BV-BRC Test Report

D7. AMR Phenotypes Data Tab

Item to test	**AMR Phenotypes Data Tab**
URL	https://www.bv-brc.org/view/Taxonomy/1301#view_tab=amr
Prerequisites	None
References	https://www.bv-brc.org/docs/quick_references/organisms_taxon/amr_phenotypes.html
Tester(s)	Rebecca Wattam, Ron Kenyon
Test date	6-Jan-2022 (original – passed), 8-May-2022 (follow-up-passed)
Test result	**Passed**

Overview

- Test the AMR Phenotypes Tab with example bacterial data.
- Verify display of Antibiotic, Resistant Phenotype, Evidence, Laboratory Typing Method
- Test Antibiotic action button including Overview, AMR Phenotypes, AMR Genes, and AMR Regions displays.

Test Results

- Test results were verified by examination of returned data via inspection and filters.
- All operations performed as expected.

Streptococcus:

Taxon View

Bacteria » Firmicutes » Bacilli » Lactobacillales » Streptococcaceae » **Streptococcus** (38348 Genomes)

Overview | Phylogeny | Taxonomy | Genomes | **AMR Phenotypes** | Sequences | Proteins | Protein Structures | Specialty Genes | Domains and Motifs | Epitopes | Pathwa

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Public	Antibiotic	Resistant Phenotype	Evidence	Laboratory Typing Method	Computational Meth
true (134971)	amikacin (6)	undefined (8305)	Computational Method (89737)	Computational Prediction (25)	AdaBoost Classifier (8
	amoxicillin (318)	Intermediate (1559)	Computational Prediction (7415)	MIC (16916)	AdaBoost Classifier Ac
	ampicillin (161)	Non-susceptible (1490)	Laboratory Method (37667)	Vitek2 (20)	AdaBoost Classifier Ac
	azithromycin (6)	Resistant (30026)		agar dilution (810)	AdaBoost Classifier Ac
	benzylpenicillin (613)	Susceptible (89189)		agar dilution method or Etest (135)	AdaBoost Classifier Ac
	beta-lactam (22543)			broth microdilution (263)	AdaBoost Classifier Ac
	carbenicillin (6)			disk diffusion (93)	
	cefaclor (12)				
	cefazolin (6)				
	cefepime (135)				
	cefotaxime (664)				
	ceftiofur (138)				

Genome Name	Antibiotic	Resistant Phenotype	Measurement Sign	Measurement Value	Measurement Units	Lab typing Method	Computational Method	Evidence	Pubmed
Streptococcus pneumoniae strain 15874_1#	beta-lactam	Resistant					AdaBoost Classifie	Computational Met	
Streptococcus pneumoniae strain 14566_5#	beta-lactam	Susceptible					AdaBoost Classifie	Computational Met	
Streptococcus pneumoniae strain GPSC41	tetracycline	Susceptible					AdaBoost Classifie	Computational Met	
Streptococcus pneumoniae strain 13710_1#	beta-lactam	Susceptible					AdaBoost Classifie	Computational Met	
Streptococcus pneumoniae strain SMRU840	penicillin			0.064	mg/L	MIC		Laboratory Method	25101644
Streptococcus pneumoniae strain SMRU240	penicillin		<	0.06	mg/L	MIC		Laboratory Method	25101644
Streptococcus pneumoniae strain GPSC8	cotrimoxazole	Intermediate						Laboratory Method	31196809
Streptococcus pneumoniae strain GPSC145	erythromycin	Susceptible					AdaBoost Classifie	Computational Met	
Streptococcus pneumoniae strain GPSC39	tetracycline	Intermediate						Laboratory Method	31196809
Streptococcus uberis strain 17652_7#56	oxacillin	Resistant				broth microdilution		Laboratory Method	32122596
Streptococcus pneumoniae strain 15277_1#	chloramphenicol	Susceptible					AdaBoost Classifie	Computational Met	
Streptococcus pneumoniae strain 13415_7#	chloramphenicol	Susceptible					AdaBoost Classifie	Computational Met	
Streptococcus pneumoniae strain 17870_7#	chloramphenicol	Susceptible					AdaBoost Classifie	Computational Met	
Streptococcus pneumoniae strain GPSC13	chloramphenicol	Susceptible					AdaBoost Classifie	Computational Met	
Streptococcus pneumoniae strain GPSC52	chloramphenicol	Susceptible					AdaBoost Classifie	Computational Met	
Streptococcus pneumoniae strain SMRU220	trimethoprim/sulfar	Intermediate						Laboratory Method	
Streptococcus pneumoniae strain 19341_2#	tetracycline	Resistant					AdaBoost Classifie	Computational Met	
Streptococcus pneumoniae strain 14673_1#	erythromycin	Susceptible					AdaBoost Classifie	Computational Met	
Streptococcus pneumoniae P310795-191	linezolid	Susceptible						Laboratory Method	
Streptococcus pneumoniae strain 14913_6#	erythromycin	Susceptible					AdaBoost Classifie	Computational Met	
Streptococcus pneumoniae strain 13415_7#	trimethoprim/sulfar	Susceptible					AdaBoost Classifie	Computational Met	
Streptococcus pneumoniae strain 11658_2#	tetracycline	Resistant					AdaBoost Classifie	Computational Met	
Streptococcus pneumoniae strain 17870_7#	trimethoprim/sulfar	Susceptible					AdaBoost Classifie	Computational Met	
Streptococcus pneumoniae strain 17150_6#	beta-lactam	Resistant					AdaBoost Classifie	Computational Met	
Streptococcus pneumoniae strain 14723_2#	tetracycline	Susceptible					AdaBoost Classifie	Computational Met	
Streptococcus pneumoniae strain SMRU147	trimethoprim/sulfar	Resistant						Laboratory Method	

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Antibiotic: amoxicillin
Resistant Phenotype: Resistant

Taxon View
Bacteria » Firmicutes » Bacilli » Lactobacillales » Streptococcaceae » **Streptococcus** (38348 Genomes)

Overview | Phylogeny | Taxonomy | Genomes | **AMR Phenotypes** | Sequences | Proteins | Protein Structures | Specialty Genes | Domains and Motifs | Epitopes | Pathwa

DOWNLOAD | KEYWORDS | ADV Search | amoxicillin ANTIBIOTIC ✖ | Resistant RESISTANT_PHENOTYPE ✖ | HIDE

Public	Antibiotic	Resistant Phenotype	Evidence	Laboratory Typing Method
true (24)	**amoxicillin (24)**	**Resistant (24)**	Laboratory Method (24)	MIC (4)
	amikacin (1)	Intermediate (24)		
	ampicillin (5)	Susceptible (270)		
	beta-lactam (5333)			
	cefepime (1)			
	cefotaxime (14)			
	ceftriaxone (6)			
	cefuroxime (85)			
	chloramphenicol (2133)			
	ciprofloxacin (3)			
	clindamycin (154)			
	co-trimoxazole (20)			

Genome Name	Antibiotic	Resistant Phenotype	Measurement Sign	Measurement Value	Measurement Units	Lab typing Method	Computational Method	Evidence	Pubmed
Streptococcus pneumoniae GA58581	amoxicillin	Resistant	=	8				Laboratory Method	
Streptococcus pneumoniae GA47778	amoxicillin	Resistant	=	8				Laboratory Method	
Streptococcus pneumoniae EU-NP02	amoxicillin	Resistant	=	8				Laboratory Method	
Streptococcus pneumoniae GA47751	amoxicillin	Resistant	=	8				Laboratory Method	
Streptococcus pneumoniae GA44386	amoxicillin	Resistant	=	8				Laboratory Method	
Streptococcus pneumoniae strain 99	amoxicillin	Resistant	==	8	mg/L	MIC		Laboratory Method	
Streptococcus pneumoniae GA11304	amoxicillin	Resistant	=	2				Laboratory Method	
Streptococcus pneumoniae GA44452	amoxicillin	Resistant	=	8				Laboratory Method	
Streptococcus pneumoniae GA44128	amoxicillin	Resistant	=	8				Laboratory Method	
Streptococcus pneumoniae GA47688	amoxicillin	Resistant	=	8				Laboratory Method	
Streptococcus pneumoniae GA47388	amoxicillin	Resistant	=	8				Laboratory Method	
Streptococcus pneumoniae GA47281	amoxicillin	Resistant	>	8				Laboratory Method	
Streptococcus pneumoniae GA44288	amoxicillin	Resistant	=	8				Laboratory Method	
Streptococcus pneumoniae P310010-154	amoxicillin	Resistant						Laboratory Method	
Streptococcus pneumoniae P311313-217	amoxicillin	Resistant						Laboratory Method	
Streptococcus pneumoniae GA49447	amoxicillin	Resistant	=	4				Laboratory Method	
Streptococcus pneumoniae GA17719	amoxicillin	Resistant	=	8				Laboratory Method	
Streptococcus pneumoniae GA44511	amoxicillin	Resistant	=	8				Laboratory Method	
Streptococcus pneumoniae P310937-212	amoxicillin	Resistant						Laboratory Method	
Streptococcus pneumoniae strain 98	amoxicillin	Resistant	==	8	mg/L	MIC		Laboratory Method	
Streptococcus pneumoniae GA58771	amoxicillin	Resistant	=	8				Laboratory Method	
Streptococcus pneumoniae strain 100	amoxicillin	Resistant	==	8	mg/L	MIC		Laboratory Method	
Streptococcus pneumoniae strain 101	amoxicillin	Resistant	>	8	mg/L	MIC		Laboratory Method	
Streptococcus pneumoniae GA13338	amoxicillin	Resistant	=	4				Laboratory Method	

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Evidence: Computational Method

Taxon View

Bacteria » Firmicutes » Bacilli » Lactobacillales » Streptococcaceae » **Streptococcus** (38348 Genomes)

Overview | Phylogeny | Taxonomy | Genomes | **AMR Phenotypes** | Sequences | Proteins | Protein Structures | Specialty Genes | Domains and Motifs | Epitopes | Path

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Public	Antibiotic	Resistant Phenotype	Evidence	Computational Method
true (89737)	beta-lactam (18011) chloramphenicol (17905) co-trimoxazole (106) erythromycin (17905) tetracycline (17905) trimethoprim/sulfamethoxazole (17905)	Resistant (21026) Susceptible (68711)	**Computational Method (89737)** Computational Prediction (7415) Laboratory Method (37667)	AdaBoost Classifier (89737)

Genome Name	Antibiotic	Resistant Phenotype	Measurement Sign	Measurement Value	Measurement Units	Lab typing Method	Computational Method	Evidence	Pubmed
Streptococcus pneumoniae strain 15874_1#	beta-lactam	Resistant					AdaBoost Classifie	Computational Me	
Streptococcus pneumoniae strain 14566_5#	beta-lactam	Susceptible					AdaBoost Classifie	Computational Me	
Streptococcus pneumoniae strain GPSC41	tetracycline	Susceptible					AdaBoost Classifie	Computational Me	
Streptococcus pneumoniae strain 13710_1#	beta-lactam	Susceptible					AdaBoost Classifie	Computational Me	
Streptococcus pneumoniae strain GPSC145	erythromycin	Susceptible					AdaBoost Classifie	Computational Me	
Streptococcus pneumoniae strain 15277_1#	chloramphenicol	Susceptible					AdaBoost Classifie	Computational Me	
Streptococcus pneumoniae strain 13415_7#	chloramphenicol	Susceptible					AdaBoost Classifie	Computational Me	
Streptococcus pneumoniae strain 17870_7#	chloramphenicol	Susceptible					AdaBoost Classifie	Computational Me	
Streptococcus pneumoniae strain GPSC13	chloramphenicol	Susceptible					AdaBoost Classifie	Computational Me	
Streptococcus pneumoniae strain GPSC52	chloramphenicol	Susceptible					AdaBoost Classifie	Computational Me	
Streptococcus pneumoniae strain 19341_2#	tetracycline	Resistant					AdaBoost Classifie	Computational Me	
Streptococcus pneumoniae strain 14673_1#	erythromycin	Susceptible					AdaBoost Classifie	Computational Me	
Streptococcus pneumoniae strain 14913_6#	erythromycin	Susceptible					AdaBoost Classifie	Computational Me	
Streptococcus pneumoniae strain 13415_7#	trimethoprim/sulfa	Susceptible					AdaBoost Classifie	Computational Me	
Streptococcus pneumoniae strain 11658_2#	tetracycline	Resistant					AdaBoost Classifie	Computational Me	
Streptococcus pneumoniae strain 17870_7#	trimethoprim/sulfa	Susceptible					AdaBoost Classifie	Computational Me	
Streptococcus pneumoniae strain 17150_6#	beta-lactam	Resistant					AdaBoost Classifie	Computational Me	
Streptococcus pneumoniae strain 14723_2#	tetracycline	Susceptible					AdaBoost Classifie	Computational Me	
Streptococcus pneumoniae strain GPSC11	beta-lactam	Susceptible					AdaBoost Classifie	Computational Me	
Streptococcus pneumoniae strain 17175_5#	chloramphenicol	Susceptible					AdaBoost Classifie	Computational Me	
Streptococcus pneumoniae strain GPSC11	erythromycin	Susceptible					AdaBoost Classifie	Computational Me	
Streptococcus pneumoniae strain 12837_1#	tetracycline	Susceptible					AdaBoost Classifie	Computational Me	
Streptococcus pneumoniae strain 22841_1#	chloramphenicol	Susceptible					AdaBoost Classifie	Computational Me	
Streptococcus pneumoniae strain 16399_6#	beta-lactam	Susceptible					AdaBoost Classifie	Computational Me	
Streptococcus pneumoniae strain 19341_2#	beta-lactam	Susceptible					AdaBoost Classifie	Computational Me	
Streptococcus pneumoniae strain GPSC18	beta-lactam	Resistant					AdaBoost Classifie	Computational Me	

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Escherichia:

Taxon View

Bacteria » Proteobacteria » Gammaproteobacteria » Enterobacterales » Enterobacteriaceae » **Escherichia** (46307 Genomes)

Overview | Phylogeny | Taxonomy | Genomes | **AMR Phenotypes** | Sequences | Proteins | Protein Structures | Specialty Genes | Domains and Motifs | Epitopes | Path

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Public	Antibiotic	Resistant Phenotype	Evidence	Laboratory Typing Method
true (92068)	amikacin (2405)	undefined (7979)	Laboratory Method (90433)	Disk Diffusion (5)
	amoxicillin (2625)	Intermediate (1769)		Etest (3920)
	amoxicillin-clavulanic acid (2)	Nonsusceptible (6)		Kirby-Bauer disk diffusion (2938)
	amoxicillin/clavulanic acid (4141)	Not defined (100)		MIC (8958)
	amoxicillin/clavulanic_acid (2)	Resistant (17637)		MIC:broth microdilution (36)
	amoxicillin_clavulanic_acid (1092)	S (1)		N206 card on the Vitek 2 (10364)
	ampicillin (7160)	Susceptible (63822)		Vitek2 (36)
	ampicillin-sulbactam (4)	Susceptible-dose dependent (4)		agar dilution (10795)
	ampicillin/sulbactam (259)			agar-dilution (16 µg/m (184)
	augmentin (4)			agar-dilution (16 µg/ml) (368)

Genome Name	Antibiotic	Resistant Phenotype	Measurement Sign	Measurement Value	Measurement Units	Lab typing Method	Computational Method	Evidence	Pubmed
Escherichia coli strain 24742_1#285	trimethoprim	Resistant				broth dilution		Laboratory Methoc	30550564
Escherichia coli O23:H16 strain ECO0238	ceftazidime	Susceptible						Laboratory Methoc	28720578
Escherichia coli strain 409	amoxicillin/clavula	Intermediate	==	16/8	mg/L	MIC		Laboratory Methoc	
Escherichia coli CVM N34054PS	sulfisoxazole		>	256	mg/L	broth microdilution		Laboratory Methoc	26142410
Escherichia coli strain G400792	gentamicin	Susceptible						Laboratory Methoc	30127495
Escherichia coli CVM N36404PS	tetracycline		<=	4	mg/L	broth microdilution		Laboratory Methoc	26142410
Escherichia coli strain 198	tetracycline	Susceptible	<=	1	mg/L	MIC		Laboratory Methoc	
Escherichia coli strain URMC_26	ciprofloxacin	Susceptible	<=	0.25	mg/L	MIC		Laboratory Methoc	
Escherichia coli O6:H1 strain ECO0292	tigecycline	Susceptible						Laboratory Methoc	28720578
Escherichia coli strain PB125	cefuroxime	Resistant				N206 card on the \		Laboratory Methoc	28877757,3055
Escherichia coli strain AMC_949	ampicillin	Resistant						Laboratory Methoc	32205351
Escherichia coli strain AMC_669	amoxicillin			256	mg/L	agar_dilution		Laboratory Methoc	32205351
Escherichia coli strain 7-16	cefoxitin	Resistant				disk diffusion		Laboratory Methoc	30092762
Escherichia coli O18:H5 strain ECO0534	ceftazidime	Susceptible				agar dilution		Laboratory Methoc	28720578
Escherichia coli strain MUGSI_247	tigecycline	Susceptible	<	0.5	mg/L	MIC		Laboratory Methoc	
Escherichia coli strain AMC_591	amoxicillin			4	mg/L	agar_dilution		Laboratory Methoc	32205351
Escherichia coli strain 509-16	colistin	Susceptible				disk diffusion		Laboratory Methoc	30092762
Escherichia coli strain N44807	aztreonam			8	mg/L	broth microdilution		Laboratory Methoc	30148698
Escherichia coli strain URMC_46	aztreonam	Resistant	>=	64	mg/L	MIC			
Escherichia coli O4:H1 strain ECO0312	cefuroxime	Susceptible						Laboratory Methoc	28720578
Escherichia coli O6:H1 strain ECO0575	gentamicin	Susceptible				agar dilution		Laboratory Methoc	28720578
Escherichia coli strain G009p1	meropenem			4	mg/L	MIC		Laboratory Methoc	31642700
Escherichia coli O1:H7 strain ECO0067	aztreonam	Susceptible						Laboratory Methoc	28720578
Escherichia coli O75:H5 strain ECO0767	ciprofloxacin	Susceptible				agar dilution		Laboratory Methoc	28720578
Escherichia coli strain URMC_26	gentamicin	Resistant	>=	16	mg/L	MIC		Laboratory Methoc	
Escherichia coli strain EC_22	ceftiofur	Susceptible				Kirby-Bauer disk d		Laboratory Methoc	32010104
Escherichia coli strain PB43	ampicillin	Resistant				N206 card on the \		Laboratory Methoc	28877757,3055
Escherichia coli strain N36225PS	kanamycin		<=	8	mg/L	broth microdilution		Laboratory Methoc	26142410

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Laboratory Typing Method: Etest

Taxon View

Bacteria » Proteobacteria » Gammaproteobacteria » Enterobacterales » Enterobacteriaceae » **Escherichia** (46307 Genomes)

Overview | Phylogeny | Taxonomy | Genomes | **AMR Phenotypes** | Sequences | Proteins | Protein Structures | Specialty Genes | Domains and Motifs | Epitopes | Pathv

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Public	Antibiotic	Resistant Phenotype	Evidence	Laboratory Typing Method
true (3920)	ampicillin (460)	Intermediate (10)	Laboratory Method (3920)	**Etest (3920)**
	aztreonam (104)	Resistant (254)		Disk Diffusion (5)
	cefotaxime (259)	Susceptible (3656)		Kirby-Bauer disk diffusion (2938)
	ceftazidime (460)			MIC (8958)
	cefuroxime (335)			MIC:broth microdilution (36)
	ciprofloxacin (459)			N206 card on the Vitek 2 (10364)
	gentamicin (460)			Vitek2 (36)
	meropenem (456)			agar dilution (10795)
	nalidixic_acid (7)			agar-dilution (16 µg/m (184)
	piperacillin_tazobactam (460)			

Genome Name	Antibiotic	Resistant Phenotype	Measurement Sign	Measurement Value	Measurement Units	Lab typing Method	Computational Method	Evidence	Pubmed
Escherichia coli 8c13fe74-7bb8-11e9-a8d3-(	ampicillin	Susceptible				Etest		Laboratory Methoc	
Escherichia coli 8c13fe74-7bb8-11e9-a8d3-(	ceftazidime	Susceptible				Etest		Laboratory Methoc	
Escherichia coli 8c13fe74-7bb8-11e9-a8d3-(	cefuroxime	Susceptible				Etest		Laboratory Methoc	
Escherichia coli 8c13fe74-7bb8-11e9-a8d3-(	ciprofloxacin	Susceptible				Etest		Laboratory Methoc	
Escherichia coli 8c13fe74-7bb8-11e9-a8d3-(	gentamicin	Susceptible				Etest		Laboratory Methoc	
Escherichia coli 8c13fe74-7bb8-11e9-a8d3-(	meropenem	Susceptible				Etest		Laboratory Methoc	
Escherichia coli 8c13fe74-7bb8-11e9-a8d3-(	piperacillin_tazoba	Susceptible				Etest		Laboratory Methoc	
Escherichia coli 8c13fe74-7bb8-11e9-a8d3-(	trimethoprim_sulpl	Susceptible				Etest		Laboratory Methoc	
Escherichia coli 7ef1773a-7bb8-11e9-a8d3-	ampicillin	Susceptible				Etest		Laboratory Methoc	
Escherichia coli 7ef1773a-7bb8-11e9-a8d3-	ceftazidime	Susceptible				Etest		Laboratory Methoc	
Escherichia coli 7ef1773a-7bb8-11e9-a8d3-	cefuroxime	Susceptible				Etest		Laboratory Methoc	
Escherichia coli 7ef1773a-7bb8-11e9-a8d3-	ciprofloxacin	Susceptible				Etest		Laboratory Methoc	
Escherichia coli 7ef1773a-7bb8-11e9-a8d3-	gentamicin	Susceptible				Etest		Laboratory Methoc	
Escherichia coli 7ef1773a-7bb8-11e9-a8d3-	meropenem	Susceptible				Etest		Laboratory Methoc	
Escherichia coli 7ef1773a-7bb8-11e9-a8d3-	piperacillin_tazoba	Susceptible				Etest		Laboratory Methoc	
Escherichia coli 7ef1773a-7bb8-11e9-a8d3-	trimethoprim_sulpl	Susceptible				Etest		Laboratory Methoc	
Escherichia coli 7f9cb3fc-7bb8-11e9-a8d3-6	ampicillin	Resistant				Etest		Laboratory Methoc	
Escherichia coli 7f9cb3fc-7bb8-11e9-a8d3-6	ceftazidime	Susceptible				Etest		Laboratory Methoc	
Escherichia coli 7f9cb3fc-7bb8-11e9-a8d3-6	cefuroxime	Susceptible				Etest		Laboratory Methoc	
Escherichia coli 7f9cb3fc-7bb8-11e9-a8d3-6	ciprofloxacin	Susceptible				Etest		Laboratory Methoc	
Escherichia coli 7f9cb3fc-7bb8-11e9-a8d3-6	gentamicin	Susceptible				Etest		Laboratory Methoc	
Escherichia coli 7f9cb3fc-7bb8-11e9-a8d3-6	meropenem	Susceptible				Etest		Laboratory Methoc	
Escherichia coli 7f9cb3fc-7bb8-11e9-a8d3-6	piperacillin_tazoba	Susceptible				Etest		Laboratory Methoc	
Escherichia coli 7f9cb3fc-7bb8-11e9-a8d3-6	trimethoprim_sulpl	Resistant				Etest		Laboratory Methoc	
Escherichia coli 8155e15a-7bb8-11e9-a8d3-	ampicillin	Resistant				Etest		Laboratory Methoc	
Escherichia coli 8155e15a-7bb8-11e9-a8d3-	ceftazidime	Susceptible				Etest		Laboratory Methoc	
Escherichia coli 8155e15a-7bb8-11e9-a8d3-	cefuroxime	Susceptible				Etest		Laboratory Methoc	
Escherichia coli 8155e15a-7bb8-11e9-a8d3-	ciprofloxacin	Susceptible				Etest		Laboratory Methoc	

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Acinetobacter:

Taxon View

Bacteria » Proteobacteria » Gammaproteobacteria » Pseudomonadales » Moraxellaceae » **Acinetobacter** (13381 Genomes)

Overview | Phylogeny | Taxonomy | Genomes | **AMR Phenotypes** | Sequences | Proteins | Protein Structures | Specialty Genes | Domains and Motifs | Epitopes | Path

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Public	Antibiotic	Resistant Phenotype	Evidence	Laboratory Typing Method	Computatic
true (39894)	amikacin (1906)	undefined (1487)	Computational Method (5168)	BD-Phoenix (680)	AdaBoost C
	amoxicillin (1)	Intermediate (1933)	Computational Prediction (3295)	Computational Prediction (260)	AdaBoost C
	amoxicillin/clavulanate (14)	Non-susceptible (7)	Laboratory Method (29160)	Etest (170)	
	amoxicillin/clavulanic acid (55)	Not defined (143)		Kirby Bauer disk diffusion (1092)	
	ampicillin (869)	Resistant (22628)		Kirby-Bauer disk diffusion (1232)	
	ampicillin-sulbactam (5)	Susceptible (12927)		MIC (22161)	
	ampicillin/sulbactam (1497)			ab_biodisk (154)	
	azidothymidine (50)			agar dilution (26)	
	azithromycin (12)			disc diffusion on Müller-Hinton II Agar (140)	
	aztreonam (908)			disk diffusion (506)	
	benzylpenicillin (1)			forest_pharmaceuticals (25)	
	carbapenem (8957)			glaxosmith_kline_pharmaceuticals (25)	
	cefazolin (782)			oxoid (375)	
	cefepime (700)			pfizer_global_pharmaceuticals (25)	

Genome Name	Antibiotic	Resistant Phenotype	Measurement Sign	Measurement Value	Measurement Units	Lab typing Method	Computational Method	Evidence	Pubmed
Acinetobacter baumannii strain MRSN7336	ceftriaxone	Resistant	>	32	mg/L	MIC		Laboratory Methoc	
Acinetobacter baumannii strain CCF39	piperacillin	Resistant	>=	128	µg/mL			Laboratory Methoc	
Acinetobacter baumannii strain MRSN7249	trimethoprim/sulfa	Susceptible	==	2/38	mg/L	MIC		Laboratory Methoc	
Acinetobacter baumannii strain MRSN1037	ceftriaxone	Resistant	>	32	mg/L	MIC		Laboratory Methoc	
Acinetobacter baumannii strain MRSN7658	ceftazidime	Resistant	>	16	mg/L	MIC		Laboratory Methoc	
Acinetobacter baumannii strain MRSN7213	levofloxacin	Susceptible	<=	2	mg/L	MIC			
Acinetobacter baumannii strain AB_363	carbapenem	Susceptible					AdaBoost Classifie	Computational Me	
Acinetobacter baumannii strain ABCRPUTH	imipenem	Resistant	=	64	mg/L	agar dilution		Laboratory Methoc	
Acinetobacter baumannii strain MRSN7388	tobramycin	Susceptible	==	4	mg/L	MIC		Laboratory Methoc	
Acinetobacter baumannii strain MRSN3207	ampicillin/sulbacta	Susceptible	<=	8/4	mg/L	MIC			
Acinetobacter baumannii strain MRSN7731	ceftriaxone	Susceptible	==	8	mg/L	MIC		Laboratory Methoc	
Acinetobacter baumannii strain MRSN7629	imipenem	Susceptible	<=	1	mg/L	MIC		Laboratory Methoc	
Acinetobacter baumannii strain MRSN7305	cefotaxime	Resistant	>	32	mg/L	MIC		Laboratory Methoc	
Acinetobacter baumannii strain MRSN7706	cefoxitin	Resistant	>=	64	mg/L	MIC		Laboratory Methoc	
Acinetobacter baumannii strain MRSN7355	gentamicin	Resistant	>	8	mg/L	MIC		Laboratory Methoc	
Acinetobacter baumannii strain MRSN1179	carbapenem	Resistant					AdaBoost Classifie	Computational Me	
Acinetobacter baumannii strain MRSN3152	amikacin	Susceptible	<=	16	mg/L	MIC			
Acinetobacter baumannii strain MRSN7220	ceftriaxone	Resistant	>	32	mg/L	MIC		Laboratory Methoc	
Acinetobacter baumannii strain MRSN7548	ceftazidime	Resistant	>	16	mg/L	MIC		Laboratory Methoc	
Acinetobacter baumannii strain MRSN7393	carbapenem	Susceptible					AdaBoost Classifie	Computational Me	
Acinetobacter baumannii strain MRSN2999	tetracycline	Susceptible	<=	4	mg/L	MIC			
Acinetobacter baumannii strain BL12	carbapenem	Resistant					AdaBoost Classifie	Computational Me	
Acinetobacter baumannii strain MRSN7139	imipenem	Susceptible	==	2	mg/L	MIC		Laboratory Methoc	
Acinetobacter baumannii strain MRSN1973	meropenem	Susceptible	==	1	mg/L	MIC		Laboratory Methoc	
Acinetobacter baumannii strain MRSN1177	tetracycline	Susceptible	<=	2	mg/L	MIC		Laboratory Methoc	

1 - 200 of 39894 results

‹ 1 **2** **3** ... **200** ›

Antibiotic action button: Tobramycin (Overview display)

☐	Acinetobacter baumannii strain AB_363	carbapenem	Susceptible					AdaBoost Classifie	Computational Me
☐	Acinetobacter baumannii strain ABCRPUTH	imipenem	Resistant	=	64	mg/L	agar dilution		Laboratory Methoc
☑	Acinetobacter baumannii strain MRSN7388	tobramycin	Susceptible	==	4	mg/L	MIC		Laboratory Methoc
☐	Acinetobacter baumannii strain MRSN3207	ampicillin/sulbacta	Susceptible	<=	8/4	mg/L	MIC		

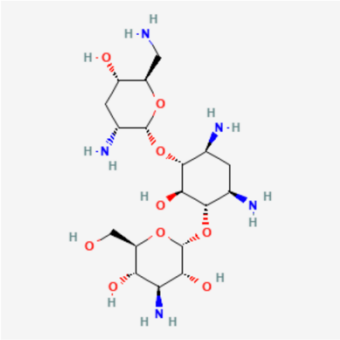
Antibiotic View

ANTIBIOTIC NAME IS tobramycin

Overview | **AMR Phenotypes** | **AMR Genes** | **AMR Regions**

Antibiotic Name	tobramycin
PubChem CID	36294
CAS ID	32986-56-4
Molecular Formula	C18H37N5O9
Molecular Weight	467.52 g/mol
InChI Key	NLVFBUXFDBBNBW-PBSUHMDJSA-N
ATC Classification	Antiinfectives for systemic use; Antibacterials for systemic use; Aminoglycoside antibacterials; Other aminoglycosides; Tobramycin; Sensory organs; Ophthalmologicals; Antiinfectives; Antibiotics; Tobramycin

2D Structure



Description

An aminoglycoside, broad-spectrum antibiotic produced by Streptomyces tenebrarius. It is effective against gram-negative bacteria, especially the pseudomonas species. It is a 10% component of the antibiotic complex, nebramycin, produced by the same species. [PubChem]

FDA Pharmacology Summary: Tobramycin is an Aminoglycoside Antibacterial. The chemical classification of tobramycin is Aminoglycosides.

LiverTox Summary: Tobramycin is a parenterally administered, broad spectrum aminoglycoside antibiotic that is widely used in the treatment of moderate to severe bacterial infections due to sensitive organisms. Despite its wide use, tobramycin has rarely been linked to instances of clinically apparent liver injury.

Metabolite Description: Tobramycin is only found in individuals that have used or taken this drug. It is an aminoglycoside, broad-spectrum antibiotic produced by Streptomyces tenebrarius. It is effective against gram-negative bacteria, especially the pseudomonas species. It is a 10% component of the antibiotic complex, nebramycin, produced by the same species. [PubChem]Tobramycin binds irreversibly to one of two aminoglycoside binding sites on the 30 S ribosomal subunit, inhibiting bacterial protein synthesis. Tobramycin may also destabilize bacterial memebrane by binding to 16 S 16 S r-RNA. An active transport mechanism for aminoglycoside uptake is necessary in the bacteria in order to attain a significant intracellular concentration of tobramycin.

Pharmacology: Tobramycin Base is an aminoglycoside antibiotic derived from Streptomyces tenebrarius with bacteriostatic activity. Following active transport into the cell, tobramycin binds irreversibly to a specific aminoglycoside receptor on the bacterial 30S ribosomal subunit and interferes with the initiation complex between messenger RNA and the 30S subunit, thereby inhibiting initiation of protein synthesis, consequently leading to bacterial cell death. In addition, tobramycin induces misreading of the mRNA template causing incorrect amino acids to be incorporated into the growing polypeptide chain, consequently interfering with protein elongation.

An aminoglycoside, broad-spectrum antibiotic produced by Streptomyces tenebrarius. It is effective against gram-negative bacteria, especially the PSEUDOMONAS species. It is a 10% component of the antibiotic complex, NEBRAMYCIN, produced by the same species.

Mechanism Of Action

/AMINOGLYCOSIDES/ INHIBIT PROTEIN BIOSYNTHESIS & DECR FIDELITY OF TRANSLATION OF GENETIC CODE. /AMINOGLYCOSIDES/

Aminoglycosides are usually bacterial in action. Although the exact mechanism of action has not been fully elucidated, the drugs appear to inhibit protein synthesis in susceptible bacteria by irreversibly binding to 30S ribosomal subunits. /Aminoglycosides/

Tobramycin binds irreversibly to one of two aminoglycoside binding sites on the 30 S ribosomal subunit, inhibiting bacterial protein synthesis. Tobramycin may also destabilize bacterial memebrane by binding to 16 S 16 S r-RNA. An active transport mechanism for aminoglycoside uptake is necessary in the bacteria in order to attain a significant intracellular concentration of tobramycin.

Pharmacology

Antibiotic action button: Tobramycin (AMR Phenotypes display)

Antibiotic View

ANTIBIOTIC NAME IS tobramycin

Overview | **AMR Phenotypes** | AMR Genes | AMR Regions

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Public	Antibiotic	Resistant Phenotype	Evidence	Laboratory Typing Method	Computational M
true (26229)	tobramycin (26229)	undefined (669) Intermediate (694) Nonsusceptible (2) Resistant (12421) Susceptible (12278)	Computational Method (10791) Computational Prediction (6439) Laboratory Method (8095)	Agar dilution (10) BD Phoenix ad E-test (17) Computational Prediction (109) Etest (16) MIC (5402) MIC, broth microdilution (23) Microscan NEG 38 panel (11) N206 card on the Vitek 2 (148) VITEK 2 (64)	AdaBoost Classifie AdaBoost Classifie

Genome Name	Antibiotic	Resistant Phenotype	Measurement Sign	Measurement Value	Measurement Units	Lab typing Method	Computational Method	Evidence	Pubmed
Klebsiella pneumoniae strain EuSCAPE_RC	tobramycin	Resistant					AdaBoost Classifie	Computational Me	
Klebsiella pneumoniae strain SRRSH8	tobramycin	Susceptible					AdaBoost Classifie	Computational Me	
Klebsiella pneumoniae KPN1261ec	tobramycin	Resistant	>	8	mg/L	MIC		Laboratory Methoc	28512093,2877
Klebsiella pneumoniae strain EuSCAPE_TR	tobramycin	Susceptible					AdaBoost Classifie	Computational Me	
Pseudomonas aeruginosa strain F2045	tobramycin			256	mg/L	MIC		Laboratory Methoc	32048461
Acinetobacter baumannii strain MRSN7388	tobramycin	Susceptible	==	4	mg/L	MIC		Laboratory Methoc	
Klebsiella pneumoniae KPN1102ec	tobramycin	Resistant					AdaBoost Classifie	Computational Me	
Klebsiella pneumoniae strain EuSCAPE_GF	tobramycin	Resistant					AdaBoost Classifie	Computational Me	
Klebsiella pneumoniae KPN238ec	tobramycin	Susceptible					AdaBoost Classifie	Computational Me	
Klebsiella pneumoniae strain EuSCAPE_IT	tobramycin	Resistant					AdaBoost Classifie	Computational Me	
Klebsiella pneumoniae KPN377ec	tobramycin	Resistant					AdaBoost Classifie	Computational Me	
Klebsiella pneumoniae KPN1713ec	tobramycin	Resistant	>	8	mg/L	MIC		Laboratory Methoc	28512093,2877
Pseudomonas aeruginosa strain PAER_4	tobramycin			8	mg/L	thermofisher_scier		Laboratory Methoc	31530672
Klebsiella pneumoniae strain NR0390	tobramycin	Resistant					AdaBoost Classifie	Computational Me	
Klebsiella pneumoniae strain Kpngiani7132	tobramycin	Susceptible					AdaBoost Classifie	Computational Me	
Klebsiella pneumoniae subsp. pneumoniae	tobramycin	Susceptible					AdaBoost Classifie	Computational Me	
Klebsiella pneumoniae strain EuSCAPE_GF	tobramycin	Resistant					AdaBoost Classifie	Computational Me	
Klebsiella pneumoniae subsp. pneumoniae	tobramycin		>	8	mg/L	MIC		Laboratory Methoc	24639510
Klebsiella pneumoniae subsp. pneumoniae	tobramycin	Resistant					AdaBoost Classifie	Computational Me	
Pseudomonas aeruginosa strain ESP039	tobramycin			2	mg/L	MIC		Laboratory Methoc	32048461
Klebsiella pneumoniae KPN1877ec	tobramycin	Resistant					AdaBoost Classifie	Computational Me	
Escherichia coli O11:H18 strain ECO0037	tobramycin	Susceptible						Laboratory Methoc	28720578
Klebsiella pneumoniae strain Kpngiani7132	tobramycin	Resistant					AdaBoost Classifie	Computational Me	
Pseudomonas aeruginosa strain PSAE1439	tobramycin			2	mg/L	MIC		Laboratory Methoc	32048461
Acinetobacter baumannii strain MRSN7417	tobramycin	Susceptible	==	2	mg/L	MIC		Laboratory Methoc	
Klebsiella pneumoniae strain EuSCAPE_IT	tobramycin	Susceptible					AdaBoost Classifie	Computational Me	
Klebsiella pneumoniae strain KPM_76	tobramycin	Resistant					AdaBoost Classifie	Computational Me	
Klebsiella pneumoniae strain RHBSTW-000	tobramycin	Resistant					AdaBoost Classifie	Computational Me	
Klebsiella pneumoniae strain CRK0020	tobramycin	Resistant					AdaBoost Classifie	Computational Me	

1 - 200 of 26229 results

‹ 1 **2** **3** ... **132** ›

Antibiotic action button: Tobramycin (AMR Genes display)

Antibiotic View

ANTIBIOTIC NAME IS tobramycin

Overview | **AMR Phenotypes** | AMR Genes | AMR Regions

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Public	Antibiotic	Resistant Phenotype	Evidence	Laboratory Typing Method	Computational M
true (26229)	tobramycin (26229)	undefined (669) Intermediate (694) Nonsusceptible (2) Resistant (12421) Susceptible (12278)	Computational Method (10791) Computational Prediction (6439) Laboratory Method (8095)	Agar dilution (10) BD Phoenix ad E-test (17) Computational Prediction (109) Etest (16) MIC (5402) MIC, broth microdilution (23) Microscan NEG 38 panel (11) N206 card on the Vitek 2 (148) VITEK 2 (64)	AdaBoost Classifie AdaBoost Classifie

Genome Name	Antibiotic	Resistant Phenotype	Measurement Sign	Measurement Value	Measurement Units	Lab typing Method	Computational Method	Evidence	Pubmed
Klebsiella pneumoniae strain EuSCAPE_RC	tobramycin	Resistant					AdaBoost Classifie	Computational Me	
Klebsiella pneumoniae strain SRRSH8	tobramycin	Susceptible					AdaBoost Classifie	Computational Me	
Klebsiella pneumoniae KPN1261ec	tobramycin	Resistant	>	8	mg/L	MIC		Laboratory Methoc	28512093,2877
Klebsiella pneumoniae strain EuSCAPE_TR	tobramycin	Susceptible					AdaBoost Classifie	Computational Me	
Pseudomonas aeruginosa strain F2045	tobramycin			256	mg/L	MIC		Laboratory Methoc	32048461
Acinetobacter baumannii strain MRSN7388	tobramycin	Susceptible	==	4	mg/L	MIC		Laboratory Methoc	
Klebsiella pneumoniae KPN1102ec	tobramycin	Resistant					AdaBoost Classifie	Computational Me	
Klebsiella pneumoniae strain EuSCAPE_GF	tobramycin	Resistant					AdaBoost Classifie	Computational Me	
Klebsiella pneumoniae KPN238ec	tobramycin	Susceptible					AdaBoost Classifie	Computational Me	
Klebsiella pneumoniae strain EuSCAPE_IT	tobramycin	Resistant					AdaBoost Classifie	Computational Me	
Klebsiella pneumoniae KPN377ec	tobramycin	Resistant					AdaBoost Classifie	Computational Me	
Klebsiella pneumoniae KPN1713ec	tobramycin	Resistant	>	8	mg/L	MIC		Laboratory Methoc	28512093,2877
Pseudomonas aeruginosa strain PAER_4	tobramycin			8	mg/L	thermofisher_scier		Laboratory Methoc	31530672
Klebsiella pneumoniae strain NR0390	tobramycin	Resistant					AdaBoost Classifie	Computational Me	
Klebsiella pneumoniae strain Kpngiani7132	tobramycin	Susceptible					AdaBoost Classifie	Computational Me	
Klebsiella pneumoniae subsp. pneumoniae	tobramycin	Susceptible					AdaBoost Classifie	Computational Me	
Klebsiella pneumoniae strain EuSCAPE_GF	tobramycin	Resistant					AdaBoost Classifie	Computational Me	
Klebsiella pneumoniae subsp. pneumoniae	tobramycin		>	8	mg/L	MIC		Laboratory Methoc	24639510
Klebsiella pneumoniae subsp. pneumoniae	tobramycin	Resistant					AdaBoost Classifie	Computational Me	
Pseudomonas aeruginosa strain ESP039	tobramycin			2	mg/L	MIC		Laboratory Methoc	32048461
Klebsiella pneumoniae KPN1877ec	tobramycin	Resistant					AdaBoost Classifie	Computational Me	
Escherichia coli O11:H18 strain ECO0037	tobramycin	Susceptible						Laboratory Methoc	28720578
Klebsiella pneumoniae strain Kpngiani7132	tobramycin	Resistant					AdaBoost Classifie	Computational Me	
Pseudomonas aeruginosa strain PSAE1439	tobramycin			2	mg/L	MIC		Laboratory Methoc	32048461
Acinetobacter baumannii strain MRSN7417	tobramycin	Susceptible	==	2	mg/L	MIC		Laboratory Methoc	
Klebsiella pneumoniae strain EuSCAPE_IT	tobramycin	Susceptible					AdaBoost Classifie	Computational Me	
Klebsiella pneumoniae strain KPM_76	tobramycin	Resistant					AdaBoost Classifie	Computational Me	
Klebsiella pneumoniae strain RHBSTW-000	tobramycin	Resistant					AdaBoost Classifie	Computational Me	
Klebsiella pneumoniae strain CRK0020	tobramycin	Resistant					AdaBoost Classifie	Computational Me	

1 - 200 of 26229 results

‹ 1 **2 3 ... 132** ›

Antibiotic action button: Tobramycin (AMR Genes display)

Antibiotic View

ANTIBIOTIC NAME IS tobramycin

Overview | AMR Phenotypes | **AMR Genes** | AMR Regions

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Evidence	Source	BRC ID	RefSeq Locus Tag	Source ID	Gene	Product	Pubmed	Identity	E-value
BLAT	CARD	fig|573.43776.peg.49		ACL36604.1	AAC(6')-Ib	6'-N-acetyltransferase		100	1e-114
BLAT	CARD	fig|573.15292.peg.33		AAA26550.1		hypothetical protein		100	2e-37
BLAT	CARD	fig|287.2438.peg.790		AAA26550.1		hypothetical protein		100	5e-40
BLAT	CARD	fig|133448.27.peg.55		AAA26550.1	AAC(6')-Ib	hypothetical protein		100	2e-37
BLAT	CARD	fig|1733.8031.peg.47		AAA26550.1	AAC(6')-Ib	6'-N-acetyltransferase		98	3e-34
BLAT	CARD	fig|587.278.peg.241		AAA26550.1	AAC(6')-Ib	hypothetical protein		100	3e-22
BLAT	CARD	fig|72407.98.peg.681		AAA26550.1		hypothetical protein		100	3e-45
BLAT	CARD	fig|573.46545.peg.59		AAA26550.1	AAC(6')-Ib	6'-N-acetyltransferase		100	2e-18
BLAT	CARD	fig|550.1213.peg.220	CIG53_27825	AAA26550.1		hypothetical protein		100	2e-14
BLAT	CARD	fig|57706.121.peg.38		AAA26550.1	AAC(6')-Ib	hypothetical protein		100	6e-07
BLAT	CARD	fig|573.24143.peg.59		AAA26550.1	AAC(6')-Ib	6'-N-acetyltransferase		100	2e-18
BLASTP	ARDB	fig|573.13023.peg.58		ABC54722		hypothetical protein		96	0.000000000
BLAT	CARD	fig|573.17846.peg.58		AAA26550.1	AAC(6')-Ib	hypothetical protein		95	2e-47
BLAT	CARD	fig|573.35466.peg.30		AAA26550.1	AAC(6')-Ib	6'-N-acetyltransferase		100	4e-11
BLAT	CARD	fig|573.24422.peg.53		AAA26550.1	AAC(6')-Ib	6'-N-acetyltransferase		100	2e-18
BLASTP	ARDB	fig|573.13398.peg.56		P20092		hypothetical protein		96	0.000000000
BLAT	CARD	fig|1733.8879.peg.45		AAA26550.1	AAC(6')-Ib	hypothetical protein		81	5e-02
BLAT	CARD	fig|573.1438.peg.574		ACL36604.1		Aminoglycoside N(6')-acetyltransferase (EC 2.3.1.82) =		100	1e-114
BLAT	CARD	fig|573.1468.peg.583		ACL36604.1		Aminoglycoside N(6')-acetyltransferase (EC 2.3.1.82) =		100	1e-102
BLAT	CARD	fig|573.1474.peg.562		ACL36604.1		Aminoglycoside N(6')-acetyltransferase (EC 2.3.1.82) =		100	1e-114
BLAT	CARD	fig|573.1454.peg.585		ACL36604.1		Aminoglycoside N(6')-acetyltransferase (EC 2.3.1.82) =		100	1e-114
BLAT	CARD	fig|573.1467.peg.586		ACL36604.1		Aminoglycoside N(6')-acetyltransferase (EC 2.3.1.82) =		100	1e-113
BLAT	CARD	fig|573.1384.peg.559		ACL36604.1		Aminoglycoside N(6')-acetyltransferase (EC 2.3.1.82) =		100	1e-114
BLAT	CARD	fig|573.1381.peg.557		ACL36604.1		Aminoglycoside N(6')-acetyltransferase (EC 2.3.1.82) =		100	1e-114
BLAT	CARD	fig|573.1438.peg.434		ACL36604.1		Aminoglycoside N(6')-acetyltransferase (EC 2.3.1.82) =		100	8e-36
BLAT	CARD	fig|573.1468.peg.551		ACL36604.1		Aminoglycoside N(6')-acetyltransferase (EC 2.3.1.82) =		100	2e-54
BLAT	CARD	fig|1733.9038.peg.45		AAA26550.1	AAC(6')-Ib	6'-N-acetyltransferase		98	2e-46
BLAT	CARD	fig|573.1389.peg.536		ACL36604.1		Aminoglycoside N(6')-acetyltransferase (EC 2.3.1.82) =		99	1e-113
BLAT	CARD	fig|573.1414.peg.576		ACL36604.1		Aminoglycoside N(6')-acetyltransferase (EC 2.3.1.82) =		100	1e-114
BLAT	CARD	fig|573.1403.peg.586		ACL36604.1		Aminoglycoside N(6')-acetyltransferase (EC 2.3.1.82) =		100	1e-114
BLAT	CARD	fig|1733.9012.peg.50		AAA26550.1	AAC(6')-Ib	6'-N-acetyltransferase		98	6e-35
BLAT	CARD	fig|573.1420.peg.558		ACL36604.1		Aminoglycoside N(6')-acetyltransferase (EC 2.3.1.82) =		100	4e-91
BLAT	CARD	fig|573.1424.peg.576		ACL36604.1		Aminoglycoside N(6')-acetyltransferase (EC 2.3.1.82) =		100	1e-114
BLAT	CARD	fig|573.1437.peg.565		ACL36604.1		Aminoglycoside N(6')-acetyltransferase (EC 2.3.1.82) =		99	1e-113
BLAT	CARD	fig|573.1469.peg.583		ACL36604.1		Aminoglycoside N(6')-acetyltransferase (EC 2.3.1.82) =		100	1e-113
BLAT	CARD	fig|573.44634.peg.75	LVA95_28960	AAA26550.1	AAC(6')-Ib	6'-N-acetyltransferase		100	2e-37
BLAT	CARD	fig|573.1427.peg.591		ACL36604.1		Aminoglycoside N(6')-acetyltransferase (EC 2.3.1.82) =		100	1e-114
BLAT	CARD	fig|573.1385.peg.562		ACL36604.1		Aminoglycoside N(6')-acetyltransferase (EC 2.3.1.82) =		100	1e-114

1 - 200 of 315009 results

‹ 1 **2 3 ... 1576** ›

Antibiotic action button: Tobramycin (AMR Regions display)

Antibiotic View

ANTIBIOTIC NAME IS tobramycin

Overview | **AMR Phenotypes** | **AMR Genes** | **AMR Regions**

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Genome ID	Genome Name	Accession	Feature Type	BRC ID	RefSeq Locus Tag	Start	End	Strand	Length (NA)	Gene Symbol	Product
573.15849	Klebsiella pneumoniae	AF479774	classifier_pr	fig|573.15849.cl		6288	6302	+	15		Tobramycin resistance predicted region
573.15849	Klebsiella pneumoniae	AF479774	classifier_pr	fig|573.15849.cl		11161	11180	+	20		Tobramycin resistance predicted region
573.27727	Klebsiella pneumoniae	CABHKH01000	classifier_pr	fig|573.27727.cl		311936	311950	+	15		Tobramycin resistance predicted region
573.27727	Klebsiella pneumoniae	CABHKH01000	classifier_pr	fig|573.27727.cl		1745373	1745387	+	15		Tobramycin resistance predicted region
573.27727	Klebsiella pneumoniae	CABHKH01000	classifier_pr	fig|573.27727.cl		1749837	1749851	+	15		Tobramycin resistance predicted region
573.27727	Klebsiella pneumoniae	CABHKH01000	classifier_pr	fig|573.27727.cl		4390054	4390068	+	15		Tobramycin resistance predicted region
573.27727	Klebsiella pneumoniae	CABHKH01000	classifier_pr	fig|573.27727.cl		78494	78508	+	15		Tobramycin resistance predicted region
573.27727	Klebsiella pneumoniae	CABHKH01000	classifier_pr	fig|573.27727.cl		154228	154242	+	15		Tobramycin resistance predicted region
573.27729	Klebsiella pneumoniae	CABHKI010000	classifier_pr	fig|573.27729.cl		195694	195708	+	15		Tobramycin resistance predicted region
573.27729	Klebsiella pneumoniae	CABHKI010000	classifier_pr	fig|573.27729.cl		3980	3994	+	15		Tobramycin resistance predicted region
573.27729	Klebsiella pneumoniae	CABHKI010000	classifier_pr	fig|573.27729.cl		7393	7407	+	15		Tobramycin resistance predicted region
573.27729	Klebsiella pneumoniae	CABHKI010000	classifier_pr	fig|573.27729.cl		2392291	2392305	+	15		Tobramycin resistance predicted region
573.27729	Klebsiella pneumoniae	CABHKI010000	classifier_pr	fig|573.27729.cl		2396744	2396758	+	15		Tobramycin resistance predicted region
573.27729	Klebsiella pneumoniae	CABHKI010000	classifier_pr	fig|573.27729.cl		4651	4665	+	15		Tobramycin resistance predicted region
573.27729	Klebsiella pneumoniae	CABHKI010000	classifier_pr	fig|573.27729.cl		8071	8085	+	15		Tobramycin resistance predicted region
573.27729	Klebsiella pneumoniae	CABHKI010000	classifier_pr	fig|573.27729.cl		11491	11505	+	15		Tobramycin resistance predicted region
573.27729	Klebsiella pneumoniae	CABHKI010000	classifier_pr	fig|573.27729.cl		20116	20130	+	15		Tobramycin resistance predicted region
573.27729	Klebsiella pneumoniae	CABHKI010000	classifier_pr	fig|573.27729.cl		21450	21464	+	15		Tobramycin resistance predicted region
573.27729	Klebsiella pneumoniae	CABHKI010000	classifier_pr	fig|573.27729.cl		22070	22084	+	15		Tobramycin resistance predicted region
573.27729	Klebsiella pneumoniae	CABHKI010000	classifier_pr	fig|573.27729.cl		62806	62820	+	15		Tobramycin resistance predicted region
573.27729	Klebsiella pneumoniae	CABHKI010000	classifier_pr	fig|573.27729.cl		66226	66240	+	15		Tobramycin resistance predicted region
573.27729	Klebsiella pneumoniae	CABHKI010000	classifier_pr	fig|573.27729.cl		69643	69657	+	15		Tobramycin resistance predicted region
573.27729	Klebsiella pneumoniae	CABHKI010000	classifier_pr	fig|573.27729.cl		73053	73067	+	15		Tobramycin resistance predicted region
573.27724	Klebsiella pneumoniae	CABHKJ01000(	classifier_pr	fig|573.27724.cl		1736	1750	+	15		Tobramycin resistance predicted region
573.27724	Klebsiella pneumoniae	CABHKJ01000(	classifier_pr	fig|573.27724.cl		173161	173175	+	15		Tobramycin resistance predicted region
573.27724	Klebsiella pneumoniae	CABHKJ01000(	classifier_pr	fig|573.27724.cl		522612	522626	+	15		Tobramycin resistance predicted region
573.27724	Klebsiella pneumoniae	CABHKJ01000(	classifier_pr	fig|573.27724.cl		3250210	3250224	+	15		Tobramycin resistance predicted region
573.27724	Klebsiella pneumoniae	CABHKJ01000(	classifier_pr	fig|573.27724.cl		3254663	3254677	+	15		Tobramycin resistance predicted region
573.27724	Klebsiella pneumoniae	CABHKJ01000(	classifier_pr	fig|573.27724.cl		79537	79556	+	20		Tobramycin resistance predicted region
573.27724	Klebsiella pneumoniae	CABHKJ01000(	classifier_pr	fig|573.27724.cl		82765	82779	+	15		Tobramycin resistance predicted region
573.27725	Klebsiella pneumoniae	CABHKK01000	classifier_pr	fig|573.27725.cl		1604	1618	+	15		Tobramycin resistance predicted region
573.27725	Klebsiella pneumoniae	CABHKK01000	classifier_pr	fig|573.27725.cl		15578	15597	+	20		Tobramycin resistance predicted region
573.27725	Klebsiella pneumoniae	CABHKK01000	classifier_pr	fig|573.27725.cl		26418	26432	+	15		Tobramycin resistance predicted region
573.27725	Klebsiella pneumoniae	CABHKK01000	classifier_pr	fig|573.27725.cl		27752	27766	+	15		Tobramycin resistance predicted region
573.27725	Klebsiella pneumoniae	CABHKK01000	classifier_pr	fig|573.27725.cl		28372	28386	+	15		Tobramycin resistance predicted region
573.27725	Klebsiella pneumoniae	CABHKK01000	classifier_pr	fig|573.27725.cl		220390	220404	+	15		Tobramycin resistance predicted region
573.27725	Klebsiella pneumoniae	CABHKK01000	classifier_pr	fig|573.27725.cl		148	162	+	15		Tobramycin resistance predicted region
573.27725	Klebsiella pneumoniae	CABHKK01000	classifier_pr	fig|573.27725.cl		2074	2088	+	15		Tobramycin resistance predicted region

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‹ 1 **2** **3** ... **498** ›