

BV-BRC Test Report

D8. Sequences Data Tab

Item to test	Sequences Data Tab
URL	https://www.bv-brc.org/view/Taxonomy/194#view_tab=sequences
Prerequisites	None
References	https://www.bv-brc.org/docs/quick_references/organisms_taxon/sequences.html
Tester(s)	Rebecca Wattam, Ron Kenyon
Test date	6-Jan-2022 (original – passed), 9-May-2022 (follow-up-passed)
Test result	Passed (minor issue reported)

Overview

- Test the Sequences Tab with example bacterial data.
- Verify appropriate genomes
- Test FASTA and Genome Browser action buttons.

Test Results

- Test results were verified by examination of returned data via inspection and filters.
- All operations performed as expected, with exception of FASTA action button.
 - Issue: Received RequestError error, when downloading FASTA sequence.
 - Resolution: The bug was fixed. The download is now working as expected.

Campylobacter:

Taxon View

Bacteria » Proteobacteria » Epsilonproteobacteria » Campylobacterales » Campylobacteraceae » **Campylobacter** (8526 Genomes)

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



KEYWORDS



Sequence Type	Sequence Status	Chromosome	Plasmid
Contig (105)	complete (58)	megaplasmid pCL2100 (1)	mp1 (1)
Scaffold (289)		pCC178 (20)	mp2 (1)
chromosome (16305)		pCC2228-1 (1)	p14240-1-1 (1)
contig (540607)		pCC2228-2 (1)	p14240-1-2 (1)
plasmid (123)		pCC2228-3 (1)	p14991B (1)
scaffold (12138)		pCC42yr (1)	p15363C (1)
		pCCON16 (1)	p15516C-1 (1)
		pCCON31 (1)	p15516C-2 (1)
		pCH4 (1)	p15597A-1 (1)

<input type="checkbox"/>	Genome ID	Genome Name	Accession	Sequence Type	Mol Type	Description	GC Content %	Length (bp)
<input type="checkbox"/>	195.2005	Campylobacter coli strain FSIS1607083	195.2005.con.0095	contig		NODE_95_length_160_cov_38.951807	36.88	160
<input type="checkbox"/>	195.989	Campylobacter coli strain W17A	FAYR01000021	contig		Campylobacter coli genome assembly W17A	32.3	322
<input type="checkbox"/>	199.799	Campylobacter concisus strain AAUH-12CD	PPAK01000007	contig		PPAK01000007.1	41.11	433
<input type="checkbox"/>	32022.589	Campylobacter jejuni subsp. jejuni strain CF	PHYZ01000035	contig		PHYZ01000035.1	29.22	1030
<input type="checkbox"/>	195.1736	Campylobacter coli strain FSIS1605612	195.1736.con.0053	contig		NODE_53_length_308_cov_47.225108	32.47	308
<input type="checkbox"/>	195.1861	Campylobacter coli strain FSIS1606302	195.1861.con.0098	contig		NODE_98_length_80_cov_49.000000	26.25	80
<input type="checkbox"/>	195.2202	Campylobacter coli strain FSIS1606590	195.2202.con.0013	contig		NODE_13_length_32898_cov_25.168672	30.45	32898
<input type="checkbox"/>	197.11583	Campylobacter jejuni strain RM3414	NFQU01000321	contig		NFQU01000321.1	30.46	1773
<input type="checkbox"/>	197.11646	Campylobacter jejuni strain isolate_C9	NFPP01000121	contig		NFPP01000121.1	29.07	17323
<input type="checkbox"/>	195.1625	Campylobacter coli strain FSIS11814805	ROKN01000076	contig		ROKN01000076.1	27.7	1686
<input type="checkbox"/>	195.2435	Campylobacter coli strain MON334	VAED01000077	contig		VAED01000077.1	26.67	6401
<input type="checkbox"/>	197.15104	Campylobacter jejuni strain SO-92	PQYF01000050	contig		PQYF01000050.1	30.17	242
<input type="checkbox"/>	197.15236	Campylobacter jejuni strain NCTC12851	LR134507	contig		LR134507.1	30.5	1634561
<input type="checkbox"/>	197.15627	Campylobacter jejuni strain FSIS1606223	197.15627.con.0035	contig		NODE_35_length_483_cov_1.196629	35.4	483
<input type="checkbox"/>	197.4822	Campylobacter jejuni strain OXC6588	CUUG01000139	contig		Campylobacter jejuni genome assembly 721	31.24	573
<input type="checkbox"/>	199.763	Campylobacter concisus strain AAUH-49UC	POYN01000019	contig		POYN01000019.1	37.7	6531
<input type="checkbox"/>	32022.885	Campylobacter jejuni subsp. jejuni strain CIT	JAAQQA010000025	contig		JAAQQA010000025.1	29.97	13924
<input type="checkbox"/>	889253.3	Campylobacter jejuni subsp. jejuni 2008-988	AIOS01000191	chromosome		Campylobacter jejuni subsp. jejuni 2008-988	34	400
<input type="checkbox"/>	197.16019	Campylobacter jejuni strain FSIS1605884	197.16019.con.0023	contig		NODE_23_length_944_cov_98.936353	30.72	944
<input type="checkbox"/>	197.20570	Campylobacter jejuni strain 15-Ref0050-15	CAJGWV010000002	contig		CAJGWV010000002.1	30.62	31956
<input type="checkbox"/>	197.15609	Campylobacter jejuni strain FSIS1606151	197.15609.con.0027	contig		NODE_27_length_5388_cov_40.834683	27.15	5388
<input type="checkbox"/>	197.15782	Campylobacter jejuni strain FSIS1606794	197.15782.con.0098	contig		NODE_98_length_132_cov_3.200000	46.97	132
<input type="checkbox"/>	1333529.4	Campylobacter fetus subsp. venerealis bv. ir	ASTK01000181	chromosome		Campylobacter fetus subsp. venerealis bv. ir	27.2	257
<input type="checkbox"/>	593452.3	Campylobacter fetus subsp. venerealis str. A	NZ_ACLG01000303	chromosome		Campylobacter fetus subsp. venerealis str. A	40.5	1121
<input type="checkbox"/>	1031542.14	Campylobacter volucris strain MON0180	JADNYE010000180	contig		JADNYE010000180.1	23.23	848
<input type="checkbox"/>	1440038.3	Campylobacter jejuni CVM 41902	JAKD01000223	contig		Campylobacter jejuni CVM 41902 contig_23	30.2	2010
<input type="checkbox"/>	2040653.3	Campylobacter sp. BCW_8712	NXHW01000456	contig		NXHW01000456.1	31.16	491

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Keyword: Campylobacter

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

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

KEYWORDS: amoxicillin Resistant
 ANTIBIOTIC x RESISTANT_PHENOTYPE x

Public **Antibiotic** (24) **Resistant Phenotype** (24) Evidence Laboratory Typing Method (4)

amoxicillin (24)
 amikacin (1)
 ampicillin (5)
 beta-lactam (5333)
 cefepime (1)
 cefotaxime (14)
 ceftriaxone (6)
 cefuroxime (85)
 chloramphenicol (2133)
 ciprofloxacin (3)
 clindamycin (154)
 ceftiofur (20)

Resistant (24)
 Intermediate (24)
 Susceptible (270)

Laboratory Method (24) MIC (4)

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

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FASTA Action Button:

<input type="checkbox"/>	195.1861	Campylobacter coli strain FSIS1606302	195.1861.con.0098	contig	NODE_98_length_80_cov_49.000000	26.25
<input type="checkbox"/>	195.2202	Campylobacter coli strain FSIS1606590	195.2202.con.0013	contig	NODE_13_length_32898_cov_25.168672	30.45
<input checked="" type="checkbox"/>	197.11583	Campylobacter jejuni strain RM3414	NFQU01000321	contig	NFQU01000321.1	30.46
<input type="checkbox"/>	197.11646	Campylobacter jejuni strain isolate_C9	NFPP01000121	contig	NFPP01000121.1	29.07
<input type="checkbox"/>	197.11655	Campylobacter coli strain FSIS1606302	197.11655.con.0001	contig	NODE_13_length_32898_cov_25.168672	30.45

Result: Received RequestError error, logged into GitHub

There was an error retrieving the requested data: RequestError: Unable to load https://patricbrc.org/api/genome_feature/ status: 400

Genome Browser:

Genome View
Bacteria » Proteobacteria » Epsilonproteobacteria » Campylobacterales » Campylobacteraceae » Campylobacter » Campylobacter jejuni » Campylobacter jejuni strain RM3414

Overview AMR Phenotypes Phylogeny **Genome Browser** Circular Viewer Sequences Proteins Protein Structures Specialty Genes Domains and Motifs Protein Families Pathways Subsystems

Experiments Interactions

Available Tracks

filter tracks

- PATRIC Annotation
- Reference Sequence
- Gene and Protein 1
 - RefSeq Annotation

JBrowse File View Help

0 100 200 300 400 500 600 700 800 900 1,000 1,100 1,200 1,300 1,400 1,500 1,600 1,700

NFQU01000321 NFQU01000321:587..1186 (601) Go

Reference Sequence

PATRIC Annotation

RefSeq Annotation

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





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

<input type="checkbox"/>	Genome Name	Antibiotic	Resistant Phenotype	Measurement Sign	Measurement Value	Measurement Units	Lab typing Method	Computational Method	Evidence	Pubmed
<input type="checkbox"/>	Escherichia coli strain 24742_1#285	trimethoprim	Resistant				broth dilution		Laboratory Method	30550564
<input type="checkbox"/>	Escherichia coli O23:H16 strain ECO0238	ceftazidime	Susceptible						Laboratory Method	28720578
<input type="checkbox"/>	Escherichia coli strain 409	amoxicillin/clavulanic acid	Intermediate	==	16/8	mg/L	MIC		Laboratory Method	
<input type="checkbox"/>	Escherichia coli CVM N34054PS	sulfisoxazole		>	256	mg/L	broth microdilution		Laboratory Method	26142410
<input type="checkbox"/>	Escherichia coli strain G400792	gentamicin	Susceptible						Laboratory Method	30127495
<input type="checkbox"/>	Escherichia coli CVM N36404PS	tetracycline		<=	4	mg/L	broth microdilution		Laboratory Method	26142410
<input type="checkbox"/>	Escherichia coli strain 198	tetracycline	Susceptible	<=	1	mg/L	MIC		Laboratory Method	
<input type="checkbox"/>	Escherichia coli strain URM_C_26	ciprofloxacin	Susceptible	<=	0.25	mg/L	MIC		Laboratory Method	
<input type="checkbox"/>	Escherichia coli O6:H1 strain ECO0292	tigecycline	Susceptible						Laboratory Method	28720578
<input type="checkbox"/>	Escherichia coli strain PB125	cefuroxime	Resistant				N206 card on the Vitek 2		Laboratory Method	28877757,3055
<input type="checkbox"/>	Escherichia coli strain AMC_949	ampicillin	Resistant						Laboratory Method	32205351
<input type="checkbox"/>	Escherichia coli strain AMC_669	amoxicillin			256	mg/L	agar_dilution		Laboratory Method	32205351
<input type="checkbox"/>	Escherichia coli strain 7-16	cefotaxime	Resistant				disk diffusion		Laboratory Method	30092762
<input type="checkbox"/>	Escherichia coli O18:H5 strain ECO0534	ceftazidime	Susceptible				agar dilution		Laboratory Method	28720578
<input type="checkbox"/>	Escherichia coli strain MUGSI_247	tigecycline	Susceptible	<	0.5	mg/L	MIC		Laboratory Method	
<input type="checkbox"/>	Escherichia coli strain AMC_591	amoxicillin			4	mg/L	agar_dilution		Laboratory Method	32205351
<input type="checkbox"/>	Escherichia coli strain 509-16	colistin	Susceptible				disk diffusion		Laboratory Method	30092762
<input type="checkbox"/>	Escherichia coli strain N44807	aztreonam			8	mg/L	broth microdilution		Laboratory Method	30148698
<input type="checkbox"/>	Escherichia coli strain URM_C_46	aztreonam	Resistant	>=	64	mg/L	MIC			
<input type="checkbox"/>	Escherichia coli O4:H1 strain ECO0312	cefuroxime	Susceptible						Laboratory Method	28720578
<input type="checkbox"/>	Escherichia coli O6:H1 strain ECO0575	gentamicin	Susceptible				agar dilution		Laboratory Method	28720578
<input type="checkbox"/>	Escherichia coli strain G009p1	meropenem			4	mg/L	MIC		Laboratory Method	31642700
<input type="checkbox"/>	Escherichia coli O1:H7 strain ECO0067	aztreonam	Susceptible						Laboratory Method	28720578
<input type="checkbox"/>	Escherichia coli O75:H5 strain ECO0767	ciprofloxacin	Susceptible				agar dilution		Laboratory Method	28720578
<input type="checkbox"/>	Escherichia coli strain URM_C_26	gentamicin	Resistant	>=	16	mg/L	MIC		Laboratory Method	
<input type="checkbox"/>	Escherichia coli strain EC_22	ceftiofur	Susceptible				Kirby-Bauer disk diffusion		Laboratory Method	32010104
<input type="checkbox"/>	Escherichia coli strain PB43	ampicillin	Resistant				N206 card on the Vitek 2		Laboratory Method	28877757,3055
<input type="checkbox"/>	Escherichia coli strain N36225PS	kanamycin		<=	8	mg/L	broth microdilution		Laboratory Method	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 | Path

DOWNLOAD | KEYWORDS | ADV Search | **Etest** | LABORATORY_TYPING_METHOD x | HIDE

Public | **Antibiotic** | **Resistant Phenotype** | **Evidence** | **Laboratory Typing Method**

true (3920) | ampicillin (460) | Intermediate (10) | Laboratory Method (3920) | **Etest (3920)**
 aztreonam (104) | ceftazidime (259) | Resistant (254) | Disk Diffusion (5)
 ceftazidime (460) | cefuroxime (335) | Susceptible (3656) | Kirby-Bauer disk diffusion (2938)
 ciprofloxacin (459) | gentamicin (460) | MIC (8958)
 meropenem (456) | nalidixic_acid (7) | MIC:broth microdilution (36)
 piperacillin_tazobactam (460) | Vitek2 (36) | N206 card on the Vitek 2 (10364)
 agar dilution (10795) | Vitek2 (36)
 agar-dilution (16 µg/ml) (184) | agar dilution (16 µg/ml) (269)

Genome Name	Antibiotic	Resistant Phenotype	Measurement Sign	Measurement Value	Measurement Units	Lab typing Method	Computational Method	Evidence	Pubmed
<input type="checkbox"/> Escherichia coli 8c13fe74-7bb8-11e9-a8d3-4	ampicillin	Susceptible				Etest		Laboratory Method	
<input type="checkbox"/> Escherichia coli 8c13fe74-7bb8-11e9-a8d3-4	ceftazidime	Susceptible				Etest		Laboratory Method	
<input type="checkbox"/> Escherichia coli 8c13fe74-7bb8-11e9-a8d3-4	cefuroxime	Susceptible				Etest		Laboratory Method	
<input type="checkbox"/> Escherichia coli 8c13fe74-7bb8-11e9-a8d3-4	ciprofloxacin	Susceptible				Etest		Laboratory Method	
<input type="checkbox"/> Escherichia coli 8c13fe74-7bb8-11e9-a8d3-4	gentamicin	Susceptible				Etest		Laboratory Method	
<input type="checkbox"/> Escherichia coli 8c13fe74-7bb8-11e9-a8d3-4	meropenem	Susceptible				Etest		Laboratory Method	
<input type="checkbox"/> Escherichia coli 8c13fe74-7bb8-11e9-a8d3-4	piperacillin_tazoba	Susceptible				Etest		Laboratory Method	
<input type="checkbox"/> Escherichia coli 8c13fe74-7bb8-11e9-a8d3-4	trimethoprim_sulpl	Susceptible				Etest		Laboratory Method	
<input type="checkbox"/> Escherichia coli 7ef1773a-7bb8-11e9-a8d3-	ampicillin	Susceptible				Etest		Laboratory Method	
<input type="checkbox"/> Escherichia coli 7ef1773a-7bb8-11e9-a8d3-	ceftazidime	Susceptible				Etest		Laboratory Method	
<input type="checkbox"/> Escherichia coli 7ef1773a-7bb8-11e9-a8d3-	cefuroxime	Susceptible				Etest		Laboratory Method	
<input type="checkbox"/> Escherichia coli 7ef1773a-7bb8-11e9-a8d3-	ciprofloxacin	Susceptible				Etest		Laboratory Method	
<input type="checkbox"/> Escherichia coli 7ef1773a-7bb8-11e9-a8d3-	gentamicin	Susceptible				Etest		Laboratory Method	
<input type="checkbox"/> Escherichia coli 7ef1773a-7bb8-11e9-a8d3-	meropenem	Susceptible				Etest		Laboratory Method	
<input type="checkbox"/> Escherichia coli 7ef1773a-7bb8-11e9-a8d3-	piperacillin_tazoba	Susceptible				Etest		Laboratory Method	
<input type="checkbox"/> Escherichia coli 7ef1773a-7bb8-11e9-a8d3-	trimethoprim_sulpl	Susceptible				Etest		Laboratory Method	
<input type="checkbox"/> Escherichia coli 7f9cb3fc-7bb8-11e9-a8d3-6	ampicillin	Resistant				Etest		Laboratory Method	
<input type="checkbox"/> Escherichia coli 7f9cb3fc-7bb8-11e9-a8d3-6	ceftazidime	Susceptible				Etest		Laboratory Method	
<input type="checkbox"/> Escherichia coli 7f9cb3fc-7bb8-11e9-a8d3-6	cefuroxime	Susceptible				Etest		Laboratory Method	
<input type="checkbox"/> Escherichia coli 7f9cb3fc-7bb8-11e9-a8d3-6	ciprofloxacin	Susceptible				Etest		Laboratory Method	
<input type="checkbox"/> Escherichia coli 7f9cb3fc-7bb8-11e9-a8d3-6	gentamicin	Susceptible				Etest		Laboratory Method	
<input type="checkbox"/> Escherichia coli 7f9cb3fc-7bb8-11e9-a8d3-6	meropenem	Susceptible				Etest		Laboratory Method	
<input type="checkbox"/> Escherichia coli 7f9cb3fc-7bb8-11e9-a8d3-6	piperacillin_tazoba	Susceptible				Etest		Laboratory Method	
<input type="checkbox"/> Escherichia coli 7f9cb3fc-7bb8-11e9-a8d3-6	trimethoprim_sulpl	Resistant				Etest		Laboratory Method	
<input type="checkbox"/> Escherichia coli 8155e15a-7bb8-11e9-a8d3-	ampicillin	Resistant				Etest		Laboratory Method	
<input type="checkbox"/> Escherichia coli 8155e15a-7bb8-11e9-a8d3-	ceftazidime	Susceptible				Etest		Laboratory Method	
<input type="checkbox"/> Escherichia coli 8155e15a-7bb8-11e9-a8d3-	cefuroxime	Susceptible				Etest		Laboratory Method	
<input type="checkbox"/> Escherichia coli 8155e15a-7bb8-11e9-a8d3-	ciprofloxacin	Susceptible				Etest		Laboratory Method	

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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

DOWNLOAD KEYWORDS ADV Search HIDE

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

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

1 - 200 of 39894 results

< 1 2 3 ... 200 >

Antibiotic action button: Tobramycin (Overview display)

<input type="checkbox"/>	Acinetobacter baumannii strain AB_363	carbapenem	Susceptible					AdaBoost Classific	Computational Me
<input type="checkbox"/>	Acinetobacter baumannii strain ABCRPUTH	imipenem	Resistant	=	64	mg/L	agar dilution		Laboratory Methoc
<input checked="" type="checkbox"/>	Acinetobacter baumannii strain MRSN7388	tobramycin	Susceptible	==	4	mg/L	MIC		Laboratory Methoc
<input type="checkbox"/>	Acinetobacter baumannii strain MRSN3207	ampicillin/subbacta	Susceptible	<=	8/4	mg/L	MIC		
<input type="checkbox"/>	Acinetobacter baumannii strain MRSN7388	cefepime	Susceptible	==	8	mg/L	MIC		Laboratory Methoc

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	C ₁₈ H ₃₇ N ₅ O ₉
Molecular Weight	467.52 g/mol
InChI Key	NLVFBUXFDBBNBW-PBSUHMDJSA-N
ATC Classification	<input type="button" value="Antiinfectives for systemic use"/> <input type="button" value="Antibacterials for systemic use"/> <input type="button" value="Aminoglycoside antibacterials"/> <input type="button" value="Other aminoglycosides"/> <input type="button" value="Tobramycin"/> <input type="button" value="Sensory organs"/> <input type="button" value="Ophthalmologicals"/> <input type="button" value="Antiinfectives"/> <input type="button" value="Antibiotics"/> <input type="button" value="Tobramycin"/>

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 membrane 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

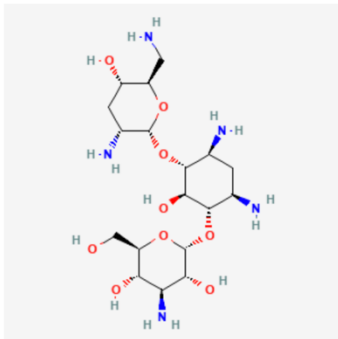
/AMINOGLYCOSIDES/ INHIBIT PROTEIN BIOSYNTHESIS & DECR FIDELITY OF TRANSLATION OF GENETIC CODE. /AMINOGLYCOSIDES/

Aminoglycosides are usually bactericidal 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 membrane 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

2D Structure



Antibiotic action button: Tobramycin (AMR Phenotypes display)

Antibiotic View
ANTIBIOTIC NAME IS tobramycin

Overview **AMR Phenotypes** AMR Genes AMR Regions

DOWNLOAD KEYWORDS ADV Search HIDE

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 Classifi AdaBoost Classifi

<input type="checkbox"/>	Genome Name	Antibiotic	Resistant Phenotype	Measurement Sign	Measurement Value	Measurement Units	Lab typing Method	Computational Method	Evidence	Pubmed
<input type="checkbox"/>	Klebsiella pneumoniae strain EuSCAPE_RC	tobramycin	Resistant					AdaBoost Classifi	Computational Me	
<input type="checkbox"/>	Klebsiella pneumoniae strain SRRSH8	tobramycin	Susceptible					AdaBoost Classifi	Computational Me	
<input type="checkbox"/>	Klebsiella pneumoniae KPN1261ec	tobramycin	Resistant	>	8	mg/L	MIC		Laboratory Methoc	28512093,2877
<input type="checkbox"/>	Klebsiella pneumoniae strain EuSCAPE_TR	tobramycin	Susceptible					AdaBoost Classifi	Computational Me	
<input type="checkbox"/>	Pseudomonas aeruginosa strain F2045	tobramycin			256	mg/L	MIC		Laboratory Methoc	32048461
<input type="checkbox"/>	Acinetobacter baumannii strain MRSN7388	tobramycin	Susceptible	==	4	mg/L	MIC		Laboratory Methoc	
<input type="checkbox"/>	Klebsiella pneumoniae KPN1102ec	tobramycin	Resistant					AdaBoost Classifi	Computational Me	
<input type="checkbox"/>	Klebsiella pneumoniae strain EuSCAPE_GF	tobramycin	Resistant					AdaBoost Classifi	Computational Me	
<input type="checkbox"/>	Klebsiella pneumoniae KPN238ec	tobramycin	Susceptible					AdaBoost Classifi	Computational Me	
<input type="checkbox"/>	Klebsiella pneumoniae strain EuSCAPE_IT	tobramycin	Resistant					AdaBoost Classifi	Computational Me	
<input type="checkbox"/>	Klebsiella pneumoniae KPN377ec	tobramycin	Resistant					AdaBoost Classifi	Computational Me	
<input type="checkbox"/>	Klebsiella pneumoniae KPN1713ec	tobramycin	Resistant	>	8	mg/L	MIC		Laboratory Methoc	28512093,2877
<input type="checkbox"/>	Pseudomonas aeruginosa strain PAER_4	tobramycin			8	mg/L	thermofisher_scler		Laboratory Methoc	31530672
<input type="checkbox"/>	Klebsiella pneumoniae strain NR0390	tobramycin	Resistant					AdaBoost Classifi	Computational Me	
<input type="checkbox"/>	Klebsiella pneumoniae strain Kpngiani7132	tobramycin	Susceptible					AdaBoost Classifi	Computational Me	
<input type="checkbox"/>	Klebsiella pneumoniae subsp. pneumoniae	tobramycin	Susceptible					AdaBoost Classifi	Computational Me	
<input type="checkbox"/>	Klebsiella pneumoniae strain EuSCAPE_GF	tobramycin	Resistant					AdaBoost Classifi	Computational Me	
<input type="checkbox"/>	Klebsiella pneumoniae subsp. pneumoniae	tobramycin		>	8	mg/L	MIC		Laboratory Methoc	24639510
<input type="checkbox"/>	Klebsiella pneumoniae subsp. pneumoniae	tobramycin	Resistant					AdaBoost Classifi	Computational Me	
<input type="checkbox"/>	Pseudomonas aeruginosa strain ESP039	tobramycin			2	mg/L	MIC		Laboratory Methoc	32048461
<input type="checkbox"/>	Klebsiella pneumoniae KPN1877ec	tobramycin	Resistant					AdaBoost Classifi	Computational Me	
<input type="checkbox"/>	Escherichia coli O11:H18 strain ECO0037	tobramycin	Susceptible						Laboratory Methoc	28720578
<input type="checkbox"/>	Klebsiella pneumoniae strain Kpngiani7132	tobramycin	Resistant					AdaBoost Classifi	Computational Me	
<input type="checkbox"/>	Pseudomonas aeruginosa strain PSAE1438	tobramycin			2	mg/L	MIC		Laboratory Methoc	32048461
<input type="checkbox"/>	Acinetobacter baumannii strain MRSN7417	tobramycin	Susceptible	==	2	mg/L	MIC		Laboratory Methoc	
<input type="checkbox"/>	Klebsiella pneumoniae strain EuSCAPE_IT	tobramycin	Susceptible					AdaBoost Classifi	Computational Me	
<input type="checkbox"/>	Klebsiella pneumoniae strain KPM_76	tobramycin	Resistant					AdaBoost Classifi	Computational Me	
<input type="checkbox"/>	Klebsiella pneumoniae strain RHBSTW-000	tobramycin	Resistant					AdaBoost Classifi	Computational Me	
<input type="checkbox"/>	Klebsiella pneumoniae strain CRK0020	tobramycin	Resistant					AdaBoost Classifi	Computational Me	

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Antibiotic action button: Tobramycin (AMR Genes display)

Antibiotic View
ANTIBIOTIC NAME IS tobramycin

Overview **AMR Phenotypes** AMR Genes AMR Regions



KEYWORDS



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 Classifi AdaBoost Classifi

<input type="checkbox"/>	Genome Name	Antibiotic	Resistant Phenotype	Measurement Sign	Measurement Value	Measurement Units	Lab typing Method	Computational Method	Evidence	Pubmed
<input type="checkbox"/>	Klebsiella pneumoniae strain EuSCAPE_RC	tobramycin	Resistant					AdaBoost Classifi	Computational Me	
<input type="checkbox"/>	Klebsiella pneumoniae strain SRRSH8	tobramycin	Susceptible					AdaBoost Classifi	Computational Me	
<input type="checkbox"/>	Klebsiella pneumoniae KPN1261ec	tobramycin	Resistant	>	8	mg/L	MIC		Laboratory Methoc	28512093,2877
<input type="checkbox"/>	Klebsiella pneumoniae strain EuSCAPE_TR	tobramycin	Susceptible					AdaBoost Classifi	Computational Me	
<input type="checkbox"/>	Pseudomonas aeruginosa strain F2045	tobramycin			256	mg/L	MIC		Laboratory Methoc	32048461
<input type="checkbox"/>	Acinetobacter baumannii strain MRSN7388	tobramycin	Susceptible	==	4	mg/L	MIC		Laboratory Methoc	
<input type="checkbox"/>	Klebsiella pneumoniae KPN1102ec	tobramycin	Resistant					AdaBoost Classifi	Computational Me	
<input type="checkbox"/>	Klebsiella pneumoniae strain EuSCAPE_GF	tobramycin	Resistant					AdaBoost Classifi	Computational Me	
<input type="checkbox"/>	Klebsiella pneumoniae KPN238ec	tobramycin	Susceptible					AdaBoost Classifi	Computational Me	
<input type="checkbox"/>	Klebsiella pneumoniae strain EuSCAPE_IT	tobramycin	Resistant					AdaBoost Classifi	Computational Me	
<input type="checkbox"/>	Klebsiella pneumoniae KPN377ec	tobramycin	Resistant					AdaBoost Classifi	Computational Me	
<input type="checkbox"/>	Klebsiella pneumoniae KPN1713ec	tobramycin	Resistant	>	8	mg/L	MIC		Laboratory Methoc	28512093,2877
<input type="checkbox"/>	Pseudomonas aeruginosa strain PAER_4	tobramycin			8	mg/L	thermofisher_scler		Laboratory Methoc	31530672
<input type="checkbox"/>	Klebsiella pneumoniae strain NR0390	tobramycin	Resistant					AdaBoost Classifi	Computational Me	
<input type="checkbox"/>	Klebsiella pneumoniae strain Kpngiani7132	tobramycin	Susceptible					AdaBoost Classifi	Computational Me	
<input type="checkbox"/>	Klebsiella pneumoniae subsp. pneumoniae	tobramycin	Susceptible					AdaBoost Classifi	Computational Me	
<input type="checkbox"/>	Klebsiella pneumoniae strain EuSCAPE_GF	tobramycin	Resistant					AdaBoost Classifi	Computational Me	
<input type="checkbox"/>	Klebsiella pneumoniae subsp. pneumoniae	tobramycin		>	8	mg/L	MIC		Laboratory Methoc	24639510
<input type="checkbox"/>	Klebsiella pneumoniae subsp. pneumoniae	tobramycin	Resistant					AdaBoost Classifi	Computational Me	
<input type="checkbox"/>	Pseudomonas aeruginosa strain ESP039	tobramycin			2	mg/L	MIC		Laboratory Methoc	32048461
<input type="checkbox"/>	Klebsiella pneumoniae KPN1877ec	tobramycin	Resistant					AdaBoost Classifi	Computational Me	
<input type="checkbox"/>	Escherichia coli O11:H18 strain ECO0037	tobramycin	Susceptible						Laboratory Methoc	28720578
<input type="checkbox"/>	Klebsiella pneumoniae strain Kpngiani7132	tobramycin	Resistant					AdaBoost Classifi	Computational Me	
<input type="checkbox"/>	Pseudomonas aeruginosa strain PSAE1438	tobramycin			2	mg/L	MIC		Laboratory Methoc	32048461
<input type="checkbox"/>	Acinetobacter baumannii strain MRSN7417	tobramycin	Susceptible	==	2	mg/L	MIC		Laboratory Methoc	
<input type="checkbox"/>	Klebsiella pneumoniae strain EuSCAPE_IT	tobramycin	Susceptible					AdaBoost Classifi	Computational Me	
<input type="checkbox"/>	Klebsiella pneumoniae strain KPM_76	tobramycin	Resistant					AdaBoost Classifi	Computational Me	
<input type="checkbox"/>	Klebsiella pneumoniae strain RHBSTW-000	tobramycin	Resistant					AdaBoost Classifi	Computational Me	
<input type="checkbox"/>	Klebsiella pneumoniae strain CRK0020	tobramycin	Resistant					AdaBoost Classifi	Computational Me	

1 - 200 of 26229 results

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Antibiotic action button: Tobramycin (AMR Genes display)

Antibiotic View
ANTIBIOTIC NAME IS tobramycin

Overview AMR Phenotypes **AMR Genes** AMR Regions

DOWNLOAD KEYWORDS ADV Search FILTERS

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

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Antibiotic action button: Tobramycin (AMR Regions display)

Antibiotic View
ANTIBIOTIC NAME IS **tobramycin**

Overview AMR Phenotypes AMR Genes **AMR Regions**

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<input type="checkbox"/>	Genome ID	Genome Name	Accession	Feature Type	BRC ID	RefSeq Locus Tag	Start	End	Strand	Length (NA)	Gene Symbol	Product
<input type="checkbox"/>	573.15849	Klebsiella pneumoniae	AF479774	classifier_pr	fig 573.15849.cl		6288	6302	+	15		Tobramycin resistance predicted region
<input type="checkbox"/>	573.15849	Klebsiella pneumoniae	AF479774	classifier_pr	fig 573.15849.cl		11161	11180	+	20		Tobramycin resistance predicted region
<input type="checkbox"/>	573.27727	Klebsiella pneumoniae	CABHKK01000	classifier_pr	fig 573.27727.cl		311936	311950	+	15		Tobramycin resistance predicted region
<input type="checkbox"/>	573.27727	Klebsiella pneumoniae	CABHKK01000	classifier_pr	fig 573.27727.cl		1745373	1745387	+	15		Tobramycin resistance predicted region
<input type="checkbox"/>	573.27727	Klebsiella pneumoniae	CABHKK01000	classifier_pr	fig 573.27727.cl		1749837	1749851	+	15		Tobramycin resistance predicted region
<input type="checkbox"/>	573.27727	Klebsiella pneumoniae	CABHKK01000	classifier_pr	fig 573.27727.cl		4390054	4390068	+	15		Tobramycin resistance predicted region
<input type="checkbox"/>	573.27727	Klebsiella pneumoniae	CABHKK01000	classifier_pr	fig 573.27727.cl		78494	78508	+	15		Tobramycin resistance predicted region
<input type="checkbox"/>	573.27727	Klebsiella pneumoniae	CABHKK01000	classifier_pr	fig 573.27727.cl		154228	154242	+	15		Tobramycin resistance predicted region
<input type="checkbox"/>	573.27729	Klebsiella pneumoniae	CABHKK010000	classifier_pr	fig 573.27729.cl		195694	195708	+	15		Tobramycin resistance predicted region
<input type="checkbox"/>	573.27729	Klebsiella pneumoniae	CABHKK010000	classifier_pr	fig 573.27729.cl		3980	3994	+	15		Tobramycin resistance predicted region
<input type="checkbox"/>	573.27729	Klebsiella pneumoniae	CABHKK010000	classifier_pr	fig 573.27729.cl		7393	7407	+	15		Tobramycin resistance predicted region
<input type="checkbox"/>	573.27729	Klebsiella pneumoniae	CABHKK010000	classifier_pr	fig 573.27729.cl		2392291	2392305	+	15		Tobramycin resistance predicted region
<input type="checkbox"/>	573.27729	Klebsiella pneumoniae	CABHKK010000	classifier_pr	fig 573.27729.cl		2396744	2396758	+	15		Tobramycin resistance predicted region
<input type="checkbox"/>	573.27729	Klebsiella pneumoniae	CABHKK010000	classifier_pr	fig 573.27729.cl		4651	4665	+	15		Tobramycin resistance predicted region
<input type="checkbox"/>	573.27729	Klebsiella pneumoniae	CABHKK010000	classifier_pr	fig 573.27729.cl		8071	8085	+	15		Tobramycin resistance predicted region
<input type="checkbox"/>	573.27729	Klebsiella pneumoniae	CABHKK010000	classifier_pr	fig 573.27729.cl		11491	11505	+	15		Tobramycin resistance predicted region
<input type="checkbox"/>	573.27729	Klebsiella pneumoniae	CABHKK010000	classifier_pr	fig 573.27729.cl		20116	20130	+	15		Tobramycin resistance predicted region
<input type="checkbox"/>	573.27729	Klebsiella pneumoniae	CABHKK010000	classifier_pr	fig 573.27729.cl		21450	21464	+	15		Tobramycin resistance predicted region
<input type="checkbox"/>	573.27729	Klebsiella pneumoniae	CABHKK010000	classifier_pr	fig 573.27729.cl		22070	22084	+	15		Tobramycin resistance predicted region
<input type="checkbox"/>	573.27729	Klebsiella pneumoniae	CABHKK010000	classifier_pr	fig 573.27729.cl		62806	62820	+	15		Tobramycin resistance predicted region
<input type="checkbox"/>	573.27729	Klebsiella pneumoniae	CABHKK010000	classifier_pr	fig 573.27729.cl		66226	66240	+	15		Tobramycin resistance predicted region
<input type="checkbox"/>	573.27729	Klebsiella pneumoniae	CABHKK010000	classifier_pr	fig 573.27729.cl		69643	69657	+	15		Tobramycin resistance predicted region
<input type="checkbox"/>	573.27729	Klebsiella pneumoniae	CABHKK010000	classifier_pr	fig 573.27729.cl		73053	73067	+	15		Tobramycin resistance predicted region
<input type="checkbox"/>	573.27724	Klebsiella pneumoniae	CABHKK010000	classifier_pr	fig 573.27724.cl		1736	1750	+	15		Tobramycin resistance predicted region
<input type="checkbox"/>	573.27724	Klebsiella pneumoniae	CABHKK010000	classifier_pr	fig 573.27724.cl		173161	173175	+	15		Tobramycin resistance predicted region
<input type="checkbox"/>	573.27724	Klebsiella pneumoniae	CABHKK010000	classifier_pr	fig 573.27724.cl		522612	522626	+	15		Tobramycin resistance predicted region
<input type="checkbox"/>	573.27724	Klebsiella pneumoniae	CABHKK010000	classifier_pr	fig 573.27724.cl		3250210	3250224	+	15		Tobramycin resistance predicted region
<input type="checkbox"/>	573.27724	Klebsiella pneumoniae	CABHKK010000	classifier_pr	fig 573.27724.cl		3254663	3254677	+	15		Tobramycin resistance predicted region
<input type="checkbox"/>	573.27724	Klebsiella pneumoniae	CABHKK010000	classifier_pr	fig 573.27724.cl		79537	79556	+	20		Tobramycin resistance predicted region
<input type="checkbox"/>	573.27724	Klebsiella pneumoniae	CABHKK010000	classifier_pr	fig 573.27724.cl		82765	82779	+	15		Tobramycin resistance predicted region
<input type="checkbox"/>	573.27725	Klebsiella pneumoniae	CABHKK010000	classifier_pr	fig 573.27725.cl		1604	1618	+	15		Tobramycin resistance predicted region
<input type="checkbox"/>	573.27725	Klebsiella pneumoniae	CABHKK010000	classifier_pr	fig 573.27725.cl		15578	15597	+	20		Tobramycin resistance predicted region
<input type="checkbox"/>	573.27725	Klebsiella pneumoniae	CABHKK010000	classifier_pr	fig 573.27725.cl		26418	26432	+	15		Tobramycin resistance predicted region
<input type="checkbox"/>	573.27725	Klebsiella pneumoniae	CABHKK010000	classifier_pr	fig 573.27725.cl		27752	27766	+	15		Tobramycin resistance predicted region
<input type="checkbox"/>	573.27725	Klebsiella pneumoniae	CABHKK010000	classifier_pr	fig 573.27725.cl		28372	28386	+	15		Tobramycin resistance predicted region
<input type="checkbox"/>	573.27725	Klebsiella pneumoniae	CABHKK010000	classifier_pr	fig 573.27725.cl		220390	220404	+	15		Tobramycin resistance predicted region
<input type="checkbox"/>	573.27725	Klebsiella pneumoniae	CABHKK010000	classifier_pr	fig 573.27725.cl		148	162	+	15		Tobramycin resistance predicted region
<input type="checkbox"/>	573.27725	Klebsiella pneumoniae	CABHKK010000	classifier_pr	fig 573.27725.cl		2074	2088	+	15		Tobramycin resistance predicted region

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