

Supplemental Table 2. Non-synonymous mutations in resistance associated genes shared across isolates BSL 5, BSL 9, and BSL 15.

| Locus Tag ^a | Gene | Nucleotide change(s) | Amino Acid change(s) |
|----------------------------------|---------------|--|---|
| AmpC (PDC) and regulators | | | |
| PA4110 ^b | <i>ampC</i> | c.80_81delGCinsAT; c.290C>T; c.313A>G; c.613G>C; c.1172G>C | p.Gly1Asp; p.Ala71Val; p.Thr79Ala; p.Val179Leu; p.Gly365Ala |
| PA4109 | <i>ampR</i> | c.844_848delCGGGGinsAGGGA; c.863T>G | p.Gly283Glu; p.Met288Arg |
| PA4522 | <i>ampD</i> | c.443G>C; c.117_131delCCTGCCGCCGGGACinsTCT | p.Gly148Ala; p.Pro41_Gln44del |
| PA5485 | <i>ampDh2</i> | - | - |
| PA0807 | <i>ampDh3</i> | - | - |
| PA4393 | <i>ampG</i> | c.1747G>A | p.Ala583Thr |
| PA3047 | <i>dacB</i> | - | - |
| PA3999 | <i>dacC</i> | - | - |
| PA4003 | <i>pbpA</i> | - | - |
| PA4020 | <i>mpl</i> | - | - |
| PA4418 | <i>ftsI</i> | - | - |
| Porin | | | |
| PA0958 | <i>oprD</i> | c.1274G>C; c.944_951delCAGGTGGCinsGCGGGCGGT; c.928_930delCGCinsGAG; c.565_570delGTCAAinsACCAAG; c.553_558delGAGCCGinsCAGGGC; c.508T>C; c.344_354delAGCCGCGGATinsCGCCCGTGAC; c.308_312delCCGGCinsGCGGT | p.Gly425Ala; p.Ala315Gly; p.Arg310Glu; p.Val189Thr; p.GluPro185GlnGly; p.Phe170Leu; p.Lys115Thr; p.Thr103Ser |
| Quinolone | | | |
| PA3168 | <i>gyrA</i> | c.248C>T | p.Thr83Ile |
| PA0004 | <i>gyrB</i> | - | - |
| PA4964 | <i>parC</i> | - | - |
| PA4967 | <i>parE</i> | - | - |
| Efflux | | | |
| PA0424 | <i>mexR</i> | c.272G>A; c.377T>A | p.Arg91His; p.Val126Glu |
| PA0425 | <i>mexA</i> | none | none |
| PA0426 | <i>mexB</i> | c.2870G>A; c.3120_3125delGTCCGTinsTGAGGC | p.Gly957Asp; p.SerVal1041GluAla |
| PA0427 | <i>oprM</i> | - | - |
| PA1798 | <i>parS</i> | c.1193A>G | p.His398Arg |
| PA1799 | <i>parR</i> | c.458T>G; c.509G>A | p.Leu153Arg; p.Ser170Asn |
| PA2018 | <i>mexY</i> | c.1627A>G | p.Thr543Ala |
| PA2019 | <i>mexX</i> | c.88G>A; c.985A>C; c.991T>G; c.1072T>C | p.Ala30Thr; p.Lys329Gln; p.Leu331Val; p.Trp358Arg |
| PA2020 | <i>mexZ</i> | - | - |
| PA2491 | <i>mexS</i> | c.745G>A | p.Asp249Asn |
| PA2492 | <i>mexT</i> | c.178C>T; c.240_247delGCCGGCCA; c.514T>A | p.Pro60Ser; reversion of 8-bp insertion present in PAO1; p.Phe172Ile |
| PA2493 | <i>mexE</i> | c.5A>T; c.23C>T; c.1103A>G | p.Glu2Val; p.Ser8Phe; p.Gln368Arg |
| PA2494 | <i>mexF</i> | c.145G>A | p.Ala49Thr |
| PA2495 | <i>oprN</i> | c.37T>C | p.Ser13Pro |
| PA3574 | <i>nalD</i> | - | - |
| PA3721 | <i>nalC</i> | c.212G>A; c.457G>C; c.625A>C | p.Gly71Glu; p.Glu153Gln; p.Ser209Arg |
| PA4597 | <i>oprJ</i> | c.205A>G; c.800A>G | p.Met69Val; p.Gln267Arg |
| PA4598 | <i>mexD</i> | c.2533T>G; c.2944A>G | p.Ser845Ala; p.Ile982Val |
| PA4599 | <i>mexC</i> | c.92C>T; c.227G>A; c.929A>G; c.988T>G; c.1147C>T | p.Ala31Val; p.Arg76Gln; p.His310Arg; p.Ser330Ala; p.Pro383Ser |
| PA4600 | <i>nfxB</i> | - | - |
| PA4776 | <i>pmrA</i> | c.212T>G | p.Leu71Arg |
| PA4777 | <i>pmrB</i> | c.4_10delTCCCGTGinsCCGCGTA; c.202G>A; c.1033T>C; c.1084G>A | p.SerArgAla2ProArgThr; p.Gly68Ser; p.Tyr345His; p.Gly362Ser |
| PA5471 | <i>armZ</i> | c.263T>C; c.482_483delATinsGC; c.546T>G; c.610C>T; c.728T>C | p.Leu88Pro; p.Asp161Gly; p.His182Gln; p.Arg204Cys; p.Val243Ala |
| TonB Pathway | | | |
| PA4514 | <i>piuA</i> | c.102G>C | p.Gln34His |
| PA4515 | <i>piuC</i> | c.602G>A | p.Arg201His |
| PA0931 | <i>pirA</i> | c.59G>A; c.704C>T; c.1108G>A | p.Ser20Asn; p.Thr235Ile; p.Ala370Thr |
| PA0929 | <i>pirR</i> | c.155G>C | p.Gly52Ala |
| PA0930 | <i>pirS</i> | c.230G>A; c.377G>A; c.538A>G; c.983C>A | p.Arg77Gln; p.Ser126Asn; p.Ile180Val; p.Ala328Asp |

^aLocus tag corresponds to reference PA01 genome.

^bNumbering of peptide after removal of the 26 amino acid signal peptide.
del, deletion; ins, insertion; PDC, Pseudomonas derived cephalosporinase