

Supplementary Table 1: Profiling of AMR genes, antibiotic class, and the resistance mechanisms

HSP Length	Resistance Mechanism	Predicted Phenotype	Gene
1110	Antibiotic efflux	Aminocoumarin antibiotic	mdtA
3123	Antibiotic efflux	Aminocoumarin antibiotic	mdtB
3078	Antibiotic efflux	Aminocoumarin antibiotic	mdtC
1416	Antibiotic efflux	Aminocoumarin antibiotic	mdtD
1209	Antibiotic efflux	Aminocoumarin antibiotic	mdtH
1374	Antibiotic efflux	Aminocoumarin antibiotic	mdtK
1233	Antibiotic efflux	Aminocoumarin antibiotic	mdtM
1938	Antibiotic efflux	Aminocoumarin antibiotic	mdtO
1179	Antibiotic efflux	Aminocoumarin antibiotic	mdtL
1026	Antibiotic efflux	Aminocoumarin antibiotic	mdtN
767	Inactivation	aminoglycoside	aadA2
795	Inactivation	aminoglycoside	aph(3')-III
816	Inactivation	aminoglycoside	aph(3')-Ia
756	Antibiotic target alteration	aminoglycoside	rmtB
876	B- lactamase	B-lactam	blaCTX-M-15
813	B- lactamase	B-lactam	blaNDM-5
798	B- lactamase	B-lactam	blaOXA-181
861	B- lactamase	B-lactam	blaSHV-182
861	B- lactamase	B-lactam	blaTEM-1B
285	Antibiotic efflux	Disinfecting and antiseptics	qacE
424	Antibiotic inactivation	fosfomycin	fosA6
2607	Antibiotic target alteration	Glycopeptide	VanH
366	Antibiotic inactivation	Glycopeptide	ble
1023	Antibiotic target alteration	Glycopeptide	vanA
609	Antibiotic target alteration	Glycopeptide	vanX
912	Antibiotic target alteration	Glycopeptide	vanY
763	Antibiotic target alteration	Macrolide	erm(B)
735	Antibiotic target alteration	Macrolide	erm(T)
909	Antibiotic inactivation	Macrolide	mph(A)
1191	Antibiotic target protection	Macrolide	msr(C)
1014	Antibiotic inactivation	Macrolides	ole(D)
1002	Antibiotic target protection	Macrolides	msr(P)
609	Antibiotic target protection	Macrolides	msr(Q)
834	Antibiotic target protection	Macrolides	msr (A)
447	Antibiotic target protection	Macrolides	msr (B)
735	Antibiotic target alteration	Macrolides	emr(C)
1193	Antibiotic target protection	Macrolides	car(A)
3225	Antibiotic target protection	Macrolides	car(B)
1494	Antibiotic efflux	Nucleoside antibiotic, disinfecting agents and antiseptics, phenicol antibiotic, fluoroquinolone antibiotic	bmr
1125	RND antibiotic efflux	Peptide, diaminopyrimidine antibiotic, sulfonamide, fluoroquinolone, tetracycline, phenicol, penam, carbapenem, aminocoumarin antibiotic, macrolide, monobactam, cephalosporin, penem, cephamycin	mexA
3108	RND antibiotic efflux	Peptide, diaminopyrimidine, sulfonamide, fluoroquinolone, tetracycline, phenicol, penam, carbapenem, aminocoumarin, macrolide, monobactam, cephalosporin, penem, cephamycin	mexB
927	Antibiotic inactivation	Phenicol	cat(A)
684	Antibiotic inactivation	Phenicol	cat3
1119	Antibiotic inactivation	Phenicol	catB
291	Antibiotic inactivation	Phenicol	catC
765	Antibiotic inactivation	Phenicol	catD
840	Antibiotic target replacement	sulfonamide	sul1
830	Antibiotic target protection	Tetracycline	tet(L)
1713	Antibiotic target protection	Tetracycline	tet(M)
1194	RND antibiotic efflux	Tetracycline, glycolcycline, cephalosporin, phenicol, penam, rifamycin, disinfecting agents and antiseptics, fluoroquinolone	acrA

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3147	RND antibiotic efflux	Tetracycline, glycylicycline, cephalosporin, phenicol, penam, rifamycin, disinfecting agents and antiseptics, fluoroquinolone	acrB
3111	RND antibiotic efflux	Tetracycline, glycylicycline, cephalosporin, phenicol, penam, rifamycin, disinfecting agents and antiseptics, fluoroquinolone	acrF
1176	RND antibiotic efflux	Tetracycline, glycylicycline, cephalosporin, phenicol, penam, rifamycin, disinfecting agents and antiseptics, fluoroquinolone	oqxA
3153	RND antibiotic efflux	Tetracycline, glycylicycline, cephalosporin, phenicol, penam, rifamycin, disinfecting agents and antiseptics, fluoroquinolone	oqxB
498	Antibiotic target replacement	Trimethoprim	dfrA12
474	Antibiotic target replacement	Trimethoprim	dfrA30