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| **Gene** | **Antibiotic class** | **Resistance mechanism** |
| emrR | Fluoroquinolone | Efflux |
| emrB | Efflux |
| patA | Efflux |
| MdtK | Efflux |
| bacA | Peptide | Target alteration |
| PmrF | Target alteration |
| CRP | Penam, fluoroquinolone and macrolide | Efflux |
| UhpT | Fosfomycin | Target alteration |
| GlpT | Target alteration |
| cpxA | Aminocoumarin and aminoglycoside | Efflux |
| baeR | Efflux |
| soxS | Monobactam, carbapenem, rifamycin, penam, triclosan, glycylcyclin, tetracycline, cephalosporin, phenicol, penem, fluoroquinolone antibiotic and cephamycin | Target alteration, reduced permeability to antibiotic, efflux |
| marA | Reduced permeability to antibiotic, efflux |
| mdsC | Cephalosporin, penam, monobactam, phenicol, penem, carbapenem and cephamycin | Efflux |
| mdsA | Efflux |
| golS | Penam, cephalosporin, monobactam, phenicol , penem, carbapenem and cephamycin | Efflux |
| acrB | Rifamycin, cephalosporin, triclosan, glycylcycline, tetracycline, penam, phenicol, fluoroquinolone | Efflux |
| acrA | Efflux |
| soxR | Target alteration, efflux |
| marR | antibiotic target alteration; antibiotic efflux |
| kdpE | Aminoglycoside | Efflux |
| AAC(6')-Iy | antibiotic inactivation |
| mdfA | Rhodamine, tetracycline and benzalkonium chloride | Efflux |
| mbsA | Nitroimidazole | Efflux |
| msrB | Macrolide and streptogramin | Efflux |
| H-NS | Penam, tetracycline, cephalosporin, fluoroquinolone, macrolide and cephamycin | Efflux |
| sdiA | Efflux |