|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Resistance** | **Gene** | **P2 JHB I** | **P2 JHB II** | **P2 JHB III** | **P2 JHB IV** | **P2 JHB V** | **P2 JHB VI** | **P2 JHB VII** | **P2 JHB VIII** | **P2 JHB IX** | **P2 JHB X** | **P4-JHB-III** |
| **Antibiotic Resistance Determinants** | | | | | | | | | | | | |
| **Beta-lactams** | ***blaOXA-50*** |  |  |  |  |  |  |  |  |  |  |  |
| ***blaOXA-1034*** |  |  |  |  |  |  |  |  |  |  |  |
| ***blaPDC-3*** |  |  |  |  |  |  |  |  |  |  |  |
| ***blaPDC-374*** |  |  |  |  |  |  |  |  |  |  |  |
| **Ciprofloxacin** | ***crpP*** |  |  |  |  |  |  |  |  |  |  |  |
| **Multidrug Efflux Pumps** | ***mexAB-OprM*** |  |  |  |  |  |  |  |  |  |  |  |
| ***mexCD-OprJ*** |  |  |  |  |  |  |  |  |  |  |  |
| ***mexEF- OprN*** |  |  |  |  |  |  |  |  |  |  |  |
| ***mexXY- OprM*** |  |  |  |  |  |  |  |  |  |  |  |
| ***emrE*** |  |  |  |  |  |  |  |  |  |  |  |
| ***pmpM*** |  |  |  |  |  |  |  |  |  |  |  |
| **Acquired Antibiotic Resistance Mutations** | | | | | | | | | | | | |
| **Efflux Pump Regulation** | ***mexRT*** |  |  |  |  |  |  |  |  |  |  |  |
| ***nalC*** |  |  |  |  |  |  |  |  |  |  |  |
| ***nfxB*** |  |  |  |  |  |  |  |  |  |  |  |
| ***oprD*** |  |  |  |  |  |  |  |  |  |  |  |
| **Fluoroquinolones** | ***gyrA*** |  |  |  |  |  |  |  |  |  |  |  |
| ***gyrB*** |  |  |  |  |  |  |  |  |  |  |  |
| ***parC*** |  |  |  |  |  |  |  |  |  |  |  |
| ***parE*** |  |  |  |  |  |  |  |  |  |  |  |
| **Colistin** | ***pmrAB*** |  |  |  |  |  |  |  |  |  |  |  |
| ***phoP*** |  |  |  |  |  |  |  |  |  |  |  |