

# Center for Genomic Epidemiology

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## ResFinder-4.1 Server - Results

**Input Files:** *scaffolds.fasta*

**Warning:**

One or more resistance genes have unknown phenotypes. The species specific summary table does not take this into account.

<div> <div>escherichia coli</div> <div>complete</div> </div>			
Antimicrobial	Class	WGS-predicted phenotype	Genetic background
vancomycin	glycopeptide	No resistance	
mupirocin	pseudomonic acid	No resistance	
tobramycin	aminoglycoside	No resistance	
virginiamycin m	streptogramin a	No resistance	
isepamicin	aminoglycoside	No resistance	
virginiamycin s	streptogramin b	No resistance	
butirosin	aminoglycoside	No resistance	
ampicillin	beta-lactam	Resistant	blaTEM-1B (blaTEM-1B_AY458016), blaCTX-M-15 (blaCTX-M-15_AY044436)
astromicin	aminoglycoside	No resistance	
lividomycin	aminoglycoside	No resistance	
sulfamethoxazole	folate pathway antagonist	Resistant	sul1 (sul1_AY115475), sul1 (sul1_U12338), sul1 (sul1_DQ914960), sul1 (sul1_AY522923), sul2 (sul2_HQ840942)
temocillin	beta-lactam	No resistance	
trimethoprim	folate pathway antagonist	Resistant	dfrA7 (dfrA7_AB161450)
oleandomycin	macrolide	No resistance	
unknown macrolide	macrolide	Resistant	mdf(A) (mdf(A)_Y08743)
florfenicol	phenicol	No resistance	
fluoroquinolone	under_development	No resistance	
quinupristin	streptogramin b	No resistance	
ceftriaxone	beta-lactam	Resistant	blaCTX-M-15 (blaCTX-M-15_AY044436)
cephalothin	beta-lactam	Resistant	blaTEM-1B (blaTEM-1B_AY458016)
lincomycin	lincosamide	No resistance	
spectinomycin	aminocyclitol	No resistance	
quinupristin+dalfopristin	streptogramin a	No resistance	
paromomycin	aminoglycoside	No resistance	
clindamycin	lincosamide	No resistance	
amoxicillin+clavulanic acid	beta-lactam	No resistance	
gentamicin	aminoglycoside	No resistance	
piperacillin+tazobactam	beta-lactam	No resistance	
tiamulin	pleuromutilin	No resistance	
ribostamycin	aminoglycoside	No resistance	
erythromycin	macrolide	No resistance	
kanamycin	aminoglycoside	No resistance	
teicoplanin	glycopeptide	No resistance	
amikacin	aminoglycoside	No resistance	
tigecycline	tetracycline	No resistance	
ticarcillin+clavulanic acid	beta-lactam	No resistance	
cephalotin	beta-lactam	No resistance	
cefoxitin	beta-lactam	No resistance	
hygromycin	aminoglycoside	No resistance	
penicillin	beta-lactam	No resistance	
neomycin	aminoglycoside	No resistance	
dalfopristin	streptogramin a	No resistance	
piperacillin	beta-lactam	Resistant	blaTEM-1B (blaTEM-1B_AY458016), blaCTX-M-15 (blaCTX-M-15_AY044436)
telithromycin	macrolide	No resistance	
amoxicillin	beta-lactam	Resistant	blaTEM-1B (blaTEM-1B_AY458016), blaCTX-M-15 (blaCTX-M-15_AY044436)
meropenem	beta-lactam	No resistance	
sisomicin	aminoglycoside	No resistance	
unknown aminoglycoside	aminoglycoside	Resistant	mdf(A) (mdf(A)_Y08743)

Antimicrobial	Class	WGS-predicted phenotype	Genetic background
cefepime	beta-lactam	Resistant	blaCTX-M-15 (blaCTX-M-15_AY044436)
butirosin	aminoglycoside	No resistance	
doxycycline	tetracycline	Resistant	tet(A) (tet(A)_AJ517790)
unknown fluoroquinolone	fluoroquinolone	Resistant	mdf(A) (mdf(A)_Y08743)
fusidic acid	steroid antibacterial	No resistance	
ciprofloxacin	fluoroquinolone	No resistance	
colistin	polymyxin	No resistance	
imipenem	beta-lactam	No resistance	
arbekacin	aminoglycoside	No resistance	
nalidixic acid	fluoroquinolone	No resistance	
metronidazole	nitroimidazole	No resistance	
cefixime	beta-lactam	No resistance	
unknown phenicol	phenicol	Resistant	mdf(A) (mdf(A)_Y08743)
pristinamycin ia	streptogramin b	No resistance	
tylosin	macrolide	No resistance	
cefotaxime+clavulanic acid	beta-lactam	No resistance	
rifampicin	rifamycin	No resistance	
fosfomycin	fosfomycin	No resistance	
ceftazidime	beta-lactam	Resistant	blaCTX-M-15 (blaCTX-M-15_AY044436)
fortimicin	aminoglycoside	No resistance	
carbomycin	macrolide	No resistance	
ticarcillin	beta-lactam	Resistant	blaTEM-1B (blaTEM-1B_AY458016), blaCTX-M-15 (blaCTX-M-15_AY044436)
azithromycin	macrolide	No resistance	
kasugamycin	aminoglycoside	No resistance	
chloramphenicol	phenicol	No resistance	
ampicillin+clavulanic acid	beta-lactam	No resistance	
cefotaxime	beta-lactam	Resistant	blaCTX-M-15 (blaCTX-M-15_AY044436)
unknown tetracycline	tetracycline	Resistant	mdf(A) (mdf(A)_Y08743)
piperacillin+clavulanic acid	beta-lactam	No resistance	
ceftazidime+avibactam	beta-lactam	No resistance	
apramycin	aminoglycoside	No resistance	
spiramycin	macrolide	No resistance	
unknown rifamycin	rifamycin	Resistant	mdf(A) (mdf(A)_Y08743)
dibekacin	aminoglycoside	No resistance	
ertapenem	beta-lactam	No resistance	
tetracycline	tetracycline	Resistant	tet(A) (tet(A)_AJ517790)
linezolid	oxazolidinone	No resistance	
netilmicin	aminoglycoside	No resistance	
minocycline	tetracycline	No resistance	
aztreonam	beta-lactam	Resistant	blaCTX-M-15 (blaCTX-M-15_AY044436)
unknown beta-lactam	beta-lactam	No resistance	
pristinamycin iia	streptogramin a	No resistance	
streptomycin	aminoglycoside	Resistant	aph(6)-Id (aph(6)-Id_M28829), aph(3'')-Ib (aph(3'')-Ib_AF321551)

Download phenotype table (txt)

Download species specific phenotype table (txt)

Fluoroquinolone									
Resistance gene	Identity	Alignment Length/Gene Length	Position in reference	Contig or Depth	Position in contig	Phenotype	PMID	Accession no.	
mdf(A)	98.4590429846	1233/1233	1..1233	NODE_4_length_388939_cov_80.679974	307306..308538	unknown macrolide,unknown aminoglycoside,unknown tetracycline,unknown fluoroquinolone,unknown phenicol,unknown rifamycin	9079913	<a href="#">Y08743</a>	Mdf/s s ii Ery Te Ri Kz Chlo and ( but i wh re

Aminoglycoside									
Resistance gene	Identity	Alignment Length/Gene Length	Position in reference	Contig or Depth	Position in contig	Phenotype	PMID	Accession no.	
mdf(A)	98.4590429846	1233/1233	1..1233	NODE_4_length_388939_cov_80.679974	307306..308538	unknown macrolide, unknown aminoglycoside, unknown tetracycline, unknown fluoroquinolone, unknown phenicol, unknown rifamycin	9079913	<a href="#">Y08743</a>	Mdf(/s/s/ii EryTeRiKzChloand (but i whre:
aph(3'')-Ib	100.0	804/804	1..804	NODE_1_length_1628642_cov_78.003180	799877..800680	streptomycin	12029529	<a href="#">AF321551</a>	Alter
aph(6)-Id	100.0	837/837	1..837	NODE_1_length_1628642_cov_78.003180	799041..799877	streptomycin	2653965	<a href="#">M28829</a>	Alter

Rifamycin									
Resistance gene	Identity	Alignment Length/Gene Length	Position in reference	Contig or Depth	Position in contig	Phenotype	PMID	Accession no.	
mdf(A)	98.4590429846	1233/1233	1..1233	NODE_4_length_388939_cov_80.679974	307306..308538	unknown macrolide, unknown aminoglycoside, unknown tetracycline, unknown fluoroquinolone, unknown phenicol, unknown rifamycin	9079913	<a href="#">Y08743</a>	Mdf(/s/s/ii EryTeRiKzChloand (but i whre:

Macrolide									
Resistance gene	Identity	Alignment Length/Gene Length	Position in reference	Contig or Depth	Position in contig	Phenotype	PMID	Accession no.	
mdf(A)	98.4590429846	1233/1233	1..1233	NODE_4_length_388939_cov_80.679974	307306..308538	unknown macrolide, unknown aminoglycoside, unknown tetracycline, unknown fluoroquinolone, unknown phenicol, unknown rifamycin	9079913	<a href="#">Y08743</a>	Mdf(/s/s/ii EryTeRiKzChloand (but i whre:

Folate pathway antagonist									
Resistance gene	Identity	Alignment Length/Gene Length	Position in reference	Contig or Depth	Position in contig	Phenotype	PMID	Accession no.	
sul1	100.0	761/840	1..761	NODE_1_length_1628642_cov_78.003180	806890..807650	sulfamethoxazole	unpublished	<a href="#">U12338</a>	
dfrA7	100.0	474/474	1..474	NODE_1_length_1628642_cov_78.003180	808221..808694	trimethoprim	unpublished	<a href="#">AB161450</a>	
sul1	100.0	761/828	1..761	NODE_1_length_1628642_cov_78.003180	806890..807650	sulfamethoxazole	16339607	<a href="#">AY522923</a>	
sul2	100.0	816/816	1..816	NODE_1_length_1628642_cov_78.003180	800741..801556	sulfamethoxazole	22888274	<a href="#">HQ840942</a>	
sul1	100.0	761/840	1..761	NODE_1_length_1628642_cov_78.003180	806890..807650	sulfamethoxazole	18753343	<a href="#">AY115475</a>	
sul1	100.0	761/882	1..761	NODE_1_length_1628642_cov_78.003180	806890..807650	sulfamethoxazole	17158944	<a href="#">DQ914960</a>	

Tetracycline									
Resistance gene	Identity	Alignment Length/Gene Length	Position in reference	Contig or Depth	Position in contig	Phenotype	PMID	Accession no.	
tet(A)	100.0	1200/1200	1..1200	NODE_17_lengt h_4054_cov_26. 052763	956..2155	doxycycline,tetra cycline	12654659	<a href="#">AJ517790</a>	
mdf(A)	98.4590429846	1233/1233	1..1233	NODE_4_length _388939_cov_80 .679974	307306..308538	unknown macrolide,unkno wn aminoglycoside,u nknown tetracycline,unkn own fluoroquinolone,u nknown phenicol,unknow n rifamycin	9079913	<a href="#">Y08743</a>	Mdf( s s ii Ery Te Ri Kz Chlo and ( but i wh re:

Phenicol									
Resistance gene	Identity	Alignment Length/Gene Length	Position in reference	Contig or Depth	Position in contig	Phenotype	PMID	Accession no.	
mdf(A)	98.4590429846	1233/1233	1..1233	NODE_4_length _388939_cov_80 .679974	307306..308538	unknown macrolide,unkno wn aminoglycoside,u nknown tetracycline,unkn own fluoroquinolone,u nknown phenicol,unknow n rifamycin	9079913	<a href="#">Y08743</a>	Mdf( s s ii Ery Te Ri Kz Chlo and ( but i wh re:

Beta-lactam									
Resistance gene	Identity	Alignment Length/Gene Length	Position in reference	Contig or Depth	Position in contig	Phenotype	PMID	Accession no.	
blaCTX-M-15	100.0	876/876	1..876	NODE_11_lengt h_88402_cov_75 .628805	63543..64418	amoxicillin,ampici llin,aztreonam,ce fepime,cefotaxim e,ceftazidime,ceft riaxone,piperacilli n,ticarcillin	11470367, 26169409	<a href="#">AY044436</a>	
blaTEM-1B	100.0	861/861	1..861	NODE_11_lengt h_88402_cov_75 .628805	59861..60721	amoxicillin,ampici llin,cephalothin,pi peracillin,ticarcilli n	15388431	<a href="#">AY458016</a>	

Download acquired AMR gene results:

Results as text

Hit in genome sequences

Resistance gene sequences

Results as tabseperated file

Selected %ID threshold for ResFinder: 90 %

Selected minimum length for ResFinder: 60 %

Support

Scientific problems

Technical problems

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