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University of Ottawa

Ottawa

Corresponding Faculty Member: Adam Rudner (arudner@uottawa.ca)

Host Range of Celery, a BD3 Bacteriophage that Infects Streptomyces coelicolor.

Abdulla Al Aidie, Sarah Alsayadi, Kieran Chalmers, Lisa Chen, Hiba A Chentoufi, Nazia Hassan, Siyona Kassel, Katia Koziel Ly, Mariam Mahran, Zachary Mitchell, Paul Nguyen, Ayesha Syed, Fatima Sheikh-Mohamoud, Xeius Tran-Wong, Elijah Van Dinther, Keith Wheaton, Kin Chan, Elizabeth Williams, Erika Znamenski, Adam D Rudner

A cluster BD3 Siphoviridae phage, Celery, was discovered at the Faculty of Medicine campus of the University of Ottawa in Fall of 2022 and isolated using the host *Streptomyces coelicolor* M145. Illumina sequencing revealed a genome of 48562 bp with 65.4% GC content. The genome was annotated using PECAAN, Phamerator, Glimmer, GeneMark, Starterator, HHPred, NCBI BLAST, DeepTMHMM and PhagesDB. Automated annotation detects 79 genes with 2 orphams. NCBI BLASTN revealed high synteny with BD3 phages Amela and Verse, both with 95% query cover. These phages were found far from Ottawa at the University of North Texas, in Dallas. Amela and Verse, however, were isolated using a different host, *Streptomyces venezuelae* ATCC 10712, suggesting that Celery may be able to infect this host. Preliminary tests, however, suggest that Celery has a limited host range and does not infect *S. venezuelae*.