

Class	Mechanism	Group	Gene
Aminocoumarins	Aminocoumarin-resistant DNA topoisomerases	PARE	None
Aminoglycosides	Aminoglycoside efflux pumps	ACRD	None
	Aminoglycoside efflux regulator	None	None
Bacitracin	Undecaprenyl pyrophosphate phosphatase	BACA	None
Beta-lactams	Class A beta-lactamases	CTX	1268 AB976602.1 AB976602 beta-lactams Class_A_beta-lactamases CTX
	Penicillin binding protein	AMPH	None
Cationic antimicrobial peptides	None	None	None
Efamycins	EF-Tu inhibition	TUFAB	CARD pvgb AE014075 3901532-3902762 ARO:3003438 Escherichia Efamycins EF-Tu_inhibition TUFAB RequiresSNPConfirmation
			CARD pvgb CP000647 4764664-4765849 ARO:3001312 elfamycin Efamycins EF-Tu_inhibition TUFAB RequiresSNPConfirmation
Fluoroquinolones	Fluoroquinolone-resistant DNA topoisomerases	PARC	None
		GYRB	None
		GYRA	None
MLS	23S rRNA methyltransferases	ERMX	CARD phgb AF024666 2207-2969 ARO:3000596 ErmX MLS 23S_rRNA_methyltransferases ERMX
			MLS ermX_3_U21300 MLS 23S_rRNA_methyltransferases ERMX
			MLS ermX_2_X51472 MLS 23S_rRNA_methyltransferases ERMX
			MLS ErmX M36726 296-1150 855 MLS 23S_rRNA_methyltransferases ERMX
Multi-drug resistance	MDR mutant porin proteins	OMPF	None
	MDR regulator	MARR	None
		HNS	CARD phgb NC_002695 1737553-1737967 ARO:3000676 H-NS Multi-

			drug_resistance MDR_regulator HNS
		EVGA	None
		CRP	CARD phgb AP009048 4153663-4154296 ARO:3000518 CRP Multi-drug_resistance MDR_regulator CRP
		CPXAR	None
		CPXA	None
		BAER	None
		ASMA	None
	Multi-drug efflux pumps	ACRB	11 DQ679966.1 DQ679966 Multi-drug_resistance Multi-drug_efflux_pumps ACRB
		MDTB	None
		EMRR	None
		EMRK	None
		EMRD	None
		EMRB	None
Rifampin	Rifampin-resistant beta-subunit of RNA polymerase RpoB	RPOB	None
Sulfonamides	Sulfonamide-resistant dihydropteroate synthases	FOLP	None

Supplemental Table S3