Draft Genome Sequences of Burkholderia cenocepacia ET12 Lineage Strains K56-2 and BC7

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Journal Title: Genome Announcements
Volume: Volume 1, Number 5
Publisher: American Society for Microbiology: Genome Announcements | 2013-09, Pages e00841-13
Type of Work: Article | Final Publisher PDF
Publisher DOI: 10.1128/genomeA.00841-13
Permanent URL: http://pid.emory.edu/ark:/25593/fm191

Final published version: http://genomea.asm.org/content/1/5/e00841-13

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Accessed January 2, 2019 6:17 PM EST
The *Burkholderia cenocepa* complex (BCC) is a group of closely related bacteria that are responsible for respiratory infections in immunocompromised humans, most notably those with cystic fibrosis (CF). We report the genome sequences for *Burkholderia cenoceapa* ET12 lineage CF isolates K56-2 and BC7.

The BC7 assembly was initially in 7 scaffolds and 785 contigs. Since additional sequencing was not pursued for this genome, a reference-guided gap closure pipeline was employed to resolve hundreds of gaps found throughout the assembly. The gap sequences were predicted from the closed-genome reference (J2315) and used to recruit and locally assemble reads into the gaps to merge the adjacent contigs. The resulting assembly is 296 contigs in 7 scaffolds.

As in J2315, each genome has 3 chromosomes and 1 plasmid. The chromosomes in BC7 and K56-2 have very similar sizes to those reported in J2315 (3.83 Mb, 3.19 Mb, and 0.88 Mb), except for chromosome 1 in K56-2, which has an estimated size of 3.67 Mb, due to the absence of the large duplication in J2315. The presence of the plasmid was previously detected in K56-2, BC7, and J2315. Sequence data confirm the presence of the plasmid in BC7 and K56-2, with practically no differences between the three strains except for the presence of an additional copy of an insertion element in the J2315 plasmid, pBCJ2315 (6). The genomes were annotated using the annotation pipeline of the J. Craig Venter Institute (JCVI) (http://www.jcvi.org) and submitted to GenBank. Sequence data indicate that K56-2 and BC7 have similar gene contents to that of J2315, with 7,714 and 7,930 open reading frames (ORFs), respectively.

Nucleotide sequence accession numbers. The *B. cenoceapa* BC7 whole-genome shotgun project has been deposited at DDBJ/EMBL/GenBank under the accession no. ALIZ00000000. The version described in this paper is the second version, ALIZ01000000.

The *B. cenoceapa* K56-2 whole-genome shotgun project has been deposited at DDBJ/EMBL/GenBank under the accession no. ALJA00000000. The version described in this paper is the second version, ALJA01000000.
ACKNOWLEDGMENTS

This project has been funded in part with federal funds from the National Institute of Allergy and Infectious Diseases, National Institutes of Health, Department of Health and Human Services, under contract no. HHSN272200900007C and N01-AI30071. PacBio kindly contributed sequence reads for B. cenocepacia K56-2. J.J.V. was supported in part by the National Institutes of Health grant no. 5T32AI055432 awarded to the University of Virginia.

REFERENCES