**Supplemental table S1 - Predicted essential genes of *B. pseudomallei* K96243**

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| **Gene Number** | **Gene Name** | **Gene Description** |
| BPSL0073 | - | DNA gyrase subunit B |
| BPSL0074 | dnaN | DNA polymerase III, beta chain |
| BPSL0075 | dnaA | chromosomal replication initiator protein DnaA |
| BPSL0078 | - | putative membrane protein |
| BPSL0080 | trmE | putative tRNA modification GTPase |
| BPSL0089 | - | hypothetical protein |
| BPSL0090 | - | putative transposase protein |
| BPSL0128 | - | response regulator protein |
| BPSL0186 | mreB | putative rod shape-determining protein |
| BPSL0188 | gatA | glutamyl-tRNA amidotransferase subunit A |
| BPSL0189 | gatB | glutamyl-tRNA amidotransferase subunit B |
| BPSL0200 | argB | putative acetylglutamate kinase |
| BPSL0208 | - | integrase/recombinase |
| BPSL0212 | metK | S-adenosylmethionine synthetase |
| BPSL0241 | fpr | ferredoxin--NADP reductase |
| BPSL0265 | cca | tRNA nucleotidyltransferase |
| BPSL0312 | glmS1 | glucosamine--fructose-6-phosphate aminotransferase [isomerizing] 1 |
| BPSL0313 | glmU | bifunctional glmU protein [includes |
| BPSL0317 | - | conserved hypothetical protein |
| BPSL0383 | argS | putative arginyl-tRNA synthetase |
| BPSL0397 | - | Bordetella pertussis Bvg accessory factor family protein |
| BPSL0398 | - | putative biotin ligase |
| BPSL0414 | lipA | lipoic acid synthetase |
| BPSL0514 | - | putative cell division protein |
| BPSL0521 | prs | ribose-phosphate pyrophosphokinase |
| BPSL0523 | - | putative 4-diphosphocytidyl-2-C-methyl-D-erythritol kinase |
| BPSL0530 | - | putative HPr(Ser) kinase/phosphatase |
| BPSL0534 | - | ABC transporter system, ATP-binding protein |
| BPSL0535 | - | OstA-like protein |
| BPSL0547 | ssb | single-strand binding protein |
| BPSL0584 | - | putative membrane protein |
| BPSL0588 | - | hypothetical protein |
| BPSL0593 | - | hypothetical protein |
| BPSL0602 | - | putative membrane protein |
| BPSL0603 | - | putative polysaccharide biosynthesis protein |
| BPSL0604 | - | putative glycosyl transferase |
| BPSL0608 | - | PAP2 superfamily |
| BPSL0640 | - | putative ubiquinone biosynthesis protein |
| BPSL0643 | - | putative membrane protein |
| BPSL0644 | aspS | aspartyl-tRNA synthetase |
| BPSL0658 | - | putative exported protein |
| BPSL0660 | pdxA | 4-hydroxythreonine-4-phosphate dehydrogenase |
| BPSL0667 | glyS | putative glycyl-tRNA synthetase beta chain |
| BPSL0672 | - | conserved hypothetical protein |
| BPSL0791 | waaF | putative ADP-heptose--LPS heptosyltransferase II |
| BPSL0801 | purK | phosphoribosylaminoimidazole carboxylase ATPase subunit |
| BPSL0802 | - | conserved hypothetical protein |
| BPSL0854 | pdxH | putative pyridoxamine 5'-phosphate oxidase |
| BPSL0859 | - | putative N-acetylmuramoyl-L-alanine amidase |
| BPSL0860 | - | putative hydrolase |
| BPSL0866 | - | putative membrane protein |
| BPSL0868 | murB | putative UDP-N-acetylenolpyruvoylglucosamine reductase |
| BPSL0872 | - | MviN-like protein |
| BPSL0875 | adk | putative adenylate kinase |
| BPSL0878 | - | putative tetraacyldisaccharide 4'-kinase |
| BPSL0880 | sodB | putative superoxide dismutase |
| BPSL0896 | icd | isocitrate dehydrogenase |
| BPSL0904 | dfp | putative DNA/pantothenate metabolism flavoprotein |
| BPSL0905 | lspA | signal peptidase II |
| BPSL0906 | ileS1 | isoleucyl-tRNA synthetase |
| BPSL0963 | - | putative permease protein |
| BPSL0964 | - | putative permease protein |
| BPSL0969 | ilvD | putative dihydroxy-acid dehydratase |
| BPSL0992 | - | conserved hypothetical protein |
| BPSL1002 | dcd | deoxycytidine triphosphate deaminase |
| BPSL1006 | argH | argininosuccinate lyase |
| BPSL1015 | hemC | putative porphobilinogen deaminase protein |
| BPSL1026 | - | putative glutamine-dependent NAD synthase |
| BPSL1069 | parE | topoisomerase IV subunit B |
| BPSL1117 | dnaE | putative DNA polymerase III alpha subunit |
| BPSL1118 | - | putative ABC transport system, ATP-binding protein |
| BPSL1162 | - | putative nicotinate-nucleotide adenylyltransferase |
| BPSL1163 | hemF | coproporphyrinogen III oxidase, aerobic |
| BPSL1198 | ilvC | ketol-acid reductoisomerase |
| BPSL1199 | - | putative decarboxylase |
| BPSL1200 | - | putative phosphatidyltransferase |
| BPSL1207 | pnp | polyribonucleotide nucleotidyltransferase |
| BPSL1212 | nuoB | NADH dehydrogenase I chain B |
| BPSL1213 | nuoC | NADH dehydrogenase I chain C |
| BPSL1214 | nuoD | NADH dehydrogenase I chain D |
| BPSL1215 | - | putative NADH dehydrogenase I chain E |
| BPSL1216 | nuoF | NADH dehydrogenase I chain F |
| BPSL1217 | - | putative NADH dehydrogenase I chain G |
| BPSL1218 | nuoH | NADH dehydrogenase I chain H |
| BPSL1219 | - | putative NADH dehydrogenase I chain I |
| BPSL1220 | nuoJ | NADH dehydrogenase I chain J |
| BPSL1222 | nuoL | NADH-ubiquinone oxidoreductase I chain L |
| BPSL1223 | nuoM | NADH dehydrogenase I chain M |
| BPSL1224 | nuoN | NADH dehydrogenase I chain N |
| BPSL1282 | - | putative exodeoxyribonuclease V gamma chain |
| BPSL1341 | dnaQ | DNA polymerase III, epsilon chain |
| BPSL1342 | rnhA | ribonuclease HI |
| BPSL1349 | carA | carbamoyl-phosphate synthase small chain |
| BPSL1355 | - | putative ribosomal RNA large subunit methyltransferase |
| BPSL1356 | ftsH | FtsH endopeptidase |
| BPSL1357 | folP | dihydropteroate synthase |
| BPSL1358 | - | putative phosphoglucomutase |
| BPSL1388 | - | hypothetical protein |
| BPSL1403 | clpP | ATP-dependent Clp protease proteolytic subunit |
| BPSL1404 | clpX | ATP-dependent Clp protease ATP-binding subunit |
| BPSL1434 | - | conserved hypothetical protein |
| BPSL1436 | - | putative thymidylate kinase |
| BPSL1462 | dnaB | replicative DNA helicase |
| BPSL1468 | - | conserved hypothetical protein |
| BPSL1471 | - | putative polymixin resistance glucosyl transferase |
| BPSL1472 | - | putative LPS biosynthesis-related protein |
| BPSL1474 | - | putative membrane protein |
| BPSL1477 | hom | homoserine dehydrogenase |
| BPSL1478 | thrC | threonine synthase |
| BPSL1495 | rho | transcription termination factor rho |
| BPSL1498 | dnaX | DNA polymerase III subunit gamma |
| BPSL1504 | - | subfamily M23B unassigned peptidase |
| BPSL1510 | ndk | nucleoside diphosphate kinase |
| BPSL1513 | - | putative 1-hydroxy-2-methyl-2-(e)-butenyl 4-diphosphate synthase |
| BPSL1514 | hisS | histidyl-tRNA synthetase |
| BPSL1516 | - | conserved hypothetical protein |
| BPSL1524 | purA | adenylosuccinate synthetase |
| BPSL1598 | - | putative transport-related, membrane protein |
| BPSL1599 | - | putative membrane linked regulatory protein |
| BPSL1600 | - | putative cytochrome c-related lipoprotein |
| BPSL1603 | - | putative lipoprotein |
| BPSL1604 | - | putative membrane protein |
| BPSL1605 | - | putative copper-related ABC transport system, ATP-binding protein |
| BPSL1606 | - | putative copper-binding periplasmic protein |
| BPSL1607 | nosZ | nitrous-oxide reductase precursor |
| BPSL1608 | - | putative thiamine biosynthesis lipoprotein |
| BPSL1610 | - | putative ABC transport system, membrane protein |
| BPSL1611 | - | putative methyl-accepting chemotaxis transmembrane protein |
| BPSL1612 | - | hypothetical protein |
| BPSL1615 | - | putative iron-sulphur protein |
| BPSL1616 | - | putative transport related membrane protein |
| BPSL1617 | - | putative hydroxylase |
| BPSL1618 | - | hypothetical protein |
| BPSL1627 | - | putative fimbrial assembly chaperone precursor |
| BPSL1628 | - | putative fimbrial usher protein |
| BPSL1629 | - | putative exported fimbria-related protein |
| BPSL1631 | - | putative outer membrane protein |
| BPSL1643 | - | conserved hypothetical protein |
| BPSL1645 | - | putative oxygenase |
| BPSL1649 | - | putative ABC transport system, substrate-binding protein |
| BPSL1650 | - | putative ABC transport system, permease protein |
| BPSL1651 | - | putative ABC transport system, permease protein |
| BPSL1652 | - | putative ABC transport system, ATP-binding protein |
| BPSL1653 | - | putative GntR-family regulatory protein |
| BPSL1654 | gabD | succinate-semialdehyde dehydrogenase [NADP+] |
| BPSL1655 | - | putative outer membrane porin protein |
| BPSL1657 | - | insertion element hypothetical protein |
| BPSL1659 | - | putative exported protein |
| BPSL1660 | - | putative outer membrane protein |
| BPSL1661 | - | putative hemolysin-related protein |
| BPSL1662 | - | hypothetical protein |
| BPSL1663 | - | conserved hypothetical protein |
| BPSL1664 | - | putative toxin transport-related membrane protein |
| BPSL1665 | - | putative toxin-related secretion protein |
| BPSL1666 | - | hypothetical protein |
| BPSL1667 | - | hypothetical protein |
| BPSL1668 | - | putative adenylylsulfate kinase |
| BPSL1670 | - | putative transposase |
| BPSL1672 | - | hypothetical protein |
| BPSL1674 | - | putative outer membrane porin protein precursor |
| BPSL1675 | - | putative transposase |
| BPSL1676 | - | putative exported histidine ammonia-lyase |
| BPSL1677 | - | putative transport-related, integral membrane protein |
| BPSL1678 | - | putative urocanate hydratase |
| BPSL1679 | - | conserved hypothetical protein |
| BPSL1681 | - | putative allantoinase |
| BPSL1682 | - | family M20 unassigned peptidase |
| BPSL1689 | - | putative membrane protein |
| BPSL1690 | - | conserved hypothetical protein |
| BPSL1691 | - | conserved hypothetical protein |
| BPSL1704a | - | hypothetical protein |
| BPSL1705 | - | putative membrane protein |
| BPSL1708 | - | putative exported protein |
| BPSL1716 | - | putative cysteine synthase |
| BPSL1717 | - | hypothetical protein |
| BPSL1718 | - | putative membrane protein |
| BPSL1720 | - | putative argininosuccinate lyase |
| BPSL1721 | - | putative argininosuccinate synthase |
| BPSL1722 | - | putative formyl transferase |
| BPSL1723 | - | hypothetical protein |
| BPSL1724 | - | putative histidinol-phosphate aminotransferase |
| BPSL1727 | - | putative non-ribosomal peptide synthase (thioesterase domain) |
| BPSL1728 | - | putative exported porin |
| BPSL1729 | - | putative AraC-family transcriptional regulator |
| BPSL1730 | - | putative transmembrane protein |
| BPSL1731 | cheW2 | chemotaxis protein CheW2 |
| BPSL1732 | - | putative methyl-accepting chemotaxis citrate transducer |
| BPSL1742 | arcD | arginine/ornithine antiporter |
| BPSL1743 | arcA | arginine deiminase |
| BPSL1750 | - | putative MarR-family transcriptional regulator |
| BPSL1751 | - | putative amino-acid transport-related exported protein |
| BPSL1779 | - | putative siderophore biosynthesis related ABC transport protein |
| BPSL1783 | - | putative iron transport-related membrane protein |
| BPSL1784 | - | putative iron transport-related ATP-bidning protein |
| BPSL1792 | - | hypothetical protein |
| BPSL1793 | - | putative sugar-binding exported protein |
| BPSL1794 | - | putative AraC-family transcriptional regulator |
| BPSL1803 | amrB | multidrug efflux system transporter protein AmrB |
| BPSL1804 | amrA | multidrug efflux system putative membrane fusion protein |
| BPSL1810 | - | putative membrane protein |
| BPSL1811 | - | putative membrane protein |
| BPSL1813 | - | putative fimbriae-related membrane protein |
| BPSL1814 | - | putative membrane protein |
| BPSL1815 | - | putative fimbriae assembly-related protein |
| BPSL1816 | - | putative fimbriae assembly-related protein |
| BPSL1818 | - | putative fimbriae assembly-related protein |
| BPSL1819 | - | putative fimbriae-assembly related protein |
| BPSL1820 | - | putative fimbriae assembly-related protein |
| BPSL1822 | - | putative membrane protein |
| BPSL1823 | - | putative ABC transport system, ATP-binding protein |
| BPSL1866 | pyrD | dihydroorotate dehydrogenase |
| BPSL1877 | - | conserved hypothetical protein |
| BPSL1908 | sucB | dihydrolipoamide succinyltransferase component of 2-oxoglutarate dehydrogenase complex |
| BPSL1909 | sucA | 2-oxoglutarate dehydrogenase E1 component |
| BPSL1910 | - | putative transposase |
| BPSL1918 | infB | translation initiation factor IF-2 |
| BPSL1919 | nusA | N utilization substance protein A |
| BPSL1932 | tnpA | transposase |
| BPSL1940 | pheT | phenylalanyl-tRNA synthetase beta chain |
| BPSL1941 | pheS | phenylalanyl-tRNA synthetase alpha chain |
| BPSL1945 | thrS | threonyl-tRNA synthetase |
| BPSL1961 | - | putative electron transport protein |
| BPSL1980 | valS | putative valyl-tRNA synthetase |
| BPSL1981 | galU | UTP--glucose-1-phosphate uridylyltransferase 2362538 |
| BPSL1993 | - | putative ABC transport system, ATP-binding protein |
| BPSL2007 | - | putative membrane protein |
| BPSL2009 | alaS | alanyl-tRNA synthetase |
| BPSL2012 | glnS | glutaminyl-tRNA synthetase |
| BPSL2020 | - | HlyD family secretion protein |
| BPSL2021 | - | putative drug-resistance related membrane protein |
| BPSL2054 | - | hypothetical protein |
| BPSL2056 | - | putative oxidase |
| BPSL2057 | - | putative exported protein |
| BPSL2058 | - | conserved hypothetical protein |
| BPSL2063 | - | putative membrane protein |
| BPSL2065 | - | putative two component system, response regulator |
| BPSL2070 | - | hypothetical protein |
| BPSL2073 | phaZ | poly(3-hydroxybutyrate) depolymerase precursor |
| BPSL2075 | - | putative trehalose synthase protein |
| BPSL2078 | - | putative trehalose trehalohydrolase protein |
| BPSL2079 | - | putative glucanotransferase |
| BPSL2080 | - | putative glycosyl hydrolase |
| BPSL2099 | ispD | 2-C-methyl-D-erythritol 4-phosphate cytidylyltransferase |
| BPSL2119 | - | putative amino acid racemase |
| BPSL2123 | - | putative deaminase |
| BPSL2127 | guaA | GMP synthase [glutamine-hydrolyzing] |
| BPSL2129 | guaB | inosine-5'-monophosphate dehydrogenase |
| BPSL2136 | - | conserved hypothetical protein |
| BPSL2146 | - | putative lipid-A-disaccharide synthase |
| BPSL2147 | lpxA | acyl-[acyl-carrier-protein]--UDP-N-acetylglucosamine O-acyltransferase |
| BPSL2149 | lpxD | UDP-3-O-[3-hydroxymyristoyl] glucosamine N-acyltransferase |
| BPSL2150 | - | putative outer membrane protein |
| BPSL2151 | - | putative outer membrane protein |
| BPSL2152 | - | putative membrane-bound protease |
| BPSL2153 | dxr | 1-deoxy-D-xylulose 5-phosphate reductoisomerase |
| BPSL2154 | - | putative phosphatidate cytidylyltransferase membrane protein |
| BPSL2155 | uppS | undecaprenyl pyrophosphate synthetase |
| BPSL2157 | pyrH | uridylate kinase |
| BPSL2158 | tsf | elongation factor TS |
| BPSL2164 | ligA | DNA ligase |
| BPSL2165 | - | putative membrane protein |
| BPSL2166 | - | putative chromosome partition protein |
| BPSL2169 | dapD | 2,3,4,5-tetrahydropyridine-2,6-dicarboxylate N-succinyltransferase |
| BPSL2171 | dapE | succinyl-diaminopimelate desuccinylase |
| BPSL2180 | - | putative membrane protein |
| BPSL2197 | gltX | glutamyl-tRNA synthetase |
| BPSL2217 | - | putative sulfate adenylyltransferase |
| BPSL2239 | ask | aspartokinase |
| BPSL2240 | - | putative cell cycle protein |
| BPSL2241 | accA | acetyl-coenzyme A carboxylase carboxyl transferase subunit alpha |
| BPSL2243 | cysS | cysteinyl-tRNA synthetase |
| BPSL2247 | - | putative UDP-2,3-diacylglucosamine hydrolase (lipid A biosynthesis related |
| BPSL2250 | suhB | inositol-1-monophosphatase |
| BPSL2258 | dapA | dihydrodipicolinate synthase |
| BPSL2260 | - | putative tryptophanyl-tRNA synthetase |
| BPSL2270 | eno | enolase |
| BPSL2272 | pyrG | CTP synthase |
| BPSL2277 | - | putative lipoprotein releasing system transmembrane protein |
| BPSL2280 | supK | peptide chain release factor 2 |
| BPSL2281 | lysS | lysyl-tRNA synthetase |
| BPSL2289 | iscS | cysteine desulfurase |
| BPSL2304 | folD | FolD bifunctional protein |
| BPSL2311 | - | putative respiratory nitrate reductase delta chain |
| BPSL2318 | glnA | glutamine synthetase |
| BPSL2347 | - | LuxR family regulatory protein |
| BPSL2351 | - | putative membrane protein |
| BPSL2360 | - | conserved hypothetical protein |
| BPSL2361 | - | conserved hypothetical protein |
| BPSL2363 | - | putative 2-nitropropane dioxygenase |
| BPSL2364 | - | putative membrane protein |
| BPSL2366 | - | putative oxygen-independent coproporphyrinogen oxidase |
| BPSL2368 | - | putative membrane protein |
| BPSL2372 | - | putative selenocysteine lyase |
| BPSL2374 | - | conserved hypothetical protein |
| BPSL2378 | cyoA | ubiquinol oxidase polypeptide II precursor |
| BPSL2419 | - | putative CDP-diacylglycerol--glycerol-3-phosphate 3-phosphatidyltransferase |
| BPSL2422 | - | putative elongation factor p |
| BPSL2426 | pdxJ | pyridoxal phosphate biosynthetic protein PdxJ |
| BPSL2430 | lepB | signal peptidase I |
| BPSL2436 | rpoE | RNA polymerase sigma E factor |
| BPSL2438 | fabF | 3-oxoacyl-[acyl-carrier-protein] synthase II |
| BPSL2440 | fabG | 3-oxoacyl-[acyl-carrier protein] reductase |
| BPSL2442 | fabH | 3-oxoacyl-[acyl-carrier-protein] synthase III |
| BPSL2443 | - | putative fatty acid/phospholipid synthesis protein |
| BPSL2473 | - | putative thymidylate synthase |
| BPSL2476 | - | dihydrofolate reductase |
| BPSL2477 | - | putative transposase |
| BPSL2488 | tnpA | transposase |
| BPSL2490 | trmD | tRNA(guanine-n(1)-)-methyltransferase |
| BPSL2491 | rimM | 16S rRNA processing protein |
| BPSL2499 | etfA | electron transfer flavoprotein alpha-subunit |
| BPSL2500 | etfB | electron transfer flavoprotein beta-subunit |
| BPSL2507 | cysM | cysteine synthase |
| BPSL2509 | gmhD | putative ADP-glycero-mannoheptose epimerase |
| BPSL2510 | waaE | putative ADP-heptose synthase |
| BPSL2511 | udg | putative UDP-glucose dehydrogenase |
| BPSL2512 | - | putative membrane protein |
| BPSL2515 | rpsA | 30S ribosomal protein S1 |
| BPSL2516 | cmk | cytidylate kinase |
| BPSL2520 | - | putative exported protein |
| BPSL2521 | gyrA | DNA Gyrase, subunit A |
| BPSL2522 | ompA | outer membrane protein a precursor |
| BPSL2523 | ubiG | 3-demethylubiquinone-9 3-methyltransferase |
| BPSL2547 | fbp | fructose-1,6-bisphosphatase, chromosomal |
| BPSL2561 | spoT | guanosine-3',5'-bis(diphosphate) 3'-pyrophosphohydrolase |
| BPSL2563 | gmk | guanylate kinase |
| BPSL2600 | serS | seryl-tRNA synthetase |
| BPSL2623 | hemL | glutamate-1-semialdehyde 2,1-aminomutase |
| BPSL2627 | ribH | 6,7-dimethyl-8-ribityllumazine synthase |
| BPSL2651 | - | putative exported protein |
| BPSL2653 | - | putative branched-chain amino acid transport system, permease |
| BPSL2655 | - | putative ABC transport ATP-binding subunit |
| BPSL2665 | waaC1 | lipopolysaccharide heptosyltransferase-1 |
| BPSL2666 | pgm | phosphoglucomutase 3189170 |
| BPSL2667 | - | putative lipopolysaccharide biosynthesis protein |
| BPSL2668 | - | putative glycosyl transferase |
| BPSL2684 | rmlC | dTDP-6-deoxy-D-glucose-3,5 epimerase |
| BPSL2697 | groEL | 60 kDa chaperonin |
| BPSL2708 | - | putative exported Metallo-beta-lactamase-family protein |
| BPSL2758 | glyA | serine hydroxymethyltransferase |
| BPSL2764 | tolB | putative periplasmic TolB protein |
| BPSL2774 | - | hypothetical protein |
| BPSL2777 | - | putative O-antigen translocase |
| BPSL2780 | - | putative capsular polysaccharide transport protein |
| BPSL2781 | - | putative transmembrane sugar transferase |
| BPSL2817 | tnpA | transposase |
| BPSL2829 | - | putative heat shock protein |
| BPSL2833 | - | putative ATP-NAD kinase/inorganic polyphosphatase |
| BPSL2871 | secD | putative protein-export membrane protein |
| BPSL2888 | - | putative hydrolase |
| BPSL2893 | - | putative ubiquinone biosynthesis-related protein |
| BPSL2898 | ruvA | holliday junction DNA helicase |
| BPSL2899 | ruvB | holliday junction DNA helicase |
| BPSL2904 | tyrZ | tyrosyl-tRNA synthetase |
| BPSL2911 | rplM | 50S ribosomal protein L13 |
| BPSL2914 | pyrC | dihydroorotase 3483172 |
| BPSL2925 | - | putative glutamate dehydrogenase |
| BPSL2926 | - | putative LysR-family transcriptional regulator |
| BPSL2928 | purB | adenylosuccinate lyase |
| BPSL2935 | proA | gamma-glutamyl phosphate reductase |
| BPSL2938 | leuS | leucyl-tRNA synthetase |
| BPSL2943 | fur | ferric uptake regulator |
| BPSL2953 | tktA | transketolase 1 |
| BPSL2960 | - | putative thiamine-monophosphate kinase |
| BPSL2983 | accB | biotin carboxyl carrier protein of acetyl-CoA carboxylase |
| BPSL2984 | accC | biotin carboxylase |
| BPSL2991 | nrdB | ribonucleoside-diphosphate reductase beta chain |
| BPSL2992 | - | putative ribonucleoside reductase |
| BPSL2995 | ffh | signal recognition particle protein |
| BPSL2998 | proS | prolyl-tRNA synthetase |
| BPSL3001 | - | putative transposase |
| BPSL3002 | proB | glutamate 5-kinase |
| BPSL3003 | - | putative conserved GTP-binding protein |
| BPSL3006 | ispB | octaprenyl-diphosphate synthase |
| BPSL3018 | envA | UDP-3-O-[3-hydroxymyristoyl] N-acetylglucosamine deacetylase |
| BPSL3020 | ftsZ | cell division protein FtsZ |
| BPSL3021 | ftsA | cell division protein FtsA |
| BPSL3022 | ftsQ | cell division protein FtsQ |
| BPSL3023 | ddlB | D-alanine--d-alanine ligase B |
| BPSL3025 | murG | UDP-N-acetylglucosamine--N-acetylmuramyl-(pentapeptide) pyrophosphoryl-undecaprenol N-acetylglucosamine transferase MurG |
| BPSL3026 | ftsW | cell division protein FtsW |
| BPSL3027 | murD | UDP-N-acetylmuramoylalanine--D-glutamate ligase |
| BPSL3028 | mraY | phospho-N-acetylmuramoyl-pentapeptide-transferase |
| BPSL3029 | murF | UDP-N-acetylmuramoylalanyl-D-glutamyl-2,6-diaminopimelate--D-alanyl-D-alanyl ligase |
| BPSL3030 | murE | UDP-N-acetylmuramoylalanyl-D-glutamate--2,6-diaminopimelate ligase |
| BPSL3031 | ftsI | peptidoglycan synthetase FtsI |
| BPSL3033 | mraW | S-adenosyl-methyltransferase MraW |
| BPSL3035 | - | conserved hypothetical protein |
| BPSL3055 | ung | uracil-DNA glycosylase |
| BPSL3115 | - | putative transcriptional regulator |
| BPSL3117 | - | insertion element hypothetical protein |
| BPSL3120 | - | putative stringent starvation protein A |
| BPSL3180 | - | putative cytochrome C biogenesis protein |
| BPSL3187 | rpoA | DNA-directed RNA polymerase alpha chain |
| BPSL3188 | rpsD | 30S ribosomal protein S4 |
| BPSL3193 | secY | preprotein translocase SecY subunit |
| BPSL3194 | rplO | 50S ribosomal protein L15 |
| BPSL3196 | rpsE | 30S ribosomal protein S5 |
| BPSL3198 | rplF | 50S ribosomal protein L6 |
| BPSL3201 | rplE | 50S ribosomal protein L5 |
| BPSL3207 | rpsC | 30S ribosomal protein S3 |
| BPSL3210 | rplB | 50S ribosomal protein L2 |
| BPSL3212 | rplD | 50S ribosomal protein L4 |
| BPSL3213 | rplC | 50S ribosomal protein L3 |
| BPSL3215 | tufA2 | elongation factor Tu |
| BPSL3216 | fusA | elongation factor G |
| BPSL3217 | rpsG | 30S ribosomal protein S7 |
| BPSL3220 | rpoC | DNA-directed RNA polymerase beta' chain |
| BPSL3221 | - | DNA-directed RNA polymerase beta chain |
| BPSL3223 | rplJ | 50S ribosomal protein L10 |
| BPSL3225 | relC | 50s ribosomal protein L11 |
| BPSL3226 | nusG | transcription antitermination protein NusG |
| BPSL3228 | tufA1 | elongation factor Tu |
| BPSL3290 | ahcY | adenosylhomocysteinase |
| BPSL3390 | priA | primosomal protein N' |
| BPSL3391 | hemE | uroporphyrinogen decarboxylase |
| BPSL3396 | atpD | ATP synthase beta chain |
| BPSL3397 | atpG | ATP synthase gamma chain |
| BPSL3398 | atpA | ATP synthase alpha chain |
| BPSL3400 | atpF | ATP synthase B chain |
| BPSL3402 | atpB | ATP synthase A chain |
| BPSL3403 | - | putative ATP synthase protein I AtpI |
| BPSL3405 | - | chromosome partitioning protein ParB |
| BPSS0093 | - | outer membrane usher protein |
| BPSS0098 | - | conserved hypothetical protein |
| BPSS0105 | - | conserved hypothetical protein |
| BPSS0112 | - | conserved hypothetical protein |
| BPSS0116 | - | putative chaperone-related protein |
| BPSS0148 | - | subfamily M20D non-peptidase homologue |
| BPSS0163 | asnO | asparagine synthetase [glutamine-hydrolyzing] |
| BPSS0252 | - | putative porin membrane protein |
| BPSS0402 | - | bacteriophage/transposase fusion protein |
| BPSS0517 | - | conserved hypothetical protein |
| BPSS0524 | - | conserved hypothetical protein |
| BPSS0537 | - | putative UDP-glucoronosyl and UDP-glucosyl transferase |
| BPSS0545 | fdhA | glutathione-independent formaldehyde dehydrogenase |
| BPSS0547 | glyA | serine hydroxymethyltransferase |
| BPSS0550 | - | NADH |
| BPSS0551 | - | putative membrane protein |
| BPSS0552 | - | putative electron transfer flavoprotein alpha-subunit |
| BPSS0609 | - | thiamine pyrophosphate enzyme family protein |
| BPSS0684 | - | conserved hypothetical protein |
| BPSS0685 | - | conserved hypothetical protein |
| BPSS0735 | - | putative glycosyl transferase |
| BPSS0746 | - | putative lipase |
| BPSS0750 | - | amino acid permease |
| BPSS0752 | - | putative lipoprotein |
| BPSS0754 | - | putative membrane protein |
| BPSS0782 | - | putative sugar transport protein |
| BPSS0796 | - | putative surface-exposed protein |
| BPSS0813 | - | putative sensor histidine kinase |
| BPSS0823 | - | hypothetical protein |
| BPSS0868 | feaB | phenylacetaldehyde dehydrogenase |
| BPSS0869 | - | aminotransferase class-III |
| BPSS1037 | - | putative sugar transport protein |
| BPSS1042 | czcB | putative cobalt-zinc-cadmium resistance protein |
| BPSS1082 | - | putative bacteriophage protein gp17 |
| BPSS1100 | - | putative cation transport ATPase protein |
| BPSS1112 | - | putative amino acid permease |
| BPSS1114 | ftsH | FtsH-2 protease |
| BPSS1130 | - | hypothetical protein |
| BPSS1143 | - | putative formate hydrogenlyase/hydrogenase/NADH dehydrogenase subunit |
| BPSS1164 | - | conserved hypothetical protein |
| BPSS1166 | - | putative transport/efflux protein |
| BPSS1219 | - | putative penicillin-binding protein |
| BPSS1224 | - | putative exported protein |
| BPSS1236 | - | putative sugar transporter ATP-binding protein |
| BPSS1272 | - | putative acyl-CoA dehydrogenase |
| BPSS1331 | - | putative phosphatase protein |
| BPSS1341 | - | putative cysteine desulfurase |
| BPSS1350 | - | putative efflux/sugar transport/multidrug resistance protein |
| BPSS1351 | - | putative rhamnosyltransferase protein |
| BPSS1358 | - | putative sensor kinase protein |
| BPSS1381 | - | putative transmembrane phospholipase protein |
| BPSS1388 | - | putative membrane protein |
| BPSS1390 | sctC | putative type III secretion system protein |
| BPSS1391 | - | putative AraC family regulator of pathogenicity genes |
| BPSS1454 | - | hypothetical protein 1984227 |
| BPSS1487 | - | putative anaerobically induced outer membrane protein |
| BPSS1502 | - | putative Clp-type ATPase chaperone protein |
| BPSS1511 | - | putative membrane protein |
| BPSS1512 | - | putative membrane protein |
| BPSS1610 | - | AraC-family transcriptional regulator |
| BPSS1620 | - | putative type III secretion protein |
| BPSS1632 | - | probable non-ribosomal peptide synthetase |
| BPSS1633 | - | probable non-ribosomal peptide synthetase |
| BPSS1634 | - | probable non-ribosomal peptide synthetase |
| BPSS1646 | - | probable two-component sensor kinase |
| BPSS1657 | bglB | beta-glucosidase |
| BPSS1685 | - | putative lipopolysaccharide biosynthesis related membrane protein |
| BPSS1715 | gltA | citrate synthase |
| BPSS1718 | sdhA | succinate dehydrogenase flavoprotein subunit |
| BPSS1726 | citB | aconitate hydratase |
| BPSS1827 | - | putative membrane protein |
| BPSS1830 | - | putative exopolysaccharide biosynthesis related tyrosine-protein kinase |
| BPSS1885 | - | putative aromatic hydrocarbons catabolism-related reductase |
| BPSS1888 | - | putative aromatic oxygenase |
| BPSS1925 | - | hypothetical protein |
| BPSS1927 | - | putative methyl-accepting chemotaxis protein |
| BPSS1971 | - | putative two component system fusin protein |
| BPSS1984 | - | hypothetical protein |
| BPSS2024 | - | putative zinc-containing alcohol dehydrogenase |
| BPSS2095 | - | conserved hypothetical protein |
| BPSS2099 | - | conserved hypothetical protein |
| BPSS2259 | - | putative fusion protein, ATP-binding transmembrane ABC transporter |
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