

How To: Download, using the MicroBIGG-E Map, *blaKPC* nucleotide sequences from *Klebsiella pneumoniae* isolates from China and the U.S.

NCBI Pathogen Detection

<https://www.ncbi.nlm.nih.gov/pathogens>



U.S. National Library of Medicine
National Center for Biotechnology Information

At a glance

- Use the MicroBIGG-E Map
https://www.ncbi.nlm.nih.gov/pathogens/microbigge_map/
- Select "Klebsiella pneumoniae" from the Organism Group dropdown menu
- Select "Element symbol" in Filters and search for "*blaKPC*"
- Use the MicroBIGG-E International Map Panel to restrict data to isolates from China and the U.S.
- Use the Cross-Browser option to display selected isolates in MicroBIGG-E
- In MicroBIGG-E, select "Download"
- In the Download pop-up, select "Dataset (.zip)"
- Select the "Element" box
- Select Download

https://www.ncbi.nlm.nih.gov/pathogens/microbigg_map/

Health > Pathogen Detection > MicroBIGG-E > MicroBIGG-E International Map

Read this first!

Organism group:

2. Select Klebsiella pneumoniae as Organism group

4. Enter "blaKPC" in filter panel search bar

Make selection to update the map

View selected isolates in

Filters 48

Available filters

- Filter
- Class of antibiotic
- Collection date
- Create date
- Element symbol (gene name)
- Host
- Isolate
- Isolation source
- Isolation type
- Scientific name
- Subclass of antibiotic

48 Element symbol (gene name)

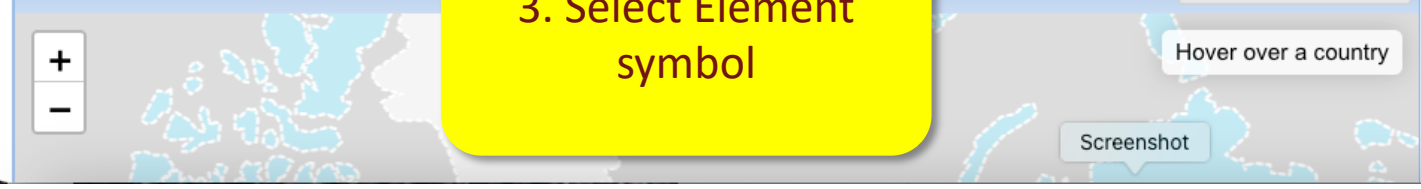
Search

- blaKPC 17233
 - blaKPC-2 12375
 - blaKPC-3 4402
 - blaKPC 241
 - blaKPC-31 46
 - blaKPC-4 27
 - blaKPC-33 22
 - blaKPC-23 20
 - blaKPC-66 8
 - blaKPC-12 7
 - blaKPC-6 7
 - blaKPC-62 6

5. Select blaKPC in filter

3. Select Element symbol

MicroBIGG-E International Map



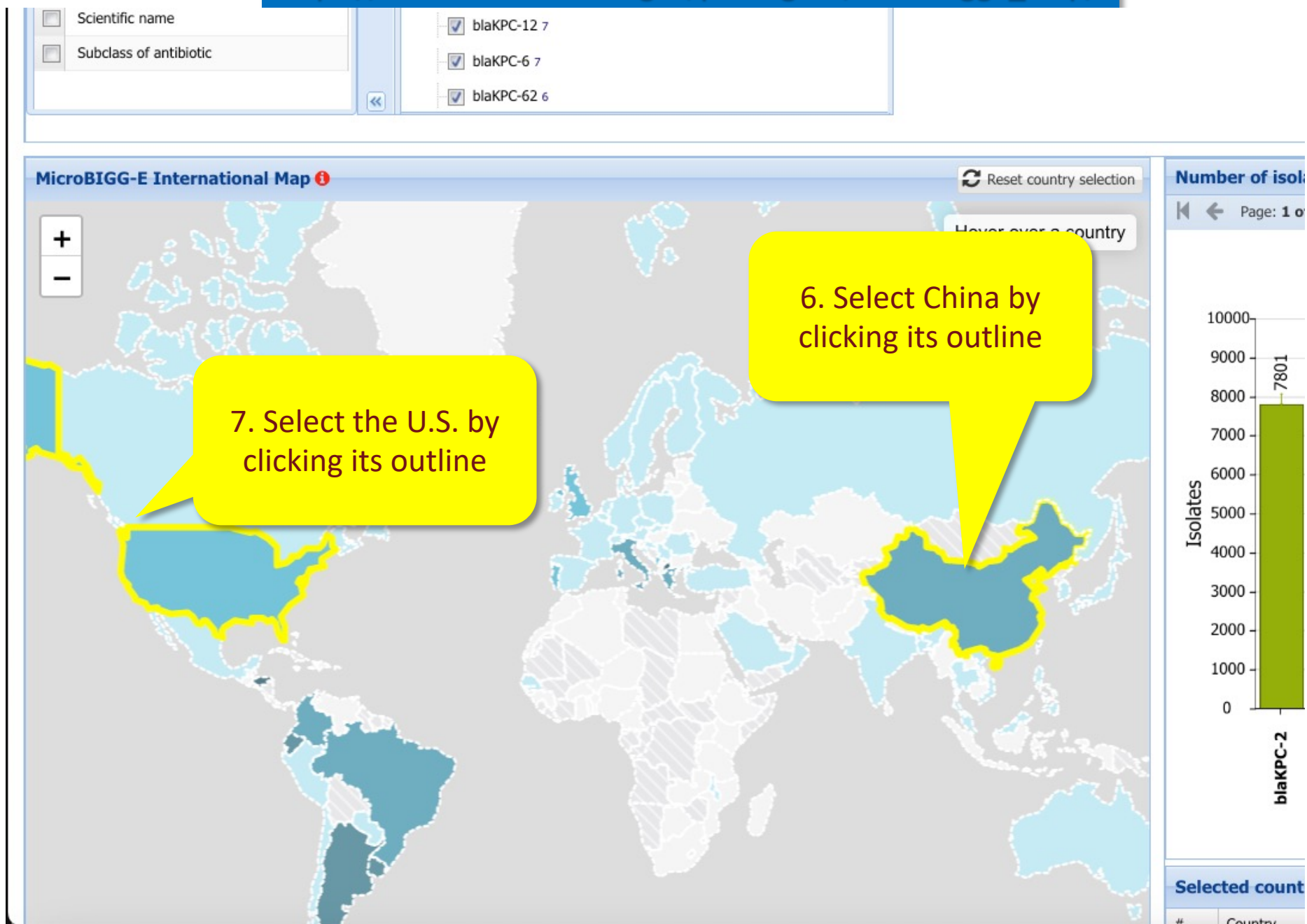
Number of isolates with a given element, colored by class/subclass

Page: 1 of 2 Displaying: 1 - 20 of 27

- CARBAPENEM
- CEPHALOSPORIN
- BETA-LACTAM

10000

https://www.ncbi.nlm.nih.gov/pathogens/microbigg_map/



Organism group:

Make selection to update the map

View selected isolates in

Filters 48

Available filters

Filter

- Class of antibiotic
- Collection date
- Create date
- Element symbol (gene name)
- Host
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- Isolation source
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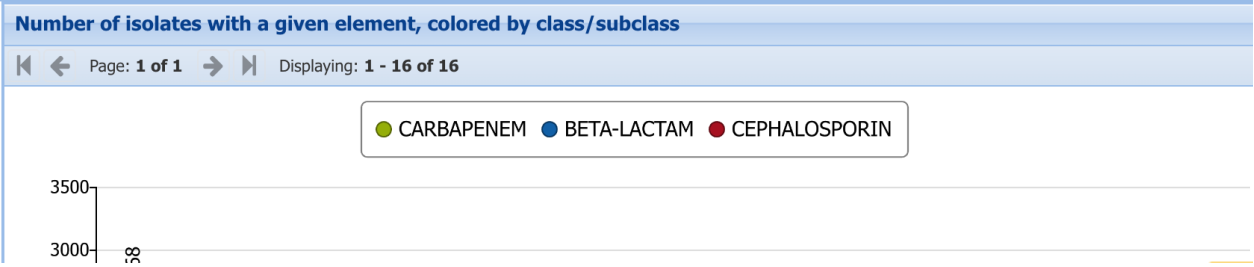
48 Element symbol (gene name)

Search

- blaKPC 17340
 - blaKPC-2 12439
 - blaKPC-3 4441
 - blaKPC 244
 - blaKPC-31 46
 - blaKPC-4 28
 - blaKPC-33 22
 - blaKPC-23 20
 - blaKPC-66 8
 - blaKPC-12 7
 - blaKPC-6 7
 - blaKPC-62 6

8. Select the "Show in MicroBIGG-E" button

MicroBIGG-E International Map



https://www.ncbi.nlm.nih.gov/pathogens/microbigg_map/

Health > Pathogen Detection > Pathogen Detection Microbial Browser for Identification of Genetic and Genom

This interface contains a list of MicroBIGG-E data that have genomic sequence data available in GenBank and have genotypes identified by AMRFinderL

Search

9. Select the "Download" button

Restricted by current user. MicroBIGG-E data are available for search/download on Google Cloud. See MicroBIGG-E at

#	Closest reference name	Scientific name	Protein	BioSample	Isolate	Contig	Start
1	carbapenem-hydrolyzing clas...	Klebsiella pneumoniae	EIW9278463.1	SAMN04393399	PDT000102016.2	ABFCZO010000039.1	8502
2	carbapenem-hydrolyzing clas...	Klebsiella pneumoniae	EIW918...			ABFCYY010000032.1	23161
3	carbapenem-hydrolyzing clas...	Klebsiella pneumoniae	EIW935...				7202
4	carbapenem-hydrolyzing clas...	Klebsiella pneumoniae	EIW935...			ABFDAD010000103.1	5465
5	carbapenem-hydrolyzing clas...	Klebsiella pneumoniae	HBZ083...			DAGTAS010000036.1	35538
6	carbapenem-hydrolyzing clas...	Klebsiella pneumoniae	HBZ087...			DAGTAQ010000038.1	28819
7	carbapenem-hydrolyzing clas...	Klebsiella pneumoniae	HBZ0827...			DAGTAO010000061.1	14133
8	carbapenem-hydrolyzing clas...	Klebsiella pneumoniae	HBZ0822128.1	SAMN03024581	PDT000136454.2	DAGTAM010000110.1	4545
9	carbapenem-hydrolyzing clas...	Klebsiella pneumoniae	HBZ0810888.1	SAMN03024586	PDT000136458.2	DAGTAK010000122.1	8090
10	carbapenem-hydrolyzing clas...	Klebsiella pneumoniae	HBZ0788060.1	SAMN03024588	PDT000136460.2	DAGTAH010000065.1	4168
11	carbapenem-hydrolyzing clas...	Klebsiella pneumoniae	HBZ0788060.1	SAMN03024588	PDT000136460.2	DAGTAH010000065.1	4168
12	carbapenem-hydrolyzing clas...	Klebsiella pneumoniae	HBZ0788060.1	SAMN03024588	PDT000136460.2	DAGTAH010000065.1	4168
13	carbapenem-hydrolyzing clas...	Klebsiella pneumoniae	HBZ0788060.1	SAMN03024588	PDT000136460.2	DAGTAH010000065.1	4168
14	carbapenem-hydrolyzing clas...	Klebsiella pneumoniae	HBZ0788060.1	SAMN03024588	PDT000136460.2	DAGTAH010000065.1	4168
15	carbapenem-hydrolyzing clas...	Klebsiella pneumoniae	HBZ0788060.1	SAMN03024588	PDT000136460.2	DAGTAH010000065.1	4168
16	carbapenem-hydrolyzing clas...	Klebsiella pneumoniae	HBZ0788060.1	SAMN03024588	PDT000136460.2	DAGTAH010000065.1	4168

10. Select the "Element" button

11. Select the "Download" button to download a fasta format file of nucleotide sequence

Download

File type: Dataset (.zip)

Sequence files

- Contig (contig.fna)
- Element (element.fna)
- Element with flanks (element_with_flanks.fna)

Flank size: 100 bases

- Protein (protein.faa)

Name: ncbi_dataset.zip

Download Cancel

More information

- For full help documentation of the MicroBIGG-E Map see: **LINK**
- For full help documentation of MicroBIGG-E see:
https://www.ncbi.nlm.nih.gov/pathogens/pathogens_help/#microbigge

Questions and further help: email pd-help@ncbi.nlm.nih.gov