPTO_5323</i>	TrmH family RNA methyltransferase	1.57
<i>PSPTO_3840</i>	<i>rluC</i> , ribosomal large subunit pseudouridine synthase C	1.51
<i>PSPTO_1475</i>	<i>trmD</i> , tRNA (guanine-N1)-methyltransferase	1.49
<i>PSPTO_0617</i>	<i>rplJ</i> , 50S ribosomal protein L10	1.49
<i>PSPTO_0615</i>	<i>rplK</i> , 50S ribosomal protein L11	1.49
<i>PSPTO_1474</i>	<i>rimM</i> , 16S rRNA-processing protein RimM	1.47
<i>PSPTO_1268</i>	<i>valS</i> , valyl-tRNA synthetase	1.43
<i>PSPTO_1533</i>	<i>map-1</i> , methionine aminopeptidase	1.43
<i>PSPTO_0797</i>	<i>rplU</i> , 50S ribosomal protein L21	1.4
<i>PSPTO_2378</i>	<i>thrS</i> , threonyl-tRNA synthetase	1.38
<i>PSPTO_1500</i>	<i>prfB</i> , hypothetical protein PSPTO_1500	1.37
<i>PSPTO_0641</i>	<i>rplF</i> , 50S ribosomal protein L6	1.36
<i>PSPTO_5614</i>	<i>rnpA</i> , ribonuclease P protein component	1.36
<i>PSPTO_0806</i>	<i>ileS</i> , isoleucyl-tRNA synthetase	1.36
<i>PSPTO_1535</i>	<i>tsf</i> , translation elongation factor Ts	1.35
<i>PSPTO_4499</i>	hypothetical protein PSPTO_4499	1.34
<i>PSPTO_4804</i>	<i>miaB</i> , tRNA-i(6)A37 modification enzyme MiaB	1.34
<i>PSPTO_4933</i>	<i>rpsF</i> , 30S ribosomal protein S6	1.33
<i>PSPTO_0544</i>	<i>cca</i> , tRNA nucleotidyltransferase	1.32
<i>PSPTO_0643</i>	<i>rpsE</i> , 30S ribosomal protein S5	1.32

<i>PSPTO_4158</i>	<i>rnt</i> , ribonuclease T	1.31
<i>PSPTO_1811</i>	Sua5/YciO/YrdC/YwIC family protein	1.29
<i>PSPTO_0626</i>	<i>rplC</i> , 50S ribosomal protein L3	1.28
<i>PSPTO_0652</i>	<i>rplQ</i> , 50S ribosomal protein L17	1.24
<i>PSPTO_3981</i>	<i>aspS</i> , aspartyl-tRNA synthetase	1.2
<i>PSPTO_2311</i>	23S rRNA m(2)G2445 methyltransferase	1.19
<i>PSPTO_0642</i>	<i>rplR</i> , 50S ribosomal protein L18	1.19
<i>PSPTO_0650</i>	<i>rpsD</i> , 30S ribosomal protein S4	1.18
<i>PSPTO_4654</i>	<i>trmA</i> , tRNA (uracil-5-)-methyltransferase	1.17
<i>PSPTO_1815</i>	<i>rluB</i> , ribosomal large subunit pseudouridine synthase B	1.15
<i>PSPTO_4247</i>	<i>rsuA</i> , ribosomal small subunit pseudouridine synthase A	1.12
<i>PSPTO_1765</i>	<i>efp</i> , translation elongation factor P	1.12
<i>PSPTO_0629</i>	<i>rplB</i> , 50S ribosomal protein L2	1.11
<i>PSPTO_1753</i>	hypothetical protein PSPTO_1753	1.11
<i>PSPTO_0102</i>	endoribonuclease L-PSP family protein	1.1
<i>PSPTO_3988</i>	<i>proS</i> , prolyl-tRNA synthetase	1.1
<i>PSPTO_2166</i>	<i>gltX</i> , glutamyl-tRNA synthetase	1.09
<i>PSPTO_0644</i>	<i>rpmD</i> , 50S ribosomal protein L30	1.09
<i>PSPTO_0627</i>	<i>rplD</i> , 50S ribosomal protein L4	1.08
<i>PSPTO_1750</i>	<i>rpsA</i> , 30S ribosomal protein S1	1.06
<i>PSPTO_4841</i>	translation initiation factor Sui1	1.05
<i>PSPTO_0967</i>	glutamyl-Q tRNA(Asp) synthetase	1.04
<i>PSPTO_0178</i>	<i>fmt</i> , methionyl-tRNA formyltransferase	1
<i>PSPTO_2964</i>	hypothetical protein PSPTO_2964	-1.03
<i>PSPTO_4490</i>	<i>infB</i> , translation initiation factor IF-2	-1.09
<i>PSPTO_5387</i>	stability cassette protein	-1.12
<i>PSPTO_0551</i>	<i>ksgA</i> , dimethyladenosine transferase	-1.31
<i>PSPTO_4489</i>	<i>rbfA</i> , ribosome-binding factor A	-1.72
<i>PSPTO_2421</i>	<i>amdA</i> , amidase	-2.06
<i>PSPTO_2310</i>	<i>rmf</i> , ribosome modulation factor-related protein	-2.74
<i>PSPTO_0836</i>	hypothetical protein PSPTO_0836	-3.58
RNA processing and modification		
<i>PSPTO_4950</i>	<i>orn</i> , oligoribonuclease	1.3
Transcription		
<i>PSPTO_1768</i>	MarR family transcriptional regulator	3.27
<i>PSPTO_0327</i>	S1 RNA binding domain-containing protein	2.79
<i>PSPTO_4180</i>	<i>metR</i> , transcriptional activator MetR	2.51
<i>PSPTO_0689</i>	<i>nrdR</i> , hypothetical protein PSPTO_0689	2.44
<i>PSPTO_3510</i>	<i>lexA-2</i> , LexA repressor	2.34
<i>PSPTO_5267</i>	zinc uptake regulation protein	2.32
<i>PSPTO_0537</i>	<i>rpoD</i> , RNA polymerase sigma-70 factor	2.17
<i>PSPTO_1216</i>	LysR family transcriptional regulator	2.14
<i>PSPTO_2444</i>	GNAT family acetyltransferase	1.96
<i>PSPTO_3021</i>	LysR family transcriptional regulator	1.86
<i>PSPTO_5638</i>	hypothetical protein PSPTO_5638	1.8
<i>PSPTO_1857</i>	AraC family transcriptional regulator	1.78
<i>PSPTO_4755</i>	hypothetical protein PSPTO_4755	1.77
<i>PSPTO_3822</i>	TetR family transcriptional regulator	1.72
<i>PSPTO_2808</i>	LysR family transcriptional regulator	1.71

<i>PSPTO_1336</i>	ArsR family transcriptional regulator	1.7
<i>PSPTO_0074</i>	<i>rpoZ</i> , DNA-directed RNA polymerase subunit omega	1.69
<i>PSPTO_1733</i>	<i>bolA</i> , bolA protein	1.64
<i>PSPTO_1158</i>	TetR family transcriptional regulator	1.62
<i>PSPTO_0749</i>	heavy metal-dependent transcriptional regulator	1.6
<i>PSPTO_2404</i>	ArsR family transcriptional regulator	1.49
<i>PSPTO_4132</i>	repressor protein c2	1.46
<i>PSPTO_4104</i>	ATP-dependent helicase HepA	1.45
<i>PSPTO_0362</i>	DeoR family transcriptional regulator	1.44
<i>PSPTO_0430</i>	<i>rpoH</i> , RNA polymerase sigma-32 factor	1.43
<i>PSPTO_1299</i>	<i>hexR</i> , Hex regulon repressor	1.42
<i>PSPTO_0096</i>	GntR family transcriptional regulator/aminotransferase, class I	1.41
<i>PSPTO_3162</i>	hypothetical protein PSPTO_3162	1.36
<i>PSPTO_4920</i>	LysR family transcriptional regulator	1.34
<i>PSPTO_4550</i>	GntR family transcriptional regulator	1.34
<i>PSPTO_3698</i>	TetR family transcriptional regulator	1.34
<i>PSPTO_3046</i>	sigma-54 dependent transcriptional regulator	1.34
<i>PSPTO_2533</i>	GNAT family acetyltransferase	1.33
<i>PSPTO_4523</i>	AsnC family transcriptional regulator	1.33
<i>PSPTO_3040</i>	LysR family transcriptional regulator	1.27
<i>PSPTO_4010</i>	repressor protein cI	1.24
<i>PSPTO_3161</i>	protein kinase	1.23
<i>PSPTO_3773</i>	GntR family transcriptional regulator	1.22
<i>PSPTO_2265</i>	<i>greB-I</i> , transcription elongation factor GreB	1.2
<i>PSPTO_0614</i>	<i>nusG</i> , transcription antitermination protein NusG	1.2
<i>PSPTO_1422</i>	<i>rrf2</i> family protein	1.19
<i>PSPTO_3861</i>	MarR family transcriptional regulator	1.18
<i>PSPTO_0134</i>	<i>algQ</i> , transcriptional regulator AlgQ	1.13
<i>PSPTO_3319</i>	TetR family transcriptional regulator	1.12
<i>PSPTO_2172</i>	LysR family transcriptional regulator	1.11
<i>PSPTO_0212</i>	DNA-binding transcriptional regulator LysR	1.09
<i>PSPTO_5242</i>	<i>rho</i> , transcription termination factor Rho	1.08
<i>PSPTO_1813</i>	hypothetical protein PSPTO_1813	1.08
<i>PSPTO_3017</i>	LacI family transcriptional regulator	1.07
<i>PSPTO_5311</i>	TetR family transcriptional regulator	1.06
<i>PSPTO_3076</i>	TetR family transcriptional regulator	1.06
<i>PSPTO_3617</i>	MarR family transcriptional regulator	1.06
<i>PSPTO_2945</i>	MarR family transcriptional regulator	1.04
<i>PSPTO_3980</i>	hypothetical protein PSPTO_3980	1.04
<i>PSPTO_1704</i>	NAD-dependent deacetylase	1.03
<i>PSPTO_2671</i>	GntR family transcriptional regulator	1.03
<i>PSPTO_0756</i>	transcriptional regulator	1.01
<i>PSPTO_2549</i>	sigma-54 dependent transcriptional regulator	-1.04
<i>PSPTO_1502</i>	TetR family transcriptional regulator	-1.05
<i>PSPTO_1645</i>	MarR family transcriptional regulator	-1.12
<i>PSPTO_2951</i>	sigma-54 dependent transcriptional regulator	-1.14
<i>PSPTO_4262</i>	TetR family transcriptional regulator	-1.15
<i>PSPTO_2370</i>	<i>rhsR</i> , ribose operon repressor	-1.16
<i>PSPTO_4528</i>	AraC family transcriptional regulator	-1.17

<i>PSPTO_2780</i>	IclR family transcriptional regulator	-1.18
<i>PSPTO_3741</i>	sigma-54 dependent transcriptional regulator	-1.19
<i>PSPTO_2827</i>	hypothetical protein PSPTO_2827, partial	-1.19
<i>PSPTO_0465</i>	AraC family transcriptional regulator	-1.23
<i>PSPTO_0619</i>	<i>rpoB</i> , DNA-directed RNA polymerase subunit beta	-1.25
<i>PSPTO_3355</i>	cold shock domain family protein	-1.26
<i>PSPTO_3056</i>	AraC family transcriptional regulator	-1.26
<i>PSPTO_0157</i>	<i>trpI</i> , <i>trpBA</i> operon transcriptional activator	-1.27
<i>PSPTO_3549</i>	<i>aefR</i> , transcriptional regulator AefR	-1.3
<i>PSPTO_2828</i>	<i>syrR</i> , transcriptional regulator SyrR	-1.35
<i>PSPTO_4302</i>	TetR family transcriptional regulator	-1.36
<i>PSPTO_2751</i>	LysR family transcriptional regulator	-1.38
<i>PSPTO_1286</i>	RNA polymerase sigma-70 family protein	-1.4
<i>PSPTO_4491</i>	<i>nusA</i> , N utilization substance protein A	-1.42
<i>PSPTO_2833</i>	LuxR family transcriptional regulator	-1.44
<i>PSPTO_4224</i>	<i>rpoE</i> , RNA polymerase sigma-24 factor	-1.45
<i>PSPTO_0032</i>	hypothetical protein PSPTO_0032	-1.45
<i>PSPTO_0620</i>	<i>rpoC</i> , DNA-directed RNA polymerase subunit beta'	-1.52
<i>PSPTO_3025</i>	DNA-binding protein	-1.55
<i>PSPTO_3540</i>	LysR family transcriptional regulator	-1.69
<i>PSPTO_5424</i>	sigma-54 dependent transcriptional regulator	-1.74
<i>PSPTO_0033</i>	ParB family protein	-2.74
<i>PSPTO_4775</i>	GntR family transcriptional regulator/aminotransferase, class I	-2.79
<i>PSPTO_3467</i>	sigma-54 dependent transcriptional regulator	-2.86
<i>PSPTO_3086</i>	transcriptional regulator	-4.13
Replication, recombination and repair		
<i>PSPTO_1775</i>	ATP-dependent RNA helicase, DEAD box family	2.98
<i>PSPTO_3638</i>	<i>recR</i> , recombination protein RecR	2.48
<i>PSPTO_0470</i>	exonuclease	2.27
<i>PSPTO_4120</i>	DinG family ATP-dependent helicase	2.16
<i>PSPTO_5007</i>	<i>dbpA</i> , ATP-independent RNA helicase DbpA	2.15
<i>PSPTO_4058</i>	<i>mutS</i> , DNA mismatch repair protein MutS	2.04
<i>PSPTO_4664</i>	ATP-dependent RNA helicase rhIE	2.01
<i>PSPTO_5070</i>	ATP-dependent RNA helicase rhIE	1.95
<i>PSPTO_2101</i>	<i>mfd</i> , transcription-repair coupling factor	1.94
<i>PSPTO_4181</i>	<i>mutT</i> /nudix family protein	1.91
<i>PSPTO_0700</i>	<i>xseB</i> , exodeoxyribonuclease VII small subunit	1.9
<i>PSPTO_4830</i>	3-methyladenine DNA glycosylase	1.86
<i>PSPTO_1587</i>	<i>srmB</i> , ATP-dependent RNA helicase SrmB	1.86
<i>PSPTO_1745</i>	<i>gyrA</i> , DNA gyrase subunit A	1.85
<i>PSPTO_2255</i>	TatD family hydrolase	1.83
<i>PSPTO_4033</i>	<i>recA</i> , recA protein	1.69
<i>PSPTO_3897</i>	recombination associated protein rdgC	1.68
<i>PSPTO_3711</i>	<i>dnaQ</i> , DNA polymerase III subunit epsilon	1.66
<i>PSPTO_5137</i>	<i>priA</i> , primosomal protein N'	1.65
<i>PSPTO_2478</i>	<i>topB</i> , DNA topoisomerase III	1.62
<i>PSPTO_3712</i>	<i>rnhA</i> , ribonuclease HI	1.62
<i>PSPTO_1703</i>	DNA replication initiation factor	1.6
<i>PSPTO_0113</i>	<i>rep</i> , ATP-dependent DNA helicase Rep	1.59

<i>PSPTO_4773</i>	ATP-dependent helicase, N-terminal domain protein, partial	1.52
<i>PSPTO_1446</i>	<i>xseA</i> , exodeoxyribonuclease VII large subunit	1.48
<i>PSPTO_3220</i>	ISPsy5, transposase	1.48
<i>PSPTO_2747</i>	<i>xthA</i> , exodeoxyribonuclease III	1.47
<i>PSPTO_0079</i>	exodeoxyribonuclease III	1.45
<i>PSPTO_4507</i>	<i>recN</i> , DNA repair protein RecN	1.39
<i>PSPTO_1418</i>	ISPsy6, transposase	1.27
<i>PSPTO_5516</i>	<i>uvrD</i> , DNA helicase II	1.26
<i>PSPTO_4665</i>	exonuclease	1.26
<i>PSPTO_4236</i>	<i>ung</i> , uracil-DNA glycosylase	1.24
<i>PSPTO_3161</i>	protein kinase	1.23
<i>PSPTO_4735</i>	ATP-dependent helicase HrpB	1.23
<i>PSPTO_5443</i>	ISPsy5, transposase	1.21
<i>PSPTO_1439</i>	ISPsy6, transposase	1.21
<i>PSPTO_5304</i>	ISPsy5, transposase	1.17
<i>PSPTO_1488</i>	<i>recJ</i> , single-stranded-DNA-specific exonuclease RecJ	1.13
<i>PSPTO_4419</i>	lipoprotein	1.13
<i>PSPTO_3221</i>	ISPsy5, Orf1	1.09
<i>PSPTO_0344</i>	<i>polI</i> , DNA polymerase I	1.07
<i>PSPTO_3734</i>	ISPsy6, transposase	1.06
<i>PSPTO_0183</i>	<i>tag</i> , DNA-3-methyladenine glycosidase I	1.02
<i>PSPTO_0414</i>	<i>mutM</i> , formamidopyrimidine-DNA glycosylase	1
<i>PSPTO_4751</i>	UvrD/REP helicase family protein	-1.01
<i>PSPTO_5472</i>	HU family DNA-binding protein	-1.07
<i>PSPTO_4748</i>	site-specific recombinase, phage integrase family	-1.07
<i>PSPTO_0778</i>	<i>recD</i> , exodeoxyribonuclease V subunit alpha	-1.09
<i>PSPTO_2857</i>	site-specific recombinase, phage integrase family	-1.09
<i>PSPTO_3357</i>	<i>mutT/nudix</i> family protein	-1.11
<i>PSPTO_2624</i>	hypothetical protein PSPTO_2624	-1.15
<i>PSPTO_3656</i>	<i>ligA</i> , NAD-dependent DNA ligase LigA	-1.16
<i>PSPTO_3465</i>	KU domain protein	-1.17
<i>PSPTO_5629</i>	insertion sequence	-1.17
<i>PSPTO_2860</i>	helicase domain-containing protein	-1.19
<i>PSPTO_4397</i>	<i>mutT/nudix</i> family protein	-1.22
<i>PSPTO_3427</i>	C-5 cytosine-specific DNA methylase family protein	-1.29
<i>PSPTO_2856</i>	site-specific recombinase, phage integrase family	-1.33
<i>PSPTO_1407</i>	ISPsy transposase or derivative	-1.37
<i>PSPTO_1270</i>	<i>holC</i> , DNA polymerase III subunit chi	-1.45
<i>PSPTO_0028</i>	transposase	-1.46
<i>PSPTO_0587</i>	site-specific recombinase, phage integrase family	-1.48
<i>PSPTO_2388</i>	ISPsy4, transposition helper protein	-1.49
<i>PSPTO_0037</i>	helicase domain-containing protein	-1.51
<i>PSPTO_3326</i>	group II intron, maturase	-1.58
<i>PSPTO_4604</i>	site-specific recombinase, phage integrase family	-1.59
<i>PSPTO_2976</i>	DNA topoisomerase, type I	-1.62
<i>PSPTO_0047</i>	UvrD/REP helicase family protein	-1.76
<i>PSPTO_3930</i>	retron reverse transcriptase	-2.15
Cell cycle control, cell division, chromosome partitioning		
<i>PSPTO_3837</i>	<i>maf-1</i> , maf protein	2.17

<i>PSPTO_3511</i>	<i>sulA</i> , cell division inhibitor	1.75
<i>PSPTO_5139</i>	hypothetical protein PSPTO_5139	1.72
<i>PSPTO_1684</i>	hypothetical protein PSPTO_1684	1.37
<i>PSPTO_0855</i>	ParA family protein	1.22
<i>PSPTO_3873</i>	<i>minD</i> , septum site-determining protein MinD	1.18
<i>PSPTO_3874</i>	<i>minE</i> , cell division topological specificity factor MinE	1.06
<i>PSPTO_3872</i>	<i>minC</i> , septum site-determining protein MinC	1.03
<i>PSPTO_1555</i>	hypothetical protein PSPTO_1555	-1.12
<i>PSPTO_5387</i>	stability cassette protein	-1.12
<i>PSPTO_4403</i>	cell division protein FtsZ	-2.33
Defense mechanisms		
<i>PSPTO_2110</i>	<i>lolD</i> , lipoprotein releasing system, ATP-binding protein LolD	1.94
<i>PSPTO_4984</i>	<i>msbA</i> , lipid A ABC transporter, ATP-binding/permease protein	1.82
<i>PSPTO_4119</i>	<i>estC</i> , carboxylesterase	1.64
<i>PSPTO_3172</i>	membrane protein	1.52
<i>PSPTO_0951</i>	AmpE protein	1.35
<i>PSPTO_0681</i>	permease	1.25
<i>PSPTO_3855</i>	ABC transporter ATP-binding protein	1.21
<i>PSPTO_3141</i>	undecaprenyl pyrophosphate phosphatase	1.15
<i>PSPTO_0950</i>	<i>ampD</i> , N-acetyl-anhydromuranmyl-L-alanine amidase	1.06
<i>PSPTO_1089</i>	type I restriction-modification enzyme, R subunit	-1.03
<i>PSPTO_0005</i>	type I restriction-modification system, M subunit	-1.06
<i>PSPTO_0008</i>	HsdR family type I site-specific deoxyribonuclease	-1.12
<i>PSPTO_2832</i>	<i>syfD</i> , syringafactin efflux protein SyfD	-1.16
<i>PSPTO_1087</i>	type I restriction-modification system subunit S	-1.16
<i>PSPTO_1653</i>	hypothetical protein PSPTO_1653	-1.42
<i>PSPTO_0285</i>	hypothetical protein PSPTO_0285	-1.43
<i>PSPTO_4303</i>	RND family efflux transporter MFP subunit	-1.45
<i>PSPTO_2831</i>	<i>syfC</i> , syringafactin efflux protein SyfC	-1.46
<i>PSPTO_0011</i>	hypothetical protein PSPTO_0011	-1.47
<i>PSPTO_0006</i>	type I restriction-modification system, S subunit, EcoA family	-1.47
<i>PSPTO_2428</i>	multidrug resistance protein NorM	-1.51
<i>PSPTO_0370</i>	MATE efflux family protein	-1.55
<i>PSPTO_2755</i>	AcrB/AcrD/AcrF family protein	-1.57
<i>PSPTO_2875</i>	ABC transporter ATP-binding protein	-1.73
<i>PSPTO_4304</i>	<i>saxB</i> , isothiocyanate resistance protein SaxB; isochorismatase family	-2.16
<i>PSPTO_2603</i>	ABC transporter ATP-binding protein/permease	-2.54
<i>PSPTO_2604</i>	ABC transporter ATP-binding protein/permease	-2.57
<i>PSPTO_1654</i>	hypothetical protein PSPTO_1654	-2.79
Signal transduction mechanisms		
<i>PSPTO_0471</i>	nucleotidyltransferase	3.55
<i>PSPTO_0969</i>	<i>dksA</i> , dnaK suppressor protein	3.52
<i>PSPTO_4638</i>	<i>cstA</i> , carbon starvation protein CstA	2.07
<i>PSPTO_0306</i>	sensory box/GGDEF domain/EAL domain-containing protein	2.04
<i>PSPTO_3900</i>	sensory box histidine kinase/response regulator	2.04
<i>PSPTO_0114</i>	GGDEF domain/EAL domain protein	1.7
<i>PSPTO_2118</i>	anti-anti-sigma factor	1.7
<i>PSPTO_5398</i>	sensor histidine kinase	1.65
<i>PSPTO_2117</i>	response regulator	1.61

<i>PSPTO_4027</i>	LuxR family DNA-binding response regulator	1.57
<i>PSPTO_0536</i>	sensory box/GGDEF domain/EAL domain-containing protein	1.54
<i>PSPTO_4896</i>	sensor histidine kinase	1.42
<i>PSPTO_4374</i>	<i>colR</i> , DNA-binding response regulator ColR	1.35
<i>PSPTO_2245</i>	<i>kdpD</i> , sensor protein KdpD	1.34
<i>PSPTO_2358</i>	hypothetical protein PSPTO_2358	1.34
<i>PSPTO_0897</i>	LuxR family DNA-binding response regulator	1.29
<i>PSPTO_3566</i>	carbon storage regulator	1.24
<i>PSPTO_3161</i>	protein kinase	1.23
<i>PSPTO_4554</i>	sensor histidine kinase	1.2
<i>PSPTO_1629</i>	<i>csrA-1</i> , carbon storage regulator	1.15
<i>PSPTO_3520</i>	universal stress protein family	1.11
<i>PSPTO_4373</i>	<i>colS</i> , sensor histidine kinase ColS	1.1
<i>PSPTO_0965</i>	sensor histidine kinase	1.1
<i>PSPTO_2215</i>	<i>sixA</i> , phosphohistidine phosphatase SixA	1.09
<i>PSPTO_2223</i>	DNA-binding response regulator	1.03
<i>PSPTO_1803</i>	sensor histidine kinase	1.01
<i>PSPTO_3603</i>	DNA-binding heavy metal response regulator	1.01
<i>PSPTO_0361</i>	<i>typA</i> , GTP-binding protein TypA	1
<i>PSPTO_4222</i>	<i>mucB</i> , sigma factor algU regulatory protein MucB	-1.01
<i>PSPTO_3246</i>	hypothetical protein PSPTO_3246	-1.03
<i>PSPTO_4293</i>	sensory box DNA/response regulator	-1.11
<i>PSPTO_2642</i>	sensor histidine kinase	-1.14
<i>PSPTO_2896</i>	sensory box histidine kinase/response regulator	-1.18
<i>PSPTO_4223</i>	<i>mucA</i> , sigma factor algU negative regulatory protein MucA	-1.2
<i>PSPTO_0915</i>	<i>cheY-1</i> , chemotaxis protein CheY	-1.21
<i>PSPTO_3699</i>	methyl-accepting chemotaxis protein	-1.21
<i>PSPTO_0339</i>	diguanylate cyclase	-1.22
<i>PSPTO_2591</i>	diguanylate cyclase	-1.27
<i>PSPTO_1348</i>	sensory box/GGDEF domain/EAL domain-containing protein	-1.27
<i>PSPTO_2131</i>	sensor histidine kinase	-1.33
<i>PSPTO_4365</i>	GGDEF domain/EAL domain protein	-1.34
<i>PSPTO_4784</i>	diguanylate cyclase	-1.34
<i>PSPTO_1278</i>	sensory box protein/response regulator	-1.35
<i>PSPTO_2128</i>	response regulator	-1.4
<i>PSPTO_0406</i>	sensory box/GGDEF domain/EAL domain-containing protein	-1.42
<i>PSPTO_2448</i>	methyl-accepting chemotaxis protein	-1.52
<i>PSPTO_0913</i>	<i>cheA-1</i> , chemotaxis sensor histidine kinase CheA	-1.56
<i>PSPTO_4079</i>	sensor histidine kinase/response regulator	-1.58
<i>PSPTO_0910</i>	<i>cheR-1</i> , chemotaxis protein methyltransferase CheR	-1.65
<i>PSPTO_5416</i>	serine/threonine protein kinase	-1.71
<i>PSPTO_1844</i>	<i>csrA-2</i> , carbon storage regulator	-1.76
<i>PSPTO_4705</i>	sensor histidine kinase CorS	-1.88
<i>PSPTO_1870</i>	sensory box histidine kinase/response regulator	-1.93
<i>PSPTO_0911</i>	<i>cheW-1</i> , chemotaxis protein CheW	-1.97
<i>PSPTO_4371</i>	<i>inaA</i> , inaA protein	-2.1
<i>PSPTO_0912</i>	methyl-accepting chemotaxis protein	-2.11
<i>PSPTO_5422</i>	FHA domain-containing protein	-2.33
<i>PSPTO_2129</i>	sensory box histidine kinase/response regulator	-2.37

<i>PSPTO_1246</i>	PhoH-like protein	-2.47
<i>PSPTO_4704</i>	DNA-binding response regulator CorR	-2.68
<i>PSPTO_2130</i>	LuxR family DNA-binding response regulator	-2.73
<i>PSPTO_5417</i>	serine/threonine phosphoprotein phosphatase	-2.9
<i>PSPTO_0547</i>	hypothetical protein PSPTO_0547	-3.02
<i>PSPTO_4080</i>	LuxR family DNA-binding response regulator	-3.07
Cell wall/membrane/envelope biogenesis		
<i>PSPTO_0977</i>	penicillin-binding protein	2.53
<i>PSPTO_2109</i>	<i>lolC</i> , lipoprotein releasing system transmembrane protein LolC	2.38
<i>PSPTO_0431</i>	<i>mtgA</i> , monofunctional biosynthetic peptidoglycan transglycosylase	2.2
<i>PSPTO_2189</i>	ompA family protein	2.02
<i>PSPTO_4448</i>	sugar isomerase	1.99
<i>PSPTO_4220</i>	<i>lepA</i> , GTP-binding protein LepA	1.94
<i>PSPTO_5283</i>	<i>lgt</i> , prolipoprotein diacylglycerol transferase	1.92
<i>PSPTO_4509</i>	<i>omlA</i> , outer membrane lipoprotein OmlA	1.7
<i>PSPTO_4182</i>	D-alanine--D-alanine ligase	1.69
<i>PSPTO_4813</i>	lipoprotein	1.66
<i>PSPTO_4945</i>	N-acetylmuramoyl-L-alanine amidase family protein	1.61
<i>PSPTO_4115</i>	lipoprotein SlyB	1.61
<i>PSPTO_5003</i>	<i>rfaF</i> , ADP-heptose--LPS heptosyltransferase II	1.6
<i>PSPTO_2056</i>	membrane protein	1.59
<i>PSPTO_3871</i>	<i>htrB</i> , lipid A biosynthesis lauroyl acyltransferase	1.59
<i>PSPTO_4470</i>	rod shape-determining protein MreD	1.58
<i>PSPTO_1330</i>	glycosyl transferase family protein	1.52
<i>PSPTO_0338</i>	N-acetylmuramoyl-L-alanine amidase family protein	1.51
<i>PSPTO_4392</i>	mechanosensitive ion channel family protein	1.49
<i>PSPTO_4471</i>	<i>mreC</i> , rod shape-determining protein MreC	1.49
<i>PSPTO_4985</i>	toluene tolerance protein	1.48
<i>PSPTO_0139</i>	hypothetical protein PSPTO_0139	1.45
<i>PSPTO_3113</i>	<i>galU</i> , UTP-glucose-1-phosphate uridylyltransferase	1.36
<i>PSPTO_3952</i>	lipoprotein	1.33
<i>PSPTO_1025</i>	transglycosylase	1.32
<i>PSPTO_0826</i>	competence lipoprotein ComL	1.31
<i>PSPTO_0182</i>	lipid A biosynthesis lauroyl acyltransferase	1.3
<i>PSPTO_5133</i>	penicillin-binding protein	1.29
<i>PSPTO_1067</i>	glycosyl transferase family protein	1.29
<i>PSPTO_2111</i>	<i>lolE</i> , lipoprotein releasing system transmembrane protein LolE	1.23
<i>PSPTO_4978</i>	<i>kdtA</i> , 3-deoxy-D-manno-octulosonic-acid transferase	1.2
<i>PSPTO_2509</i>	penicillin-binding protein	1.2
<i>PSPTO_4026</i>	<i>dggA</i> , diacylglycerol kinase	1.18
<i>PSPTO_1574</i>	mechanosensitive ion channel family protein	1.18
<i>PSPTO_1705</i>	NLP/P60 family protein	1.16
<i>PSPTO_5341</i>	hypothetical protein PSPTO_5341	1.15
<i>PSPTO_3845</i>	<i>lpxK</i> , tetraacyldisaccharide 4'-kinase	1.14
<i>PSPTO_5050</i>	<i>metW</i> , metW protein	1.13
<i>PSPTO_5193</i>	RND family efflux transporter MFP subunit	1.12
<i>PSPTO_1458</i>	periplasmic binding domain/transglycosylase SLT domain fusion protein	1.11
<i>PSPTO_2749</i>	hypothetical protein PSPTO_2749	1.1
<i>PSPTO_5002</i>	<i>waaC</i> , lipopolysaccharide heptosyltransferase	1.1

<i>PSPTO_4825</i>	penicillin-binding protein	1.05
<i>PSPTO_4414</i>	penicillin-binding protein	1.04
<i>PSPTO_2681</i>	<i>pbpG</i> , penicillin-binding protein 7	1.03
<i>PSPTO_1445</i>	peptidase, M23/M37 family	1.02
<i>PSPTO_1231</i>	insecticidal toxin protein	-1.02
<i>PSPTO_2554</i>	hypothetical protein PSPTO_2554	-1.05
<i>PSPTO_3328</i>	<i>tlhF</i> , ABC transporter permease	-1.08
<i>PSPTO_4405</i>	cell division protein FtsQ	-1.08
<i>PSPTO_2343</i>	outer membrane porin, OprD family	-1.1
<i>PSPTO_0373</i>	Rhs family protein	-1.22
<i>PSPTO_3885</i>	<i>prc</i> , tail-specific protease	-1.24
<i>PSPTO_1506</i>	ompA family protein	-1.26
<i>PSPTO_3536</i>	glycosyl transferase, group 1 family protein PslI	-1.32
<i>PSPTO_4385</i>	Rhs element Vgr protein	-1.33
<i>PSPTO_2481</i>	<i>tonB-2</i> , tonB protein	-1.36
<i>PSPTO_4305</i>	outer membrane efflux protein	-1.37
<i>PSPTO_1071</i>	glycosyl transferase family protein	-1.42
<i>PSPTO_4344</i>	insecticidal toxin protein	-1.44
<i>PSPTO_4343</i>	insecticidal toxin protein	-1.45
<i>PSPTO_3531</i>	lipoprotein PslD	-1.49
<i>PSPTO_1947</i>	glycosyl transferase family protein	-1.58
<i>PSPTO_2011</i>	autotransporter	-1.62
<i>PSPTO_3535</i>	glycosyl transferase, group 1 family protein PslH	-1.69
<i>PSPTO_3533</i>	glycosyl transferase, group 1 family protein PslF	-1.73
<i>PSPTO_3290</i>	outer membrane porin, OprD family	-1.76
<i>PSPTO_4340</i>	insecticidal toxin protein	-1.79
<i>PSPTO_5415</i>	Rhs element Vgr protein	-1.86
<i>PSPTO_1632</i>	GNAT family acetyltransferase	-1.87
<i>PSPTO_3238</i>	tonB protein	-1.91
<i>PSPTO_4560</i>	outer membrane porin, OprD family	-1.96
<i>PSPTO_3532</i>	exopolysaccharide biosynthesis protein PslE	-1.97
<i>PSPTO_1243</i>	<i>algD</i> , GDP-mannose 6-dehydrogenase AlgD	-1.98
<i>PSPTO_1242</i>	alginate biosynthesis protein Alg8	-1.99
<i>PSPTO_2756</i>	outer membrane efflux protein	-2
<i>PSPTO_3648</i>	<i>plcA1</i> , acid phosphatase	-2.19
<i>PSPTO_1918</i>	glycosyl transferase family protein	-2.27
<i>PSPTO_1296</i>	<i>oprB</i> , porin B	-2.29
<i>PSPTO_3987</i>	<i>oprD</i> , porin D	-2.45
<i>PSPTO_1946</i>	glycosyl transferase family protein	-2.6
<i>PSPTO_5436</i>	Rhs element Vgr protein	-2.67
<i>PSPTO_1241</i>	alginate biosynthesis protein Alg44	-2.72
<i>PSPTO_5418</i>	hypothetical protein PSPTO_5418	-2.93
<i>PSPTO_1240</i>	<i>algK</i> , alginate biosynthesis protein AlgK	-3.36
<i>PSPTO_1239</i>	<i>algE</i> , alginate biosynthesis protein AlgE	-3.49
<i>PSPTO_1238</i>	<i>algG</i> , alginate biosynthesis protein AlgG	-3.61
<i>PSPTO_1237</i>	<i>algX</i> , alginate biosynthesis protein AlgX	-3.65
<i>PSPTO_1235</i>	<i>algI</i> , alginate biosynthesis protein AlgI	-4.1
<i>PSPTO_1234</i>	<i>algJ</i> , alginate biosynthesis protein AlgJ	-4.56
<i>PSPTO_1233</i>	<i>algF</i> , alginate biosynthesis protein AlgF	-4.74

<i>PSPTO_1232</i>	<i>algA</i> , alginate biosynthesis protein AlgA	-5.04
Cell motility		
<i>PSPTO_1432</i>	<i>pilF</i> , type IV pilus biogenesis protein PilF	1.29
<i>PSPTO_3237</i>	methyl-accepting chemotaxis protein	-1.02
<i>PSPTO_1944</i>	<i>flgK</i> , flagellar hook-associated protein FlgK	-1.11
<i>PSPTO_1935</i>	<i>flgD</i> , basal-body rod modification protein FlgD	-1.17
<i>PSPTO_1985</i>	motB protein	-1.28
<i>PSPTO_1951</i>	<i>fliD</i> , flagellar hook-associated protein FliD	-1.4
<i>PSPTO_0910</i>	<i>cheR-1</i> , chemotaxis protein methyltransferase CheR	-1.65
<i>PSPTO_0815</i>	type IV pilus-associated protein	-1.7
<i>PSPTO_0911</i>	<i>cheW-1</i> , chemotaxis protein CheW	-1.97
<i>PSPTO_1945</i>	<i>flgL</i> , flagellar hook-associated protein FlgL	-2.07
<i>PSPTO_0912</i>	methyl-accepting chemotaxis protein	-2.11
<i>PSPTO_0924</i>	<i>pilD</i> , type IV pilus prepilin peptidase PilD	-2.12
<i>PSPTO_1949</i>	<i>fliC</i> , flagellin	-2.32
<i>PSPTO_1936</i>	<i>flgE-1</i> , flagellar hook protein FlgE	-2.36
<i>PSPTO_1950</i>	flagellin FlaG	-2.52
Intracellular trafficking, secretion, and vesicular transport		
<i>PSPTO_4219</i>	<i>lepB</i> , signal peptidase I	1.75
<i>PSPTO_3975</i>	tolQ protein	1.67
<i>PSPTO_3632</i>	<i>ccmD</i> , heme exporter protein CcmD	1.66
<i>PSPTO_4493</i>	<i>secG</i> , preprotein translocase subunit SecG	1.54
<i>PSPTO_4852</i>	hypothetical protein PSPTO_4852	1.3
<i>PSPTO_1432</i>	<i>pilF</i> , type IV pilus biogenesis protein PilF	1.29
<i>PSPTO_1416</i>	<i>secF</i> , protein-export membrane protein SecF	1.25
<i>PSPTO_4869</i>	membrane protein, MarC family	1.2
<i>PSPTO_5612</i>	inner membrane protein, 60 kDa	1.18
<i>PSPTO_1415</i>	<i>secD</i> , protein-export membrane protein SecD	1.18
<i>PSPTO_0810</i>	type IV pilus biogenesis protein	1.18
<i>PSPTO_5324</i>	<i>secB</i> , protein-export protein SecB	1.14
<i>PSPTO_5125</i>	hypothetical protein PSPTO_5125	1.12
<i>PSPTO_4853</i>	type II/IV secretion system protein	1.09
<i>PSPTO_4400</i>	<i>secA</i> , preprotein translocase subunit SecA	1.02
<i>PSPTO_3312</i>	general secretion pathway protein J	-1.01
<i>PSPTO_3307</i>	<i>gspD</i> , general secretion pathway protein D	-1.18
<i>PSPTO_0811</i>	pillin	-1.29
<i>PSPTO_3229</i>	filamentous hemagglutinin, intein-containing	-1.59
<i>PSPTO_2011</i>	autotransporter	-1.62
<i>PSPTO_0816</i>	type IV pilus biogenesis protein	-2
<i>PSPTO_0924</i>	<i>pilD</i> , type IV pilus prepilin peptidase PilD	-2.12
<i>PSPTO_0925</i>	<i>pilC</i> , type IV pilus biogenesis protein PilC	-2.39
Posttranslational modification, protein turnover, chaperones		
<i>PSPTO_4515</i>	<i>smpB</i> , SsrA-binding protein	2.97
<i>PSPTO_3028</i>	<i>ppiC-1</i> , peptidyl-prolyl cis-trans isomerase C	2.59
<i>PSPTO_1479</i>	<i>dsbC</i> , thiol:disulfide interchange protein DsbC	2.13
<i>PSPTO_4424</i>	<i>sspA</i> , stringent starvation protein A	2.07
<i>PSPTO_2285</i>	hypothetical protein PSPTO_2285	1.99
<i>PSPTO_3631</i>	<i>ccmE</i> , cytochrome c-type biogenesis protein CcmE	1.96
<i>PSPTO_1471</i>	membrane protein	1.95

<i>PSPTO_3107</i>	<i>ahpF</i> , alkyl hydroperoxide reductase subunit F	1.86
<i>PSPTO_2529</i>	FKBP-type peptidyl-prolyl cis-trans isomerase	1.82
<i>PSPTO_3856</i>	glutathione S-transferase family protein	1.81
<i>PSPTO_3727</i>	<i>tig</i> , trigger factor	1.81
<i>PSPTO_4435</i>	trypsin domain-containing protein	1.8
<i>PSPTO_3259</i>	peptidase, U32 family	1.8
<i>PSPTO_0540</i>	<i>gcp</i> , O-sialoglycoprotein endopeptidase	1.78
<i>PSPTO_3634</i>	<i>ccmB</i> , heme exporter protein CcmB	1.73
<i>PSPTO_4504</i>	<i>dnaJ</i> , dnaJ protein	1.62
<i>PSPTO_4581</i>	FKBP-type peptidyl-prolyl cis-trans isomerase	1.51
<i>PSPTO_4640</i>	<i>radA</i> , DNA repair protein RadA	1.47
<i>PSPTO_3633</i>	<i>ccmC</i> , heme exporter protein CcmC	1.46
<i>PSPTO_4992</i>	carbamoyltransferase family protein	1.45
<i>PSPTO_2034</i>	hypothetical protein PSPTO_2034	1.44
<i>PSPTO_4161</i>	glutaredoxin-like protein	1.4
<i>PSPTO_3890</i>	FKBP-type peptidyl-prolyl cis-trans isomerase	1.39
<i>PSPTO_5243</i>	<i>trx-2</i> , thioredoxin	1.38
<i>PSPTO_0341</i>	<i>dsbA</i> , thiol:disulfide interchange protein DsbA	1.38
<i>PSPTO_1178</i>	<i>trxB</i> , thioredoxin reductase	1.3
<i>PSPTO_4858</i>	<i>dsbD</i> , thiol:disulfide interchange protein DsbD	1.3
<i>PSPTO_3034</i>	<i>ppiC-2</i> , peptidyl-prolyl cis-trans isomerase C	1.29
<i>PSPTO_3635</i>	<i>ccmA</i> , heme exporter protein CcmA	1.29
<i>PSPTO_1778</i>	<i>htpX</i> , heat shock protein HtpX	1.29
<i>PSPTO_4898</i>	<i>yegD</i> , heat shock protein YegD	1.28
<i>PSPTO_1689</i>	lipoprotein	1.23
<i>PSPTO_5325</i>	glutaredoxin	1.21
<i>PSPTO_3955</i>	AhpC/Tsa family protein	1.21
<i>PSPTO_3630</i>	<i>ccmF</i> , cytochrome c-type biogenesis protein CcmF	1.17
<i>PSPTO_5140</i>	<i>hslV</i> , heat shock protein HslV	1.13
<i>PSPTO_0135</i>	FKBP-type peptidyl-prolyl cis-trans isomerase	1.09
<i>PSPTO_3901</i>	hypothetical protein PSPTO_3901	1.01
<i>PSPTO_0238</i>	<i>hslO</i> , chaperonin, 33 kDa	1.01
<i>PSPTO_2548</i>	clpB protein	-1.01
<i>PSPTO_1365</i>	glutathione S-transferase	-1.02
<i>PSPTO_4210</i>	<i>lon-2</i> , ATP-dependent protease La	-1.02
<i>PSPTO_4940</i>	<i>hflK</i> , hflK protein	-1.15
<i>PSPTO_0606</i>	hypothetical protein PSPTO_0606	-1.2
<i>PSPTO_5317</i>	antioxidant, AhpC/Tsa family	-1.33
<i>PSPTO_4398</i>	glutathione S-transferase family protein	-1.34
<i>PSPTO_4295</i>	DnaJ domain-containing protein	-1.47
<i>PSPTO_4254</i>	glutathione reductase	-1.5
<i>PSPTO_1688</i>	thioredoxin	-1.59
<i>PSPTO_3560</i>	GDA1/CD39 family protein	-1.62
<i>PSPTO_4260</i>	thioredoxin	-1.73
<i>PSPTO_5425</i>	clpB protein	-1.89
<i>PSPTO_0924</i>	<i>pilD</i> , type IV pilus prepilin peptidase PilD	-2.12
Energy production and conversion		
<i>PSPTO_4059</i>	<i>fdxA</i> , ferredoxin	2.81
<i>PSPTO_0722</i>	<i>ppa-1</i> , inorganic pyrophosphatase	2.29

<i>PSPTO_1136</i>	<i>mgo</i> , malate:quinone oxidoreductase	2.28
<i>PSPTO_5605</i>	<i>atpB</i> , F0F1 ATP synthase subunit A	2.07
<i>PSPTO_3920</i>	D-isomer specific 2-hydroxyacid dehydrogenase family protein	1.99
<i>PSPTO_0239</i>	<i>pckA</i> , phosphoenolpyruvate carboxykinase	1.96
<i>PSPTO_4981</i>	oxidoreductase, aldo/keto reductase family	1.86
<i>PSPTO_2194</i>	<i>gltA</i> , citrate synthase I	1.75
<i>PSPTO_5606</i>	<i>atpI</i> , F0F1 ATP synthase subunit I	1.62
<i>PSPTO_1325</i>	<i>cyoA</i> , cytochrome o ubiquinol oxidase subunit II	1.51
<i>PSPTO_5293</i>	oxidoreductase, FAD-binding protein	1.48
<i>PSPTO_1802</i>	nitroreductase family protein	1.34
<i>PSPTO_2107</i>	glycerophosphoryl diester phosphodiesterase	1.29
<i>PSPTO_5598</i>	<i>atpC</i> , F0F1 ATP synthase subunit epsilon	1.28
<i>PSPTO_0416</i>	ferredoxin	1.28
<i>PSPTO_5603</i>	<i>atpF</i> , F0F1 ATP synthase subunit B	1.26
<i>PSPTO_3039</i>	alcohol dehydrogenase	1.22
<i>PSPTO_4928</i>	hypothetical protein PSPTO_4928	1.22
<i>PSPTO_1173</i>	oxidoreductase FAD/FMN-binding protein	1.19
<i>PSPTO_5602</i>	<i>atpH</i> , F0F1 ATP synthase subunit delta	1.17
<i>PSPTO_2182</i>	oxidoreductase zinc-binding protein	1.13
<i>PSPTO_5601</i>	<i>atpA</i> , F0F1 ATP synthase subunit alpha	1.07
<i>PSPTO_0754</i>	alcohol dehydrogenase	1.06
<i>PSPTO_2195</i>	<i>sdhC</i> , succinate dehydrogenase, cytochrome b556 subunit	1.03
<i>PSPTO_2070</i>	cytochrome c2	1.01
<i>PSPTO_3924</i>	<i>sfcA</i> , malate dehydrogenase	1.01
<i>PSPTO_2957</i>	methanol dehydrogenase, NAD-dependent	-1
<i>PSPTO_2288</i>	<i>prpC</i> , 2-methylcitrate synthase	-1.04
<i>PSPTO_2435</i>	oxidoreductase, FAD-binding	-1.07
<i>PSPTO_2519</i>	oxidoreductase, FAD-binding protein	-1.09
<i>PSPTO_4615</i>	<i>ppa-2</i> , inorganic pyrophosphatase	-1.11
<i>PSPTO_3075</i>	oxidoreductase, aldo/keto reductase family	-1.13
<i>PSPTO_0986</i>	membrane protein	-1.16
<i>PSPTO_4358</i>	oxidoreductase FAD/FMN-binding protein	-1.16
<i>PSPTO_3323</i>	aldehyde dehydrogenase family protein	-1.18
<i>PSPTO_5006</i>	<i>aceF</i> , pyruvate dehydrogenase complex, E2 component, dihydrolipoamide acetyltransferase	-1.23
<i>PSPTO_5186</i>	DszA family monooxygenase	-1.29
<i>PSPTO_4689</i>	crotonyl-CoA reductase	-1.33
<i>PSPTO_2510</i>	<i>poxB</i> , pyruvate dehydrogenase	-1.36
<i>PSPTO_2861</i>	4Fe-4S binding protein, partial	-1.37
<i>PSPTO_0396</i>	NADH:flavin oxidoreductase/NADH oxidase family protein	-1.38
<i>PSPTO_2697</i>	oxidoreductase zinc-binding protein	-1.38
<i>PSPTO_3372</i>	<i>nuoI</i> , NADH dehydrogenase subunit I	-1.41
<i>PSPTO_2289</i>	aconitate hydratase	-1.42
<i>PSPTO_4256</i>	NADH:flavin oxidoreductase/NADH oxidase family protein	-1.42
<i>PSPTO_2203</i>	<i>sucD</i> , succinyl-CoA synthetase subunit alpha	-1.43
<i>PSPTO_3559</i>	malate synthase G	-1.45
<i>PSPTO_5240</i>	CDP-6-deoxy-delta-3,4-glucoseen reductase	-1.46
<i>PSPTO_2676</i>	<i>fdhA-2</i> , glutathione-independent formaldehyde dehydrogenase	-1.47
<i>PSPTO_3601</i>	hypothetical protein PSPTO_3601	-1.49
<i>PSPTO_2202</i>	<i>sucC</i> , succinyl-CoA synthetase subunit beta	-1.5

<i>PSPTO_2943</i>	<i>vdh</i> , vanillin dehydrogenase	-1.58
<i>PSPTO_1489</i>	xenobiotic reductase	-1.62
<i>PSPTO_2680</i>	<i>gabD-3</i> , succinate-semialdehyde dehydrogenase	-1.8
<i>PSPTO_2016</i>	<i>acnA</i> , aconitate hydratase 1	-1.89
<i>PSPTO_3064</i>	aldehyde dehydrogenase family protein	-1.89
<i>PSPTO_5072</i>	cytochrome b561	-1.94
<i>PSPTO_2405</i>	<i>xenA</i> , xenobiotic reductase A	-2.79
<i>PSPTO_0062</i>	citrate transporter	-3.08
<i>PSPTO_3466</i>	<i>ssuD</i> , alkanesulfonate monooxygenase	-3.1
<i>PSPTO_0834</i>	alcohol dehydrogenase	-3.78
Carbohydrate transport and metabolism		
<i>PSPTO_2305</i>	<i>lsc-2</i> , levansucrase	2.7
<i>PSPTO_1419</i>	<i>suhB</i> , inositol-1-monophosphatase	2.58
<i>PSPTO_5289</i>	<i>rpiA</i> , ribose 5-phosphate isomerase	2.5
<i>PSPTO_0566</i>	<i>rpe</i> , ribulose-phosphate 3-epimerase	2.22
<i>PSPTO_4524</i>	hypothetical protein PSPTO_4524	1.82
<i>PSPTO_4494</i>	<i>tpiA</i> , triosephosphate isomerase	1.79
<i>PSPTO_2688</i>	major facilitator family transporter	1.69
<i>PSPTO_4913</i>	hypothetical protein PSPTO_4913	1.52
<i>PSPTO_0999</i>	major facilitator family transporter	1.49
<i>PSPTO_3278</i>	hypothetical protein PSPTO_3278	1.42
<i>PSPTO_1716</i>	alpha-ribazole-5'-phosphate phosphatase	1.42
<i>PSPTO_5168</i>	<i>fbp</i> , fructose-1,6-bisphosphatase	1.41
<i>PSPTO_3986</i>	hypothetical protein PSPTO_3986	1.34
<i>PSPTO_3793</i>	<i>ppnK</i> , inorganic polyphosphate/ATP-NAD kinase	1.28
<i>PSPTO_1245</i>	polysaccharide deacetylase family protein	1.18
<i>PSPTO_1819</i>	major facilitator superfamily transporter	1.18
<i>PSPTO_4383</i>	AmpG protein	1.16
<i>PSPTO_4947</i>	hypothetical protein PSPTO_4947	1.11
<i>PSPTO_3507</i>	<i>nagZ</i> , beta-hexosaminidase	1.07
<i>PSPTO_1729</i>	membrane protein	1.05
<i>PSPTO_5327</i>	<i>gpmA</i> , phosphoglycerate mutase	1.04
<i>PSPTO_1612</i>	major facilitator family transporter	1.03
<i>PSPTO_0346</i>	<i>thrB</i> , homoserine kinase	1.02
<i>PSPTO_2292</i>	<i>ppsA</i> , phosphoenolpyruvate synthase	1.02
<i>PSPTO_0385</i>	<i>tkt</i> , transketolase	1.01
<i>PSPTO_2044</i>	transporter	1
<i>PSPTO_0563</i>	polyamine ABC transporter periplasmic polyamine-binding protein	-1.01
<i>PSPTO_2926</i>	multidrug transporter	-1.04
<i>PSPTO_2401</i>	transketolase	-1.07
<i>PSPTO_2761</i>	alpha-amylase family protein	-1.13
<i>PSPTO_3534</i>	glycosyl hydrolase, family 5 PsIG	-1.14
<i>PSPTO_1707</i>	L-sorbose dehydrogenase	-1.15
<i>PSPTO_3121</i>	<i>zwf-2</i> , glucose-6-phosphate 1-dehydrogenase	-1.15
<i>PSPTO_2369</i>	<i>rbsC-1</i> , ribose ABC transporter permease	-1.17
<i>PSPTO_3004</i>	<i>xylG</i> , xylose transporter ATP-binding subunit	-1.23
<i>PSPTO_1051</i>	<i>dctP</i> , TRAP dicarboxylate transporter subunit DctP	-1.23
<i>PSPTO_2731</i>	periplasmic sugar-binding domain protein	-1.26
<i>PSPTO_3737</i>	ABC transporter permease	-1.27

<i>PSPTO_1294</i>	glucose ABC transporter permease	-1.28
<i>PSPTO_3002</i>	<i>xylA</i> , xylose isomerase	-1.3
<i>PSPTO_2368</i>	<i>rbsA</i> -1, ribose ABC transporter ATP-binding protein	-1.31
<i>PSPTO_2470</i>	senescence marker protein-30 family protein	-1.34
<i>PSPTO_3496</i>	<i>iolI</i> , iolI protein	-1.39
<i>PSPTO_5219</i>	MFS transporter, phthalate permease family	-1.4
<i>PSPTO_1295</i>	<i>gltK</i> , glucose ABC transporter ATP-binding protein	-1.4
<i>PSPTO_5165</i>	<i>glgP</i> , glycogen phosphorylase	-1.41
<i>PSPTO_2400</i>	ribose ABC transporter permease	-1.46
<i>PSPTO_1298</i>	hypothetical protein PSPTO_1298	-1.47
<i>PSPTO_3003</i>	<i>xylF</i> , D-xylose ABC transporter, periplasmic-D xylose binding protein	-1.47
<i>PSPTO_1345</i>	<i>gnl</i> , gluconolactonase	-1.48
<i>PSPTO_2638</i>	<i>abp</i> , L-arabinose ABC transporter periplasmic L-arabinose-binding protein	-1.48
<i>PSPTO_2180</i>	MFS transporter, phthalate permease family	-1.54
<i>PSPTO_1293</i>	glucose ABC transporter permease	-1.54
<i>PSPTO_2762</i>	<i>glgB</i> , 1,4- α -glucan-branching protein	-1.54
<i>PSPTO_2765</i>	hypothetical protein PSPTO_2765	-1.56
<i>PSPTO_2667</i>	spermidine/putrescine ABC transporter periplasmic spermidine/putrescine-binding protein	-1.61
<i>PSPTO_3560</i>	GDA1/CD39 family protein	-1.62
<i>PSPTO_4296</i>	metabolite-proton symporter	-1.68
<i>PSPTO_3125</i>	<i>glgA</i> , glycogen synthase	-1.76
<i>PSPTO_1292</i>	glucose ABC transporter, periplasmic glucose-binding protein	-1.77
<i>PSPTO_5340</i>	MFS permease-like protein	-1.78
<i>PSPTO_2493</i>	glycosyl hydrolase family protein	-1.82
<i>PSPTO_4548</i>	MFS transporter, phthalate permease family	-1.87
<i>PSPTO_3735</i>	ABC transporter periplasmic substrate-binding protein	-1.93
<i>PSPTO_0838</i>	major facilitator family transporter	-1.95
<i>PSPTO_3740</i>	ABC transporter ATP-binding protein	-2.06
<i>PSPTO_3739</i>	ABC transporter ATP-binding protein	-2.08
<i>PSPTO_3126</i>	α -amylase family protein	-2.11
<i>PSPTO_3130</i>	<i>glgX</i> , glycogen operon protein GlgX	-2.13
<i>PSPTO_4306</i>	<i>pcaT</i> , dicarboxylic acid transport protein	-2.18
<i>PSPTO_2640</i>	<i>araH</i> , L-arabinose transporter permease protein	-2.18
<i>PSPTO_3128</i>	glycosyl hydrolase family protein	-2.2
<i>PSPTO_3018</i>	hypothetical protein PSPTO_3018	-2.36
<i>PSPTO_2399</i>	ribose ABC transporter periplasmic ribose-binding protein	-2.43
<i>PSPTO_3127</i>	<i>malQ</i> , 4- α -glucanotransferase	-2.5
<i>PSPTO_0202</i>	membrane protein	-2.61
<i>PSPTO_3493</i>	<i>iolH</i> protein	-2.8
<i>PSPTO_2473</i>	periplasmic substrate-binding protein	-3.23
<i>PSPTO_2701</i>	fructokinase	-3.26
<i>PSPTO_2703</i>	<i>uxuB</i> , D-mannonate oxidoreductase	-3.49
<i>PSPTO_2601</i>	membrane protein	-3.51
<i>PSPTO_1236</i>	<i>algL</i> , alginate lyase	-3.76
<i>PSPTO_2702</i>	<i>xylB</i> , xylulokinase	-3.78
Amino acid transport and metabolism		
<i>PSPTO_2206</i>	<i>brnQ</i> , branched-chain amino acid transport system II carrier protein	2.74
<i>PSPTO_1421</i>	<i>cysE</i> , serine O-acetyltransferase	2.58
<i>PSPTO_1760</i>	threonine/serine transporter	2.56

<i>PSPTO_4938</i>	ATP phosphoribosyltransferase regulatory subunit	2.53
<i>PSPTO_1817</i>	aromatic amino acid permease	2.46
<i>PSPTO_2055</i>	<i>speE</i> , spermidine synthase	2.28
<i>PSPTO_0272</i>	<i>iscS-1</i> , cysteine desulfurase	1.98
<i>PSPTO_3953</i>	<i>dapA</i> , dihydrodipicolinate synthase	1.91
<i>PSPTO_4503</i>	<i>dapB</i> , dihydrodipicolinate reductase	1.91
<i>PSPTO_4957</i>	ACT domain protein/phosphoserine phosphatase SerB	1.91
<i>PSPTO_1147</i>	LysE family transporter	1.91
<i>PSPTO_5294</i>	<i>serA</i> , D-3-phosphoglycerate dehydrogenase	1.91
<i>PSPTO_4632</i>	<i>glyA-2</i> , serine hydroxymethyltransferase	1.88
<i>PSPTO_0169</i>	<i>aroE</i> , shikimate 5-dehydrogenase	1.79
<i>PSPTO_3876</i>	aspartyl aminopeptidase	1.77
<i>PSPTO_0316</i>	<i>gcvT-1</i> , glycine cleavage system T protein	1.73
<i>PSPTO_5069</i>	<i>metF</i> , 5,10-methylenetetrahydrofolate reductase	1.71
<i>PSPTO_4829</i>	<i>proA</i> , gamma-glutamyl phosphate reductase	1.7
<i>PSPTO_0793</i>	<i>seld</i> , selenide, water dikinase	1.69
<i>PSPTO_1828</i>	arginine/ornithine ABC transporter, permease protein	1.65
<i>PSPTO_1772</i>	phospho-2-dehydro-3-deoxyheptonate aldolase	1.63
<i>PSPTO_1480</i>	<i>hom</i> , homoserine dehydrogenase	1.6
<i>PSPTO_2043</i>	<i>aroC</i> , chorismate synthase	1.59
<i>PSPTO_5049</i>	homoserine O-acetyltransferase	1.56
<i>PSPTO_0568</i>	<i>trpE</i> , anthranilate synthase, component I	1.52
<i>PSPTO_5047</i>	<i>proC</i> , pyrroline-5-carboxylate reductase	1.52
<i>PSPTO_1827</i>	arginine/ornithine ABC transporter, permease protein	1.51
<i>PSPTO_1041</i>	<i>aroA</i> , 3-phosphoshikimate 1-carboxyvinyltransferase	1.49
<i>PSPTO_5074</i>	amine oxidase, flavin-containing protein	1.43
<i>PSPTO_0125</i>	<i>argH</i> , argininosuccinate lyase	1.43
<i>PSPTO_1523</i>	<i>dapE</i> , succinyl-diaminopimelate desuccinylase	1.43
<i>PSPTO_5058</i>	class I and II aminotransferase	1.43
<i>PSPTO_3816</i>	<i>trpF</i> , N-(5'-phosphoribosyl)anthranilate isomerase	1.43
<i>PSPTO_1481</i>	<i>thrC</i> , threonine synthase	1.43
<i>PSPTO_3954</i>	hypothetical protein PSPTO_3954	1.42
<i>PSPTO_1779</i>	class I and II aminotransferase	1.41
<i>PSPTO_0225</i>	<i>lsyA-2</i> , diaminopimelate decarboxylase	1.4
<i>PSPTO_0598</i>	<i>speD</i> , S-adenosylmethionine decarboxylase	1.4
<i>PSPTO_0140</i>	homoserine/homoserine lactone efflux protein	1.39
<i>PSPTO_0774</i>	beta-alanine--pyruvate aminotransferase	1.36
<i>PSPTO_1639</i>	bifunctional tRNA-methyltransferase/FAD-dependent oxidoreductase	1.34
<i>PSPTO_1692</i>	<i>cysM</i> , cysteine synthase B	1.34
<i>PSPTO_4164</i>	<i>argF</i> , ornithine carbamoyltransferase	1.31
<i>PSPTO_3810</i>	<i>metZ</i> , O-succinylhomoserine sulfhydrylase	1.31
<i>PSPTO_0186</i>	D,D-heptose 1,7-bisphosphate phosphatase	1.28
<i>PSPTO_5126</i>	<i>aroB</i> , 3-dehydroquinate synthase	1.26
<i>PSPTO_1528</i>	tetrahydrodipicolinate succinylase	1.25
<i>PSPTO_5500</i>	sodium/alanine transporter	1.19
<i>PSPTO_0280</i>	methionine aminopeptidase	1.18
<i>PSPTO_5335</i>	<i>hisA</i> , phosphoribosylformimino-5-aminoimidazole carboxamide ribotide isomerase	1.17
<i>PSPTO_4155</i>	<i>argG</i> , argininosuccinate synthase	1.1
<i>PSPTO_5501</i>	<i>ansA</i> , L-asparaginase I	1.09

<i>PSPTO_4572</i>	pyridoxal-dependent decarboxylase, pyridoxal binding domain protein	1.06
<i>PSPTO_0970</i>	class I and II aminotransferase	1.06
<i>PSPTO_1729</i>	membrane protein	1.05
<i>PSPTO_5179</i>	D-cysteine desulphydrase	1.04
<i>PSPTO_0317</i>	<i>gcvH-1</i> , glycine cleavage system H protein	1.03
<i>PSPTO_5334</i>	<i>hisF</i> , Imidazole glycerol phosphate synthase cyclase subunit	1.03
<i>PSPTO_4165</i>	ABC transporter ATP-binding protein	1.02
<i>PSPTO_1332</i>	<i>ilvE</i> , branched-chain amino acid aminotransferase	1.01
<i>PSPTO_2163</i>	<i>aspC</i> , aspartate aminotransferase	1
<i>PSPTO_2781</i>	hypothetical protein PSPTO_2781	-1.01
<i>PSPTO_2522</i>	ABC transporter permease	-1.05
<i>PSPTO_5307</i>	putrescine ABC transporter periplasmic putrescine-binding protein	-1.06
<i>PSPTO_3060</i>	glycine betaine/L-proline ABC transporter ATP-binding protein	-1.06
<i>PSPTO_3059</i>	glycine betaine/L-proline ABC transporter permease	-1.07
<i>PSPTO_2960</i>	pyridoxal-phosphate dependent enzyme family/ornithine cyclodeaminase family protein	-1.08
<i>PSPTO_4561</i>	<i>dppA</i> , dipeptide ABC transporter substrate-binding protein	-1.09
<i>PSPTO_2988</i>	branched-chain amino acid ABC transporter permease	-1.1
<i>PSPTO_2155</i>	class V aminotransferase	-1.11
<i>PSPTO_3717</i>	ABC transporter substrate-binding protein	-1.12
<i>PSPTO_3780</i>	glutathionylspermidine synthase	-1.13
<i>PSPTO_4112</i>	high-affinity amino acid ABC transporter, ATP-binding protein	-1.13
<i>PSPTO_5182</i>	putative amino-acid ABC transporter ATP-binding protein YecC	-1.13
<i>PSPTO_2427</i>	serine hydroxymethyltransferase	-1.14
<i>PSPTO_2451</i>	<i>soxD-2</i> , sarcosine oxidase subunit delta	-1.15
<i>PSPTO_3881</i>	polyamine ABC transporter permease	-1.16
<i>PSPTO_4915</i>	high affinity branched-chain amino acid ABC transporter ATP-binding protein	-1.17
<i>PSPTO_2915</i>	glutamine ABC transporter, permease protein	-1.17
<i>PSPTO_4577</i>	glycine betaine/choline OpuC ABC transporter, periplasmic substrate-binding protein	-1.19
<i>PSPTO_3058</i>	glycine betaine transporter periplasmic subunit	-1.19
<i>PSPTO_3084</i>	glutamine/glutamate ABC transporter, permease protein	-1.21
<i>PSPTO_1631</i>	hypothetical protein PSPTO_1631	-1.22
<i>PSPTO_5306</i>	putrescine ABC transporter periplasmic putrescine-binding protein	-1.26
<i>PSPTO_2812</i>	peptide ABC transporter ATP-binding protein	-1.26
<i>PSPTO_2913</i>	glutamine ABC transporter ATP-binding protein	-1.28
<i>PSPTO_4557</i>	peptide ABC transporter periplasmic peptide-binding protein	-1.33
<i>PSPTO_2665</i>	spermidine/putrescine ABC transporter permease	-1.34
<i>PSPTO_4916</i>	high affinity branched-chain amino acid ABC transporter ATP-binding protein	-1.36
<i>PSPTO_0457</i>	<i>soxG-1</i> , sarcosine oxidase, gamma subunit	-1.36
<i>PSPTO_0459</i>	<i>soxD-1</i> , sarcosine oxidase subunit delta	-1.37
<i>PSPTO_4917</i>	<i>braE</i> , high-affinity branched-chain amino acid ABC transporter, permease protein BraE	-1.42
<i>PSPTO_3252</i>	dipeptide ABC transporter ATP-binding protein	-1.43
<i>PSPTO_0524</i>	peptidase, M20/M25/M40 family	-1.43
<i>PSPTO_1622</i>	glycine betaine-binding protein	-1.44
<i>PSPTO_4919</i>	high affinity branched-chain amino acid ABC transporter periplasmic amino acid-binding protein	-1.45
<i>PSPTO_4918</i>	<i>braD</i> , high-affinity branched-chain amino acid ABC transporter, permease protein BraD	-1.45
<i>PSPTO_4559</i>	dipeptide ABC transporter substrate-binding protein	-1.48
<i>PSPTO_3251</i>	dipeptide ABC transporter ATP-binding protein	-1.49

<i>PSPTO_2504</i>	efflux protein, LysE family	-1.51
<i>PSPTO_0460</i>	<i>soxB-1</i> , sarcosine oxidase, beta subunit	-1.55
<i>PSPTO_1343</i>	hypothetical protein PSPTO_1343	-1.58
<i>PSPTO_0394</i>	renal dipeptidase family protein	-1.59
<i>PSPTO_1633</i>	<i>asnB</i> , asparagine synthetase	-1.59
<i>PSPTO_3085</i>	glutamine/glutamate ABC transporter, permease protein	-1.63
<i>PSPTO_1221</i>	LysE family transporter	-1.65
<i>PSPTO_4111</i>	leucine/isoleucine/valine transporter ATP-binding subunit	-1.69
<i>PSPTO_4136</i>	amino acid ABC transporter substrate-binding protein	-1.71
<i>PSPTO_3495</i>	iolD protein	-1.73
<i>PSPTO_0817</i>	oxidoreductase, FAD-binding protein	-1.75
<i>PSPTO_0203</i>	cysteine synthase	-1.78
<i>PSPTO_3063</i>	dihydrodipicolinate synthase	-1.85
<i>PSPTO_4110</i>	leucine/isoleucine/valine transporter permease subunit	-1.96
<i>PSPTO_2777</i>	amino acid ABC transporter permease	-2.04
<i>PSPTO_2775</i>	amino acid ABC transporter substrate-binding protein	-2.05
<i>PSPTO_0461</i>	<i>glyA-1</i> , serine hydroxymethyltransferase	-2.22
<i>PSPTO_2776</i>	amino acid ABC transporter permease	-2.23
<i>PSPTO_0458</i>	<i>soxA-1</i> , sarcosine oxidase, alpha subunit	-2.36
<i>PSPTO_1258</i>	amino acid ABC transporter ATP-binding protein	-2.48
<i>PSPTO_1255</i>	amino acid ABC transporter substrate-binding protein	-2.54
<i>PSPTO_1257</i>	amino acid ABC transporter permease	-2.56
<i>PSPTO_4558</i>	dipeptide ABC transporter, periplasmic dipeptide-binding protein	-2.61
<i>PSPTO_4109</i>	high-affinity branched-chain amino acid ABC transporter permease	-2.72
<i>PSPTO_1256</i>	amino acid ABC transporter permease	-2.77
<i>PSPTO_2430</i>	pyridoxal-phosphate dependent enzyme family protein	-3.28
<i>PSPTO_0873</i>	amidinotransferase family protein	-4.85
Nucleotide transport and metabolism		
<i>PSPTO_1700</i>	<i>purM</i> ,phosphoribosylformylglycinamide cyclo-ligase	2.81
<i>PSPTO_2028</i>	<i>pyrF</i> , orotidine 5-phosphate decarboxylase	2.7
<i>PSPTO_3750</i>	hypothetical protein PSPTO_3750	2.63
<i>PSPTO_4937</i>	<i>purA</i> , adenylosuccinate synthetase	2.31
<i>PSPTO_1509</i>	<i>adk</i> , adenylate kinase	2.19
<i>PSPTO_1699</i>	<i>purN</i> , phosphoribosylglycinamide formyltransferase	2.17
<i>PSPTO_2309</i>	<i>pyrD</i> , dihydroorotate dehydrogenase	1.96
<i>PSPTO_3360</i>	<i>purB</i> , adenylosuccinate lyase	1.85
<i>PSPTO_1468</i>	<i>purT</i> , phosphoribosylglycinamide formyltransferase 2	1.74
<i>PSPTO_1459</i>	<i>purL</i> ,phosphoribosylformylglycinamide synthase	1.65
<i>PSPTO_5282</i>	<i>thyA</i> , thymidylate synthase	1.58
<i>PSPTO_4314</i>	<i>purU-3</i> , formyltetrahydrofolate deformylase	1.58
<i>PSPTO_0080</i>	<i>pyrE</i> , orotate phosphoribosyltransferase	1.54
<i>PSPTO_1130</i>	<i>upp</i> , uracil phosphoribosyltransferase	1.52
<i>PSPTO_0075</i>	<i>gmk</i> , guanylate kinase	1.37
<i>PSPTO_1449</i>	<i>guaB</i> , inosine 5'-monophosphate dehydrogenase	1.35
<i>PSPTO_3986</i>	hypothetical protein PSPTO_3986	1.34
<i>PSPTO_4502</i>	<i>carA</i> , carbamoyl-phosphate synthase small subunit	1.23
<i>PSPTO_5051</i>	Ham1 protein	1.21
<i>PSPTO_0112</i>	<i>xpt</i> , xanthine phosphoribosyltransferase	1.2
<i>PSPTO_4795</i>	AMP nucleosidase	1.19

<i>PSPTO_5249</i>	<i>ppx</i> , exopolyphosphatase	1.18
<i>PSPTO_4144</i>	deoxycytidine triphosphate deaminase	1.1
<i>PSPTO_1552</i>	<i>pyrG</i> , CTP synthase	1.05
<i>PSPTO_1990</i>	<i>apt</i> , adenine phosphoribosyltransferase	1.03
<i>PSPTO_3663</i>	<i>guaD</i> , guanine aminohydrolase	-1.01
<i>PSPTO_3043</i>	5'-nucleotidase	-1.05
<i>PSPTO_4975</i>	cytosine/purines uracil thiamine allantoin permease	-1.15
<i>PSPTO_0043</i>	cytidine/deoxycytidylate deaminase family protein	-1.71
<i>PSPTO_2862</i>	oxidoreductase, molybdopterin-binding subunit	-1.82
<i>PSPTO_1671</i>	<i>nrdA</i> , ribonucleotide-diphosphate reductase subunit alpha	-2.03
<i>PSPTO_1694</i>	<i>relA</i> , GTP pyrophosphokinase	-4.02
Coenzyme transport and metabolism		
<i>PSPTO_3959</i>	<i>nadA</i> , quinolinate synthetase	3.44
<i>PSPTO_0796</i>	<i>ispB</i> , octylprenyl diphosphate synthase	2.81
<i>PSPTO_1708</i>	<i>cobO</i> , cob(I)alamin adenosyltransferasehrpA	2.69
<i>PSPTO_1709</i>	cobyrinic acid a,c-diamide synthase	2.62
<i>PSPTO_3733</i>	<i>folD-2</i> , methylenetetrahydrofolate dehydrogenase/ methenyltetrahydrofolate cyclohydrolase	2.49
<i>PSPTO_0691</i>	<i>ribE</i> , riboflavin synthase subunit alpha	2.34
<i>PSPTO_0170</i>	<i>hemF</i> , coproporphyrinogen III oxidase	2.3
<i>PSPTO_0961</i>	<i>panB</i> , 3-methyl-2-oxobutanoate hydroxymethyltransferase	2.19
<i>PSPTO_5227</i>	5-formyltetrahydrofolate cyclo-ligase	2.18
<i>PSPTO_5476</i>	<i>ubiA</i> , 4-hydroxybenzoate octaprenyltransferase	2.1
<i>PSPTO_4798</i>	bifunctional hydroxy-methylpyrimidine kinase/ hydroxy-phosphomethylpyrimidine kinase	2.09
<i>PSPTO_1710</i>	nitroreductase family protein	2.06
<i>PSPTO_0690</i>	<i>ribD</i> , riboflavin biosynthesis protein RibD	2.02
<i>PSPTO_1711</i>	<i>cobD</i> , cobalamin biosynthesis protein CobD	1.95
<i>PSPTO_2578</i>	hypothetical protein PSPTO_2578	1.93
<i>PSPTO_1525</i>	ThiF family protein	1.88
<i>PSPTO_4799</i>	<i>thiE</i> , thiamine-phosphate pyrophosphorylase	1.87
<i>PSPTO_3142</i>	nicotinamide mononucleotide transporter PnuC	1.87
<i>PSPTO_0692</i>	<i>ribBA-1</i> , bifunctional 3,4-dihydroxy-2-butanone 4-phosphate synthase/GTP cyclohydrolase II-like protein	1.86
<i>PSPTO_0960</i>	<i>panC</i> , pantoate--beta-alanine ligase	1.84
<i>PSPTO_3969</i>	radical SAM domain-containing protein	1.83
<i>PSPTO_4800</i>	<i>hemL</i> , glutamate-1-semialdehyde-2,1-aminomutase	1.82
<i>PSPTO_1713</i>	<i>cobQ</i> , cobyrinic acid synthase	1.82
<i>PSPTO_4878</i>	<i>cobL</i> , precorrin-6Y C5,15-methyltransferase	1.79
<i>PSPTO_5118</i>	<i>hemE</i> , uroporphyrinogen decarboxylase	1.72
<i>PSPTO_2019</i>	<i>pdxB</i> , erythronate-4-phosphate dehydrogenase	1.72
<i>PSPTO_0599</i>	hypothetical protein PSPTO_0599	1.71
<i>PSPTO_5068</i>	<i>ahcY</i> , adenosylhomocysteinase	1.71
<i>PSPTO_4876</i>	<i>cobH</i> , precorrin-8X methylmutase	1.66
<i>PSPTO_1715</i>	<i>cobT</i> , nicotinate-nucleotide--dimethylbenzimidazole phosphoribosyltransferase	1.66
<i>PSPTO_0434</i>	<i>thiG</i> , thiazole biosynthesis protein ThiG	1.64
<i>PSPTO_2035</i>	<i>folE-2</i> , GTP cyclohydrolase I	1.62
<i>PSPTO_0699</i>	<i>ispA</i> , geranyltranstransferase	1.61
<i>PSPTO_4879</i>	<i>cbiD</i> , cobalamin biosynthesis protein CbiD	1.6
<i>PSPTO_0360</i>	<i>thiI</i> , thiamin biosynthesis protein ThiI	1.57
<i>PSPTO_1714</i>	<i>cobP</i> , cobinamide kinase/cobinamide phosphate guanylyltransferase	1.56

PSPTO_5475	chorismate-pyruvate lyase	1.54
PSPTO_5150	<i>ubiE</i> , ubiquinone/menaquinone biosynthesis methyltransferase UbiE	1.52
PSPTO_0437	<i>folA</i> , dihydrofolate reductase	1.51
PSPTO_0417	pantetheine-phosphate adenylyltransferase	1.49
PSPTO_0433	<i>thiS</i> , thiamine biosynthesis protein ThiS	1.49
PSPTO_4877	cobalamin biosynthesis protein CobG	1.44
PSPTO_5075	<i>bioA</i> , adenosylmethionine--8-amino-7-oxononanoate transaminase	1.4
PSPTO_0696	<i>ribA</i> , GTP cyclohydrolase II	1.37
PSPTO_4880	cobalt-precorrin-6x reductase	1.35
PSPTO_0805	<i>ribF</i> , riboflavin biosynthesis protein RibF	1.34
PSPTO_0962	<i>folK-2</i> , 2-amino-4-hydroxy-6-hydroxymethyldihydropteridine pyrophosphokinase	1.27
PSPTO_4875	<i>cobI</i> , precorrin-2 C(20)-methyltransferase	1.26
PSPTO_0948	<i>nadC</i> , nicotinate-nucleotide pyrophosphorylase	1.25
PSPTO_4922	<i>nadE</i> , NH(3)-dependent NAD(+) synthetase	1.23
PSPTO_0698	<i>dxs</i> , deoxyxylulose-5-phosphate synthase	1.2
PSPTO_0085	<i>coaBC</i> , phosphopantothenoylcysteine decarboxylase/phosphopantothenate--cysteine ligase	1.2
PSPTO_4818	<i>lipA</i> , lipoic acid synthetase	1.18
PSPTO_4828	<i>nadD</i> , nicotinate (nicotinamide) nucleotide adenylyltransferase	1.11
PSPTO_5035	<i>gshB</i> , glutathione synthetase	1.1
PSPTO_0128	<i>hemC</i> , porphobilinogen deaminase	1.08
PSPTO_0542	<i>folB-1</i> , dihydroneopterin aldolase	1.06
PSPTO_4225	<i>nadB</i> , L-aspartate oxidase	1.05
PSPTO_4921	<i>pncB</i> , nicotinate phosphoribosyltransferase	1.05
PSPTO_1108	<i>hemA</i> , glutamyl-tRNA reductase	1.03
PSPTO_2352	<i>moaB</i> , molybdenum cofactor biosynthesis protein B	1.02
PSPTO_1717	<i>cobS</i> , cobalamin (5'-phosphate) synthase	1.02
PSPTO_3147	hypothetical protein PSPTO_3147	-1
PSPTO_1738	hypothetical protein PSPTO_1738	-1.04
PSPTO_3149	cobaltochelate subunit CobN	-1.07
PSPTO_3148	magnesium chelate, subunit ChII	-1.1
PSPTO_0511	<i>pqqC</i> , coenzyme PQQ synthesis protein C	-1.13
PSPTO_3553	<i>hppD</i> , 4-hydroxyphenylpyruvate dioxygenase	-1.29
PSPTO_5240	CDP-6-deoxy-delta-3,4-glucoseen reductase	-1.46
PSPTO_5313	molybdenum-pterin binding domain-containing protein	-2.12
PSPTO_5086	<i>mdcB</i> , 2-(5'-triphosphoribosyl)-3'-dephosphocoenzyme-A synthase	-2.41
PSPTO_2595	isochorismate synthase	-2.9
PSPTO_4976	<i>thiC</i> , thiamin biosynthesis protein ThiC	-3.11
PSPTO_2105	thiamine biosynthesis lipoprotein	-3.5
PSPTO_0835	<i>ribD</i> , C-terminal domain protein, partial	-3.5
Lipid transport and metabolism		
PSPTO_1105	<i>ispE</i> , 4-diphosphocytidyl-2-C-methyl-D-erythritol kinase	2.47
PSPTO_1825	<i>acs</i> , acetyl-CoA synthetase	2.46
PSPTO_0305	fatty acid desaturase	2.33
PSPTO_1560	<i>ispF</i> , 2-C-methyl-D-erythritol 2,4-cyclodiphosphate synthase	2.12
PSPTO_0187	<i>hdtS</i> protein	2.01
PSPTO_4831	PAP2 superfamily protein/DedA family protein	1.86
PSPTO_0893	outer membrane protein P1	1.75
PSPTO_5092	acyltransferase family protein	1.62
PSPTO_1766	lipase	1.52

<i>PSPTO_5094</i>	acyl carrier protein	1.49
<i>PSPTO_0984</i>	<i>pssA-1</i> , CDP-diacylglycerol--serine O-phosphatidyltransferase	1.44
<i>PSPTO_5093</i>	acyl carrier protein	1.43
<i>PSPTO_4660</i>	<i>tesB</i> , acyl-CoA thioesterase II	1.42
<i>PSPTO_3455</i>	3-oxoacid CoA-transferase, subunit A family	1.31
<i>PSPTO_3815</i>	<i>accD</i> , acetyl-CoA carboxylase subunit beta	1.29
<i>PSPTO_3136</i>	azoreductase	1.28
<i>PSPTO_2210</i>	<i>fabB</i> , 3-oxoacyl-(acyl carrier protein) synthase I	1.25
<i>PSPTO_3899</i>	acyltransferase family protein	1.19
<i>PSPTO_4097</i>	<i>fadD-1</i> , long-chain-fatty-acid--CoA ligase	1.19
<i>PSPTO_3831</i>	<i>acpP</i> , acyl carrier protein	1.17
<i>PSPTO_4513</i>	hypothetical protein PSPTO_4513	1.16
<i>PSPTO_3022</i>	<i>pgsA</i> , CDP-diacylglycerol--glycerol-3-phosphate 3-phosphatidyltransferase	1.14
<i>PSPTO_3463</i>	<i>pssA-2</i> , CDP-diacylglycerol--serine O-phosphatidyltransferase	1.1
<i>PSPTO_2823</i>	hypothetical protein PSPTO_2823	1.09
<i>PSPTO_2211</i>	<i>fabA</i> , 3-hydroxydecanoyl-(acyl carrier protein) dehydratase	1.05
<i>PSPTO_4094</i>	3-oxoacyl-(acyl carrier protein) synthase III	1.01
<i>PSPTO_3833</i>	<i>fabD</i> , malonyl CoA-acyl carrier protein transacylase	1.01
<i>PSPTO_4683</i>	coronafacic acid beta-ketoacyl synthetase component	-1.01
<i>PSPTO_4277</i>	esterase/lipase/thioesterase family protein	-1.02
<i>PSPTO_3163</i>	enoyl-CoA hydratase/isomerase family protein	-1.03
<i>PSPTO_3503</i>	cardiolipin synthetase 2	-1.06
<i>PSPTO_2940</i>	thiolase family protein	-1.08
<i>PSPTO_5185</i>	acyl-CoA dehydrogenase family protein	-1.12
<i>PSPTO_1790</i>	acyl-CoA dehydrogenase family protein	-1.13
<i>PSPTO_4781</i>	hypothetical protein PSPTO_4781	-1.2
<i>PSPTO_0743</i>	3-ketoacyl-(acyl-carrier-protein) reductase	-1.3
<i>PSPTO_0569</i>	autotransporting lipase, GDSL family	-1.43
<i>PSPTO_5081</i>	malonyl CoA-acyl carrier protein transacylase	-1.83
<i>PSPTO_5184</i>	acyl-CoA dehydrogenase family protein	-2.49
<i>PSPTO_5084</i>	malonate decarboxylase subunit beta	-2.75
<i>PSPTO_0200</i>	hypothetical protein PSPTO_0200	-3.1
Inorganic ion transport and metabolism		
<i>PSPTO_4160</i>	<i>bfr</i> , bacterioferritin	3.96
<i>PSPTO_0752</i>	<i>copZ</i> protein	3.41
<i>PSPTO_0750</i>	copper-translocating P-type ATPase	2.75
<i>PSPTO_0753</i>	Bcr/CflA family multidrug resistance transporter	2.45
<i>PSPTO_0998</i>	alkylphosphonate utilization operon protein PhnA	2.41
<i>PSPTO_5262</i>	<i>metN-2</i> , DL-methionine transporter ATP-binding subunit	2.32
<i>PSPTO_5261</i>	<i>metI-2</i> , D-methionine ABC transporter permease	2.19
<i>PSPTO_0791</i>	phosphonate ABC transporter periplasmic phosphonate-binding protein	2.18
<i>PSPTO_5268</i>	<i>znuA</i> , zinc ABC transporter periplasmic zinc-binding protein	2.12
<i>PSPTO_5266</i>	<i>znuC</i> , zinc ABC transporter ATP-binding protein	1.95
<i>PSPTO_1801</i>	<i>trkH</i> , potassium uptake protein TrkH	1.92
<i>PSPTO_3234</i>	sulfate permease family protein	1.91
<i>PSPTO_2018</i>	sulfur transfer protein SirA	1.91
<i>PSPTO_4979</i>	multidrug resistance protein	1.87
<i>PSPTO_5326</i>	rhodanese-like domain-containing protein	1.78
<i>PSPTO_0653</i>	bacterioferritin	1.7

<i>PSPTO_0763</i>	<i>fecB</i> , iron(III) dicitrate transport system, periplasmic iron-binding protein FecB	1.69
<i>PSPTO_0790</i>	phosphonate ABC transporter, ATP-binding protein	1.58
<i>PSPTO_4569</i>	iron-uptake factor	1.56
<i>PSPTO_2355</i>	glutathione-regulated potassium-efflux system protein	1.52
<i>PSPTO_5479</i>	transporter	1.5
<i>PSPTO_3593</i>	sulfate permease family protein	1.48
<i>PSPTO_0314</i>	iron ABC transporter periplasmic iron-binding protein	1.41
<i>PSPTO_0762</i>	<i>fecC</i> , iron-dicitrate transporter permease subunit	1.39
<i>PSPTO_0227</i>	<i>cyaY</i> , <i>cyaY</i> protein	1.36
<i>PSPTO_5023</i>	sodium/hydrogen exchanger family protein	1.33
<i>PSPTO_0760</i>	iron(III) dicitrate transport system, ATP-binding protein FecE	1.3
<i>PSPTO_5343</i>	hypothetical protein PSPTO_5343	1.27
<i>PSPTO_1846</i>	<i>mgtE</i> , magnesium transporter	1.22
<i>PSPTO_2463</i>	TonB-dependent siderophore receptor	1.15
<i>PSPTO_2634</i>	cation ABC transporter permease	1.14
<i>PSPTO_1529</i>	<i>arsC</i> family protein	1.13
<i>PSPTO_0761</i>	<i>fecD</i> , iron(III) dicitrate transport system, permease protein FecD	1.09
<i>PSPTO_5265</i>	<i>znuB</i> , zinc ABC transporter permease	1.08
<i>PSPTO_3256</i>	iron ABC transporter, periplasmic iron-binding protein	1.06
<i>PSPTO_5260</i>	<i>metQ-2</i> , D-methionine-binding lipoprotein MetQ	1.06
<i>PSPTO_1687</i>	<i>arsC</i> , arsenate reductase	1.05
<i>PSPTO_3993</i>	<i>kup</i> , potassium uptake protein	1.04
<i>PSPTO_2635</i>	cation ABC transporter substrate-binding protein	1.04
<i>PSPTO_4312</i>	phosphate transporter family protein	1.03
<i>PSPTO_5256</i>	sulfate transporter family protein	-1.01
<i>PSPTO_2141</i>	cation ABC transporter substrate-binding protein	-1.01
<i>PSPTO_4171</i>	amino acid ABC transporter substrate-binding protein	-1.01
<i>PSPTO_5255</i>	<i>cynT</i> , carbonic anhydrase	-1.02
<i>PSPTO_2846</i>	TonB-dependent siderophore receptor	-1.02
<i>PSPTO_0311</i>	sulfate ABC transporter, ATP-binding protein CysA	-1.03
<i>PSPTO_0564</i>	polyamine ABC transporter permease	-1.03
<i>PSPTO_1855</i>	TonB-dependent receptor	-1.04
<i>PSPTO_3599</i>	hypothetical protein PSPTO_3599	-1.05
<i>PSPTO_3031</i>	peptide ABC transporter permease	-1.05
<i>PSPTO_1204</i>	regulatory protein	-1.05
<i>PSPTO_0887</i>	sugar ABC transporter permease	-1.06
<i>PSPTO_0310</i>	sulfate ABC transporter permease CysW	-1.08
<i>PSPTO_3250</i>	dipeptide ABC transporter, permease protein DppC	-1.08
<i>PSPTO_5187</i>	<i>metQ-1</i> , D-methionine-binding lipoprotein MetQ	-1.11
<i>PSPTO_2605</i>	TonB-dependent siderophore receptor	-1.13
<i>PSPTO_2556</i>	<i>phnD</i> , phosphonates ABC transporter periplasmic phosphonates-binding protein	-1.16
<i>PSPTO_1206</i>	TonB-dependent siderophore receptor	-1.18
<i>PSPTO_0309</i>	<i>cysT</i> , sulfate ABC transporter permease CysT	-1.2
<i>PSPTO_2523</i>	ABC transporter permease	-1.25
<i>PSPTO_2812</i>	peptide ABC transporter ATP-binding protein	-1.26
<i>PSPTO_2140</i>	cation ABC transporter ATP-binding protein	-1.33
<i>PSPTO_3090</i>	nickel ABC transporter, permease protein	-1.36
<i>PSPTO_4363</i>	<i>sodB</i> , superoxide dismutase, Fe	-1.38
<i>PSPTO_1792</i>	rhodanese-like domain-containing protein	-1.41

<i>PSPTO_2517</i>	sodium/hydrogen exchanger family protein	-1.45
<i>PSPTO_3719</i>	ABC transporter permease	-1.49
<i>PSPTO_5216</i>	lipoprotein, NLPa family	-1.49
<i>PSPTO_2562</i>	<i>phnJ</i> , phosphonate metabolism protein PhnJ	-1.52
<i>PSPTO_2518</i>	extracellular solute-binding domain protein	-1.54
<i>PSPTO_2564</i>	phosphonate ABC transporter ATPase	-1.58
<i>PSPTO_5079</i>	<i>madM</i> , malonate transporter subunit MadM	-1.58
<i>PSPTO_5196</i>	ABC transporter permease	-1.58
<i>PSPTO_2563</i>	phosphonate C-P lyase system protein PhnK	-1.59
<i>PSPTO_2666</i>	spermidine/putrescine ABC transporter permease	-1.62
<i>PSPTO_1930</i>	<i>cynS</i> , cyanate lyase	-1.65
<i>PSPTO_0110</i>	metallo-beta-lactamase superfamily protein	-1.7
<i>PSPTO_2138</i>	ABC transporter periplasmic substrate-binding protein	-1.72
<i>PSPTO_2152</i>	TonB-dependent siderophore receptor	-1.82
<i>PSPTO_0308</i>	<i>sbp</i> , sulfate-binding protein	-1.83
<i>PSPTO_3878</i>	ABC transporter substrate-binding protein	-1.89
<i>PSPTO_5197</i>	ABC transporter ATP-binding protein	-1.9
<i>PSPTO_5195</i>	ABC transporter substrate-binding protein	-1.92
<i>PSPTO_4259</i>	glutathione-regulated potassium-efflux system protein	-1.93
<i>PSPTO_2706</i>	mannitol ABC transporter permease	-2.06
<i>PSPTO_5080</i>	<i>madL</i> , malonate transporter subunit MadL	-2.2
<i>PSPTO_5316</i>	sulfonate ABC transporter periplasmic sulfonate-binding protein	-2.23
<i>PSPTO_2398</i>	ribose ABC transporter ATP-binding protein	-2.26
<i>PSPTO_2639</i>	L-arabinose transporter ATP-binding protein	-2.36
<i>PSPTO_5314</i>	aliphatic sulfonates transport ATP-binding subunit	-2.45
<i>PSPTO_5315</i>	<i>ssuC</i> , aliphatic sulfonates ABC transporter permease	-2.46
<i>PSPTO_2705</i>	mannitol ABC transporter permease	-2.67
<i>PSPTO_2691</i>	membrane protein, TerC family	-2.88
Secondary metabolites biosynthesis, transport and catabolism		
<i>PSPTO_1735</i>	hypothetical protein PSPTO_1735	1.89
<i>PSPTO_3389</i>	lysozyme	1.6
<i>PSPTO_1456</i>	<i>cumA</i> , multicopper oxidase	1.58
<i>PSPTO_5190</i>	hypothetical protein PSPTO_5190	1.51
<i>PSPTO_5094</i>	acyl carrier protein	1.49
<i>PSPTO_2039</i>	isochorismatase family protein	1.49
<i>PSPTO_5093</i>	acyl carrier protein	1.43
<i>PSPTO_4177</i>	2-hydroxychromene-2-carboxylate isomerase	1.29
<i>PSPTO_4444</i>	toluene tolerance protein	1.26
<i>PSPTO_4212</i>	methyltransferase	1.23
<i>PSPTO_3138</i>	3-oxoadipate enol-lactone hydrolase	1.19
<i>PSPTO_2338</i>	<i>pcaH</i> , protocatechuate 3,4-dioxygenase subunit beta	1.17
<i>PSPTO_5292</i>	fumarylacetoacetate hydrolase family protein	1.14
<i>PSPTO_3332</i>	alkaline metalloendoprotease	1.08
<i>PSPTO_3713</i>	hypothetical protein PSPTO_3713	1.02
<i>PSPTO_4445</i>	mce-like protein	1.01
<i>PSPTO_1859</i>	isothiocyanate resistance protein SaxB; isochorismatase family	-1.01
<i>PSPTO_4683</i>	coronafacic acid beta-ketoacyl synthetase component	-1.01
<i>PSPTO_4257</i>	4-oxalocrotonate tautomerase	-1.02
<i>PSPTO_4709</i>	coronamic acid synthetase CmaA	-1.04

<i>PSPTO_2135</i>	<i>pvsA</i> , pyoverdine chromophore precursor synthetase	-1.15
<i>PSPTO_2941</i>	<i>fcs</i> , feruloyl-CoA synthase	-1.2
<i>PSPTO_3554</i>	maleylacetoacetate isomerase	-1.21
<i>PSPTO_2148</i>	pyoverdine sidechain peptide synthetase II, D-Asp-L-Thr component	-1.22
<i>PSPTO_2134</i>	pyoverdine synthetase, thioesterase component	-1.25
<i>PSPTO_4520</i>	methyltransferase domain protein	-1.25
<i>PSPTO_3051</i>	2,4'-dihydroxyacetophenone dioxygenase	-1.27
<i>PSPTO_4261</i>	isomerase	-1.5
<i>PSPTO_2209</i>	dienelactone hydrolase family protein	-1.55
<i>PSPTO_5198</i>	dioxygenase, TauD/TfdA family	-1.59
<i>PSPTO_4712</i>	coronamic acid synthetase, thioesterase component	-1.76
<i>PSPTO_4699</i>	non-ribosomal peptide synthetase, terminal component	-1.77
<i>PSPTO_5082</i>	phosphoribosyl-dephospho-CoA transferase	-1.98
<i>PSPTO_4710</i>	<i>cmaB</i> , coronamic acid synthetase CmaB	-2.1
<i>PSPTO_5087</i>	<i>mdcA</i> , malonate decarboxylase subunit alpha	-2.21
<i>PSPTO_2597</i>	yersiniabactin synthetase, salicylate ligase component	-3.22
<i>PSPTO_2602</i>	yersiniabactin non-ribosomal peptide synthetase	-3.32
<i>PSPTO_2596</i>	isochorismate pyruvate-lyase	-3.4
<i>PSPTO_2429</i>	capK domain protein	-3.6
<i>PSPTO_2600</i>	yersiniabactin polyketide/non-ribosomal peptide synthetase	-3.63
<i>PSPTO_2598</i>	yersiniabactin synthetase, thioesterase component	-3.82
<i>PSPTO_2599</i>	yersiniabactin synthetase, thiazolanyl reductase component	-4.11
Funcation unknow		
<i>PSPTO_5228</i>	hypothetical protein PSPTO_5228	3.23
<i>PSPTO_1774</i>	hypothetical protein PSPTO_1774	2.98
<i>PSPTO_5015</i>	Lyase	2.79
<i>PSPTO_0513</i>	pqqA, coenzyme PQQ synthesis protein A	2.74
<i>PSPTO_0803</i>	hypothetical protein PSPTO_0803	2.74
<i>PSPTO_3361</i>	hypothetical protein PSPTO_3361	2.71
<i>PSPTO_3908</i>	hypothetical protein PSPTO_3908	2.67
<i>PSPTO_2687</i>	hypothetical protein PSPTO_2687	2.65
<i>PSPTO_5466</i>	hypothetical protein PSPTO_5466	2.64
<i>PSPTO_1104</i>	<i>prsA</i> , ribose-phosphate pyrophosphokinase	2.57
<i>PSPTO_0326</i>	hypothetical protein PSPTO_0326	2.5
<i>PSPTO_0724</i>	DedA family protein	2.46
<i>PSPTO_5264</i>	lipoprotein	2.44
<i>PSPTO_3175</i>	hypothetical protein PSPTO_3175	2.44
<i>PSPTO_1623</i>	hypothetical protein PSPTO_1623	2.4
<i>PSPTO_1683</i>	peptidase, SprT family	2.4
<i>PSPTO_3896</i>	hypothetical protein PSPTO_3896	2.4
<i>PSPTO_4030</i>	hypothetical protein PSPTO_4030	2.38
<i>PSPTO_3751</i>	hypothetical protein PSPTO_3751	2.38
<i>PSPTO_3123</i>	hypothetical protein PSPTO_3123	2.35
<i>PSPTO_3909</i>	hypothetical protein PSPTO_3909	2.35
<i>PSPTO_1734</i>	putative rhodanese-related sulfurtransferase	2.34
<i>PSPTO_4029</i>	hypothetical protein PSPTO_4029	2.34
<i>PSPTO_3067</i>	hypothetical protein PSPTO_3067	2.34
<i>PSPTO_0367</i>	hypothetical protein PSPTO_0367	2.33
<i>PSPTO_3173</i>	hypothetical protein PSPTO_3173	2.33

<i>PSPTO_1690</i>	hypothetical protein PSPTO_1690	2.32
<i>PSPTO_1816</i>	hypothetical protein PSPTO_1816	2.32
<i>PSPTO_0799</i>	GTP-binding protein, GTP1/Obg family	2.24
<i>PSPTO_4211</i>	lipoprotein	2.23
<i>PSPTO_1595</i>	hypothetical protein PSPTO_1595	2.2
<i>PSPTO_4227</i>	hypothetical protein PSPTO_4227	2.19
<i>PSPTO_2017</i>	hypothetical protein PSPTO_2017	2.16
<i>PSPTO_0412</i>	hypothetical protein PSPTO_0412	2.15
<i>PSPTO_1138</i>	lipoprotein	2.13
<i>PSPTO_4816</i>	hypothetical protein PSPTO_4816	2.13
<i>PSPTO_4481</i>	hypothetical protein PSPTO_4481	2.11
<i>PSPTO_2315</i>	hypothetical protein PSPTO_2315	2.05
<i>PSPTO_4484</i>	hypothetical protein PSPTO_4484	2.05
<i>PSPTO_0071</i>	lipoprotein	2.04
<i>PSPTO_4113</i>	lipoprotein	2.03
<i>PSPTO_3858</i>	hypothetical protein PSPTO_3858	2.03
<i>PSPTO_3910</i>	hypothetical protein PSPTO_3910	2
<i>PSPTO_4114</i>	hypothetical protein PSPTO_4114	1.98
<i>PSPTO_4007</i>	hypothetical protein PSPTO_4007	1.98
<i>PSPTO_3362</i>	GNAT family acetyltransferase	1.97
<i>PSPTO_4009</i>	regulatory protein Cro	1.97
<i>PSPTO_1642</i>	hypothetical protein PSPTO_1642	1.95
<i>PSPTO_2356</i>	hypothetical protein PSPTO_2356	1.95
<i>PSPTO_0792</i>	hypothetical protein PSPTO_0792	1.94
<i>PSPTO_1594</i>	hypothetical protein PSPTO_1594	1.93
<i>PSPTO_1272</i>	membrane protein	1.93
<i>PSPTO_4008</i>	hypothetical protein PSPTO_4008	1.93
<i>PSPTO_1624</i>	sodium:solute symporter family protein	1.92
<i>PSPTO_5059</i>	hypothetical protein PSPTO_5059	1.92
<i>PSPTO_2188</i>	lipoprotein	1.91
<i>PSPTO_4226</i>	hypothetical protein PSPTO_4226	1.88
<i>PSPTO_0404</i>	hypothetical protein PSPTO_0404	1.87
<i>PSPTO_3836</i>	hypothetical protein PSPTO_3836	1.85
<i>PSPTO_4668</i>	membrane protein	1.85
<i>PSPTO_1593</i>	hypothetical protein PSPTO_1593	1.85
<i>PSPTO_2264</i>	hypothetical protein PSPTO_2264	1.82
<i>PSPTO_4107</i>	hypothetical protein PSPTO_4107	1.82
<i>PSPTO_0138</i>	ABC transporter ATP-binding protein	1.82
<i>PSPTO_0567</i>	<i>gph-1</i> , phosphoglycolate phosphatase	1.81
<i>PSPTO_0078</i>	hypothetical protein PSPTO_0078	1.8
<i>PSPTO_0241</i>	hypothetical protein PSPTO_0241	1.78
<i>PSPTO_0798</i>	<i>rpmA</i> , 50S ribosomal protein L27	1.78
<i>PSPTO_5527</i>	hypothetical protein PSPTO_5527	1.76
<i>PSPTO_3521</i>	ABC transporter ATP-binding protein	1.74
<i>PSPTO_3333</i>	membrane protein	1.74
<i>PSPTO_4931</i>	membrane protein	1.72
<i>PSPTO_0991</i>	hypothetical protein PSPTO_0991	1.71
<i>PSPTO_0683</i>	hypothetical protein PSPTO_0683	1.71
<i>PSPTO_3921</i>	hypothetical protein PSPTO_3921	1.71

<i>PSPTO_3812</i>	cvpA family protein	1.7
<i>PSPTO_3907</i>	hypothetical protein PSPTO_3907	1.7
<i>PSPTO_3769</i>	hypothetical protein PSPTO_3769	1.7
<i>PSPTO_2527</i>	hypothetical protein PSPTO_2527	1.68
<i>PSPTO_1698</i>	hypothetical protein PSPTO_1698	1.67
<i>PSPTO_3419</i>	C4-type zinc finger protein, DksA/TraR family	1.67
<i>PSPTO_5149</i>	hypothetical protein PSPTO_5149	1.66
<i>PSPTO_0226</i>	<i>lppL</i> , lipoprotein LppL	1.66
<i>PSPTO_0076</i>	hypothetical protein PSPTO_0076	1.66
<i>PSPTO_1724</i>	hypothetical protein PSPTO_1724	1.66
<i>PSPTO_1614</i>	hypothetical protein PSPTO_1614	1.66
<i>PSPTO_4653</i>	xanthine/uracil permease family protein	1.65
<i>PSPTO_1728</i>	hypothetical protein PSPTO_1728	1.65
<i>PSPTO_4017</i>	hypothetical protein PSPTO_4017	1.65
<i>PSPTO_1526</i>	<i>sufE</i> , sufE protein	1.64
<i>PSPTO_5604</i>	<i>atpE</i> , F0F1 ATP synthase subunit C	1.64
<i>PSPTO_0968</i>	ISPsy6, transposase	1.64
<i>PSPTO_1244</i>	hypothetical protein PSPTO_1244	1.63
<i>PSPTO_1487</i>	hypothetical protein PSPTO_1487	1.63
<i>PSPTO_4779</i>	hypothetical protein PSPTO_4779	1.62
<i>PSPTO_5526</i>	cobalamin synthesis protein/P47K family protein	1.62
<i>PSPTO_3974</i>	tolR protein	1.62
<i>PSPTO_4121</i>	hypothetical protein PSPTO_4121	1.61
<i>PSPTO_1820</i>	hypothetical protein PSPTO_1820	1.6
<i>PSPTO_4637</i>	hypothetical protein PSPTO_4637	1.59
<i>PSPTO_5013</i>	hypothetical protein PSPTO_5013	1.58
<i>PSPTO_4472</i>	<i>mreB</i> , rod shape-determining protein MreB	1.57
<i>PSPTO_1430</i>	<i>ndk</i> , nucleoside diphosphate kinase	1.56
<i>PSPTO_0570</i>	transcriptional regulator PrtN	1.56
<i>PSPTO_2800</i>	polysaccharide deacetylase family protein	1.56
<i>PSPTO_4573</i>	hypothetical protein PSPTO_4573	1.56
<i>PSPTO_4022</i>	hypothetical protein PSPTO_4022	1.55
<i>PSPTO_0240</i>	prevent-host-death family protein	1.55
<i>PSPTO_0097</i>	hypothetical protein PSPTO_0097	1.53
<i>PSPTO_3985</i>	hypothetical protein PSPTO_3985	1.53
<i>PSPTO_4951</i>	hypothetical protein PSPTO_4951	1.52
<i>PSPTO_3420</i>	hypothetical protein PSPTO_3420	1.52
<i>PSPTO_4228</i>	hypothetical protein PSPTO_4228	1.51
<i>PSPTO_4401</i>	hypothetical protein PSPTO_4401	1.51
<i>PSPTO_5046</i>	hypothetical protein PSPTO_5046	1.5
<i>PSPTO_1467</i>	hypothetical protein PSPTO_1467	1.5
<i>PSPTO_0795</i>	membrane protein	1.5
<i>PSPTO_2049</i>	hypothetical protein PSPTO_2049	1.49
<i>PSPTO_0990</i>	hypothetical protein PSPTO_0990	1.48
<i>PSPTO_1732</i>	hypothetical protein PSPTO_1732	1.48
<i>PSPTO_0896</i>	sensor histidine kinase/response regulator	1.48
<i>PSPTO_3968</i>	<i>exsB</i> , exsB protein	1.47
<i>PSPTO_0828</i>	hypothetical protein PSPTO_0828	1.47
<i>PSPTO_0368</i>	hypothetical protein PSPTO_0368	1.46

<i>PSPTO_2608</i>	Sco1/SenC family protein	1.46
<i>PSPTO_0342</i>	hypothetical protein PSPTO_0342	1.46
<i>PSPTO_0121</i>	membrane protein	1.45
<i>PSPTO_2365</i>	hypothetical protein PSPTO_2365	1.45
<i>PSPTO_1140</i>	hypothetical protein PSPTO_1140	1.44
<i>PSPTO_1814</i>	hypothetical protein PSPTO_1814	1.44
<i>PSPTO_4901</i>	membrane protein	1.44
<i>PSPTO_5467</i>	hypothetical protein PSPTO_5467	1.43
<i>PSPTO_0228</i>	hypothetical protein PSPTO_0228	1.43
<i>PSPTO_0469</i>	hypothetical protein PSPTO_0469	1.43
<i>PSPTO_4028</i>	hypothetical protein PSPTO_4028	1.43
<i>PSPTO_3569</i>	hypothetical protein PSPTO_3569	1.43
<i>PSPTO_2998</i>	hypothetical protein PSPTO_2998	1.42
<i>PSPTO_0436</i>	hypothetical protein PSPTO_0436	1.41
<i>PSPTO_4464</i>	hypothetical protein PSPTO_4464	1.41
<i>PSPTO_1319</i>	hypothetical protein PSPTO_1319	1.4
<i>PSPTO_5503</i>	YeeE/YedE family protein	1.4
<i>PSPTO_4803</i>	hypothetical protein PSPTO_4803	1.39
<i>PSPTO_1721</i>	hypothetical protein PSPTO_1721	1.39
<i>PSPTO_5634</i>	hypothetical protein PSPTO_5634	1.39
<i>PSPTO_4016</i>	hypothetical protein PSPTO_4016	1.39
<i>PSPTO_1414</i>	<i>yajC</i> , preprotein translocase subunit YajC	1.38
<i>PSPTO_0343</i>	<i>engB</i> , GTP-binding protein EngB	1.38
<i>PSPTO_1331</i>	acetyltransferase	1.38
<i>PSPTO_2766</i>	ABC transporter ATP-binding protein	1.37
<i>PSPTO_1643</i>	hypothetical protein PSPTO_1643	1.37
<i>PSPTO_0723</i>	hypothetical protein PSPTO_0723	1.37
<i>PSPTO_0435</i>	tRNA (guanine-N(7)-)-methyltransferase	1.37
<i>PSPTO_2648</i>	hypothetical protein PSPTO_2648	1.37
<i>PSPTO_5403</i>	HAD-superfamily hydrolase	1.36
<i>PSPTO_2999</i>	hypothetical protein PSPTO_2999	1.34
<i>PSPTO_4423</i>	<i>sspB</i> , stringent starvation protein B	1.33
<i>PSPTO_4863</i>	hypothetical protein PSPTO_4863	1.31
<i>PSPTO_4949</i>	membrane protein	1.31
<i>PSPTO_5011</i>	GNAT family acetyltransferase	1.31
<i>PSPTO_1590</i>	hypothetical protein PSPTO_1590	1.31
<i>PSPTO_1829</i>	hypothetical protein PSPTO_1829	1.3
<i>PSPTO_0989</i>	hypothetical protein PSPTO_0989	1.3
<i>PSPTO_3480</i>	methyl-accepting chemotaxis protein	1.3
<i>PSPTO_4792</i>	ISPsy6, transposase	1.3
<i>PSPTO_2037</i>	Smr domain protein	1.29
<i>PSPTO_0206</i>	hypothetical protein PSPTO_0206	1.29
<i>PSPTO_3359</i>	hypothetical protein PSPTO_3359	1.28
<i>PSPTO_3303</i>	hypothetical protein PSPTO_3303	1.28
<i>PSPTO_4958</i>	HAMP domain protein	1.27
<i>PSPTO_3637</i>	FlhB domain-containing protein	1.26
<i>PSPTO_4994</i>	ISPsy5, transposase	1.26
<i>PSPTO_0521</i>	DNA-binding protein	1.26
<i>PSPTO_4545</i>	hypothetical protein PSPTO_4545	1.25

<i>PSPTO_0978</i>	hypothetical protein PSPTO_0978	1.25
<i>PSPTO_4251</i>	ISPsy5, transposase	1.25
<i>PSPTO_3710</i>	GNAT family acetyltransferase	1.24
<i>PSPTO_5091</i>	hypothetical protein PSPTO_5091	1.24
<i>PSPTO_3654</i>	GNAT family acetyltransferase	1.24
<i>PSPTO_2270</i>	ErfK/YbiS/YcfS/YnhG family protein	1.24
<i>PSPTO_3723</i>	<i>hupB</i> , DNA-binding protein HU-beta	1.24
<i>PSPTO_3996</i>	ISPsy5, transposase	1.24
<i>PSPTO_0215</i>	hypothetical protein PSPTO_0215	1.23
<i>PSPTO_1273</i>	membrane protein	1.23
<i>PSPTO_0804</i>	membrane protein, MviN family	1.23
<i>PSPTO_2284</i>	membrane protein	1.23
<i>PSPTO_4827</i>	iojap-like protein	1.23
<i>PSPTO_5095</i>	membrane protein	1.23
<i>PSPTO_4393</i>	hypothetical protein PSPTO_4393	1.22
<i>PSPTO_0081</i>	hypothetical protein PSPTO_0081	1.22
<i>PSPTO_2187</i>	hypothetical protein PSPTO_2187	1.22
<i>PSPTO_0697</i>	hypothetical protein PSPTO_0697	1.22
<i>PSPTO_5297</i>	hypothetical protein PSPTO_5297	1.22
<i>PSPTO_5148</i>	polyhydroxyalkanoate granule-associated protein PhaI	1.22
<i>PSPTO_4737</i>	ISPsy5, transposase	1.22
<i>PSPTO_4693</i>	ISPsy5, transposase	1.22
<i>PSPTO_4663</i>	hypothetical protein PSPTO_4663	1.21
<i>PSPTO_0035</i>	ISPsy5, transposase	1.21
<i>PSPTO_1189</i>	ISPsy5, transposase	1.21
<i>PSPTO_0688</i>	lipoprotein	1.2
<i>PSPTO_1686</i>	<i>wrbA</i> , trp repressor binding protein	1.2
<i>PSPTO_2214</i>	hypothetical protein PSPTO_2214	1.2
<i>PSPTO_1127</i>	hypothetical protein PSPTO_1127	1.2
<i>PSPTO_4418</i>	tetrapyrrole methylase family protein	1.2
<i>PSPTO_4118</i>	hypothetical protein PSPTO_4118	1.2
<i>PSPTO_0196</i>	ISPsy5, transposase	1.2
<i>PSPTO_1175</i>	membrane protein	1.2
<i>PSPTO_2221</i>	lipoprotein	1.19
<i>PSPTO_2038</i>	hypothetical protein PSPTO_2038	1.19
<i>PSPTO_0039</i>	ISPsy5, transposase	1.19
<i>PSPTO_2460</i>	ISPsy5, transposase	1.19
<i>PSPTO_5543</i>	ISPsy5, transposase	1.19
<i>PSPTO_4764</i>	ISPsy5, transposase	1.19
<i>PSPTO_5411</i>	ISPsy5, transposase	1.19
<i>PSPTO_4389</i>	ISPsy5, transposase	1.19
<i>PSPTO_4766</i>	hypothetical protein PSPTO_4766	1.19
<i>PSPTO_4431</i>	hypothetical protein PSPTO_4431	1.18
<i>PSPTO_3651</i>	ISPsy5, transposase	1.18
<i>PSPTO_3415</i>	hypothetical protein PSPTO_3415	1.18
<i>PSPTO_5212</i>	ISPsy5, transposase	1.18
<i>PSPTO_5175</i>	hypothetical protein PSPTO_5175	1.17
<i>PSPTO_0735</i>	LrgA family protein	1.17
<i>PSPTO_3390</i>	tail protein D	1.17

<i>PSPTO_4865</i>	<i>fis</i> , global DNA-binding transcriptional dual regulator Fis	1.16
<i>PSPTO_1145</i>	hypothetical protein PSPTO_1145	1.16
<i>PSPTO_3581</i>	GNAT family acetyltransferase	1.16
<i>PSPTO_4145</i>	<i>capB</i> , cold shock protein CapB	1.16
<i>PSPTO_5451</i>	hypothetical protein PSPTO_5451	1.16
<i>PSPTO_4060</i>	ISPsy6, transposase	1.16
<i>PSPTO_0603</i>	hypothetical protein PSPTO_0603	1.15
<i>PSPTO_1938</i>	hypothetical protein PSPTO_1938	1.15
<i>PSPTO_2204</i>	ISPsy6, transposase	1.15
<i>PSPTO_1180</i>	hypothetical protein PSPTO_1180	1.14
<i>PSPTO_0345</i>	hypothetical protein PSPTO_0345	1.14
<i>PSPTO_1098</i>	ISPsy5, transposase	1.14
<i>PSPTO_1477</i>	ISPsy6, transposase	1.14
<i>PSPTO_2360</i>	hypothetical protein PSPTO_2360	1.13
<i>PSPTO_1179</i>	HopJ1 protein	1.13
<i>PSPTO_5012</i>	hypothetical protein PSPTO_5012	1.13
<i>PSPTO_1722</i>	hypothetical protein PSPTO_1722	1.13
<i>PSPTO_3416</i>	holin	1.13
<i>PSPTO_3414</i>	hypothetical protein PSPTO_3414	1.13
<i>PSPTO_4032</i>	<i>recX</i> , recX protein	1.12
<i>PSPTO_3236</i>	hypothetical protein PSPTO_3236	1.12
<i>PSPTO_2002</i>	<i>ccoQ</i> , cytochrome c oxidase, cbb3-type, CcoQ subunit	1.11
<i>PSPTO_3802</i>	1-aminocyclopropane-1-carboxylate deaminase	1.11
<i>PSPTO_0651</i>	<i>rpoA</i> , DNA-directed RNA polymerase subunit alpha	1.11
<i>PSPTO_3804</i>	hydrolase	1.11
<i>PSPTO_5048</i>	hypothetical protein PSPTO_5048	1.11
<i>PSPTO_5226</i>	hypothetical protein PSPTO_5226	1.11
<i>PSPTO_5151</i>	hypothetical protein PSPTO_5151	1.11
<i>PSPTO_2580</i>	membrane protein	1.1
<i>PSPTO_4195</i>	hypothetical protein PSPTO_4195	1.1
<i>PSPTO_2468</i>	hypothetical protein PSPTO_2468	1.1
<i>PSPTO_4802</i>	hypothetical protein PSPTO_4802	1.1
<i>PSPTO_4449</i>	phosphatase, YrbI family	1.1
<i>PSPTO_0825</i>	hypothetical protein PSPTO_0825	1.1
<i>PSPTO_0747</i>	transporter	1.1
<i>PSPTO_1126</i>	amine oxidase, flavin-containing protein	1.09
<i>PSPTO_4443</i>	STAS domain-containing protein	1.09
<i>PSPTO_0415</i>	hypothetical protein PSPTO_0415	1.09
<i>PSPTO_2052</i>	hypothetical protein PSPTO_2052	1.09
<i>PSPTO_0971</i>	<i>sfsA</i> , sugar fermentation stimulation protein	1.09
<i>PSPTO_4159</i>	bacterioferritin-associated ferredoxin	1.09
<i>PSPTO_0403</i>	hypothetical protein PSPTO_0403	1.09
<i>PSPTO_3808</i>	ISPsy6, transposase	1.09
<i>PSPTO_1810</i>	PHP domain-containing protein	1.08
<i>PSPTO_4428</i>	ATPase	1.08
<i>PSPTO_0988</i>	hypothetical protein PSPTO_0988	1.08
<i>PSPTO_1433</i>	hypothetical protein PSPTO_1433	1.08
<i>PSPTO_1854</i>	hypothetical protein PSPTO_1854	1.08
<i>PSPTO_0992</i>	<i>rimI</i> , ribosomal-protein-alanine acetyltransferase	1.07

<i>PSPTO_0670</i>	ISPsy5, transposase	1.07
<i>PSPTO_4583</i>	hypothetical protein PSPTO_4583	1.06
<i>PSPTO_1589</i>	lipoprotein	1.06
<i>PSPTO_2254</i>	methyl-accepting chemotaxis protein	1.05
<i>PSPTO_0282</i>	membrane protein	1.05
<i>PSPTO_5591</i>	ISPsy5, transposase	1.05
<i>PSPTO_2469</i>	hypothetical protein PSPTO_2469	1.04
<i>PSPTO_4218</i>	hypothetical protein PSPTO_4218	1.04
<i>PSPTO_1227</i>	ISPsy5, transposase	1.04
<i>PSPTO_2072</i>	auxin-binding protein	1.03
<i>PSPTO_5008</i>	hypothetical protein PSPTO_5008	1.03
<i>PSPTO_5252</i>	DedA family protein	1.03
<i>PSPTO_4845</i>	lipoprotein	1.03
<i>PSPTO_2971</i>	ISPsy5, transposase	1.03
<i>PSPTO_4826</i>	hypothetical protein PSPTO_4826	1.02
<i>PSPTO_5338</i>	<i>hisB</i> , imidazoleglycerol-phosphate dehydratase	1.02
<i>PSPTO_4185</i>	membrane protein	1.02
<i>PSPTO_4133</i>	penicillin amidase family protein	1.02
<i>PSPTO_3999</i>	ISPsy5, transposase	1.02
<i>PSPTO_2067</i>	hypothetical protein PSPTO_2067	1.02
<i>PSPTO_2721</i>	membrane protein	1.01
<i>PSPTO_2609</i>	hypothetical protein PSPTO_2609	1.01
<i>PSPTO_2000</i>	prevent-host-death family protein	1.01
<i>PSPTO_3407</i>	hypothetical protein PSPTO_3407	1.01
<i>PSPTO_4567</i>	ISPsy5, transposase	1.01
<i>PSPTO_5445</i>	ISPsy5, transposase	1.01
<i>PSPTO_2375</i>	lipoprotein	1
<i>PSPTO_1066</i>	methyl-accepting chemotaxis protein	-1
<i>PSPTO_0702</i>	hypothetical protein PSPTO_0702	-1
<i>PSPTO_0832</i>	ISPsy4, transposition helper protein	-1
<i>PSPTO_5624</i>	Tat (twin-arginine translocation) pathway signal sequence domain-containing protein	-1.01
<i>PSPTO_3586</i>	LysR family transcriptional regulator	-1.01
<i>PSPTO_5378</i>	LamB/YcsF family protein	-1.01
<i>PSPTO_0023</i>	hypothetical protein PSPTO_0023	-1.01
<i>PSPTO_1651</i>	hypothetical protein PSPTO_1651	-1.02
<i>PSPTO_2501</i>	hypothetical protein PSPTO_2501	-1.02
<i>PSPTO_4657</i>	zinc metalloproteinase	-1.02
<i>PSPTO_2075</i>	hypothetical protein PSPTO_2075	-1.02
<i>PSPTO_0193</i>	ISPsy4, transposition helper protein	-1.02
<i>PSPTO_0049</i>	hypothetical protein PSPTO_0049	-1.02
<i>PSPTO_4532</i>	hypothetical protein PSPTO_4532	-1.02
<i>PSPTO_2675</i>	hypothetical protein PSPTO_2675	-1.03
<i>PSPTO_3092</i>	hypothetical protein PSPTO_3092	-1.03
<i>PSPTO_5432</i>	hypothetical protein PSPTO_5432	-1.04
<i>PSPTO_2144</i>	hypothetical protein PSPTO_2144	-1.04
<i>PSPTO_2142</i>	hypothetical protein PSPTO_2142	-1.04
<i>PSPTO_2623</i>	phenazine biosynthesis protein, PhzF family	-1.04
<i>PSPTO_5232</i>	pyocin/colicin protein	-1.04
<i>PSPTO_0333</i>	hypothetical protein PSPTO_0333	-1.05

<i>PSPTO_2741</i>	ISPsy4, transposition helper protein	-1.05
<i>PSPTO_2238</i>	lipoprotein	-1.06
<i>PSPTO_4317</i>	hypothetical protein PSPTO_4317	-1.06
<i>PSPTO_0091</i>	hypothetical protein PSPTO_0091	-1.06
<i>PSPTO_5620</i>	hypothetical protein PSPTO_5620	-1.06
<i>PSPTO_2147</i>	pyoverdine sidechain peptide synthetase I, epsilon-Lys module	-1.07
<i>PSPTO_2924</i>	hypothetical protein PSPTO_2924	-1.07
<i>PSPTO_0172</i>	hypothetical protein PSPTO_0172	-1.07
<i>PSPTO_2086</i>	hypothetical protein PSPTO_2086	-1.07
<i>PSPTO_5211</i>	hypothetical protein PSPTO_5211	-1.07
<i>PSPTO_0013</i>	hypothetical protein PSPTO_0013	-1.07
<i>PSPTO_4750</i>	hypothetical protein PSPTO_4750	-1.07
<i>PSPTO_1609</i>	hypothetical protein PSPTO_1609	-1.08
<i>PSPTO_0012</i>	hypothetical protein PSPTO_0012	-1.08
<i>PSPTO_5208</i>	hypothetical protein PSPTO_5208	-1.08
<i>PSPTO_4327</i>	hypothetical protein PSPTO_4327	-1.09
<i>PSPTO_2536</i>	hypothetical protein PSPTO_2536	-1.09
<i>PSPTO_4351</i>	hypothetical protein PSPTO_4351	-1.1
<i>PSPTO_2071</i>	hypothetical protein PSPTO_2071	-1.11
<i>PSPTO_0758</i>	2OG-Fe(II) oxygenase family oxidoreductase	-1.11
<i>PSPTO_0374</i>	hypothetical protein PSPTO_0374	-1.11
<i>PSPTO_3602</i>	hypothetical protein PSPTO_3602	-1.11
<i>PSPTO_3995</i>	abortive infection protein, internal deletion	-1.11
<i>PSPTO_2888</i>	hypothetical protein PSPTO_2888	-1.11
<i>PSPTO_4761</i>	hypothetical protein PSPTO_4761	-1.11
<i>PSPTO_4574</i>	hypothetical protein PSPTO_4574	-1.12
<i>PSPTO_3880</i>	polyamine ABC transporter permease	-1.12
<i>PSPTO_3779</i>	hypothetical protein PSPTO_3779	-1.12
<i>PSPTO_2773</i>	hypothetical protein PSPTO_2773	-1.12
<i>PSPTO_2091</i>	hypothetical protein PSPTO_2091	-1.12
<i>PSPTO_1657</i>	hypothetical protein PSPTO_1657	-1.12
<i>PSPTO_2947</i>	major facilitator family transporter	-1.13
<i>PSPTO_3055</i>	hypothetical protein PSPTO_3055	-1.13
<i>PSPTO_5630</i>	hypothetical protein PSPTO_5630	-1.13
<i>PSPTO_4723</i>	hypothetical protein PSPTO_4723	-1.13
<i>PSPTO_3378</i>	membrane protein	-1.14
<i>PSPTO_1603</i>	hypothetical protein PSPTO_1603	-1.14
<i>PSPTO_2953</i>	LysR family transcriptional regulator	-1.15
<i>PSPTO_5330</i>	hypothetical protein PSPTO_5330	-1.15
<i>PSPTO_3889</i>	hypothetical protein PSPTO_3889	-1.15
<i>PSPTO_3065</i>	hypothetical protein PSPTO_3065	-1.15
<i>PSPTO_1368</i>	lipoprotein	-1.16
<i>PSPTO_2145</i>	iron-regulated membrane protein	-1.17
<i>PSPTO_2520</i>	pyridine nucleotide-disulfide oxidoreductase family protein	-1.17
<i>PSPTO_0866</i>	hypothetical protein PSPTO_0866	-1.17
<i>PSPTO_0916</i>	methyl-accepting chemotaxis protein	-1.17
<i>PSPTO_0109</i>	hypothetical protein PSPTO_0109	-1.17
<i>PSPTO_3947</i>	hypothetical protein PSPTO_3947	-1.17
<i>PSPTO_2318</i>	hypothetical protein PSPTO_2318	-1.17

<i>PSPTO_0117</i>	methyl-accepting chemotaxis protein	-1.18
<i>PSPTO_3605</i>	lyase	-1.18
<i>PSPTO_3041</i>	membrane protein	-1.18
<i>PSPTO_4348</i>	hypothetical protein PSPTO_4348	-1.18
<i>PSPTO_0867</i>	hypothetical protein PSPTO_0867	-1.19
<i>PSPTO_2143</i>	hypothetical protein PSPTO_2143	-1.19
<i>PSPTO_0525</i>	lipoprotein	-1.19
<i>PSPTO_0027</i>	hypothetical protein PSPTO_0027	-1.19
<i>PSPTO_2779</i>	endoribonuclease L-PSP family protein	-1.2
<i>PSPTO_2868</i>	hypothetical protein PSPTO_2868	-1.2
<i>PSPTO_4609</i>	hypothetical protein PSPTO_4609	-1.2
<i>PSPTO_2480</i>	methyl-accepting chemotaxis protein	-1.21
<i>PSPTO_1117</i>	hypothetical protein PSPTO_1117	-1.21
<i>PSPTO_4040</i>	hypothetical protein PSPTO_4040	-1.21
<i>PSPTO_4797</i>	hypothetical protein PSPTO_4797	-1.21
<i>PSPTO_2631</i>	hypothetical protein PSPTO_2631	-1.21
<i>PSPTO_2535</i>	hypothetical protein PSPTO_2535	-1.22
<i>PSPTO_2677</i>	short chain dehydrogenase/reductase family oxidoreductase	-1.23
<i>PSPTO_3538</i>	transferase, hexapeptide repeat protein	-1.23
<i>PSPTO_4714</i>	cmaU protein	-1.23
<i>PSPTO_0711</i>	hypothetical protein PSPTO_0711	-1.24
<i>PSPTO_3253</i>	hypothetical protein PSPTO_3253	-1.25
<i>PSPTO_0297</i>	hypothetical protein PSPTO_0297	-1.25
<i>PSPTO_2949</i>	3-alpha-hydroxysteroid dehydrogenase	-1.26
<i>PSPTO_1094</i>	hypothetical protein PSPTO_1094	-1.26
<i>PSPTO_1364</i>	hypothetical protein PSPTO_1364	-1.26
<i>PSPTO_3054</i>	short chain dehydrogenase/reductase family oxidoreductase	-1.27
<i>PSPTO_0477</i>	hypothetical protein PSPTO_0477	-1.27
<i>PSPTO_3091</i>	nickel ABC transporter, ATP-binding protein	-1.28
<i>PSPTO_4370</i>	hypothetical protein PSPTO_4370	-1.28
<i>PSPTO_4318</i>	integral membrane protein	-1.29
<i>PSPTO_3700</i>	oxidoreductase, aldo/keto reductase family	-1.29
<i>PSPTO_1851</i>	hypothetical protein PSPTO_1851	-1.3
<i>PSPTO_1367</i>	GNAT family acetyltransferase	-1.3
<i>PSPTO_1793</i>	hypothetical protein PSPTO_1793	-1.31
<i>PSPTO_5054</i>	hypothetical protein PSPTO_5054	-1.31
<i>PSPTO_4289</i>	hypothetical protein PSPTO_4289	-1.31
<i>PSPTO_3174</i>	hypothetical protein PSPTO_3174	-1.31
<i>PSPTO_2506</i>	lipoprotein	-1.31
<i>PSPTO_2620</i>	hypothetical protein PSPTO_2620	-1.32
<i>PSPTO_5312</i>	hypothetical protein PSPTO_5312	-1.32
<i>PSPTO_2231</i>	YD repeat protein, partial	-1.32
<i>PSPTO_3203</i>	hypothetical protein PSPTO_3203	-1.32
<i>PSPTO_1082</i>	hypothetical protein PSPTO_1082	-1.32
<i>PSPTO_2515</i>	lipoprotein	-1.33
<i>PSPTO_3061</i>	LysR family transcriptional regulator	-1.33
<i>PSPTO_0507</i>	hypothetical protein PSPTO_0507	-1.34
<i>PSPTO_3337</i>	hypothetical protein PSPTO_3337	-1.34
<i>PSPTO_3426</i>	hypothetical protein PSPTO_3426	-1.35

<i>PSPTO_0454</i>	hypothetical protein PSPTO_0454	-1.36
<i>PSPTO_2165</i>	group II intron, maturase	-1.36
<i>PSPTO_3057</i>	MmgE/PrpD family protein	-1.36
<i>PSPTO_4546</i>	hypothetical protein PSPTO_4546	-1.37
<i>PSPTO_1060</i>	hypothetical protein PSPTO_1060	-1.37
<i>PSPTO_5435</i>	secreted protein Hcp	-1.37
<i>PSPTO_1069</i>	membrane protein	-1.37
<i>PSPTO_3129</i>	hypothetical protein PSPTO_3129	-1.38
<i>PSPTO_4103</i>	hypothetical protein PSPTO_4103	-1.38
<i>PSPTO_4772</i>	hypothetical protein PSPTO_4772	-1.38
<i>PSPTO_5633</i>	hypothetical protein PSPTO_5633	-1.38
<i>PSPTO_0063</i>	hypothetical protein PSPTO_0063	-1.39
<i>PSPTO_2977</i>	hypothetical protein PSPTO_2977	-1.39
<i>PSPTO_0030</i>	hypothetical protein PSPTO_0030	-1.39
<i>PSPTO_1070</i>	lipopolysaccharide biosynthesis protein	-1.39
<i>PSPTO_0007</i>	hypothetical protein PSPTO_0007	-1.4
<i>PSPTO_4967</i>	hypothetical protein PSPTO_4967	-1.4
<i>PSPTO_4067</i>	short-chain dehydrogenase/reductase family oxidoreductase	-1.4
<i>PSPTO_1571</i>	hypothetical protein PSPTO_1571	-1.4
<i>PSPTO_0015</i>	hypothetical protein PSPTO_0015	-1.4
<i>PSPTO_1073</i>	membrane protein	-1.41
<i>PSPTO_2778</i>	amino acid ABC transporter ATP-binding protein	-1.42
<i>PSPTO_1035</i>	colicin/pyosin nuclease family protein	-1.42
<i>PSPTO_3539</i>	membrane protein PslK	-1.43
<i>PSPTO_0395</i>	hypothetical protein PSPTO_0395	-1.43
<i>PSPTO_0031</i>	Ser/Thr protein phosphatase family protein	-1.43
<i>PSPTO_4014</i>	ISPsy4, transposition helper protein	-1.43
<i>PSPTO_4716</i>	hypothetical protein PSPTO_4716	-1.43
<i>PSPTO_4602</i>	putative ABC transporter ATP-binding protein	-1.44
<i>PSPTO_2912</i>	glutamine ABC transporter, periplasmic amino acid-binding protein	-1.44
<i>PSPTO_1092</i>	mobilization protein MobB	-1.44
<i>PSPTO_3558</i>	glcG protein	-1.45
<i>PSPTO_2322</i>	ISPsy4, transposition helper protein	-1.45
<i>PSPTO_2539</i>	secreted protein Hcp	-1.45
<i>PSPTO_5631</i>	hypothetical protein PSPTO_5631	-1.45
<i>PSPTO_1900</i>	hypothetical protein PSPTO_1900	-1.45
<i>PSPTO_2859</i>	hypothetical protein PSPTO_2859	-1.45
<i>PSPTO_2085</i>	hypothetical protein PSPTO_2085	-1.45
<i>PSPTO_5576</i>	ISPsy4, transposition helper protein	-1.45
<i>PSPTO_2116</i>	hypothetical protein PSPTO_2116	-1.46
<i>PSPTO_4335</i>	hypothetical protein PSPTO_4335	-1.46
<i>PSPTO_1167</i>	hypothetical protein PSPTO_1167	-1.46
<i>PSPTO_2553</i>	hypothetical protein PSPTO_2553	-1.46
<i>PSPTO_1303</i>	hypothetical protein PSPTO_1303	-1.47
<i>PSPTO_2441</i>	methyl-accepting chemotaxis protein	-1.47
<i>PSPTO_4673</i>	hypothetical protein PSPTO_4673	-1.48
<i>PSPTO_1096</i>	ISPsy4, transposition helper protein	-1.48
<i>PSPTO_4342</i>	insecticidal toxin protein	-1.49
<i>PSPTO_2942</i>	hypothetical protein PSPTO_2942	-1.5

<i>PSPTO_5203</i>	hypothetical protein PSPTO_5203	-1.5
<i>PSPTO_3225</i>	ISPsy4, transposition helper protein	-1.5
<i>PSPTO_3014</i>	ISPsy4, transposition helper protein	-1.5
<i>PSPTO_0142</i>	hypothetical protein PSPTO_0142	-1.51
<i>PSPTO_2537</i>	hypothetical protein PSPTO_2537	-1.51
<i>PSPTO_5053</i>	hypothetical protein PSPTO_5053	-1.52
<i>PSPTO_5370</i>	ISPsy4, transposition helper protein	-1.52
<i>PSPTO_3946</i>	hypothetical protein PSPTO_3946	-1.52
<i>PSPTO_3133</i>	methyltransferase	-1.53
<i>PSPTO_4623</i>	hypothetical protein PSPTO_4623	-1.53
<i>PSPTO_1259</i>	hypothetical protein PSPTO_1259	-1.53
<i>PSPTO_0016</i>	hypothetical protein PSPTO_0016	-1.53
<i>PSPTO_4626</i>	ISPsy4, transposition helper protein	-1.53
<i>PSPTO_2514</i>	hypothetical protein PSPTO_2514	-1.54
<i>PSPTO_0155</i>	hypothetical protein PSPTO_0155	-1.54
<i>PSPTO_3770</i>	hypothetical protein PSPTO_3770	-1.54
<i>PSPTO_1869</i>	hypothetical protein PSPTO_1869	-1.54
<i>PSPTO_4258</i>	NAD(P)H dehydrogenase, quinone family	-1.54
<i>PSPTO_0528</i>	hypothetical protein PSPTO_0528	-1.54
<i>PSPTO_4206</i>	globin family protein	-1.55
<i>PSPTO_0056</i>	ISPsy4, transposition helper protein	-1.55
<i>PSPTO_3050</i>	AraC family transcriptional regulator	-1.55
<i>PSPTO_5352</i>	methyl-accepting chemotaxis protein	-1.56
<i>PSPTO_4207</i>	hypothetical protein PSPTO_4207	-1.56
<i>PSPTO_2020</i>	hypothetical protein PSPTO_2020	-1.57
<i>PSPTO_2695</i>	hypothetical protein PSPTO_2695	-1.58
<i>PSPTO_4270</i>	ISPsy4, transposition helper protein	-1.58
<i>PSPTO_5616</i>	hypothetical protein PSPTO_5616	-1.58
<i>PSPTO_4039</i>	hypothetical protein PSPTO_4039	-1.58
<i>PSPTO_1655</i>	hypothetical protein PSPTO_1655	-1.59
<i>PSPTO_2320</i>	hypothetical protein PSPTO_2320	-1.6
<i>PSPTO_4711</i>	coronamic acid synthetase CmaC	-1.6
<i>PSPTO_5210</i>	EF hand domain-containing protein	-1.61
<i>PSPTO_5644</i>	hypothetical protein PSPTO_5644	-1.62
<i>PSPTO_2239</i>	YD repeat protein	-1.62
<i>PSPTO_3485</i>	lipase family protein	-1.62
<i>PSPTO_3331</i>	protease inhibitor Inh	-1.63
<i>PSPTO_0295</i>	hypothetical protein PSPTO_0295	-1.63
<i>PSPTO_5373</i>	hypothetical protein PSPTO_5373	-1.63
<i>PSPTO_2391</i>	hypothetical protein PSPTO_2391	-1.64
<i>PSPTO_1596</i>	hypothetical protein PSPTO_1596	-1.64
<i>PSPTO_2013</i>	hypothetical protein PSPTO_2013	-1.64
<i>PSPTO_2873</i>	hypothetical protein PSPTO_2873	-1.65
<i>PSPTO_1451</i>	hypothetical protein PSPTO_1451	-1.65
<i>PSPTO_2879</i>	lipoprotein	-1.66
<i>PSPTO_3736</i>	hypothetical protein PSPTO_3736	-1.66
<i>PSPTO_2084</i>	hypothetical protein PSPTO_2084	-1.66
<i>PSPTO_2137</i>	MbtH-like protein	-1.66
<i>PSPTO_5625</i>	binary cytotoxin component	-1.69

<i>PSPTO_0675</i>	arylesterase	-1.71
<i>PSPTO_3938</i>	hypothetical protein PSPTO_3938	-1.71
<i>PSPTO_4717</i>	hypothetical protein PSPTO_4717	-1.71
<i>PSPTO_4676</i>	hypothetical protein PSPTO_4676	-1.71
<i>PSPTO_3132</i>	hypothetical protein PSPTO_3132	-1.73
<i>PSPTO_2492</i>	short-chain dehydrogenase/reductase family oxidoreductase	-1.73
<i>PSPTO_5456</i>	hypothetical protein PSPTO_5456	-1.74
<i>PSPTO_2442</i>	chemotaxis protein CheW	-1.74
<i>PSPTO_2796</i>	hypothetical protein PSPTO_2796	-1.74
<i>PSPTO_5206</i>	EF hand domain-containing protein	-1.74
<i>PSPTO_4741</i>	hypothetical protein PSPTO_4741	-1.74
<i>PSPTO_1931</i>	hypothetical protein PSPTO_1931	-1.75
<i>PSPTO_3547</i>	LysR family transcriptional regulator	-1.77
<i>PSPTO_4326</i>	hypothetical protein PSPTO_4326	-1.77
<i>PSPTO_3120</i>	Cof-like hydrolase family protein	-1.78
<i>PSPTO_0914</i>	STAS domain-containing protein	-1.78
<i>PSPTO_3548</i>	hypothetical protein PSPTO_3548	-1.78
<i>PSPTO_3728</i>	hypothetical protein PSPTO_3728	-1.78
<i>PSPTO_2396</i>	short chain dehydrogenase/reductase family oxidoreductase	-1.79
<i>PSPTO_5073</i>	hypothetical protein PSPTO_5073	-1.79
<i>PSPTO_1485</i>	hypothetical protein PSPTO_1485	-1.81
<i>PSPTO_4743</i>	hypothetical protein PSPTO_4743	-1.81
<i>PSPTO_1507</i>	hypothetical protein PSPTO_1507	-1.82
<i>PSPTO_4747</i>	hypothetical protein PSPTO_4747	-1.82
<i>PSPTO_5204</i>	EF hand domain-containing protein	-1.82
<i>PSPTO_5455</i>	hypothetical protein PSPTO_5455	-1.83
<i>PSPTO_2692</i>	hypothetical protein PSPTO_2692	-1.83
<i>PSPTO_2471</i>	membrane protein	-1.83
<i>PSPTO_5430</i>	hypothetical protein PSPTO_5430	-1.83
<i>PSPTO_3546</i>	hypothetical protein PSPTO_3546	-1.84
<i>PSPTO_1165</i>	hypothetical protein PSPTO_1165	-1.84
<i>PSPTO_4324</i>	hypothetical protein PSPTO_4324	-1.84
<i>PSPTO_4611</i>	hypothetical protein PSPTO_4611	-1.85
<i>PSPTO_3291</i>	methyl-accepting chemotaxis protein	-1.85
<i>PSPTO_3299</i>	3-hydroxyacyl-CoA-acyl carrier protein transferase	-1.86
<i>PSPTO_5233</i>	colicin/pyocin immunity family protein	-1.87
<i>PSPTO_4713</i>	alanyl tRNA synthetase-related protein	-1.88
<i>PSPTO_3218</i>	hypothetical protein PSPTO_3218	-1.88
<i>PSPTO_3600</i>	oxidoreductase, molybdopterin-binding protein	-1.89
<i>PSPTO_3131</i>	hypothetical protein PSPTO_3131	-1.91
<i>PSPTO_0156</i>	hypothetical protein PSPTO_0156	-1.91
<i>PSPTO_5207</i>	hypothetical protein PSPTO_5207	-1.92
<i>PSPTO_5071</i>	hypothetical protein PSPTO_5071	-1.94
<i>PSPTO_2550</i>	hypothetical protein PSPTO_2550	-1.96
<i>PSPTO_1093</i>	relaxase/mobilization nuclease domain protein	-1.97
<i>PSPTO_5458</i>	hypothetical protein PSPTO_5458	-1.99
<i>PSPTO_2397</i>	short chain dehydrogenase	-1.99
<i>PSPTO_1850</i>	hypothetical protein PSPTO_1850	-1.99
<i>PSPTO_0154</i>	hypothetical protein PSPTO_0154	-2

<i>PSPTO_1344</i>	hypothetical protein PSPTO_1344	-2
<i>PSPTO_3019</i>	oxidoreductase, Gfo/Idh/MocA family	-2
<i>PSPTO_3228</i>	hypothetical protein PSPTO_3228	-2.01
<i>PSPTO_2083</i>	hypothetical protein PSPTO_2083	-2.03
<i>PSPTO_3879</i>	hypothetical protein PSPTO_3879	-2.04
<i>PSPTO_3937</i>	hypothetical protein PSPTO_3937	-2.04
<i>PSPTO_5426</i>	hypothetical protein PSPTO_5426	-2.04
<i>PSPTO_1967</i>	hypothetical protein PSPTO_1967	-2.05
<i>PSPTO_1334</i>	methyl-accepting chemotaxis protein	-2.06
<i>PSPTO_2874</i>	ppkA-related protein	-2.07
<i>PSPTO_4754</i>	hypothetical protein PSPTO_4754	-2.07
<i>PSPTO_0038</i>	hypothetical protein PSPTO_0038	-2.08
<i>PSPTO_2877</i>	hypothetical protein PSPTO_2877	-2.09
<i>PSPTO_5423</i>	hypothetical protein PSPTO_5423	-2.09
<i>PSPTO_2641</i>	lipoprotein	-2.09
<i>PSPTO_5414</i>	lipoprotein	-2.1
<i>PSPTO_1097</i>	membrane protein	-2.1
<i>PSPTO_4586</i>	hypothetical protein PSPTO_4586	-2.11
<i>PSPTO_4325</i>	hypothetical protein PSPTO_4325	-2.13
<i>PSPTO_0307</i>	hypothetical protein PSPTO_0307	-2.16
<i>PSPTO_4746</i>	site-specific recombinase, phage integrase family domain protein	-2.16
<i>PSPTO_2952</i>	glycosidase	-2.17
<i>PSPTO_2390</i>	hypothetical protein PSPTO_2390	-2.17
<i>PSPTO_4634</i>	N-acetylmuramoyl-L-alanine amidase	-2.17
<i>PSPTO_0020</i>	hypothetical protein PSPTO_0020	-2.17
<i>PSPTO_2472</i>	methyl-accepting chemotaxis protein	-2.18
<i>PSPTO_5234</i>	hypothetical protein PSPTO_5234	-2.19
<i>PSPTO_4516</i>	hypothetical protein PSPTO_4516	-2.2
<i>PSPTO_1919</i>	hypothetical protein PSPTO_1919	-2.21
<i>PSPTO_3494</i>	myo-inositol 2-dehydrogenase	-2.21
<i>PSPTO_0029</i>	transposition helper protein	-2.21
<i>PSPTO_2872</i>	HopL1 protein	-2.22
<i>PSPTO_5427</i>	hypothetical protein PSPTO_5427	-2.24
<i>PSPTO_4742</i>	site-specific recombinase, phage integrase family	-2.24
<i>PSPTO_4321</i>	hypothetical protein PSPTO_4321	-2.28
<i>PSPTO_4733</i>	hypothetical protein PSPTO_4733	-2.28
<i>PSPTO_4719</i>	hypothetical protein PSPTO_4719	-2.29
<i>PSPTO_5205</i>	hypothetical protein PSPTO_5205	-2.3
<i>PSPTO_2895</i>	hypothetical protein PSPTO_2895	-2.31
<i>PSPTO_0021</i>	hypothetical protein PSPTO_0021	-2.31
<i>PSPTO_4587</i>	hypothetical protein PSPTO_4587	-2.32
<i>PSPTO_5365</i>	hypothetical protein PSPTO_5365	-2.36
<i>PSPTO_5364</i>	hypothetical protein PSPTO_5364	-2.37
<i>PSPTO_2431</i>	hypothetical protein PSPTO_2431	-2.38
<i>PSPTO_2878</i>	lipoprotein	-2.42
<i>PSPTO_4607</i>	hypothetical protein PSPTO_4607	-2.43
<i>PSPTO_1297</i>	hypothetical protein PSPTO_1297	-2.44
<i>PSPTO_4627</i>	hypothetical protein PSPTO_4627	-2.45
<i>PSPTO_2458</i>	hypothetical protein PSPTO_2458	-2.48

<i>PSPTO_3691</i>	ea59 protein	-2.5
<i>PSPTO_3492</i>	oxidoreductase, Gfo/Idh/MocA family	-2.5
<i>PSPTO_0871</i>	macrolide efflux protein	-2.51
<i>PSPTO_1090</i>	hypothetical protein PSPTO_1090	-2.54
<i>PSPTO_4610</i>	hypothetical protein PSPTO_4610	-2.56
<i>PSPTO_5420</i>	hypothetical protein PSPTO_5420	-2.56
<i>PSPTO_4605</i>	hypothetical protein PSPTO_4605	-2.58
<i>PSPTO_4334</i>	hypothetical protein PSPTO_4334	-2.59
<i>PSPTO_1410</i>	exchangeable effector locus protein	-2.59
<i>PSPTO_3690</i>	hypothetical protein PSPTO_3690	-2.61
<i>PSPTO_5619</i>	hypothetical protein PSPTO_5619	-2.67
<i>PSPTO_5355</i>	hypothetical protein PSPTO_5355	-2.68
<i>PSPTO_3217</i>	hypothetical protein PSPTO_3217	-2.69
<i>PSPTO_4606</i>	hypothetical protein PSPTO_4606	-2.7
<i>PSPTO_3616</i>	hypothetical protein PSPTO_3616	-2.71
<i>PSPTO_2696</i>	mutT/nudix family protein	-2.72
<i>PSPTO_4333</i>	moxR protein	-2.87
<i>PSPTO_4372</i>	hypothetical protein PSPTO_4372	-2.89
<i>PSPTO_4323</i>	hypothetical protein PSPTO_4323	-2.93
<i>PSPTO_5419</i>	hypothetical protein PSPTO_5419	-2.93
<i>PSPTO_5421</i>	lipoprotein	-2.93
<i>PSPTO_5209</i>	hypothetical protein PSPTO_5209	-2.94
<i>PSPTO_3929</i>	cold shock domain family protein	-2.95
<i>PSPTO_4322</i>	hypothetical protein PSPTO_4322	-2.96
<i>PSPTO_5437</i>	hypothetical protein PSPTO_5437	-3
<i>PSPTO_5413</i>	EF hand domain-containing protein	-3.08
<i>PSPTO_0856</i>	hypothetical protein PSPTO_0856	-3.17
<i>PSPTO_5645</i>	hypothetical protein PSPTO_5645	-3.28
<i>PSPTO_2422</i>	hypothetical protein PSPTO_2422	-3.43
<i>PSPTO_0837</i>	hypothetical protein PSPTO_0837	-3.53
<i>PSPTO_0201</i>	hypothetical protein PSPTO_0201	-3.57
<i>PSPTO_4272</i>	hypothetical protein PSPTO_4272	-3.59
<i>PSPTO_4763</i>	hypothetical protein PSPTO_4763	-3.63
<i>PSPTO_0371</i>	indoleacetate-lysine ligase	-3.64
<i>PSPTO_4386</i>	hypothetical protein PSPTO_4386	-3.73
<i>PSPTO_5646</i>	hypothetical protein PSPTO_5646	-3.79
<i>PSPTO_1371</i>	effector locus protein	-3.84
<i>PSPTO_4762</i>	von Willebrand factor type A domain-containing protein	-3.84
<i>PSPTO_4387</i>	hypothetical protein PSPTO_4387	-4.1
<i>PSPTO_0545</i>	SpoVR like family protein	-4.11
<i>PSPTO_0546</i>	hypothetical protein PSPTO_0546	-4.14
<i>PSPTO_1409</i>	hypothetical protein PSPTO_1409	-4.15
<i>PSPTO_2679</i>	hypothetical protein PSPTO_2679	-4.39
<i>PSPTO_1408</i>	hypothetical protein PSPTO_1408	-4.52
<i>PSPTO_5622</i>	hypothetical protein PSPTO_5622	-4.79
<i>PSPTO_4332</i>	hypothetical protein PSPTO_4332	-5.1
<i>PSPTO_0875</i>	hypothetical protein PSPTO_0875	-5.18
<i>PSPTO_0874</i>	nikkomycin biosynthesis domain protein	-5.23
<i>PSPTO_2457</i>	hypothetical protein PSPTO_2457	-5.34

Table S2. List of differentially expressed genes of (p)ppGpp⁰_{PssB728a} versus PssB728a with |log₂FC| value ≥1 and an adjusted p-value <0.05.

Locus tag	Gene description	(p)ppGpp ⁰ _{PssB728a} /PssB728a
Type III secretion system		
PSYR_4659	<i>hopAB2</i> , type III effector HopAB2	-1.28
PSYR_1890	type III effector HopAP1	-1.64
PSYR_4269	type III effector HopAE1	-1.65
PSYR_1186	<i>hopM1</i> , type III effector HopM1	-1.75
PSYR_3813	<i>hopAF1</i> , type III effector HopAF1	-1.91
PSYR_0778	<i>hopAG1</i> , type III effector HopAG1	-1.99
PSYR_4326	<i>hopI1</i> , type III effector HopI1	-2.05
PSYR_0738	type III effector protein AvrRpm1	-2.08
PSYR_3839	<i>hopAK1</i> , type III helper protein HopAK1	-2.26
PSYR_1189	<i>hrpH</i> , membrane-bound lytic murein transglycosylase D	-2.5
PSYR_0779	<i>hopAH1</i> , type III effector HopAH1	-2.54
PSYR_1205	<i>hrcU</i> , type III secretion protein HrcU	-2.74
PSYR_1188	<i>avrE1</i> , type III effector protein AvrE1	-2.77
PSYR_1200	<i>hrcC</i> , outer-membrane type III secretion protein HrcC	-2.95
PSYR_1220	type III effector HopX1	-3.04
PSYR_1185	<i>shcM</i> , type III chaperone ShcM	-3.35
PSYR_1215	<i>hrcV</i> , type III secretion protein HrcV	-3.37
PSYR_1197	<i>hrpE</i> , type III secretion protein HrpE	-3.46
PSYR_1216	<i>hrpJ</i> , type III secretion protein HrpJ	-3.46
PSYR_1206	<i>hrcT</i> , type III secretion protein HrcT	-3.58
PSYR_1214	<i>hrpQ</i> , type III secretion protein HrpQ	-3.59
PSYR_1199	<i>hrpG</i> , type III secretion protein HrpG	-3.63
PSYR_1217	<i>hrpL</i> , RNA polymerase sigma factor HrpL	-3.78
PSYR_1202	<i>hrpV</i> , negative regulator of hrp expression HrpV	-3.91
PSYR_1213	<i>hrcN</i> , type III secretion cytoplasmic ATPase HrcN	-3.94
PSYR_1198	type III secretion protein HrpF	-4.04
PSYR_1201	<i>hrpT</i> , type III secretion protein	-4.07
PSYR_1195	<i>hrcJ</i> , type III secretion protein HrcJ	-4.24
PSYR_1889	<i>hopH1</i> , type III effector HopH1	-4.24
PSYR_1196	<i>hrpD</i> , type III secretion protein HrpD	-4.24
PSYR_1184	<i>hrpW1</i> , type III helper protein HrpW1	-4.31
PSYR_1207	<i>hrcS</i> , type III secretion protein HrcS	-4.32
PSYR_1219	type III effector protein AvrB3	-4.56
PSYR_1218	<i>hrpK1</i> , type III helper protein HrpK1	-4.65
PSYR_1208	<i>hrcR</i> , type III secretion protein HrcR	-4.69
PSYR_1210	<i>hrcQa</i> , type III secretion protein HrcQa	-4.91
PSYR_1194	<i>hrpB</i> , type III secretion protein HrpB	-5.17
PSYR_1212	<i>hrpO</i> , type III secretion protein HrpO	-5.2
PSYR_1183	<i>hopAA1-1</i> , type III effector HopAA1-1	-5.28
PSYR_1193	<i>hrpZ1</i> , type III restriction system endonuclease	-5.36
PSYR_1209	<i>hrcQb</i> , type III secretion protein HrcQb	-5.76
PSYR_1192	type III helper protein HrpA2	-5.96
PSYR_4919	<i>avrPto1</i> , type III effector protein AvrPto1	-6.01
PSYR_1211	<i>hrpP</i> , type III secretion protein HrpP	-6.34
Translation, ribosomal structure and biogenesis		

<i>PSYR_0208</i>	endoribonuclease L-PSP	3.22
<i>PSYR_1639</i>	<i>rluC</i> , ribosomal large subunit pseudouridine synthase C	2.46
<i>PSYR_3182</i>	<i>infA</i> , translation initiation factor IF-1	2.33
<i>PSYR_1728</i>	hypothetical protein PSYR_1728	2.26
<i>PSYR_0018</i>	<i>fmt</i> , methionyl-tRNA formyltransferase	2.24
<i>PSYR_0399</i>	<i>rpmE-2</i> , 50S ribosomal protein L31	2.17
<i>PSYR_0225</i>	<i>rpmG</i> , 50S ribosomal protein L33	2.14
<i>PSYR_1343</i>	<i>rpsB</i> , 30S ribosomal protein S2	2.07
<i>PSYR_0019</i>	<i>def-1</i> , polypeptide deformylase	2.03
<i>PSYR_0213</i>	<i>rph</i> , ribonuclease PH	2.02
<i>PSYR_0224</i>	<i>rpmB</i> , 50S ribosomal protein L28	2
<i>PSYR_1390</i>	S4 domain-containing protein	1.9
<i>PSYR_0726</i>	<i>rluD</i> , ribosomal large subunit pseudouridine synthase D	1.7
<i>PSYR_0986</i>	<i>rsmC</i> , ribosomal RNA small subunit methyltransferase C	1.66
<i>PSYR_0701</i>	<i>rplU</i> , 50S ribosomal protein L21	1.66
<i>PSYR_2165</i>	50S ribosomal protein L20	1.66
<i>PSYR_2163</i>	translation initiation factor IF-3	1.66
<i>PSYR_2108</i>	23S rRNA m(2)G2445 methyltransferase	1.63
<i>PSYR_2164</i>	50S ribosomal protein L35	1.63
<i>PSYR_1344</i>	<i>tsf</i> , translation elongation factor Ts	1.62
<i>PSYR_1227</i>	<i>queA</i> , S-adenosylmethionine--tRNA ribosyltransferase-isomerase	1.59
<i>PSYR_0397</i>	<i>argS</i> , arginyl-tRNA synthetase	1.53
<i>PSYR_1977</i>	<i>gluX</i> , glutamyl-tRNA synthetase	1.53
<i>PSYR_4279</i>	methyltransferase	1.52
<i>PSYR_0012</i>	<i>glyQ</i> , glycyl-tRNA synthetase subunit alpha	1.52
<i>PSYR_4119</i>	<i>rpsI</i> , 30S ribosomal protein S9	1.45
<i>PSYR_1228</i>	<i>tgt</i> , queuine tRNA-ribosyltransferase	1.45
<i>PSYR_4558</i>	<i>rplA</i> , 50S ribosomal protein L1	1.4
<i>PSYR_0707</i>	<i>rpsT</i> , 30S ribosomal protein S20	1.38
<i>PSYR_1563</i>	<i>rnd</i> , ribonuclease D	1.37
<i>PSYR_2162</i>	<i>thrS</i> , threonyl-tRNA synthetase	1.37
<i>PSYR_3648</i>	initiation factor 2 subunit family	1.36
<i>PSYR_1234</i>	RNA methyltransferase, TrmH family, group 1	1.3
<i>PSYR_4120</i>	<i>rplM</i> , 50S ribosomal protein L13	1.3
<i>PSYR_1285</i>	<i>rplS</i> , 50S ribosomal protein L19	1.3
<i>PSYR_0830</i>	<i>pcnB</i> , poly(A) polymerase	1.29
<i>PSYR_0017</i>	sun protein	1.28
<i>PSYR_3579</i>	hypothetical protein PSYR_3579	1.26
<i>PSYR_1406</i>	<i>aspS</i> , aspartyl-tRNA synthetase	1.26
<i>PSYR_4559</i>	<i>rplK</i> , 50S ribosomal protein L11	1.25
<i>PSYR_4549</i>	<i>rpsJ</i> , 30S ribosomal protein S10	1.21
<i>PSYR_3585</i>	Sua5/YciO/YrdC/YwIC family protein	1.18
<i>PSYR_3639</i>	hypothetical protein PSYR_3639	1.18
<i>PSYR_2133</i>	RNA pseudouridine synthase family protein	1.17
<i>PSYR_1644</i>	<i>rpmF</i> , 50S ribosomal protein L32	1.16
<i>PSYR_4345</i>	<i>miaB</i> , tRNA-i(6)A37 modification enzyme MiaB	1.15
<i>PSYR_1370</i>	hypothetical protein PSYR_1370	1.13
<i>PSYR_0943</i>	ribosomal 5S rRNA E-loop binding protein Ctc/L25/TL5	1.13
<i>PSYR_4881</i>	TrmH family RNA methyltransferase	1.12

<i>PSYR_4548</i>	<i>rplC</i> , 50S ribosomal protein L3	1.12
<i>PSYR_4634</i>	<i>cca</i> , tRNA nucleotidyltransferase	1.1
<i>PSYR_5137</i>	<i>rpmH</i> , 50S ribosomal protein L34	1.08
<i>PSYR_0011</i>	<i>glyS</i> , glycyl-tRNA synthetase subunit beta	1.07
<i>PSYR_4639</i>	<i>rpsU</i> , 30S ribosomal protein S21	1.04
<i>PSYR_3895</i>	<i>rnt</i> , ribonuclease T	1.03
<i>PSYR_0584</i>	<i>rplI</i> , 50S ribosomal protein L9	1.02
<i>PSYR_1796</i>	N-acetyltransferase GCN5	-1.15
<i>PSYR_5100</i>	hypothetical protein PSYR_5100	-1.3
<i>PSYR_2887</i>	deaminase AmnE	-1.36
<i>PSYR_5059</i>	GNAT family acetyltransferase	-1.43
<i>PSYR_4159</i>	<i>cafA</i> , ribonuclease G	-1.48
<i>PSYR_1462</i>	N-acetyltransferase GCN5	-1.62
<i>PSYR_4179</i>	<i>rbfA</i> , ribosome-binding factor A	-1.7
<i>PSYR_2691</i>	bifunctional UDP-glucuronic acid decarboxylase/UDP-4-amino-4-deoxy-L-arabinose formyltransferase	-1.71
<i>PSYR_4627</i>	<i>ksgA</i> , dimethyladenosine transferase	-3.5
<i>PSYR_2107</i>	<i>rmf</i> , ribosome modulation factor-related protein	-4
RNA processing and modification		
<i>PSYR_0564</i>	<i>orn</i> , oligoribonuclease	1.83
Transcription		
<i>PSYR_0230</i>	GntR family transcriptional regulator/aminotransferase, class I	2.53
<i>PSYR_1044</i>	LysR family transcriptional regulator	2.5
<i>PSYR_0653</i>	heavy metal-dependent transcriptional regulator	2.41
<i>PSYR_3283</i>	<i>lexA-2</i> , LexA repressor	2.2
<i>PSYR_3028</i>	hypothetical protein PSYR_3028	2.14
<i>PSYR_2141</i>	hypothetical protein PSYR_2141	1.96
<i>PSYR_2065</i>	<i>greB-1</i> , transcription elongation factor GreB	1.91
<i>PSYR_0257</i>	S1 RNA binding domain-containing protein	1.71
<i>PSYR_2189</i>	ArsR family transcriptional regulator	1.67
<i>PSYR_1916</i>	RulA protein	1.58
<i>PSYR_0660</i>	transcriptional regulator	1.43
<i>PSYR_3659</i>	<i>bolA</i> , bolA protein	1.39
<i>PSYR_4299</i>	helix-turn-helix, Fis-type	1.35
<i>PSYR_0623</i>	transcriptional regulator	1.33
<i>PSYR_0301</i>	rho, transcription termination factor Rho	1.31
<i>PSYR_4641</i>	<i>rpoD</i> , RNA polymerase sigma-70 factor	1.29
<i>PSYR_4560</i>	<i>nusG</i> , transcription antitermination protein NusG	1.28
<i>PSYR_3027</i>	protein kinase	1.27
<i>PSYR_0210</i>	<i>rpoZ</i> , DNA-directed RNA polymerase subunit omega	1.25
<i>PSYR_4603</i>	repressor protein c2	1.24
<i>PSYR_4748</i>	<i>rpoH</i> , RNA polymerase sigma-32 factor	1.23
<i>PSYR_2933</i>	TetR family transcriptional regulator	1.23
<i>PSYR_1858</i>	LuxR family transcriptional regulator	1.23
<i>PSYR_3917</i>	<i>metR</i> , transcriptional activator MetR	1.17
<i>PSYR_4463</i>	<i>nrdR</i> , hypothetical protein PSYR_4463	1.17
<i>PSYR_2077</i>	Cys regulon transcriptional activator	1.17
<i>PSYR_2405</i>	GntR family transcriptional regulator	1.12
<i>PSYR_2812</i>	peptidase, S24 family	1.09
<i>PSYR_1152</i>	ArsR family transcriptional regulator	1.08

<i>PSYR_0056</i>	<i>algQ</i> , transcriptional regulator AlgQ	1.08
<i>PSYR_0276</i>	zinc uptake regulation protein	1.04
<i>PSYR_0820</i>	DNA-binding transcriptional regulator FruR	-1.02
<i>PSYR_2882</i>	xylose operon regulatory protein	-1.05
<i>PSYR_4731</i>	RNA polymerase sigma-70 family protein	-1.07
<i>PSYR_5057</i>	transcriptional regulator	-1.18
<i>PSYR_2671</i>	regulatory protein LysR	-1.18
<i>PSYR_2154</i>	<i>rbsR</i> , ribose operon repressor	-1.22
<i>PSYR_3062</i>	LysR family transcriptional regulator	-1.29
<i>PSYR_3087</i>	transcriptional regulator GntR	-1.29
<i>PSYR_1622</i>	LuxR transcriptional regulator	-1.31
<i>PSYR_4811</i>	AraC family transcriptional regulator	-1.31
<i>PSYR_4708</i>	AraC family transcriptional regulator	-1.43
<i>PSYR_3185</i>	cold shock domain family protein	-1.43
<i>PSYR_1777</i>	TetR family transcriptional regulator	-1.55
<i>PSYR_0327</i>	sigma-54-binding protein	-1.64
<i>PSYR_0526</i>	hypothetical protein PSYR_0526	-1.91
<i>PSYR_2564</i>	transcriptional regulator GntR	-1.92
<i>PSYR_1312</i>	TetR family transcriptional regulator	-1.95
<i>PSYR_2575</i>	<i>syrR</i> , transcriptional regulator SyrR	-2.11
<i>PSYR_2607</i>	regulatory protein LuxR	-2.29
<i>PSYR_1094</i>	cold shock domain family protein	-2.45
<i>PSYR_4555</i>	<i>rpoB</i> , DNA-directed RNA polymerase subunit beta	-2.57
<i>PSYR_4554</i>	<i>rpoC</i> , DNA-directed RNA polymerase subunit beta\	-3.52
<i>PSYR_3248</i>	sigma-54 dependent transcriptional regulator	-3.96
Replication, recombination and repair		
<i>PSYR_4703</i>	exonuclease	3.82
<i>PSYR_4297</i>	ATP-dependent RNA helicase rhIE	2
<i>PSYR_0458</i>	ATP-dependent RNA helicase rhIE	1.99
<i>PSYR_1378</i>	<i>recA</i> , recA protein	1.95
<i>PSYR_3619</i>	ATP-dependent RNA helicase, DEAD box family	1.92
<i>PSYR_3791</i>	<i>srnB</i> , ATP-dependent RNA helicase SrmB	1.84
<i>PSYR_0516</i>	<i>dbpA</i> , ATP-independent RNA helicase DbpA	1.83
<i>PSYR_1222</i>	ISPsy5, transposase	1.82
<i>PSYR_0400</i>	staphylococcal nuclease-like protein	1.8
<i>PSYR_2148</i>	<i>endA</i> , endonuclease I	1.75
<i>PSYR_3856</i>	DinG family ATP-dependent helicase	1.66
<i>PSYR_1764</i>	<i>dnaQ</i> , DNA polymerase III subunit epsilon	1.65
<i>PSYR_3918</i>	mutT/nudix family protein	1.62
<i>PSYR_2244</i>	<i>topB</i> , DNA topoisomerase III	1.55
<i>PSYR_4370</i>	3-methyladenine DNA glycosylase	1.45
<i>PSYR_1763</i>	<i>rnhA</i> , ribonuclease HI	1.42
<i>PSYR_0215</i>	exodeoxyribonuclease III	1.41
<i>PSYR_1226</i>	site-specific recombinase, phage integrase family	1.4
<i>PSYR_1588</i>	recombination associated protein rdgC	1.36
<i>PSYR_3027</i>	protein kinase	1.27
<i>PSYR_5065</i>	<i>uvrD</i> , DNA helicase II	1.25
<i>PSYR_3704</i>	hypothetical protein PSYR_3704	1.22
<i>PSYR_4761</i>	<i>mutM</i> , formamidopyrimidine-DNA glycosylase	1.15

<i>PSYR_3647</i>	<i>gyrA</i> , DNA gyrase subunit A	1.14
<i>PSYR_0075</i>	<i>rep</i> , ATP-dependent DNA helicase Rep	1.13
<i>PSYR_0484</i>	hypothetical protein PSYR_0484	1.13
<i>PSYR_4518</i>	<i>ssB</i> , single-stranded DNA-binding protein	1.07
<i>PSYR_0013</i>	<i>tag</i> , DNA-3-methyladenine glycosidase I	1.06
<i>PSYR_3970</i>	<i>ung</i> , uracil-DNA glycosylase	1.03
<i>PSYR_2060</i>	TatD family hydrolase	1.01
<i>PSYR_3804</i>	ATP-dependent DNA helicase RecQ	-1.06
<i>PSYR_1433</i>	C-5 cytosine-specific DNA methylase	-1.09
<i>PSYR_0736</i>	umuC protein, partial	-1.14
<i>PSYR_3805</i>	hypothetical protein PSYR_3805	-1.15
<i>PSYR_0681</i>	exodeoxyribonuclease V subunit beta	-1.22
<i>PSYR_2914</i>	ATP-dependent DNA helicase RecQ	-1.23
<i>PSYR_1715</i>	exonuclease SbcD	-1.26
<i>PSYR_3984</i>	DNA helicase-like protein	-1.32
<i>PSYR_1888</i>	integrase/recombinase XerC	-1.47
<i>PSYR_4754</i>	methyltransferase	-1.52
<i>PSYR_4354</i>	<i>hola</i> , DNA polymerase III subunit delta	-1.59
<i>PSYR_1522</i>	single-stranded DNA-binding protein	-1.61
<i>PSYR_2896</i>	excinuclease ABC subunit C	-1.63
<i>PSYR_0682</i>	<i>recD</i> , exodeoxyribonuclease V subunit alpha	-1.87
<i>PSYR_0526</i>	hypothetical protein PSYR_0526	-1.91
<i>PSYR_3888</i>	endonuclease III	-1.96
<i>PSYR_1357</i>	ribonuclease HII	-2.07
<i>PSYR_1714</i>	exonuclease SbcC	-2.19
<i>PSYR_2828</i>	C-5 cytosine-specific DNA methylase	-2.39
<i>PSYR_1090</i>	<i>holC</i> , DNA polymerase III subunit chi	-2.47
<i>PSYR_4091</i>	mutT/nudix family protein	-2.49
Cell cycle control, cell division, chromosome partitioning		
<i>PSYR_3284</i>	<i>sula</i> , cell division inhibitor	1.44
<i>PSYR_1818</i>	cell division protein ZipA	1.29
<i>PSYR_1642</i>	<i>maf-1</i> , maf protein	1.17
<i>PSYR_3885</i>	ParA family protein	1.11
<i>PSYR_1612</i>	<i>minD</i> , septum site-determining protein MinD	1.08
<i>PSYR_3587</i>	intracellular septation protein A	1.03
<i>PSYR_3705</i>	hypothetical protein PSYR_3705	1
<i>PSYR_1360</i>	cell cycle protein mesJ	-1.01
<i>PSYR_1364</i>	hypothetical protein PSYR_1364	-1.26
<i>PSYR_4160</i>	maf-2, maf protein	-1.31
<i>PSYR_4103</i>	cell division protein FtsW	-1.56
<i>PSYR_3430</i>	<i>ParA</i> , family protein	-1.58
<i>PSYR_4098</i>	cell division protein FtsA	-1.97
<i>PSYR_4097</i>	cell division protein FtsZ	-3.01
<i>PSYR_1555</i>	cobyrinic acid a,c-diamide synthase	-3.51
Defense mechanisms		
<i>PSYR_0536</i>	<i>msbA</i> , lipid A ABC transporter, ATP-binding/permease protein	2.05
<i>PSYR_3037</i>	membrane protein	1.45
<i>PSYR_1905</i>	<i>lolD</i> , lipoprotein releasing system, ATP-binding protein LolD	1.33
<i>PSYR_2617</i>	<i>syfC</i> , syringafactin efflux protein SyfC	-1.03

<i>PSYR_2541</i>	oligopeptide/dipeptide ABC transporter ATP-binding protein-like protein	-1.23
<i>PSYR_2618</i>	<i>syfD</i> , syringafactin efflux protein SyfD	-1.49
<i>PSYR_2622</i>	acriflavin resistance protein	-1.6
<i>PSYR_4008</i>	<i>saxB</i> , isothiocyanate resistance protein SaxB; isochorismatase family	-1.77
<i>PSYR_3725</i>	hypothetical protein PSYR_3725	-1.8
<i>PSYR_2483</i>	acriflavin resistance protein	-1.89
<i>PSYR_2613</i>	cyclic peptide transporter	-2.16
<i>PSYR_4924</i>	hypothetical protein PSYR_4924	-2.17
<i>PSYR_3076</i>	Type I secretion system ATPase, HlyB	-2.72
<i>PSYR_3724</i>	hypothetical protein PSYR_3724	-2.88
<i>PSYR_2484</i>	AcrB/AcrD/AcrF family protein	-3.09
<i>PSYR_2628</i>	ABC transporter ATP-binding protein	-4.67
Signal transduction mechanisms		
<i>PSYR_4702</i>	nucleotidyltransferase	5.71
<i>PSYR_4273</i>	<i>cstA</i> , carbon starvation protein CstA	2.91
<i>PSYR_4821</i>	<i>ntrB</i> , nitrogen regulation protein NtrB	2.47
<i>PSYR_3497</i>	hypothetical protein PSYR_3497	2.31
<i>PSYR_3299</i>	LuxR family DNA-binding response regulator	2.21
<i>PSYR_1585</i>	sensory box histidine kinase/response regulator	2.01
<i>PSYR_4642</i>	sensory box/GGDEF domain/EAL domain-containing protein	2
<i>PSYR_4800</i>	DNA-binding heavy metal response regulator	1.95
<i>PSYR_4799</i>	heavy metal sensor histidine kinase	1.66
<i>PSYR_2113</i>	extracellular solute-binding protein/sensory box protein, partial	1.64
<i>PSYR_4822</i>	<i>ntrC</i> , nitrogen regulation protein NR(I)	1.61
<i>PSYR_0086</i>	sensory box/GGDEF domain/EAL domain-containing protein	1.35
<i>PSYR_4346</i>	PhoH-like protein	1.29
<i>PSYR_3027</i>	protein kinase	1.27
<i>PSYR_4070</i>	<i>colR</i> , DNA-binding response regulator ColR	1.23
<i>PSYR_3262</i>	dnaK suppressor protein	1.23
<i>PSYR_3293</i>	universal stress protein family	1.21
<i>PSYR_2024</i>	<i>sixA</i> , phosphohistidine phosphatase SixA	1.21
<i>PSYR_0263</i>	alginate biosynthesis transcriptional regulator AlgB	1.18
<i>PSYR_0063</i>	alginate biosynthesis regulatory protein AlgR	1.04
<i>PSYR_4937</i>	sensor histidine kinase	1
<i>PSYR_3329</i>	PAS:GGDEF	-1.01
<i>PSYR_3434</i>	chemotaxis sensor histidine kinase CheA	-1.04
<i>PSYR_3436</i>	chemotaxis protein CheY	-1.05
<i>PSYR_3655</i>	sensory box/GGDEF domain/EAL domain-containing protein	-1.06
<i>PSYR_1111</i>	DNA-binding response regulator	-1.07
<i>PSYR_2446</i>	chemotaxis protein methyltransferase CheR	-1.11
<i>PSYR_2939</i>	diguanylate cyclase	-1.15
<i>PSYR_4060</i>	GGDEF domain/EAL domain protein	-1.17
<i>PSYR_0868</i>	histidine kinase, HAMP region: chemotaxis sensory transducer	-1.17
<i>PSYR_2966</i>	methyl-accepting chemotaxis protein	-1.21
<i>PSYR_2076</i>	universal stress protein family	-1.21
<i>PSYR_2188</i>	histidine kinase	-1.21
<i>PSYR_1497</i>	heavy metal response regulator	-1.22
<i>PSYR_1304</i>	chemotaxis protein CheW	-1.24

PSYR_0788	<i>cheY-1</i> , chemotaxis protein CheY	-1.28
PSYR_3435	chemotaxis protein CheZ	-1.29
PSYR_1159	sensory box/GGDEF domain/EAL domain-containing protein	-1.29
PSYR_3554	<i>csrA-2</i> , carbon storage regulator	-1.29
PSYR_1308	protein-glutamate methylesterase CheB	-1.32
PSYR_3996	sensory box DNA/response regulator	-1.32
PSYR_0492	sensor histidine kinase/response regulator	-1.34
PSYR_4770	sensory box/GGDEF domain/EAL domain-containing protein	-1.35
PSYR_0524	lipopolysaccharide core biosynthesis protein	-1.35
PSYR_0783	<i>cheR-1</i> , chemotaxis protein methyltransferase CheR	-1.38
PSYR_2597	diguanylate cyclase	-1.38
PSYR_2281	diguanylate cyclase	-1.4
PSYR_3451	response regulator	-1.42
PSYR_3452	STAS domain-containing protein	-1.46
PSYR_0525	lipopolysaccharide biosynthesis protein	-1.51
PSYR_1100	hypothetical protein PSYR_1100	-1.55
PSYR_1309	response regulator/GGDEF domain-containing protein	-1.56
PSYR_3532	sensory box histidine kinase/response regulator	-1.6
PSYR_2220	methyl-accepting chemotaxis protein	-1.62
PSYR_1307	sensor histidine kinase/response regulator	-1.7
PSYR_1305	chemotaxis protein methyltransferase CheR	-1.76
PSYR_1066	PhoH-like protein	-1.77
PSYR_3994	sensor histidine kinase	-1.78
PSYR_1776	methyl-accepting chemotaxis protein	-1.81
PSYR_0786	<i>cheA-1</i> , chemotaxis sensor histidine kinase CheA	-1.81
PSYR_3433	protein-glutamate methylesterase CheB	-1.82
PSYR_3093	hypothetical protein PSYR_3093	-1.87
PSYR_0526	hypothetical protein PSYR_0526	-1.91
PSYR_1306	chemotaxis protein CheW	-1.96
PSYR_0266	diguanylate cyclase	-2.01
PSYR_4377	response regulator	-2.06
PSYR_0994	HDIG domain protein	-2.13
PSYR_1112	sensor histidine kinase	-2.17
PSYR_0870	diguanylate cyclase	-2.18
PSYR_4221	GAF domain/GGDEF domain/EAL domain protein	-2.19
PSYR_0509	response regulator/sensory box/GGDEF domain/EAL domain protein	-2.22
PSYR_1099	response regulator receiver	-2.27
PSYR_3995	sigma-54 dependent transcriptional regulator/response regulator	-2.35
PSYR_2245	hypothetical protein PSYR_2245	-2.38
PSYR_4373	sensory box histidine kinase	-2.41
PSYR_4631	hypothetical protein PSYR_4631	-2.46
PSYR_0784	<i>cheW-1</i> , chemotaxis protein CheW	-2.49
PSYR_4408	sensor histidine kinase/response regulator RetS	-2.64
PSYR_4376	DNA binding response regulator, LuxR family	-2.75
PSYR_1098	sensory box protein/response regulator	-2.77
PSYR_4206	diguanylate cyclase	-2.79
PSYR_0785	methyl-accepting chemotaxis protein	-3.17
Cell wall/membrane/envelope biogenesis		
PSYR_4807	outer membrane porin, OprD family	4.17

<i>PSYR_2496</i>	lipopolysaccharide core biosynthesis domain protein	2.81
<i>PSYR_1904</i>	<i>lolC</i> , lipoprotein releasing system transmembrane protein LolC	2.37
<i>PSYR_1232</i>	hypothetical protein PSYR_1232	2.37
<i>PSYR_5117</i>	glucosamine--fructose-6-phosphate aminotransferase	2.24
<i>PSYR_4841</i>	<i>lgt</i> , prolipoprotein diacylglycerol transferase	2.22
<i>PSYR_2980</i>	<i>galU</i> , UTP-glucose-1-phosphate uridylyltransferase	2.14
<i>PSYR_0368</i>	lipoprotein Blc	2.06
<i>PSYR_1999</i>	ompA family protein	1.93
<i>PSYR_4743</i>	<i>mtgA</i> , monofunctional biosynthetic peptidoglycan transglycosylase	1.68
<i>PSYR_1614</i>	<i>htrB</i> , lipid A biosynthesis lauroyl acyltransferase	1.65
<i>PSYR_0014</i>	lipid A biosynthesis lauroyl acyltransferase	1.61
<i>PSYR_0542</i>	<i>kdtA</i> , 3-deoxy-D-manno-octulosonic-acid transferase	1.61
<i>PSYR_0842</i>	penicillin-binding protein	1.54
<i>PSYR_0725</i>	competence lipoprotein ComL	1.53
<i>PSYR_3919</i>	D-alanine--D-alanine ligase	1.5
<i>PSYR_4801</i>	metal ion efflux outer membrane protein	1.48
<i>PSYR_4086</i>	mechanosensitive ion channel family protein	1.4
<i>PSYR_0535</i>	toluene tolerance protein	1.37
<i>PSYR_4142</i>	sugar isomerase	1.35
<i>PSYR_1268</i>	periplasmic binding domain/transglycosylase SLT domain fusion protein	1.31
<i>PSYR_4365</i>	penicillin-binding protein	1.28
<i>PSYR_0937</i>	mannose-1-phosphate guanylyltransferase/mannose-6-phosphate isomerase	1.28
<i>PSYR_0051</i>	hypothetical protein PSYR_0051	1.25
<i>PSYR_0880</i>	transglycosylase	1.2
<i>PSYR_1906</i>	<i>lolE</i> , lipoprotein releasing system transmembrane protein LolE	1.2
<i>PSYR_1822</i>	mechanosensitive ion channel family protein	1.19
<i>PSYR_4900</i>	hypothetical protein PSYR_4900	1.18
<i>PSYR_0520</i>	<i>rfaF</i> , ADP-heptose--LPS heptosyltransferase II	1.16
<i>PSYR_0237</i>	alanine racemase	1.16
<i>PSYR_2478</i>	hypothetical protein PSYR_2478	1.15
<i>PSYR_0630</i>	UDP-N-acetylmuramate:L-alanyl-gamma-D-glutamyl-meso-diaminopimelate ligase	1.11
<i>PSYR_0637</i>	membrane protein	1.1
<i>PSYR_2313</i>	penicillin-binding protein	1.07
<i>PSYR_5035</i>	peptidase, M23/M37 family	1.06
<i>PSYR_0569</i>	N-acetylmuramoyl-L-alanine amidase family protein	1.04
<i>PSYR_2095</i>	membrane protein	1.03
<i>PSYR_3083</i>	RND efflux system, outer membrane lipoprotein, NodT	1.03
<i>PSYR_4135</i>	UDP-N-acetylglucosamine 1-carboxyvinyltransferase	1.01
<i>PSYR_1599</i>	<i>prc</i> , tail-specific protease	-1.02
<i>PSYR_1362</i>	<i>kdsA</i> , 2-dehydro-3-deoxyphosphooctonate aldolase	-1.03
<i>PSYR_4805</i>	Rhs family protein	-1.08
<i>PSYR_4104</i>	UDP-N-acetylmuramoylalanine--D-glutamate ligase	-1.15
<i>PSYR_4997</i>	YD repeat-containing protein, partial	-1.16
<i>PSYR_2703</i>	hypothetical protein PSYR_2703	-1.17
<i>PSYR_4033</i>	insecticidal toxin protein	-1.19
<i>PSYR_4036</i>	insecticidal toxin protein	-1.21
<i>PSYR_2690</i>	glycosyl transferase family protein	-1.26
<i>PSYR_2287</i>	<i>tonB-2</i> , tonB protein	-1.3

<i>PSYR_4566</i>	peptidase, M23/M37 family	-1.31
<i>PSYR_2620</i>	RND efflux system, outer membrane lipoprotein, NodT	-1.35
<i>PSYR_3490</i>	hypothetical protein <i>PSYR_3490</i>	-1.44
<i>PSYR_4102</i>	UDP-N-acetylglucosamine-N-acetylmuramyl- (pentapeptide) pyrophosphoryl-undecaprenol N- acetylglucosamine transferase	-1.48
<i>PSYR_3302</i>	mannose-1-phosphate guanylyltransferase/mannose-6-phosphate isomerase PslB	-1.49
<i>PSYR_0929</i>	glycosyl transferase family protein	-1.54
<i>PSYR_1060</i>	<i>algK</i> , alginate biosynthesis protein AlgK	-1.56
<i>PSYR_4101</i>	UDP-N-acetylmuramate--L-alanine ligase	-1.59
<i>PSYR_1059</i>	<i>algE</i> , alginate biosynthesis protein AlgE	-1.59
<i>PSYR_1516</i>	hypothetical protein <i>PSYR_1516</i>	-1.6
<i>PSYR_3760</i>	hypothetical protein <i>PSYR_3760</i>	-1.63
<i>PSYR_4100</i>	D-alanine--D-alanine ligase	-1.65
<i>PSYR_4105</i>	<i>mraY</i> , phospho-N-acetylmuramoyl-pentapeptide-transferase	-1.72
<i>PSYR_4994</i>	rhs-like protein	-1.72
<i>PSYR_4107</i>	<i>murE</i> , UDP-N-acetylmuramoylalanyl-D-glutamate--2,6- diaminopimelate ligase	-1.75
<i>PSYR_1352</i>	outer membrane protein OmpH	-1.82
<i>PSYR_4099</i>	cell division protein FtsQ	-1.83
<i>PSYR_3303</i>	lipoprotein PslD	-1.83
<i>PSYR_0920</i>	group 1 glycosyl transferase	-1.91
<i>PSYR_2693</i>	4-amino-4-deoxy-L-arabinose transferase	-1.97
<i>PSYR_2606</i>	RND efflux system, outer membrane lipoprotein, NodT	-2.02
<i>PSYR_1055</i>	<i>algI</i> , alginate biosynthesis protein AlgI	-2.07
<i>PSYR_1355</i>	<i>lpxA</i> , UDP-N-acetylglucosamine acyltransferase	-2.14
<i>PSYR_3309</i>	membrane protein PslJ	-2.15
<i>PSYR_1058</i>	<i>algG</i> , alginate biosynthesis protein AlgG	-2.15
<i>PSYR_2696</i>	UDP-glucose 6-dehydrogenase	-2.16
<i>PSYR_0956</i>	cyclopropane-fatty-acyl-phospholipid synthase	-2.19
<i>PSYR_1054</i>	<i>algJ</i> , alginate biosynthesis protein AlgJ	-2.24
<i>PSYR_4237</i>	outer membrane porin, OprD family	-2.26
<i>PSYR_2321</i>	YD repeat-containing protein	-2.48
<i>PSYR_1356</i>	lipid A disaccharide synthase	-2.51
<i>PSYR_1117</i>	<i>oprB</i> , porin B	-2.58
<i>PSYR_3304</i>	exopolysaccharide biosynthesis protein PslE	-2.62
<i>PSYR_2322</i>	YD repeat-containing protein	-2.62
<i>PSYR_1353</i>	UDP-3-O	-2.67
<i>PSYR_3468</i>	glycosyl transferase family protein	-2.88
<i>PSYR_4964</i>	OmpA/MotB protein	-2.95
<i>PSYR_2485</i>	outer membrane efflux protein	-3.15
<i>PSYR_1052</i>	<i>algA</i> , alginate biosynthesis protein AlgA	-3.25
<i>PSYR_1053</i>	<i>algF</i> , alginate biosynthesis protein AlgF	-3.29
<i>PSYR_4988</i>	Rhs family protein	-3.3
<i>PSYR_3469</i>	glycosyl transferase family protein	-3.36
<i>PSYR_4986</i>	YD repeat-containing protein	-3.4
<i>PSYR_3307</i>	glycosyl transferase, group 1 family protein PslH	-3.46
<i>PSYR_3308</i>	glycosyl transferase, group 1 family protein PslI	-3.5
<i>PSYR_3305</i>	glycosyl transferase, group 1 family protein PslF	-4.04
<i>PSYR_3088</i>	group 1 glycosyl transferase	-4.56
<i>PSYR_3131</i>	RND family efflux transporter MFP subunit	-4.87

Cell motility		
<i>PSYR_3449</i>	flagellar hook-length control protein FliK	-1
<i>PSYR_2446</i>	chemotaxis protein methyltransferase CheR	-1.11
<i>PSYR_0868</i>	histidine kinase, HAMP region: chemotaxis sensory transducer	-1.17
<i>PSYR_2188</i>	histidine kinase	-1.21
<i>PSYR_1304</i>	chemotaxis protein CheW	-1.24
<i>PSYR_3475</i>	<i>flgG</i> , flagellar basal-body rod protein FlgG	-1.27
<i>PSYR_3455</i>	flagellar assembly protein H	-1.33
<i>PSYR_3443</i>	<i>fliQ</i> , flagellar biosynthetic protein FliQ	-1.36
<i>PSYR_3474</i>	<i>flgH</i> , flagellar L-ring protein FlgH	-1.36
<i>PSYR_0783</i>	<i>cheR-1</i> , chemotaxis protein methyltransferase CheR	-1.38
<i>PSYR_3473</i>	<i>flgI</i> , flagellar P-ring protein FlgI	-1.43
<i>PSYR_3442</i>	flagellar biosynthetic protein FliR	-1.57
<i>PSYR_3472</i>	peptidoglycan hydrolase FlgJ	-1.61
<i>PSYR_3441</i>	flagellar biosynthetic protein FlhB	-1.74
<i>PSYR_3454</i>	flagellum-specific ATP synthase FliI	-1.76
<i>PSYR_1305</i>	chemotaxis protein methyltransferase CheR	-1.76
<i>PSYR_1511</i>	type II secretion system protein E	-1.93
<i>PSYR_1306</i>	chemotaxis protein CheW	-1.96
<i>PSYR_3453</i>	flagellar biosynthesis chaperone	-2.04
<i>PSYR_3481</i>	flagellar basal-body rod protein FlgB	-2.09
<i>PSYR_3466</i>	<i>fliC</i> , flagellin	-2.14
<i>PSYR_3480</i>	flagellar basal body rod protein FlgC	-2.18
<i>PSYR_3432</i>	flagellar motor protein	-2.25
<i>PSYR_3479</i>	<i>flgD</i> , basal-body rod modification protein FlgD	-2.42
<i>PSYR_0784</i>	<i>cheW-1</i> , chemotaxis protein CheW	-2.49
<i>PSYR_0796</i>	<i>pilD</i> , type IV pilus prepilin peptidase PilD	-2.69
<i>PSYR_3464</i>	<i>fliD</i> , flagellar hook-associated protein FliD	-2.84
<i>PSYR_3431</i>	motB protein	-2.91
<i>PSYR_3465</i>	flagellin FlaG	-2.98
<i>PSYR_0785</i>	methyl-accepting chemotaxis protein	-3.17
<i>PSYR_3470</i>	<i>flgL</i> , flagellar hook-associated protein FlgL	-3.26
<i>PSYR_3478</i>	<i>flgE-1</i> , flagellar hook protein FlgE	-3.39
Intracellular trafficking, secretion, and vesicular transport		
<i>PSYR_4183</i>	<i>secG</i> , preprotein translocase subunit SecG	1.85
<i>PSYR_1641</i>	signal peptide peptidase SppA, 36K type	1.74
<i>PSYR_3149</i>	<i>gspG</i> , general secretion pathway protein G	1.69
<i>PSYR_4643</i>	conjugal transfer protein	1.69
<i>PSYR_3390</i>	<i>ccmD</i> , heme exporter protein CcmD	1.61
<i>PSYR_3148</i>	<i>gspH</i> , general secretion pathway protein H	1.4
<i>PSYR_3151</i>	<i>gspE</i> , general secretion pathway protein E	1.36
<i>PSYR_3150</i>	<i>gspF</i> , general secretion pathway protein F	1.34
<i>PSYR_0410</i>	hypothetical protein PSYR_0410	1.18
<i>PSYR_4882</i>	<i>secB</i> , protein-export protein SecB	1.1
<i>PSYR_3147</i>	general secretion pathway protein I	1.09
<i>PSYR_3805</i>	hypothetical protein PSYR_3805	-1.15
<i>PSYR_1517</i>	type II and III secretion system protein	-1.41
<i>PSYR_0382</i>	<i>tatC</i> , sec-independent protein translocase TatC	-1.67
<i>PSYR_3077</i>	Type I secretion outer membrane protein, TolC	-1.67

<i>PSYR_1513</i>	type II secretion system protein	-1.71
<i>PSYR_1514</i>	type II secretion system protein E	-1.71
<i>PSYR_1512</i>	prepilin	-1.73
<i>PSYR_3454</i>	flagellum-specific ATP synthase FliI	-1.76
<i>PSYR_0798</i>	type IV pilus biogenesis protein PilB	-1.9
<i>PSYR_1511</i>	type II secretion system protein E	-1.93
<i>PSYR_0799</i>	type IV pilus biogenesis protein	-2.38
<i>PSYR_0796</i>	<i>pilD</i> , type IV pilus prepilin peptidase PilD	-2.69
<i>PSYR_4374</i>	hypothetical protein PSYR_4374	-2.71
<i>PSYR_3075</i>	Type I secretion membrane fusion protein, HlyD	-3.06
<i>PSYR_0797</i>	<i>pilC</i> , type IV pilus biogenesis protein PilC	-3.2
<i>PSYR_4960</i>	hypothetical protein PSYR_4960	-3.77
Posttranslational modification, protein turnover, chaperones		
<i>PSYR_4452</i>	urease accessory protein UreF	4.78
<i>PSYR_4451</i>	urease accessory protein UreE	4
<i>PSYR_1980</i>	heat shock protein, Hsp20 family	3.86
<i>PSYR_4454</i>	urease accessory protein	2.78
<i>PSYR_1594</i>	FKBP-type peptidyl-prolyl cis-trans isomerase	2.53
<i>PSYR_2083</i>	hypothetical protein PSYR_2083	2.41
<i>PSYR_0268</i>	<i>dsbA</i> , thiol:disulfide interchange protein DsbA	2.26
<i>PSYR_3700</i>	lipoprotein	1.85
<i>PSYR_3616</i>	<i>htpX</i> , heat shock protein HtpX	1.84
<i>PSYR_4203</i>	<i>smpB</i> , SsrA-binding protein	1.74
<i>PSYR_1641</i>	signal peptide peptidase SppA, 36K type	1.74
<i>PSYR_1016</i>	<i>trxB</i> , thioredoxin reductase	1.67
<i>PSYR_1289</i>	<i>dsbC</i> , thiol:disulfide interchange protein DsbC	1.63
<i>PSYR_3393</i>	<i>ccmA</i> , heme exporter protein CcmA	1.6
<i>PSYR_4073</i>	chaperonin, 10 kDa	1.56
<i>PSYR_3389</i>	<i>ccmE</i> , cytochrome c-type biogenesis protein CcmE	1.53
<i>PSYR_4883</i>	glutaredoxin	1.49
<i>PSYR_3392</i>	<i>ccmB</i> , heme exporter protein CcmB	1.41
<i>PSYR_2901</i>	<i>ppiC-1</i> , peptidyl-prolyl cis-trans isomerase C	1.32
<i>PSYR_2907</i>	<i>ppiC-2</i> , peptidyl-prolyl cis-trans isomerase C	1.29
<i>PSYR_4072</i>	chaperonin, 60 kDa	1.26
<i>PSYR_3391</i>	<i>ccmC</i> , heme exporter protein CcmC	1.25
<i>PSYR_4752</i>	peptidase, M16 family	1.25
<i>PSYR_2466</i>	<i>yhgI</i> , yhgI protein	1.24
<i>PSYR_1746</i>	<i>tig</i> , trigger factor	1.23
<i>PSYR_4130</i>	trypsin domain-containing protein	1.2
<i>PSYR_4398</i>	<i>dsbD</i> , thiol:disulfide interchange protein DsbD	1.19
<i>PSYR_1140</i>	<i>dsbB</i> , disulfide oxidoreductase	1.17
<i>PSYR_4118</i>	<i>sspA</i> , stringent starvation protein A	1.16
<i>PSYR_0300</i>	<i>trx-2</i> , thioredoxin	1.13
<i>PSYR_1844</i>	hypothetical protein PSYR_1844	1.12
<i>PSYR_4194</i>	<i>dnaJ</i> , dnaJ protein	1.07
<i>PSYR_1629</i>	glutathione S-transferase family protein	1.03
<i>PSYR_0984</i>	lipoprotein	1.02
<i>PSYR_3733</i>	autotransporter	-1.13
<i>PSYR_2195</i>	urease accessory protein UreD	-1.13

<i>PSYR_4977</i>	ADP-ribosylglycohydrolase	-1.22
<i>PSYR_4625</i>	peptidyl-prolyl cis-trans isomerase SurA	-1.37
<i>PSYR_3061</i>	glutathione S-transferase	-1.47
<i>PSYR_4567</i>	hypothetical protein PSYR_4567	-2.02
<i>PSYR_4092</i>	glutathione S-transferase family protein	-2.53
<i>PSYR_0796</i>	<i>pilD</i> , type IV pilus prepilin peptidase PilD	-2.69
<i>PSYR_4877</i>	antioxidant, AhpC/Tsa family	-3.13
<i>PSYR_4958</i>	clpB protein	-3.45
Energy production and conversion		
<i>PSYR_0629</i>	aldehyde dehydrogenase family protein	2.7
<i>PSYR_3196</i>	<i>aceA</i> , isocitrate lyase	2.34
<i>PSYR_5127</i>	<i>atpB</i> , F0F1 ATP synthase subunit A	1.98
<i>PSYR_5013</i>	CAIB/BAIF family protein	1.84
<i>PSYR_1011</i>	oxidoreductase FAD/FMN-binding protein	1.77
<i>PSYR_1375</i>	<i>fdxA</i> , ferredoxin	1.6
<i>PSYR_0091</i>	succinate-semialdehyde dehydrogenase	1.59
<i>PSYR_4851</i>	oxidoreductase, FAD-binding protein	1.58
<i>PSYR_2022</i>	<i>gpsA</i> , glycerol-3-phosphate dehydrogenase (NAD(P)+)	1.57
<i>PSYR_0168</i>	<i>pckA</i> , phosphoenolpyruvate carboxykinase	1.55
<i>PSYR_0539</i>	oxidoreductase, aldo/keto reductase family	1.55
<i>PSYR_0976</i>	<i>mgo</i> , malate:quinone oxidoreductase	1.52
<i>PSYR_0198</i>	citrate transporter	1.46
<i>PSYR_2006</i>	succinate dehydrogenase, hydrophobic membrane anchor protein	1.38
<i>PSYR_2005</i>	<i>sdhC</i> , succinate dehydrogenase, cytochrome b556 subunit	1.37
<i>PSYR_0456</i>	cytochrome b561	1.35
<i>PSYR_0232</i>	hypothetical protein PSYR_0232	1.32
<i>PSYR_0227</i>	aldehyde dehydrogenase family protein	1.27
<i>PSYR_1902</i>	glycerophosphoryl diester phosphodiesterase	1.26
<i>PSYR_0624</i>	<i>ppa-I</i> , inorganic pyrophosphatase	1.25
<i>PSYR_4733</i>	betaine aldehyde dehydrogenase BADH	1.24
<i>PSYR_1141</i>	<i>cyoA</i> , cytochrome o ubiquinol oxidase subunit II	1.13
<i>PSYR_1367</i>	alcohol dehydrogenase, class III	1.13
<i>PSYR_2973</i>	lactoylglutathione lyase	1.12
<i>PSYR_1153</i>	oxidoreductase zinc-binding protein	1.11
<i>PSYR_1992</i>	oxidoreductase zinc-binding protein	1.1
<i>PSYR_2007</i>	succinate dehydrogenase, flavoprotein subunit	1.1
<i>PSYR_2004</i>	<i>gltA</i> , citrate synthase I	1.06
<i>PSYR_4031</i>	fumarate hydratase, class I	1.06
<i>PSYR_2387</i>	malate:quinone oxidoreductase	1.04
<i>PSYR_4759</i>	ferredoxin	1.03
<i>PSYR_5125</i>	<i>atpF</i> , F0F1 ATP synthase subunit B	1.02
<i>PSYR_2533</i>	oxidoreductase, FAD-binding	1.02
<i>PSYR_2394</i>	aldehyde dehydrogenase family protein	1.01
<i>PSYR_0313</i>	oxidoreductase zinc-binding protein	1
<i>PSYR_2011</i>	dihydrolipoamide dehydrogenase	-1.02
<i>PSYR_2377</i>	hypothetical protein PSYR_2377	-1.03
<i>PSYR_2010</i>	dihydrolipoamide succinyltransferase	-1.03
<i>PSYR_2302</i>	FAD linked oxidase domain-containing protein	-1.03
<i>PSYR_3200</i>	<i>nuoE</i> , NADH dehydrogenase subunit E	-1.06

<i>PSYR_2330</i>	oxidoreductase, FAD-binding protein	-1.08
<i>PSYR_2190</i>	<i>xenA</i> , xenobiotic reductase A	-1.13
<i>PSYR_1481</i>	<i>ppa-2</i> , inorganic pyrophosphatase	-1.2
<i>PSYR_2672</i>	citrate transporter	-1.21
<i>PSYR_3201</i>	NADH dehydrogenase I subunit F	-1.27
<i>PSYR_1625</i>	pyruvate dehydrogenase, E1 component	-1.36
<i>PSYR_3905</i>	glycerol kinase	-1.38
<i>PSYR_3372</i>	hypothetical protein <i>PSYR_3372</i>	-1.47
<i>PSYR_3887</i>	iron-sulfur cluster-binding protein	-1.47
<i>PSYR_4718</i>	glutathione-independent formaldehyde dehydrogenase	-1.53
<i>PSYR_0428</i>	hypothetical protein <i>PSYR_0428</i>	-1.54
<i>PSYR_4782</i>	NADH:flavin oxidoreductase/NADH oxidase family protein	-1.67
<i>PSYR_0352</i>	DszA family monooxygenase	-1.76
<i>PSYR_2462</i>	sulfite reductase	-1.88
<i>PSYR_2278</i>	luciferase family protein	-1.95
<i>PSYR_3202</i>	NADH dehydrogenase subunit G	-2.1
<i>PSYR_2013</i>	<i>sucD</i> , succinyl-CoA synthetase subunit alpha	-2.31
<i>PSYR_2012</i>	<i>sucC</i> , succinyl-CoA synthetase subunit beta	-2.35
<i>PSYR_3203</i>	NADH:ubiquinone oxidoreductase subunit H	-2.36
<i>PSYR_0517</i>	<i>aceF</i> , pyruvate dehydrogenase complex, E2 component, dihydrolipoamide acetyltransferase	-2.41
<i>PSYR_3209</i>	NADH:ubiquinone oxidoreductase subunit N	-2.44
<i>PSYR_3205</i>	NADH:ubiquinone oxidoreductase subunit J	-2.56
<i>PSYR_3204</i>	<i>nuoI</i> , NADH dehydrogenase subunit I	-2.56
<i>PSYR_3206</i>	NADH:ubiquinone oxidoreductase subunit K	-2.71
<i>PSYR_3208</i>	NADH:ubiquinone oxidoreductase subunit M	-2.72
<i>PSYR_0333</i>	hypothetical protein <i>PSYR_0333</i>	-2.82
<i>PSYR_3207</i>	NADH:ubiquinone oxidoreductase subunit L	-2.88
<i>PSYR_3247</i>	<i>ssuD</i> , alkanesulfonate monooxygenase	-3.33
Carbohydrate transport and metabolism		
<i>PSYR_3578</i>	major facilitator superfamily transporter	2.13
<i>PSYR_0370</i>	<i>fbp</i> , fructose-1,6-bisphosphatase	1.81
<i>PSYR_2856</i>	chitin-binding protein	1.63
<i>PSYR_4487</i>	carbohydrate kinase PfkB	1.61
<i>PSYR_4847</i>	<i>rpiA</i> , ribose 5-phosphate isomerase	1.41
<i>PSYR_2908</i>	phosphoglucomutase, alpha-D-glucose phosphate-specific	1.39
<i>PSYR_1233</i>	<i>suhB</i> , inositol-1-monophosphatase	1.38
<i>PSYR_4611</i>	<i>rpe</i> , ribulose-phosphate 3-epimerase	1.35
<i>PSYR_0567</i>	hypothetical protein <i>PSYR_0567</i>	1.35
<i>PSYR_1712</i>	hypothetical protein <i>PSYR_1712</i>	1.29
<i>PSYR_1914</i>	transaldolase	1.17
<i>PSYR_2090</i>	<i>ppsA</i> , phosphoenolpyruvate synthase	1.13
<i>PSYR_2235</i>	senescence marker protein-30 family protein	1.12
<i>PSYR_4885</i>	<i>gpmA</i> , phosphoglycerate mutase	1.08
<i>PSYR_4184</i>	<i>tpiA</i> , triosephosphate isomerase	1.06
<i>PSYR_4792</i>	<i>tkt</i> , transketolase	1.05
<i>PSYR_1113</i>	glucose ABC transporter, periplasmic glucose-binding protein	1.04
<i>PSYR_1115</i>	glucose ABC transporter permease	-1.03
<i>PSYR_2298</i>	glycosyl hydrolase family protein	-1.03
<i>PSYR_3267</i>	iolH protein	-1.04

<i>PSYR_2513</i>	putrescine ABC transporter periplasmic putrescine-binding protein	-1.05
<i>PSYR_3263</i>	sugar ABC transporter permease	-1.05
<i>PSYR_4226</i>	MFS transporter, phthalate permease family	-1.05
<i>PSYR_1740</i>	ABC transporter permease	-1.06
<i>PSYR_1056</i>	<i>algL</i> , alginate lyase	-1.06
<i>PSYR_5042</i>	major facilitator family transporter	-1.07
<i>PSYR_2490</i>	alpha-amylase family protein	-1.08
<i>PSYR_0900</i>	<i>dctP</i> , TRAP dicarboxylate transporter subunit DctP	-1.08
<i>PSYR_2993</i>	alpha-amylase family protein	-1.08
<i>PSYR_2401</i>	spermidine/putrescine ABC transporter periplasmic spermidine/putrescine-binding protein	-1.09
<i>PSYR_0826</i>	<i>pgi</i> , glucose-6-phosphate isomerase	-1.09
<i>PSYR_2238</i>	periplasmic substrate-binding protein	-1.12
<i>PSYR_2491</i>	<i>glgB</i> , 1,4-alpha-glucan-branching protein	-1.2
<i>PSYR_3270</i>	<i>iolI</i> , iolI protein	-1.23
<i>PSYR_4899</i>	MFS permease-like protein	-1.23
<i>PSYR_1742</i>	ABC transporter periplasmic substrate-binding protein	-1.23
<i>PSYR_2884</i>	<i>xylF</i> , D-xylose ABC transporter, periplasmic-D xylose binding protein	-1.26
<i>PSYR_2997</i>	<i>glgX</i> , glycogen operon protein GlgX	-1.27
<i>PSYR_1116</i>	<i>glkK</i> , glucose ABC transporter ATP-binding protein	-1.28
<i>PSYR_2153</i>	<i>rbsC-1</i> , ribose ABC transporter permease	-1.33
<i>PSYR_2994</i>	<i>malQ</i> , 4-alpha-glucanotransferase	-1.34
<i>PSYR_2563</i>	HAD family hydrolase	-1.37
<i>PSYR_3673</i>	alpha-ribazole-5'-phosphate phosphatase	-1.39
<i>PSYR_1898</i>	membrane protein	-1.42
<i>PSYR_2883</i>	<i>xylA</i> , xylose isomerase	-1.43
<i>PSYR_2885</i>	<i>xylG</i> , xylose transporter ATP-binding subunit	-1.44
<i>PSYR_1121</i>	6-phosphogluconolactonase	-1.45
<i>PSYR_2152</i>	<i>rbsA-1</i> , ribose ABC transporter ATP-binding protein	-1.45
<i>PSYR_2995</i>	glycosyl hydrolase family protein	-1.45
<i>PSYR_2291</i>	aldolase II superfamily protein	-1.47
<i>PSYR_2886</i>	D-xylose ABC transporter permease	-1.51
<i>PSYR_2186</i>	senescence marker protein-30	-1.55
<i>PSYR_2373</i>	<i>araH</i> , L-arabinose transporter permease protein	-1.61
<i>PSYR_1122</i>	keto-hydroxyglutarate-aldolase/keto-deoxy-phosphogluconate aldolase	-1.65
<i>PSYR_2588</i>	HpcH/HpaI aldolase	-1.69
<i>PSYR_1118</i>	hypothetical protein PSYR_1118	-1.71
<i>PSYR_2440</i>	mannitol ABC transporter, periplasmic mannitol-binding protein	-1.72
<i>PSYR_2923</i>	carbohydrate kinase PfkB	-1.74
<i>PSYR_2566</i>	Glycerone kinase	-1.75
<i>PSYR_4010</i>	<i>pcaT</i> , dicarboxylic acid transport protein	-1.78
<i>PSYR_1363</i>	enolase	-1.83
<i>PSYR_2569</i>	periplasmic binding protein/LacI transcriptional regulator	-1.83
<i>PSYR_2692</i>	polysaccharide deacetylase	-1.9
<i>PSYR_1989</i>	galactonate dehydratase	-1.94
<i>PSYR_1990</i>	MFS transporter, phthalate permease family	-2.05
<i>PSYR_2565</i>	hypothetical protein PSYR_2565	-2.27
<i>PSYR_4812</i>	sugar ABC transporter periplasmic sugar-binding protein	-2.97
<i>PSYR_3306</i>	glycosyl hydrolase, family 5 PslG	-2.99

<i>PSYR_2434</i>	fructokinase	-3.93
<i>PSYR_2437</i>	ABC transporter	-4.45
<i>PSYR_2436</i>	<i>uxuB</i> , D-mannonate oxidoreductase	-5.27
<i>PSYR_2435</i>	<i>xylB</i> , xylulokinase	-5.64
Amino acid transport and metabolism		
<i>PSYR_0678</i>	beta-alanine--pyruvate aminotransferase	2.93
<i>PSYR_4709</i>	glycine betaine/L-proline ABC transporter, periplasmic substrate-binding protein	2.36
<i>PSYR_2900</i>	phospho-2-dehydro-3-deoxyheptonate aldolase	2.33
<i>PSYR_4426</i>	branched-chain amino acid ABC transporter substrate-binding protein	2.13
<i>PSYR_0295</i>	amino acid ABC transporter ATP-binding protein	1.89
<i>PSYR_0557</i>	ACT domain protein/phosphoserine phosphatase SerB	1.75
<i>PSYR_0246</i>	<i>gcvT-1</i> , glycine cleavage system T protein	1.7
<i>PSYR_1235</i>	<i>cysE</i> , serine O-acetyltransferase	1.65
<i>PSYR_3580</i>	aromatic amino acid permease	1.49
<i>PSYR_0474</i>	homoserine O-acetyltransferase	1.38
<i>PSYR_1609</i>	aspartyl aminopeptidase	1.37
<i>PSYR_4852</i>	<i>serA</i> , D-3-phosphoglycerate dehydrogenase	1.36
<i>PSYR_4581</i>	anthranilate synthase component II	1.36
<i>PSYR_4609</i>	<i>trpE</i> , anthranilate synthase, component I	1.35
<i>PSYR_0476</i>	<i>proC</i> , pyrroline-5-carboxylate reductase	1.34
<i>PSYR_0576</i>	ATP phosphoribosyltransferase regulatory subunit	1.29
<i>PSYR_4834</i>	proline-specific permease proY	1.29
<i>PSYR_4580</i>	anthranilate phosphoribosyltransferase	1.28
<i>PSYR_4369</i>	<i>proA</i> , gamma-glutamyl phosphate reductase	1.25
<i>PSYR_1853</i>	<i>aroC</i> , chorismate synthase	1.21
<i>PSYR_2015</i>	<i>brnQ</i> , branched-chain amino acid transport system II carrier protein	1.17
<i>PSYR_0182</i>	<i>lsyA-2</i> , diaminopimelate decarboxylase	1.17
<i>PSYR_3747</i>	<i>asnB</i> , asparagine synthetase	1.17
<i>PSYR_3570</i>	arginine/ornithine ABC transporter, permease protein	1.16
<i>PSYR_4894</i>	<i>hisA</i> , phosphoribosylformimino-5-aminoimidazole carboxamide ribotide isomerase	1.14
<i>PSYR_1336</i>	tetrahydrodipicolinate succinylase	1.09
<i>PSYR_0090</i>	<i>gabT-2</i> , 4-aminobutyrate aminotransferase	1.08
<i>PSYR_3024</i>	peptidase M14, carboxypeptidase A	1.08
<i>PSYR_3742</i>	Bifunctional,tRNA-methyltransferase/FAD-dependent oxidoreductase	1.04
<i>PSYR_1973</i>	<i>aspC</i> , aspartate aminotransferase	1.03
<i>PSYR_3931</i>	hypothetical protein PSYR_3931	1.01
<i>PSYR_4436</i>	urease subunit alpha	-1
<i>PSYR_4713</i>	<i>soxB-1</i> , sarcosine oxidase, beta subunit	-1.01
<i>PSYR_3269</i>	iolD protein	-1.01
<i>PSYR_2941</i>	glutamine/glutamate ABC transporter periplasmic glutamine/glutamate-binding protein	-1.03
<i>PSYR_2888</i>	amine oxidase, flavin-containing protein	-1.03
<i>PSYR_4211</i>	peptide ABC transporter substrate-binding protein	-1.03
<i>PSYR_2855</i>	5-methyltetrahydropteroyltriglutamate/homocysteine methyltransferase S-	-1.03
<i>PSYR_4715</i>	<i>soxA-1</i> , sarcosine oxidase, alpha subunit	-1.04
<i>PSYR_4712</i>	<i>glyA-1</i> , serine hydroxymethyltransferase	-1.05
<i>PSYR_1672</i>	<i>ilvA-1</i> , threonine dehydratase	-1.05

<i>PSYR_4321</i>	pyridoxal-5'-phosphate-dependent enzyme, beta subunit	-1.05
<i>PSYR_2538</i>	peptide ABC transporter permease	-1.06
<i>PSYR_0846</i>	acetolactate synthase large subunit	-1.08
<i>PSYR_4132</i>	histidinol-phosphate aminotransferase	-1.08
<i>PSYR_4716</i>	<i>soxG-1</i> , sarcosine oxidase, gamma subunit	-1.08
<i>PSYR_4612</i>	polyamine ABC transporter permease	-1.1
<i>PSYR_0599</i>	<i>braE</i> , high-affinity branched-chain amino acid ABC transporter, permease protein BraE	-1.12
<i>PSYR_3645</i>	chorismate mutase/prephenate dehydratase	-1.13
<i>PSYR_4675</i>	peptidase S9, prolyl oligopeptidase active site region	-1.14
<i>PSYR_0974</i>	amino acid ABC transporter substrate-binding protein	-1.15
<i>PSYR_2223</i>	<i>soxD-2</i> , sarcosine oxidase subunit delta	-1.17
<i>PSYR_0117</i>	class I and II aminotransferase	-1.21
<i>PSYR_4784</i>	renal dipeptidase family protein	-1.22
<i>PSYR_2585</i>	Orn/DAP/Arg decarboxylase 2:Orn/DAP/Arg decarboxylase 2	-1.22
<i>PSYR_2619</i>	diaminobutyrate-2-oxoglutarate transaminase	-1.24
<i>PSYR_3158</i>	sarcosine oxidase	-1.25
<i>PSYR_4238</i>	<i>dppA</i> , dipeptide ABC transporter substrate-binding protein	-1.28
<i>PSYR_2055</i>	transglutaminase-like domain protein	-1.29
<i>PSYR_2604</i>	hypothetical protein PSYR_2604	-1.29
<i>PSYR_1698</i>	glutathionylspermidine synthase	-1.31
<i>PSYR_1156</i>	hypothetical protein PSYR_1156	-1.31
<i>PSYR_1257</i>	<i>leuA</i> , 2-isopropylmalate synthase	-1.31
<i>PSYR_2542</i>	peptide ABC transporter periplasmic peptide-binding protein	-1.32
<i>PSYR_2539</i>	peptide ABC transporter permease	-1.34
<i>PSYR_4236</i>	dipeptide ABC transporter substrate-binding protein	-1.35
<i>PSYR_0691</i>	gamma-glutamyltranspeptidase	-1.41
<i>PSYR_0600</i>	high affinity branched-chain amino acid ABC transporter ATP-binding protein	-1.42
<i>PSYR_0973</i>	amino acid ABC transporter permease	-1.44
<i>PSYR_4863</i>	<i>potG</i> , putrescine ABC transporter ATP-binding protein	-1.5
<i>PSYR_0601</i>	high affinity branched-chain amino acid ABC transporter ATP-binding protein	-1.52
<i>PSYR_0847</i>	acetolactate synthase small subunit	-1.54
<i>PSYR_3555</i>	aspartate kinase	-1.56
<i>PSYR_2540</i>	peptide ABC transporter ATP-binding protein	-1.57
<i>PSYR_0412</i>	glutamate synthase, small subunit	-1.61
<i>PSYR_2745</i>	pyridoxal-phosphate dependent enzyme family/ornithine cyclodeaminase family protein	-1.62
<i>PSYR_1075</i>	amino acid ABC transporter ATP-binding protein	-1.71
<i>PSYR_3220</i>	cysteine desulfurase	-1.73
<i>PSYR_4235</i>	dipeptide ABC transporter, periplasmic dipeptide-binding protein	-1.75
<i>PSYR_0356</i>	putative amino-acid ABC transporter ATP-binding protein YecC	-1.79
<i>PSYR_4234</i>	peptide ABC transporter periplasmic peptide-binding protein	-1.85
<i>PSYR_0848</i>	ketol-acid reductoisomerase	-1.97
<i>PSYR_2398</i>	spermidine/putrescine ABC transporter ATP-binding protein	-1.98
<i>PSYR_4093</i>	glutamate N-acetyltransferase/amino-acid acetyltransferase	-2.06
<i>PSYR_1074</i>	amino acid ABC transporter permease	-2.15
<i>PSYR_2567</i>	zinc-containing alcohol dehydrogenase superfamily protein	-2.17
<i>PSYR_1758</i>	ABC transporter substrate-binding protein	-2.26
<i>PSYR_1073</i>	amino acid ABC transporter permease	-2.3

<i>PSYR_3846</i>	high-affinity branched-chain amino acid ABC transporter permease	-2.33
<i>PSYR_2964</i>	amino acid ABC transporter permease	-2.33
<i>PSYR_2399</i>	spermidine/putrescine ABC transporter permease	-2.34
<i>PSYR_1340</i>	class I and II aminotransferase	-2.63
<i>PSYR_3847</i>	leucine/isoleucine/valine transporter permease subunit	-2.73
<i>PSYR_3849</i>	high-affinity amino acid ABC transporter, ATP-binding protein	-2.99
<i>PSYR_3848</i>	leucine/isoleucine/valine transporter ATP-binding subunit	-3.08
<i>PSYR_2962</i>	extracellular solute-binding protein	-3.13
<i>PSYR_2965</i>	amino acid ABC transporter ATP-binding protein	-3.52
Nucleotide transport and metabolism		
<i>PSYR_4453</i>	urease accessory protein UreG	4.33
<i>PSYR_1728</i>	tRNA--hydroxylase	2.26
<i>PSYR_0661</i>	adenosine deaminase	1.94
<i>PSYR_1836</i>	<i>pyrF</i> , orotidine 5-phosphate decarboxylase	1.7
<i>PSYR_1319</i>	<i>adk</i> , adenylate kinase	1.6
<i>PSYR_4840</i>	<i>thyA</i> , thymidylate synthase	1.55
<i>PSYR_0483</i>	pyrimidine operon regulatory protein PyrR	1.48
<i>PSYR_3689</i>	<i>purM</i> ,phosphoribosylformylglycinamide cyclo-ligase	1.43
<i>PSYR_4192</i>	<i>carA</i> , carbamoyl-phosphate synthase small subunit	1.16
<i>PSYR_1277</i>	<i>purT</i> , phosphoribosylglycinamide formyltransferase 2	1.14
<i>PSYR_0216</i>	<i>pyrE</i> , orotate phosphoribosyltransferase	1.08
<i>PSYR_4018</i>	<i>purU-3</i> , formyltetrahydrofolate deformylase	1.01
<i>PSYR_4629</i>	bis(5'-nucleosyl)-tetraphosphatase, symmetrical	-1.13
<i>PSYR_4407</i>	phosphoribosylamine--glycine ligase	-1.6
<i>PSYR_3531</i>	cytosine/purines uracil thiamine allantoin permease	-1.62
<i>PSYR_3717</i>	<i>nrda</i> , ribonucleotide-diphosphate reductase subunit alpha	-2.02
<i>PSYR_3695</i>	<i>relA</i> , GTP pyrophosphokinase	-5.22
Coenzyme transport and metabolism		
<i>PSYR_0389</i>	<i>ubiE</i> , ubiquinone/menaquinone biosynthesis methyltransferase UbiE	1.96
<i>PSYR_1542</i>	<i>nadA</i> , quinolinate synthetase	1.74
<i>PSYR_4341</i>	<i>thiE</i> , thiamine-phosphate pyrophosphorylase	1.74
<i>PSYR_4342</i>	<i>hemL</i> , glutamate-1-semialdehyde-2,1-aminomutase	1.7
<i>PSYR_1333</i>	ThiF family protein	1.62
<i>PSYR_1743</i>	<i>folD-2</i> ,methylenetetrahydrofolate,dehydrogenase/ methenyltetrahydrofolate cyclohydrolase	1.53
<i>PSYR_0317</i>	5-formyltetrahydrofolate cyclo-ligase	1.52
<i>PSYR_0604</i>	<i>dxs</i> , deoxyxylulose-5-phosphate synthase	1.51
<i>PSYR_4574</i>	hypothetical protein PSYR_4574	1.49
<i>PSYR_0967</i>	<i>hemH</i> , ferrochelataase	1.49
<i>PSYR_3558</i>	6,7-dimethyl-8-ribityllumazine synthase	1.45
<i>PSYR_5031</i>	<i>ubiA</i> , 4-hydroxybenzoate octaprenyltransferase	1.37
<i>PSYR_4581</i>	anthranilate synthase component II	1.36
<i>PSYR_1845</i>	<i>folE-2</i> , GTP cyclohydrolase I	1.34
<i>PSYR_1418</i>	radical SAM domain-containing protein	1.32
<i>PSYR_4816</i>	<i>thiI</i> , thiamin biosynthesis protein ThiI	1.32
<i>PSYR_4340</i>	bifunctional hydroxy-methylpyrimidine kinase/ phosphomethylpyrimidine kinase	1.28
<i>PSYR_0460</i>	<i>ahcY</i> , adenosylhomocysteinase	1.27
<i>PSYR_0709</i>	<i>ribF</i> , riboflavin biosynthesis protein RibF	1.26
<i>PSYR_0815</i>	<i>nadC</i> , nicotinate-nucleotide pyrophosphorylase	1.25

PSYR_0595	<i>pncB</i> , nicotinate phosphoribosyltransferase	1.25
PSYR_4461	<i>ribE</i> , riboflavin synthase subunit alpha	1.24
PSYR_0024	<i>hemF</i> , coproporphyrinogen III oxidase	1.22
PSYR_2098	uroporphyrin-III C-methyltransferase	1.22
PSYR_0292	delta-aminolevulinic acid dehydratase	1.21
PSYR_0487	<i>gshB</i> , glutathione synthetase	1.17
PSYR_2135	molybdopterin-guanine dinucleotide biosynthesis protein MobA	1.13
PSYR_1828	<i>pdxB</i> , erythronate-4-phosphate dehydrogenase	1.12
PSYR_4737	<i>folA</i> , dihydrofolate reductase	1.12
PSYR_3681	<i>cobO</i> , cob(I)alamin adenosyltransferasehrpA	1.11
PSYR_5030	chorismate-pyruvate lyase	1.11
PSYR_1021	dihydromonapterin reductase	1.1
PSYR_4758	pantetheine-phosphate adenyllyltransferase	1.09
PSYR_4368	<i>nadD</i> , nicotinate (nicotinamide) nucleotide adenyllyltransferase	1.08
PSYR_0700	<i>ispB</i> , octylprenyl diphosphate synthase	1.05
PSYR_0948	<i>hemA</i> , glutamyl-tRNA reductase	1.04
PSYR_0828	<i>panB</i> , 3-methyl-2-oxobutanoate hydroxymethyltransferase	1.03
PSYR_4418	<i>cobL</i> , precorrin-6Y C5,15-methyltransferase	1
PSYR_0537	lipopolysaccharide biosynthesis protein RfaE	1
PSYR_3654	hypothetical protein PSYR_3654	-1.01
PSYR_2377	hypothetical protein PSYR_2377	-1.03
PSYR_3672	<i>cobS</i> , cobalamin (5'-phosphate) synthase	-1.04
PSYR_3674	<i>cobT</i> , nicotinate-nucleotide--dimethylbenzimidazole phosphoribosyltransferase	-1.08
PSYR_3015	cobaltochelate subunit CobN	-1.18
PSYR_3013	magnesium chelatase subunit ChID	-1.19
PSYR_2514	ABC transporter ATP-binding protein	-1.2
PSYR_4686	8-amino-7-oxononanoate synthase	-1.24
PSYR_3014	magnesium chelatase, subunit ChII	-1.28
PSYR_3531	cytosine/purines uracil thiamine allantoin permease	-1.62
PSYR_4684	biotin synthesis protein BioC	-2.2
PSYR_4683	dethiobiotin synthetase	-2.39
PSYR_0544	<i>thiC</i> , thiamin biosynthesis protein ThiC	-2.44
PSYR_4626	pyridoxal phosphate biosynthetic protein PdxA	-2.56
PSYR_0334	L-ectoine synthase	-3.37
PSYR_4873	molybdenum-pterin binding domain-containing protein	-4.74
Lipid transport and metabolism		
PSYR_3572	<i>acs</i> , acetyl-CoA synthetase	5.01
PSYR_3237	3-oxoacid CoA-transferase, subunit A family	4.41
PSYR_3238	3-oxoacid CoA-transferase, subunit B family	3.96
PSYR_3239	short-chain fatty acid transporter	2.7
PSYR_0706	acyltransferase 3	2.13
PSYR_0087	fatty acid desaturase	2.06
PSYR_0436	acyl carrier protein	1.83
PSYR_2465	acetyltransferase family protein	1.7
PSYR_0229	phospholipase D	1.62
PSYR_0437	acyl carrier protein	1.61
PSYR_1369	<i>ispF</i> , 2-C-methyl-D-erythritol 2,4-cyclodiphosphate synthase	1.52
PSYR_2019	<i>fabB</i> , 3-oxoacyl-(acyl carrier protein) synthase I	1.49
PSYR_3300	lipid kinase	1.49

<i>PSYR_2467</i>	biotin carboxylase	1.38
<i>PSYR_2020</i>	<i>fabA</i> , 3-hydroxydecanoyl-(acyl carrier protein) dehydratase	1.36
<i>PSYR_0645</i>	acetyl-CoA acetyltransferase	1.34
<i>PSYR_3003</i>	azoreductase	1.31
<i>PSYR_4724</i>	putative acyltransferase	1.2
<i>PSYR_1892</i>	3-ketoacyl-(acyl-carrier-protein) reductase	1.1
<i>PSYR_0945</i>	<i>ispE</i> , 4-diphosphocytidyl-2-C-methyl-D-erythritol kinase	1.06
<i>PSYR_0438</i>	acyltransferase family protein	1.03
<i>PSYR_4293</i>	<i>tesB</i> , acyl-CoA thioesterase II	1
<i>PSYR_1703</i>	Fatty acid desaturase	-1.03
<i>PSYR_3289</i>	3-ketoacyl-CoA thiolase	-1.11
<i>PSYR_2725</i>	thiolase family protein	-1.11
<i>PSYR_3669</i>	outer membrane protein	-1.2
<i>PSYR_4606</i>	autotransporting lipase, GDSL family	-1.23
<i>PSYR_0424</i>	hypothetical protein <i>PSYR_0424</i>	-1.4
<i>PSYR_1538</i>	propionyl-CoA carboxylase	-1.44
<i>PSYR_1349</i>	1-deoxy-D-xylulose 5-phosphate reductoisomerase	-1.46
<i>PSYR_4685</i>	bioH, bioH protein	-1.5
<i>PSYR_0425</i>	3-oxoacyl-(acyl carrier protein) synthase I	-1.56
<i>PSYR_0353</i>	acyl-CoA dehydrogenase family protein	-1.65
<i>PSYR_4311</i>	malonyl CoA-ACP transacylase	-1.87
<i>PSYR_3604</i>	acyl-CoA dehydrogenase family protein	-2.13
<i>PSYR_0331</i>	AMP-dependent synthetase and ligase	-2.51
<i>PSYR_0354</i>	acyl-CoA dehydrogenase family protein	-3.02
Inorganic ion transport and metabolism		
<i>PSYR_0656</i>	copZ protein	4.38
<i>PSYR_0654</i>	copper-translocating P-type ATPase	3.45
<i>PSYR_3897</i>	<i>bfr</i> , bacterioferritin	2.81
<i>PSYR_0863</i>	alkylphosphonate utilization operon protein PhnA	2.79
<i>PSYR_0189</i>	ammonium transporter	2.7
<i>PSYR_0275</i>	<i>znuA</i> , zinc ABC transporter periplasmic zinc-binding protein	1.94
<i>PSYR_5034</i>	transporter	1.84
<i>PSYR_4884</i>	rhodanese-like domain-containing protein	1.79
<i>PSYR_0244</i>	iron ABC transporter periplasmic iron-binding protein	1.79
<i>PSYR_0281</i>	metN-2, DL-methionine transporter ATP-binding subunit	1.62
<i>PSYR_2756</i>	<i>modA</i> , molybdate ABC transporter periplasmic molybdate-binding protein	1.49
<i>PSYR_4827</i>	choline transporter	1.37
<i>PSYR_0282</i>	<i>metI</i> -2, D-methionine ABC transporter permease	1.35
<i>PSYR_4210</i>	<i>nhaA</i> -1, sodium-proton antiporter NhaA	1.33
<i>PSYR_0657</i>	Bcr/CflA family multidrug resistance transporter	1.32
<i>PSYR_3094</i>	iron ABC transporter, periplasmic iron-binding protein	1.3
<i>PSYR_4016</i>	phosphate transporter family protein	1.3
<i>PSYR_0283</i>	metQ-2, D-methionine-binding lipoprotein MetQ	1.26
<i>PSYR_0667</i>	<i>fecB</i> , iron(III) dicitrate transport system, periplasmic iron-binding protein FecB	1.23
<i>PSYR_2078</i>	phosphoadenosine phosphosulfate reductase	1.23
<i>PSYR_4243</i>	iron-uptake factor	1.15
<i>PSYR_1337</i>	arsC family protein	1.14
<i>PSYR_3702</i>	<i>arsC</i> , arsenate reductase	1.12

<i>PSYR_0245</i>	iron ABC transporter permease	1.06
<i>PSYR_3171</i>	DsrC-like protein	1.06
<i>PSYR_0280</i>	<i>katE</i> , catalase	1.06
<i>PSYR_3170</i>	DsrH family protein	1.02
<i>PSYR_0695</i>	phosphonate ABC transporter periplasmic phosphonate-binding protein	1.01
<i>PSYR_2139</i>	glutathione-regulated potassium-efflux system protein	1
<i>PSYR_2546</i>	DMT superfamily multiple drug efflux pump	-1.02
<i>PSYR_2603</i>	secretion protein HlyD	-1.02
<i>PSYR_0156</i>	peptide ABC transporter permease	-1.05
<i>PSYR_2538</i>	peptide ABC transporter permease	-1.06
<i>PSYR_1962</i>	TonB-dependent siderophore receptor	-1.06
<i>PSYR_2525</i>	transporter, partial	-1.08
<i>PSYR_4613</i>	polyamine ABC transporter permease	-1.08
<i>PSYR_1606</i>	ABC transporter substrate-binding protein	-1.09
<i>PSYR_2537</i>	hypothetical protein PSYR_2537	-1.15
<i>PSYR_0328</i>	lipoprotein, NLPA family	-1.15
<i>PSYR_4628</i>	apaG protein	-1.18
<i>PSYR_2904</i>	peptide ABC transporter permease	-1.22
<i>PSYR_2586</i>	EmrB/QacA family drug resistance transporter	-1.23
<i>PSYR_1951</i>	cation ABC transporter substrate-binding protein	-1.24
<i>PSYR_2329</i>	extracellular solute-binding domain protein	-1.26
<i>PSYR_3106</i>	<i>pstS</i> , phosphate ABC transporter substrate-binding protein	-1.27
<i>PSYR_5039</i>	phosphate ABC transporter permease	-1.3
<i>PSYR_2372</i>	L-arabinose transporter ATP-binding protein	-1.3
<i>PSYR_0346</i>	AcrB/AcrD/AcrF family protein	-1.31
<i>PSYR_4126</i>	<i>cysN/C</i> , bifunctional sulfate adenylyltransferase subunit 1/adenylylsulfate kinase protein	-1.31
<i>PSYR_2539</i>	peptide ABC transporter permease	-1.34
<i>PSYR_2960</i>	nickel ABC transporter, permease protein	-1.37
<i>PSYR_0082</i>	sulfate ABC transporter permease CysW	-1.41
<i>PSYR_0081</i>	sulfate ABC transporter, ATP-binding protein CysA	-1.43
<i>PSYR_1949</i>	cation ABC transporter permease	-1.47
<i>PSYR_1948</i>	ABC transporter periplasmic substrate-binding protein	-1.49
<i>PSYR_1950</i>	cation ABC transporter ATP-binding protein	-1.5
<i>PSYR_0083</i>	<i>cysT</i> , sulfate ABC transporter permease CysT	-1.52
<i>PSYR_0349</i>	D-methionine ABC transporter permease	-1.55
<i>PSYR_4208</i>	catalase/oxidase HPI	-1.57
<i>PSYR_2540</i>	peptide ABC transporter ATP-binding protein	-1.57
<i>PSYR_3603</i>	ABC transporter, periplasmic substrate-binding protein, aliphatic sulfonates family	-1.66
<i>PSYR_0350</i>	D-methionine ABC transporter ATP-binding protein	-1.9
<i>PSYR_4826</i>	TonB-dependent receptor: TonB box, N-terminal, partial	-1.97
<i>PSYR_0339</i>	ABC transporter permease	-1.99
<i>PSYR_0084</i>	<i>sbp</i> , sulfate-binding protein	-2.15
<i>PSYR_3602</i>	rhodanese-like domain-containing protein	-2.29
<i>PSYR_4861</i>	<i>potI</i> , putrescine ABC transporter permease	-2.29
<i>PSYR_0692</i>	phosphonate ABC transporter, permease protein	-2.3
<i>PSYR_4862</i>	<i>potH</i> , putrescine ABC transporter permease	-2.32
<i>PSYR_2400</i>	spermidine/putrescine ABC transporter permease	-2.35
<i>PSYR_1757</i>	ABC transporter permease	-2.7

<i>PSYR_0338</i>	ABC transporter ATP-binding protein	-2.86
<i>PSYR_0340</i>	ABC transporter substrate-binding protein	-2.9
<i>PSYR_4876</i>	sulfonate ABC transporter periplasmic sulfonate-binding protein	-3.55
<i>PSYR_1756</i>	ABC transporter permease	-3.58
<i>PSYR_3132</i>	AcrB/AcrD/AcrF family protein	-3.58
<i>PSYR_2439</i>	mannitol ABC transporter permease	-3.81
<i>PSYR_4875</i>	<i>ssuC</i> , aliphatic sulfonates ABC transporter permease	-3.95
<i>PSYR_4874</i>	aliphatic sulfonates transport ATP-binding subunit	-4.04
<i>PSYR_2438</i>	mannitol ABC transporter permease	-4.23
Secondary metabolites biosynthesis, transport and catabolism		
<i>PSYR_3785</i>	DSBA oxidoreductase	2
<i>PSYR_0436</i>	acyl carrier protein	1.83
<i>PSYR_1849</i>	isochorismatase family protein	1.73
<i>PSYR_4583</i>	lysozyme	1.65
<i>PSYR_1493</i>	twin-arginine translocation pathway signal:copper-resistance protein CopA	1.62
<i>PSYR_0437</i>	acyl carrier protein	1.61
<i>PSYR_0290</i>	enhancing lycopene biosynthesis protein 2	1.53
<i>PSYR_4139</i>	mce-like protein	1.44
<i>PSYR_2066</i>	permease	1.4
<i>PSYR_4138</i>	toluene tolerance protein	1.31
<i>PSYR_3988</i>	hypothetical protein PSYR_3988	1.31
<i>PSYR_2067</i>	ABC transporter ATP-binding protein	1.25
<i>PSYR_4141</i>	toluene tolerance ABC transporter, ATP-binding protein	1.12
<i>PSYR_4140</i>	membrane protein	1.12
<i>PSYR_1892</i>	3-ketoacyl-(acyl-carrier-protein) reductase	1.1
<i>PSYR_3326</i>	<i>hmgA</i> , homogentisate 1,2-dioxygenase	1.07
<i>PSYR_1762</i>	hypothetical protein PSYR_1762	1.03
<i>PSYR_3657</i>	DSBA oxidoreductase	1
<i>PSYR_2726</i>	<i>fcs</i> , feruloyl-CoA synthase	-1.07
<i>PSYR_2584</i>	IucA/IucC protein	-1.1
<i>PSYR_4314</i>	beta-ketoacyl synthase	-1.21
<i>PSYR_3983</i>	serralysin	-1.21
<i>PSYR_4312</i>	erythronolide synthase	-1.26
<i>PSYR_2534</i>	dienelactone hydrolase family protein	-1.27
<i>PSYR_2615</i>	amino acid adenylation	-1.3
<i>PSYR_2587</i>	IucA/IucC protein	-1.33
<i>PSYR_2611</i>	amino acid adenylation	-1.35
<i>PSYR_2616</i>	amino acid adenylation	-1.39
<i>PSYR_2614</i>	amino acid adenylation	-1.39
<i>PSYR_4313</i>	beta-ketoacyl synthase	-1.39
<i>PSYR_4310</i>	hypothetical protein PSYR_4310	-1.52
<i>PSYR_2746</i>	L-lysine 6-monooxygenase	-1.58
<i>PSYR_1795</i>	taurine dioxygenase	-1.58
<i>PSYR_1792</i>	amino acid adenylation	-1.63
<i>PSYR_4311</i>	malonyl CoA-ACP transacylase	-1.87
<i>PSYR_2608</i>	amino acid adenylation	-1.93
<i>PSYR_1793</i>	amino acid adenylation	-2.15
<i>PSYR_3074</i>	hemolysin-type calcium-binding protein	-2.3
<i>PSYR_1794</i>	amino acid adenylation	-2.37

<i>PSYR_0337</i>	dioxygenase, TauD/TfdA family	-2.82
<i>PSYR_3089</i>	hemolysin-type calcium-binding protein	-3.53
Funcation unknow		
<i>PSYR_3757</i>	hypothetical protein PSYR_3757	6.43
<i>PSYR_3756</i>	sodium:solute symporter family protein	5.86
<i>PSYR_3668</i>	hypothetical protein PSYR_3668	3.98
<i>PSYR_4175</i>	transport-associated protein	3.62
<i>PSYR_4645</i>	prevent-host-death family protein	3.43
<i>PSYR_0744</i>	hypothetical protein	3.14
<i>PSYR_0508</i>	Lyase	3.1
<i>PSYR_0260</i>	hypothetical protein PSYR_0260	3.05
<i>PSYR_4644</i>	plasmid stabilization system protein	3.04
<i>PSYR_0745</i>	hypothetical protein	2.93
<i>PSYR_3971</i>	lipoprotein	2.92
<i>PSYR_0207</i>	lipoprotein	2.91
<i>PSYR_3966</i>	hypothetical protein PSYR_3966	2.87
<i>PSYR_4745</i>	hypothetical protein PSYR_4745	2.79
<i>PSYR_5020</i>	hypothetical protein PSYR_5020	2.73
<i>PSYR_4272</i>	hypothetical protein PSYR_4272	2.65
<i>PSYR_2497</i>	lipoprotein	2.65
<i>PSYR_3261</i>	chemotaxis sensory transducer protein	2.49
<i>PSYR_2324</i>	hypothetical protein PSYR_2324	2.49
<i>PSYR_1859</i>	hypothetical protein PSYR_1859	2.44
<i>PSYR_3034</i>	hypothetical protein PSYR_3034	2.38
<i>PSYR_2348</i>	hypothetical protein PSYR_2348	2.38
<i>PSYR_3786</i>	RNA binding S1	2.36
<i>PSYR_4605</i>	transcriptional regulator PrtN	2.35
<i>PSYR_2687</i>	PepSY-associated TM helix family protein	2.34
<i>PSYR_4604</i>	hypothetical protein PSYR_4604	2.26
<i>PSYR_1381</i>	hypothetical protein PSYR_1381	2.22
<i>PSYR_0743</i>	hypothetical protein	2.16
<i>PSYR_4744</i>	hypothetical protein PSYR_4744	2.13
<i>PSYR_4328</i>	hypothetical protein PSYR_4328	2.1
<i>PSYR_2140</i>	hypothetical protein PSYR_2140	2.09
<i>PSYR_3699</i>	hypothetical protein PSYR_3699	2.08
<i>PSYR_0369</i>	lipoprotein	2.08
<i>PSYR_3967</i>	membrane protein TctB	2.08
<i>PSYR_4704</i>	hypothetical protein PSYR_4704	2.07
<i>PSYR_3755</i>	hypothetical protein PSYR_3755	2.07
<i>PSYR_0467</i>	hypothetical protein PSYR_0467	2.07
<i>PSYR_2149</i>	hypothetical protein PSYR_2149	2.06
<i>PSYR_4722</i>	hypothetical protein PSYR_4722	2.04
<i>PSYR_4597</i>	hypothetical protein PSYR_4597	1.98
<i>PSYR_3617</i>	thiopurine S-methyltransferase	1.96
<i>PSYR_0214</i>	hypothetical protein PSYR_0214	1.95
<i>PSYR_4772</i>	hypothetical protein PSYR_4772	1.94
<i>PSYR_0269</i>	ribosome biosis GTP-binding protein YsxC	1.91
<i>PSYR_1847</i>	Smr protein/MutS2 C-terminal, partial	1.85
<i>PSYR_4076</i>	hypothetical protein PSYR_4076	1.85

<i>PSYR_3884</i>	cold-shock protein, DNA-binding	1.84
<i>PSYR_1998</i>	lipoprotein	1.82
<i>PSYR_0318</i>	hypothetical protein PSYR_0318	1.82
<i>PSYR_5066</i>	import inner membrane translocase, subunit Tim44	1.81
<i>PSYR_0702</i>	50S ribosomal protein L27	1.79
<i>PSYR_3968</i>	hypothetical protein PSYR_3968	1.79
<i>PSYR_1640</i>	HAD family hydrolase	1.78
<i>PSYR_2495</i>	ABC transporter	1.76
<i>PSYR_0191</i>	hypothetical protein PSYR_0191	1.76
<i>PSYR_1848</i>	hypothetical protein PSYR_1848	1.76
<i>PSYR_1766</i>	hypothetical protein PSYR_1766	1.75
<i>PSYR_1092</i>	permease YjgP/YjgQ	1.74
<i>PSYR_3929</i>	hypothetical protein PSYR_3929	1.72
<i>PSYR_0546</i>	lipoprotein	1.71
<i>PSYR_3038</i>	hypothetical protein PSYR_3038	1.68
<i>PSYR_0052</i>	ABC transporter	1.68
<i>PSYR_0980</i>	phospholipid/glycerol acyltransferase	1.68
<i>PSYR_1577</i>	hypothetical protein PSYR_1577	1.67
<i>PSYR_3658</i>	hypothetical protein PSYR_3658	1.67
<i>PSYR_1382</i>	hypothetical protein PSYR_1382	1.65
<i>PSYR_1821</i>	N-acetyltransferase GCN5	1.65
<i>PSYR_3620</i>	hypothetical protein PSYR_3620	1.64
<i>PSYR_3851</i>	hypothetical protein PSYR_3851	1.64
<i>PSYR_1626</i>	Pirin, N-terminal:Pirin, C-terminal, partial	1.63
<i>PSYR_4705</i>	hypothetical protein PSYR_4705	1.63
<i>PSYR_4942</i>	HAD family hydrolase	1.61
<i>PSYR_0435</i>	hypothetical protein PSYR_0435	1.61
<i>PSYR_3922</i>	hypothetical protein PSYR_3922	1.61
<i>PSYR_3210</i>	hypothetical protein PSYR_3210	1.6
<i>PSYR_4087</i>	nucleotide-binding protein	1.57
<i>PSYR_0966</i>	hypothetical protein PSYR_0966	1.57
<i>PSYR_2393</i>	flavin reductase-like protein	1.57
<i>PSYR_1589</i>	hypothetical protein PSYR_1589	1.56
<i>PSYR_4906</i>	lipoprotein	1.55
<i>PSYR_3294</i>	ABC transporter	1.53
<i>PSYR_4367</i>	IojaP-related protein	1.53
<i>PSYR_0187</i>	hypothetical protein PSYR_0187	1.53
<i>PSYR_4797</i>	hypothetical protein PSYR_4797	1.53
<i>PSYR_5055</i>	YeeE/YedE	1.52
<i>PSYR_1765</i>	N-acetyltransferase GCN5	1.52
<i>PSYR_3921</i>	hypothetical protein PSYR_3921	1.52
<i>PSYR_3783</i>	hypothetical protein PSYR_3783	1.5
<i>PSYR_4257</i>	hypothetical protein PSYR_4257	1.49
<i>PSYR_0248</i>	hypothetical protein PSYR_0248	1.49
<i>PSYR_3784</i>	hypothetical protein PSYR_3784	1.48
<i>PSYR_2082</i>	hypothetical protein PSYR_2082	1.47
<i>PSYR_2023</i>	hypothetical protein PSYR_2023	1.47
<i>PSYR_2518</i>	hypothetical protein PSYR_2518	1.47
<i>PSYR_4298</i>	hypothetical protein PSYR_4298	1.47

<i>PSYR_1578</i>	hypothetical protein PSYR_1578	1.46
<i>PSYR_3618</i>	catalytic LigB subunit of aromatic ring-opening dioxygenase	1.46
<i>PSYR_4598</i>	lipoprotein	1.46
<i>PSYR_1576</i>	glutamine amidotransferase, class-II	1.45
<i>PSYR_3766</i>	hypothetical protein PSYR_3766	1.45
<i>PSYR_2159</i>	lipoprotein	1.45
<i>PSYR_0626</i>	hypothetical protein PSYR_0626	1.44
<i>PSYR_4356</i>	hypothetical protein PSYR_4356	1.44
<i>PSYR_3577</i>	hypothetical protein PSYR_3577	1.44
<i>PSYR_0563</i>	ribosome-associated GTPase	1.44
<i>PSYR_0882</i>	hypothetical protein PSYR_0882	1.44
<i>PSYR_1852</i>	hypothetical protein PSYR_1852	1.43
<i>PSYR_3740</i>	hypothetical protein PSYR_3740	1.42
<i>PSYR_4074</i>	FxsA protein	1.42
<i>PSYR_0279</i>	lipoprotein	1.41
<i>PSYR_0703</i>	GTPase ObgE	1.41
<i>PSYR_1860</i>	ankyrin	1.41
<i>PSYR_4582</i>	hypothetical protein PSYR_4582	1.41
<i>PSYR_2420</i>	hypothetical protein PSYR_2420	1.4
<i>PSYR_3703</i>	flavodoxin/nitric oxide synthase	1.4
<i>PSYR_1124</i>	hypothetical protein PSYR_1124	1.4
<i>PSYR_1575</i>	hypothetical protein PSYR_1575	1.39
<i>PSYR_3928</i>	hypothetical protein PSYR_3928	1.37
<i>PSYR_2064</i>	hypothetical protein PSYR_2064	1.36
<i>PSYR_0727</i>	hypothetical protein PSYR_0727	1.36
<i>PSYR_2070</i>	ErfK/YbiS/YcfS/YnhG	1.36
<i>PSYR_4366</i>	rRNA large subunit methyltransferase	1.36
<i>PSYR_0319</i>	hypothetical protein PSYR_0319	1.36
<i>PSYR_2932</i>	hypothetical protein PSYR_2932	1.36
<i>PSYR_2381</i>	Allergen V5/Tpx-1 related	1.36
<i>PSYR_4596</i>	hypothetical protein PSYR_4596	1.36
<i>PSYR_4344</i>	hypothetical protein PSYR_4344	1.35
<i>PSYR_0192</i>	hypothetical protein PSYR_0192	1.35
<i>PSYR_1785</i>	deoxyribodipyrimidine photolyase-like protein	1.35
<i>PSYR_4839</i>	hypothetical protein PSYR_4839	1.34
<i>PSYR_5092</i>	histidine kinase, HAMP region: chemotaxis sensory transducer	1.34
<i>PSYR_0457</i>	hypothetical protein PSYR_0457	1.34
<i>PSYR_2386</i>	hypothetical protein PSYR_2386	1.34
<i>PSYR_4422</i>	hypothetical protein PSYR_4422	1.33
<i>PSYR_1564</i>	hypothetical protein PSYR_1564	1.32
<i>PSYR_0944</i>	ribose-phosphate pyrophosphokinase	1.31
<i>PSYR_2337</i>	hypothetical protein PSYR_2337	1.31
<i>PSYR_2347</i>	hypothetical protein PSYR_2347	1.3
<i>PSYR_1866</i>	hypothetical protein PSYR_1866	1.3
<i>PSYR_1297</i>	YaeQ protein	1.29
<i>PSYR_0291</i>	hypothetical protein PSYR_0291	1.29
<i>PSYR_0963</i>	hypothetical protein PSYR_0963	1.29
<i>PSYR_3753</i>	short chain dehydrogenase	1.29
<i>PSYR_4586</i>	tail protein	1.29

<i>PSYR_4455</i>	hypothetical protein PSYR_4455	1.28
<i>PSYR_4764</i>	hypothetical protein PSYR_4764	1.27
<i>PSYR_4610</i>	phosphoglycolate phosphatase	1.27
<i>PSYR_3660</i>	hypothetical protein PSYR_3660	1.27
<i>PSYR_4296</i>	hypothetical protein PSYR_4296	1.27
<i>PSYR_3844</i>	hypothetical protein PSYR_3844	1.26
<i>PSYR_4112</i>	hypothetical protein PSYR_4112	1.26
<i>PSYR_3164</i>	hypothetical protein PSYR_3164	1.25
<i>PSYR_0231</i>	hypothetical protein PSYR_0231	1.25
<i>PSYR_3870</i>	SecC motif-containing protein	1.25
<i>PSYR_0965</i>	amine oxidase, flavin-containing	1.24
<i>PSYR_0252</i>	adenylate cyclase	1.24
<i>PSYR_2502</i>	hypothetical protein PSYR_2502	1.24
<i>PSYR_3666</i>	hypothetical protein PSYR_3666	1.23
<i>PSYR_3586</i>	phosphoesterase PHP, N-terminal:PHP, C-terminal, partial	1.22
<i>PSYR_4599</i>	hypothetical protein PSYR_4599	1.22
<i>PSYR_4723</i>	hypothetical protein PSYR_4723	1.22
<i>PSYR_0181</i>	lipoprotein LppL	1.21
<i>PSYR_1803</i>	hypothetical protein PSYR_1803	1.21
<i>PSYR_4329</i>	hypothetical protein PSYR_4329	1.21
<i>PSYR_1869</i>	hypothetical protein PSYR_1869	1.21
<i>PSYR_2641</i>	hypothetical protein PSYR_2641	1.21
<i>PSYR_3403</i>	RNA 2'-O-ribose methyltransferase	1.2
<i>PSYR_0212</i>	hypothetical protein PSYR_0212	1.2
<i>PSYR_1017</i>	type III effector HopJ1	1.2
<i>PSYR_4137</i>	sulfate transporter/antisigma-factor antagonist STAS	1.2
<i>PSYR_2234</i>	hypothetical protein PSYR_2234	1.2
<i>PSYR_2977</i>	cointegrate resolution protein T	1.2
<i>PSYR_0477</i>	hypothetical protein PSYR_0477	1.19
<i>PSYR_2879</i>	VirK	1.19
<i>PSYR_0857</i>	ribosomal-protein-alanine acetyltransferase	1.19
<i>PSYR_3573</i>	hypothetical protein PSYR_3573	1.19
<i>PSYR_2233</i>	hypothetical protein PSYR_2233	1.18
<i>PSYR_3358</i>	transmembrane pair	1.18
<i>PSYR_4947</i>	hypothetical protein PSYR_4947	1.18
<i>PSYR_2285</i>	twin-arginine translocation pathway signal	1.17
<i>PSYR_1837</i>	zinc-containing alcohol dehydrogenase superfamily protein	1.17
<i>PSYR_3664</i>	hypothetical protein PSYR_3664	1.16
<i>PSYR_0267</i>	endonuclease/exonuclease/phosphatase	1.16
<i>PSYR_2112</i>	hypothetical protein PSYR_2112	1.15
<i>PSYR_4736</i>	hypothetical protein PSYR_4736	1.15
<i>PSYR_1033</i>	protein YebG	1.14
<i>PSYR_0190</i>	nitrogen regulatory protein P-II	1.14
<i>PSYR_0565</i>	hypothetical protein PSYR_0565	1.13
<i>PSYR_0132</i>	hypothetical protein PSYR_0132	1.13
<i>PSYR_3058</i>	amidase	1.13
<i>PSYR_1475</i>	Phage integrase:Phage integrase, N-terminal SAM-like	1.13
<i>PSYR_0390</i>	hypothetical protein PSYR_0390	1.12
<i>PSYR_1064</i>	hypothetical protein PSYR_1064	1.12

<i>PSYR_1402</i>	hypothetical protein PSYR_1402	1.12
<i>PSYR_2952</i>	NADP oxidoreductase, coenzyme F420-dependent	1.12
<i>PSYR_1022</i>	hypothetical protein PSYR_1022	1.11
<i>PSYR_0512</i>	N-acetyltransferase GCN5	1.1
<i>PSYR_0568</i>	hypothetical protein PSYR_0568	1.1
<i>PSYR_2052</i>	lipoprotein	1.1
<i>PSYR_3260</i>	hypothetical protein PSYR_3260	1.1
<i>PSYR_1389</i>	hypothetical protein PSYR_1389	1.09
<i>PSYR_4593</i>	sigma factor domain-containing protein	1.09
<i>PSYR_0320</i>	hypothetical protein PSYR_0320	1.08
<i>PSYR_4303</i>	hypothetical protein PSYR_4303	1.07
<i>PSYR_4594</i>	hypothetical protein PSYR_4594	1.07
<i>PSYR_2813</i>	hypothetical protein PSYR_2813	1.07
<i>PSYR_0636</i>	LrgA protein	1.06
<i>PSYR_0985</i>	hypothetical protein PSYR_0985	1.06
<i>PSYR_0226</i>	hypothetical protein PSYR_0226	1.06
<i>PSYR_0194</i>	short-chain dehydrogenase	1.06
<i>PSYR_4587</i>	baseplate J-like protein	1.06
<i>PSYR_1643</i>	hypothetical protein PSYR_1643	1.05
<i>PSYR_3352</i>	N-acetyltransferase GCN5	1.05
<i>PSYR_0188</i>	hypothetical protein PSYR_0188	1.05
<i>PSYR_4172</i>	hypothetical protein PSYR_4172	1.04
<i>PSYR_4095</i>	hypothetical protein PSYR_4095	1.04
<i>PSYR_1334</i>	Fe-S metabolism associated SufE	1.03
<i>PSYR_3962</i>	glycine cleavage T protein (aminomethyl transferase)	1.03
<i>PSYR_0555</i>	hypothetical protein PSYR_0555	1.03
<i>PSYR_1834</i>	hypothetical protein PSYR_1834	1.03
<i>PSYR_0315</i>	hypothetical protein PSYR_0315	1.03
<i>PSYR_2477</i>	hypothetical protein PSYR_2477	1.03
<i>PSYR_3216</i>	hypothetical protein PSYR_3216	1.03
<i>PSYR_4806</i>	hypothetical protein PSYR_4806	1.02
<i>PSYR_0856</i>	hypothetical protein PSYR_0856	1.01
<i>PSYR_3857</i>	hypothetical protein PSYR_3857	1.01
<i>PSYR_1229</i>	preprotein translocase subunit YajC	1.01
<i>PSYR_0217</i>	hypothetical protein PSYR_0217	1.01
<i>PSYR_4760</i>	hypothetical protein PSYR_4760	1.01
<i>PSYR_2134</i>	hypothetical protein PSYR_2134	1.01
<i>PSYR_0983</i>	hypothetical protein PSYR_0983	1.01
<i>PSYR_3982</i>	3-hydroxyacyl-CoA-ACP transferase	1.01
<i>PSYR_4117</i>	ClpXP protease specificity-enhancing factor	1
<i>PSYR_1093</i>	permease YjgP/YjgQ	1
<i>PSYR_0152</i>	pyridine nucleotide-disulfide oxidoreductase family protein	-1
<i>PSYR_0308</i>	hypothetical protein PSYR_0308	-1
<i>PSYR_2861</i>	hypothetical protein PSYR_2861	-1
<i>PSYR_4915</i>	hypothetical protein PSYR_4915	-1.01
<i>PSYR_2088</i>	hypothetical protein PSYR_2088	-1.01
<i>PSYR_2307</i>	hypothetical protein PSYR_2307	-1.01
<i>PSYR_4655</i>	hypothetical protein PSYR_4655	-1.02
<i>PSYR_1911</i>	hypothetical protein PSYR_1911	-1.03

<i>PSYR_3268</i>	myo-inositol 2-dehydrogenase	-1.03
<i>PSYR_4127</i>	hypothetical protein PSYR_4127	-1.03
<i>PSYR_0773</i>	aryldialkylphosphatase	-1.03
<i>PSYR_3746</i>	hypothetical protein PSYR_3746	-1.03
<i>PSYR_4661</i>	phosphopantetheinyl transferase	-1.03
<i>PSYR_4000</i>	hypothetical protein PSYR_4000	-1.04
<i>PSYR_0101</i>	hypothetical protein PSYR_0101	-1.04
<i>PSYR_0118</i>	hypothetical protein PSYR_0118	-1.04
<i>PSYR_1934</i>	hypothetical protein PSYR_1934	-1.04
<i>PSYR_3286</i>	hypothetical protein PSYR_3286	-1.05
<i>PSYR_1954</i>	hypothetical protein PSYR_1954	-1.05
<i>PSYR_1605</i>	hypothetical protein PSYR_1605	-1.05
<i>PSYR_2355</i>	GAF domain-containing protein	-1.05
<i>PSYR_4068</i>	hypothetical protein PSYR_4068	-1.06
<i>PSYR_0648</i>	transporter	-1.06
<i>PSYR_1314</i>	lipoprotein	-1.07
<i>PSYR_1957</i>	pyoverdine sidechain peptide synthetase I, epsilon-Lys module	-1.07
<i>PSYR_2561</i>	hypothetical protein PSYR_2561	-1.07
<i>PSYR_2661</i>	hypothetical protein PSYR_2661	-1.07
<i>PSYR_2559</i>	hypothetical protein PSYR_2559	-1.07
<i>PSYR_1442</i>	hypothetical protein PSYR_1442	-1.08
<i>PSYR_3321</i>	helix-turn-helix, Fis-type	-1.08
<i>PSYR_3320</i>	hypothetical protein PSYR_3320	-1.08
<i>PSYR_2346</i>	hypothetical protein PSYR_2346	-1.08
<i>PSYR_0621</i>	hypothetical protein PSYR_0621	-1.08
<i>PSYR_0992</i>	hypothetical protein PSYR_0992	-1.09
<i>PSYR_0080</i>	hypothetical protein PSYR_0080	-1.09
<i>PSYR_0161</i>	hypothetical protein PSYR_0161	-1.09
<i>PSYR_2792</i>	Phage head morphosis protein, SPP1 gp7	-1.09
<i>PSYR_0341</i>	hypothetical protein PSYR_0341	-1.09
<i>PSYR_5114</i>	hypothetical protein PSYR_5114	-1.1
<i>PSYR_2797</i>	hypothetical protein PSYR_2797	-1.1
<i>PSYR_4309</i>	hypothetical protein PSYR_4309	-1.1
<i>PSYR_0530</i>	hypothetical protein PSYR_0530	-1.11
<i>PSYR_3494</i>	hypothetical protein PSYR_3494	-1.11
<i>PSYR_1935</i>	hypothetical protein PSYR_1935	-1.11
<i>PSYR_3759</i>	hypothetical protein PSYR_3759	-1.12
<i>PSYR_2996</i>	hypothetical protein PSYR_2996	-1.12
<i>PSYR_0619</i>	WavE lipopolysaccharide synthesis	-1.13
<i>PSYR_0143</i>	chemotaxis sensory transducer protein	-1.13
<i>PSYR_4783</i>	hypothetical protein PSYR_4783	-1.13
<i>PSYR_2214</i>	methyl-accepting chemotaxis protein	-1.13
<i>PSYR_3341</i>	hypothetical protein PSYR_3341	-1.13
<i>PSYR_2905</i>	peptide ABC transporter ATP-binding protein	-1.15
<i>PSYR_4084</i>	hypothetical protein PSYR_4084	-1.15
<i>PSYR_1741</i>	hypothetical protein PSYR_1741	-1.15
<i>PSYR_0906</i>	histidine kinase, HAMP region:Cache: chemotaxis sensory transducer	-1.16
<i>PSYR_3046</i>	hypothetical protein PSYR_3046	-1.16
<i>PSYR_1527</i>	hypothetical protein PSYR_1527	-1.16

<i>PSYR_2299</i>	hypothetical protein PSYR_2299	-1.16
<i>PSYR_2663</i>	hypothetical protein PSYR_2663	-1.16
<i>PSYR_1088</i>	hypothetical protein PSYR_1088	-1.17
<i>PSYR_2961</i>	ABC transporter	-1.18
<i>PSYR_4026</i>	hypothetical protein PSYR_4026	-1.18
<i>PSYR_1554</i>	hypothetical protein PSYR_1554	-1.18
<i>PSYR_0940</i>	hypothetical protein	-1.18
<i>PSYR_2660</i>	hypothetical protein PSYR_2660	-1.19
<i>PSYR_0426</i>	lipoprotein	-1.2
<i>PSYR_1701</i>	membrane protein	-1.2
<i>PSYR_1530</i>	hypothetical protein PSYR_1530	-1.2
<i>PSYR_0923</i>	hypothetical protein PSYR_0923	-1.21
<i>PSYR_0112</i>	hypothetical protein PSYR_0112	-1.22
<i>PSYR_1927</i>	hypothetical protein PSYR_1927	-1.22
<i>PSYR_3730</i>	hypothetical protein PSYR_3730	-1.22
<i>PSYR_0739</i>	hypothetical protein	-1.23
<i>PSYR_2317</i>	hypothetical protein	-1.23
<i>PSYR_3092</i>	PAP2 superfamily protein	-1.24
<i>PSYR_1579</i>	hypothetical protein PSYR_1579	-1.24
<i>PSYR_1717</i>	TPR repeat-containing von Willebrand factor, type A	-1.24
<i>PSYR_4486</i>	hypothetical protein PSYR_4486	-1.24
<i>PSYR_1446</i>	hypothetical protein PSYR_1446	-1.26
<i>PSYR_0578</i>	histidine kinase, HAMP region: chemotaxis sensory transducer	-1.26
<i>PSYR_1028</i>	hypothetical protein PSYR_1028	-1.27
<i>PSYR_2308</i>	hypothetical protein PSYR_2308	-1.27
<i>PSYR_1952</i>	hypothetical protein PSYR_1952	-1.27
<i>PSYR_1524</i>	hypothetical protein PSYR_1524	-1.27
<i>PSYR_1931</i>	hypothetical protein PSYR_1931	-1.27
<i>PSYR_0413</i>	hypothetical protein PSYR_0413	-1.28
<i>PSYR_1150</i>	chemotaxis sensory transducer protein	-1.28
<i>PSYR_0070</i>	hypothetical protein PSYR_0070	-1.28
<i>PSYR_1953</i>	hypothetical protein PSYR_1953	-1.3
<i>PSYR_0789</i>	chemotaxis sensory transducer protein	-1.31
<i>PSYR_2699</i>	hypothetical protein PSYR_2699	-1.31
<i>PSYR_0531</i>	LmbE-like protein	-1.31
<i>PSYR_4437</i>	hypothetical protein PSYR_4437	-1.31
<i>PSYR_2738</i>	regulatory protein LysR	-1.32
<i>PSYR_2724</i>	hypothetical protein PSYR_2724	-1.32
<i>PSYR_3728</i>	hypothetical protein PSYR_3728	-1.32
<i>PSYR_3729</i>	hypothetical protein PSYR_3729	-1.32
<i>PSYR_0939</i>	hypothetical protein	-1.32
<i>PSYR_3761</i>	hypothetical protein PSYR_3761	-1.33
<i>PSYR_4926</i>	N-acetyltransferase GCN5	-1.33
<i>PSYR_5093</i>	histidine kinase, HAMP region: chemotaxis sensory transducer	-1.33
<i>PSYR_4907</i>	hypothetical protein PSYR_4907	-1.33
<i>PSYR_3344</i>	hypothetical protein PSYR_3344	-1.34
<i>PSYR_1716</i>	hypothetical protein PSYR_1716	-1.34
<i>PSYR_1255</i>	hypothetical protein PSYR_1255	-1.34
<i>PSYR_3940</i>	hypothetical protein PSYR_3940	-1.35

<i>PSYR_3731</i>	hypothetical protein PSYR_3731	-1.35
<i>PSYR_2560</i>	hypothetical protein PSYR_2560	-1.35
<i>PSYR_4719</i>	hypothetical protein PSYR_4719	-1.37
<i>PSYR_1924</i>	hypothetical protein PSYR_1924	-1.37
<i>PSYR_4989</i>	hypothetical protein PSYR_4989	-1.37
<i>PSYR_0887</i>	sensory box protein	-1.38
<i>PSYR_4925</i>	hypothetical protein PSYR_4925	-1.38
<i>PSYR_2841</i>	hypothetical protein PSYR_2841	-1.38
<i>PSYR_2673</i>	hypothetical protein PSYR_2673	-1.38
<i>PSYR_3815</i>	hypothetical protein PSYR_3815	-1.38
<i>PSYR_0153</i>	hypothetical protein PSYR_0153	-1.39
<i>PSYR_2826</i>	hypothetical protein PSYR_2826	-1.39
<i>PSYR_3067</i>	hypothetical protein PSYR_3067	-1.4
<i>PSYR_2747</i>	extracellular ligand-binding receptor	-1.4
<i>PSYR_1881</i>	hypothetical protein PSYR_1881	-1.4
<i>PSYR_4085</i>	hypothetical protein PSYR_4085	-1.4
<i>PSYR_3941</i>	hypothetical protein PSYR_3941	-1.41
<i>PSYR_0380</i>	histidine kinase, HAMP region: chemotaxis sensory transducer	-1.41
<i>PSYR_5115</i>	helicase	-1.41
<i>PSYR_2316</i>	ral secretion pathway protein I	-1.41
<i>PSYR_1523</i>	hypothetical protein PSYR_1523	-1.42
<i>PSYR_2739</i>	ThiJ/PfpI	-1.43
<i>PSYR_3371</i>	oxidoreductase, molybdopterin binding	-1.43
<i>PSYR_1926</i>	hypothetical protein PSYR_1926	-1.43
<i>PSYR_0907</i>	hypothetical protein PSYR_0907	-1.45
<i>PSYR_3788</i>	hypothetical protein PSYR_3788	-1.45
<i>PSYR_2799</i>	hypothetical protein PSYR_2799	-1.45
<i>PSYR_2674</i>	hypothetical protein PSYR_2674	-1.45
<i>PSYR_2609</i>	Alpha/beta hydrolase fold	-1.45
<i>PSYR_4888</i>	hypothetical protein PSYR_4888	-1.46
<i>PSYR_2297</i>	Short-chain dehydrogenase/reductase SDR	-1.46
<i>PSYR_1529</i>	hypothetical protein PSYR_1529	-1.47
<i>PSYR_2987</i>	Cof protein/HAD-superfamily hydrolase	-1.48
<i>PSYR_3816</i>	hypothetical protein PSYR_3816	-1.48
<i>PSYR_0787</i>	sulfate transporter/antisigma-factor antagonist STAS	-1.49
<i>PSYR_2800</i>	hypothetical protein PSYR_2800	-1.49
<i>PSYR_3133</i>	amidohydrolase 2	-1.52
<i>PSYR_0871</i>	hypothetical protein PSYR_0871	-1.53
<i>PSYR_0825</i>	hypothetical protein PSYR_0825	-1.53
<i>PSYR_0427</i>	hypothetical protein PSYR_0427	-1.54
<i>PSYR_2744</i>	hypothetical protein PSYR_2744	-1.54
<i>PSYR_4025</i>	ATPase	-1.55
<i>PSYR_2185</i>	hypothetical protein PSYR_2185	-1.55
<i>PSYR_2543</i>	hypothetical protein PSYR_2543	-1.56
<i>PSYR_0958</i>	amine oxidase, flavin-containing	-1.57
<i>PSYR_1528</i>	Arc-like DNA binding	-1.58
<i>PSYR_3534</i>	histidine kinase, HAMP region:Cache: chemotaxis sensory transducer	-1.58
<i>PSYR_0104</i>	hypothetical protein PSYR_0104	-1.58
<i>PSYR_0772</i>	hypothetical protein PSYR_0772	-1.58

<i>PSYR_1460</i>	hypothetical protein PSYR_1460	-1.58
<i>PSYR_4258</i>	hypothetical protein PSYR_4258	-1.61
<i>PSYR_1030</i>	bacteriophage N4 adsorption protein B	-1.62
<i>PSYR_4878</i>	outer membrane porin	-1.62
<i>PSYR_0840</i>	pentapeptide repeat-containing protein	-1.62
<i>PSYR_1928</i>	regulatory protein LysR	-1.62
<i>PSYR_0893</i>	hypothetical protein PSYR_0893	-1.62
<i>PSYR_4035</i>	insecticidal toxin protein	-1.63
<i>PSYR_3900</i>	hypothetical protein PSYR_3900	-1.63
<i>PSYR_1470</i>	hypothetical protein PSYR_1470	-1.63
<i>PSYR_0532</i>	hypothetical protein PSYR_0532	-1.64
<i>PSYR_0913</i>	histidine kinase, HAMP region: chemotaxis sensory transducer	-1.65
<i>PSYR_3311</i>	virulence factor MVIN-like	-1.65
<i>PSYR_4955</i>	hypothetical protein PSYR_4955	-1.66
<i>PSYR_4514</i>	hypothetical protein PSYR_4514	-1.67
<i>PSYR_1490</i>	hypothetical protein PSYR_1490	-1.69
<i>PSYR_0330</i>	hypothetical protein PSYR_0330	-1.69
<i>PSYR_1519</i>	SecC motif-containing protein	-1.7
<i>PSYR_1471</i>	hypothetical protein PSYR_1471	-1.7
<i>PSYR_1713</i>	hypothetical protein PSYR_1713	-1.72
<i>PSYR_4207</i>	N-acetyltransferase GCN5	-1.72
<i>PSYR_2840</i>	hypothetical protein PSYR_2840	-1.73
<i>PSYR_2999</i>	LmbE-like protein	-1.77
<i>PSYR_2512</i>	hypothetical protein PSYR_2512	-1.77
<i>PSYR_1263</i>	ATPase	-1.77
<i>PSYR_0957</i>	hypothetical protein PSYR_0957	-1.78
<i>PSYR_3342</i>	hypothetical protein PSYR_3342	-1.78
<i>PSYR_4949</i>	hypothetical protein PSYR_4949	-1.81
<i>PSYR_0894</i>	PilT protein, N-terminal, partial	-1.82
<i>PSYR_1699</i>	hypothetical protein PSYR_1699	-1.82
<i>PSYR_4676</i>	hypothetical protein PSYR_4676	-1.84
<i>PSYR_1539</i>	histidine kinase, HAMP region: chemotaxis sensory transducer	-1.84
<i>PSYR_2998</i>	hypothetical protein PSYR_2998	-1.85
<i>PSYR_3000</i>	methyltransferase	-1.86
<i>PSYR_4682</i>	hypothetical protein PSYR_4682	-1.86
<i>PSYR_2791</i>	hypothetical protein PSYR_2791	-1.88
<i>PSYR_2633</i>	hypothetical protein PSYR_2633	-1.89
<i>PSYR_3090</i>	hypothetical protein PSYR_3090	-1.89
<i>PSYR_3373</i>	hypothetical protein PSYR_3373	-1.93
<i>PSYR_3998</i>	heat shock protein DnaJ, N-terminal, partial	-1.93
<i>PSYR_1089</i>	hypothetical protein PSYR_1089	-1.94
<i>PSYR_3533</i>	hypothetical protein PSYR_3533	-1.95
<i>PSYR_0100</i>	hypothetical protein PSYR_0100	-1.95
<i>PSYR_1029</i>	peptidase aspartic, active site	-1.96
<i>PSYR_2279</i>	hypothetical protein PSYR_2279	-1.96
<i>PSYR_5012</i>	hypothetical protein PSYR_5012	-1.96
<i>PSYR_1930</i>	hypothetical protein PSYR_1930	-1.97
<i>PSYR_0167</i>	hypothetical protein PSYR_0167	-1.98
<i>PSYR_0493</i>	CheW-like protein	-1.99

<i>PSYR_1085</i>	SAM-dependent methyltransferase	-2.01
<i>PSYR_4974</i>	Rhs element Vgr protein	-2.01
<i>PSYR_4973</i>	hypothetical protein PSYR_4973	-2.01
<i>PSYR_1204</i>	hypothetical protein PSYR_1204	-2.08
<i>PSYR_4385</i>	Alpha-2-macroglobulin, N-terminal:Alpha-2-macroglobulin, N-terminal, partial	-2.09
<i>PSYR_0381</i>	16S ribosomal RNA methyltransferase RsmE	-2.1
<i>PSYR_2461</i>	hypothetical protein PSYR_2461	-2.11
<i>PSYR_4985</i>	hypothetical protein PSYR_4985	-2.12
<i>PSYR_2650</i>	hypothetical protein PSYR_2650	-2.13
<i>PSYR_3310</i>	hexapptide repeat-containing transferase	-2.14
<i>PSYR_4956</i>	hypothetical protein PSYR_4956	-2.14
<i>PSYR_2646</i>	radical SAM family protein	-2.16
<i>PSYR_1472</i>	hypothetical protein PSYR_1472	-2.16
<i>PSYR_4984</i>	hypothetical protein PSYR_4984	-2.16
<i>PSYR_4082</i>	hypothetical protein PSYR_4082	-2.18
<i>PSYR_2963</i>	amino acid ABC transporter permease	-2.21
<i>PSYR_2568</i>	short chain dehydrogenase	-2.23
<i>PSYR_4509</i>	hypothetical protein PSYR_4509	-2.23
<i>PSYR_4355</i>	hypothetical protein PSYR_4355	-2.26
<i>PSYR_1477</i>	hypothetical protein PSYR_1477	-2.27
<i>PSYR_2824</i>	hypothetical protein PSYR_2824	-2.31
<i>PSYR_1515</i>	hypothetical protein PSYR_1515	-2.33
<i>PSYR_2651</i>	hypothetical protein PSYR_2651	-2.33
<i>PSYR_2433</i>	hypothetical protein PSYR_2433	-2.4
<i>PSYR_2842</i>	hypothetical protein PSYR_2842	-2.4
<i>PSYR_0332</i>	hypothetical protein PSYR_0332	-2.4
<i>PSYR_2652</i>	hypothetical protein PSYR_2652	-2.42
<i>PSYR_1476</i>	hypothetical protein PSYR_1476	-2.46
<i>PSYR_2837</i>	hypothetical protein PSYR_2837	-2.48
<i>PSYR_4083</i>	hypothetical protein PSYR_4083	-2.5
<i>PSYR_2345</i>	ea59 protein	-2.51
<i>PSYR_0750</i>	hypothetical protein PSYR_0750	-2.51
<i>PSYR_4872</i>	hypothetical protein PSYR_4872	-2.53
<i>PSYR_0085</i>	hypothetical protein PSYR_0085	-2.54
<i>PSYR_0099</i>	hypothetical protein PSYR_0099	-2.57
<i>PSYR_3601</i>	hypothetical protein PSYR_3601	-2.6
<i>PSYR_5010</i>	hypothetical protein PSYR_5010	-2.61
<i>PSYR_0335</i>	hypothetical protein PSYR_0335	-2.62
<i>PSYR_5009</i>	hypothetical protein PSYR_5009	-2.62
<i>PSYR_4968</i>	hypothetical protein PSYR_4968	-2.63
<i>PSYR_4983</i>	Rhs element Vgr protein	-2.63
<i>PSYR_1929</i>	hypothetical protein PSYR_1929	-2.7
<i>PSYR_0326</i>	hypothetical protein PSYR_0326	-2.73
<i>PSYR_2836</i>	hypothetical protein PSYR_2836	-2.73
<i>PSYR_0097</i>	hypothetical protein PSYR_0097	-2.75
<i>PSYR_4957</i>	hypothetical protein PSYR_4957	-2.75
<i>PSYR_2623</i>	hypothetical protein PSYR_2623	-2.77
<i>PSYR_3719</i>	hypothetical protein PSYR_3719	-2.79
<i>PSYR_1474</i>	hypothetical protein PSYR_1474	-2.87

<i>PSYR_2644</i>	hypothetical protein PSYR_2644	-2.88
<i>PSYR_3718</i>	hypothetical protein PSYR_3718	-2.88
<i>PSYR_2215</i>	CheW-like protein	-2.94
<i>PSYR_4967</i>	hypothetical protein PSYR_4967	-2.96
<i>PSYR_4972</i>	Sell repeat-containing protein	-3
<i>PSYR_1203</i>	hypothetical protein PSYR_1203	-3.06
<i>PSYR_2648</i>	hypothetical protein PSYR_2648	-3.06
<i>PSYR_2647</i>	hypothetical protein PSYR_2647	-3.11
<i>PSYR_2612</i>	syfP protein	-3.19
<i>PSYR_4963</i>	hypothetical protein PSYR_4963	-3.23
<i>PSYR_2649</i>	hypothetical protein PSYR_2649	-3.28
<i>PSYR_4959</i>	hypothetical protein PSYR_4959	-3.38
<i>PSYR_4982</i>	hypothetical protein PSYR_4982	-3.39
<i>PSYR_4388</i>	response regulator receiver	-3.41
<i>PSYR_2625</i>	lipoprotein	-3.51
<i>PSYR_4813</i>	sorbitol dehydrogenase	-3.54
<i>PSYR_2632</i>	virulence protein SrfB	-3.58
<i>PSYR_3807</i>	hypothetical protein PSYR_3807	-3.58
<i>PSYR_0928</i>	hypothetical protein PSYR_0928	-3.71
<i>PSYR_4966</i>	ImpA-like protein	-3.85
<i>PSYR_4510</i>	hypothetical protein PSYR_4510	-3.85
<i>PSYR_2624</i>	lipoprotein	-3.87
<i>PSYR_3809</i>	hypothetical protein PSYR_3809	-3.87
<i>PSYR_0737</i>	transmembrane protein	-3.87
<i>PSYR_4633</i>	SpoVR family protein	-3.89
<i>PSYR_2323</i>	hypothetical protein PSYR_2323	-4.05
<i>PSYR_4962</i>	hypothetical protein PSYR_4962	-4.07
<i>PSYR_2626</i>	hypothetical protein PSYR_2626	-4.1
<i>PSYR_3129</i>	3-hydroxyacyl-CoA-ACP transferase	-4.12
<i>PSYR_2631</i>	hypothetical protein PSYR_2631	-4.18
<i>PSYR_4971</i>	Sell repeat-containing protein	-4.24
<i>PSYR_0098</i>	hypothetical protein PSYR_0098	-4.31
<i>PSYR_0927</i>	hypothetical protein PSYR_0927	-4.32
<i>PSYR_4511</i>	hypothetical protein PSYR_4511	-4.38
<i>PSYR_4961</i>	hypothetical protein PSYR_4961	-4.38
<i>PSYR_4632</i>	hypothetical protein PSYR_4632	-4.41
<i>PSYR_4965</i>	hypothetical protein PSYR_4965	-4.42
<i>PSYR_2630</i>	hypothetical protein PSYR_2630	-4.73
<i>PSYR_2629</i>	von Willebrand factor, type A	-5.03
<i>PSYR_3808</i>	hypothetical protein PSYR_3808	-5.06
<i>PSYR_4987</i>	hypothetical protein PSYR_4987	-5.37